

|       |     |                                       |      |      |         |
|-------|-----|---------------------------------------|------|------|---------|
| 10673 | AAC | IEEE 802.11ax (20MHz, MCS2, 90pc dc)  | WLAN | 8.78 | ± 9.6 % |
| 10674 | AAC | IEEE 802.11ax (20MHz, MCS3, 90pc dc)  | WLAN | 8.74 | ± 9.6 % |
| 10675 | AAC | IEEE 802.11ax (20MHz, MCS4, 90pc dc)  | WLAN | 8.90 | ± 9.6 % |
| 10676 | AAC | IEEE 802.11ax (20MHz, MCS5, 90pc dc)  | WLAN | 8.77 | ± 9.6 % |
| 10677 | AAC | IEEE 802.11ax (20MHz, MCS6, 90pc dc)  | WLAN | 8.73 | ± 9.6 % |
| 10678 | AAC | IEEE 802.11ax (20MHz, MCS7, 90pc dc)  | WLAN | 8.78 | ± 9.6 % |
| 10679 | AAC | IEEE 802.11ax (20MHz, MCS8, 90pc dc)  | WLAN | 8.89 | ± 9.6 % |
| 10680 | AAC | IEEE 802.11ax (20MHz, MCS9, 90pc dc)  | WLAN | 8.80 | ± 9.6 % |
| 10681 | AAC | IEEE 802.11ax (20MHz, MCS10, 90pc dc) | WLAN | 8.62 | ± 9.6 % |
| 10682 | AAC | IEEE 802.11ax (20MHz, MCS11, 90pc dc) | WLAN | 8.83 | ± 9.6 % |
| 10683 | AAC | IEEE 802.11ax (20MHz, MCS0, 99pc dc)  | WLAN | 8.42 | ± 9.6 % |
| 10684 | AAC | IEEE 802.11ax (20MHz, MCS1, 99pc dc)  | WLAN | 8.26 | ± 9.6 % |
| 10685 | AAC | IEEE 802.11ax (20MHz, MCS2, 99pc dc)  | WLAN | 8.33 | ± 9.6 % |
| 10686 | AAC | IEEE 802.11ax (20MHz, MCS3, 99pc dc)  | WLAN | 8.28 | ± 9.6 % |
| 10687 | AAC | IEEE 802.11ax (20MHz, MCS4, 99pc dc)  | WLAN | 8.45 | ± 9.6 % |
| 10688 | AAC | IEEE 802.11ax (20MHz, MCS5, 99pc dc)  | WLAN | 8.29 | ± 9.6 % |
| 10689 | AAC | IEEE 802.11ax (20MHz, MCS6, 99pc dc)  | WLAN | 8.55 | ± 9.6 % |
| 10690 | AAC | IEEE 802.11ax (20MHz, MCS7, 99pc dc)  | WLAN | 8.29 | ± 9.6 % |
| 10691 | AAC | IEEE 802.11ax (20MHz, MCS8, 99pc dc)  | WLAN | 8.25 | ± 9.6 % |
| 10692 | AAC | IEEE 802.11ax (20MHz, MCS9, 99pc dc)  | WLAN | 8.29 | ± 9.6 % |
| 10693 | AAC | IEEE 802.11ax (20MHz, MCS10, 99pc dc) | WLAN | 8.25 | ± 9.6 % |
| 10694 | AAC | IEEE 802.11ax (20MHz, MCS11, 99pc dc) | WLAN | 8.57 | ± 9.6 % |
| 10695 | AAC | IEEE 802.11ax (40MHz, MCS0, 90pc dc)  | WLAN | 8.78 | ± 9.6 % |
| 10696 | AAC | IEEE 802.11ax (40MHz, MCS1, 90pc dc)  | WLAN | 8.91 | ± 9.6 % |
| 10697 | AAC | IEEE 802.11ax (40MHz, MCS2, 90pc dc)  | WLAN | 8.61 | ± 9.6 % |
| 10698 | AAC | IEEE 802.11ax (40MHz, MCS3, 90pc dc)  | WLAN | 8.89 | ± 9.6 % |
| 10699 | AAC | IEEE 802.11ax (40MHz, MCS4, 90pc dc)  | WLAN | 8.82 | ± 9.6 % |
| 10700 | AAC | IEEE 802.11ax (40MHz, MCS5, 90pc dc)  | WLAN | 8.73 | ± 9.6 % |
| 10701 | AAC | IEEE 802.11ax (40MHz, MCS6, 90pc dc)  | WLAN | 8.86 | ± 9.6 % |
| 10702 | AAC | IEEE 802.11ax (40MHz, MCS7, 90pc dc)  | WLAN | 8.70 | ± 9.6 % |
| 10703 | AAC | IEEE 802.11ax (40MHz, MCS8, 90pc dc)  | WLAN | 8.82 | ± 9.6 % |
| 10704 | AAC | IEEE 802.11ax (40MHz, MCS9, 90pc dc)  | WLAN | 8.56 | ± 9.6 % |
| 10705 | AAC | IEEE 802.11ax (40MHz, MCS10, 90pc dc) | WLAN | 8.69 | ± 9.6 % |
| 10706 | AAC | IEEE 802.11ax (40MHz, MCS11, 90pc dc) | WLAN | 8.66 | ± 9.6 % |
| 10707 | AAC | IEEE 802.11ax (40MHz, MCS0, 99pc dc)  | WLAN | 8.32 | ± 9.6 % |
| 10708 | AAC | IEEE 802.11ax (40MHz, MCS1, 99pc dc)  | WLAN | 8.55 | ± 9.6 % |
| 10709 | AAC | IEEE 802.11ax (40MHz, MCS2, 99pc dc)  | WLAN | 8.33 | ± 9.6 % |
| 10710 | AAC | IEEE 802.11ax (40MHz, MCS3, 99pc dc)  | WLAN | 8.29 | ± 9.6 % |
| 10711 | AAC | IEEE 802.11ax (40MHz, MCS4, 99pc dc)  | WLAN | 8.39 | ± 9.6 % |
| 10712 | AAC | IEEE 802.11ax (40MHz, MCS5, 99pc dc)  | WLAN | 8.67 | ± 9.6 % |
| 10713 | AAC | IEEE 802.11ax (40MHz, MCS6, 99pc dc)  | WLAN | 8.33 | ± 9.6 % |
| 10714 | AAC | IEEE 802.11ax (40MHz, MCS7, 99pc dc)  | WLAN | 8.26 | ± 9.6 % |
| 10715 | AAC | IEEE 802.11ax (40MHz, MCS8, 99pc dc)  | WLAN | 8.45 | ± 9.6 % |
| 10716 | AAC | IEEE 802.11ax (40MHz, MCS9, 99pc dc)  | WLAN | 8.30 | ± 9.6 % |
| 10717 | AAC | IEEE 802.11ax (40MHz, MCS10, 99pc dc) | WLAN | 8.48 | ± 9.6 % |
| 10718 | AAC | IEEE 802.11ax (40MHz, MCS11, 99pc dc) | WLAN | 8.24 | ± 9.6 % |
| 10719 | AAC | IEEE 802.11ax (80MHz, MCS0, 90pc dc)  | WLAN | 8.81 | ± 9.6 % |
| 10720 | AAC | IEEE 802.11ax (80MHz, MCS1, 90pc dc)  | WLAN | 8.87 | ± 9.6 % |
| 10721 | AAC | IEEE 802.11ax (80MHz, MCS2, 90pc dc)  | WLAN | 8.76 | ± 9.6 % |
| 10722 | AAC | IEEE 802.11ax (80MHz, MCS3, 90pc dc)  | WLAN | 8.55 | ± 9.6 % |
| 10723 | AAC | IEEE 802.11ax (80MHz, MCS4, 90pc dc)  | WLAN | 8.70 | ± 9.6 % |
| 10724 | AAC | IEEE 802.11ax (80MHz, MCS5, 90pc dc)  | WLAN | 8.90 | ± 9.6 % |
| 10725 | AAC | IEEE 802.11ax (80MHz, MCS6, 90pc dc)  | WLAN | 8.74 | ± 9.6 % |
| 10726 | AAC | IEEE 802.11ax (80MHz, MCS7, 90pc dc)  | WLAN | 8.72 | ± 9.6 % |
| 10727 | AAC | IEEE 802.11ax (80MHz, MCS8, 90pc dc)  | WLAN | 8.66 | ± 9.6 % |
| 10728 | AAC | IEEE 802.11ax (80MHz, MCS9, 90pc dc)  | WLAN | 8.65 | ± 9.6 % |

|       |     |                                                |               |      |         |
|-------|-----|------------------------------------------------|---------------|------|---------|
| 10729 | AAC | IEEE 802.11ax (80MHz, MCS10, 90pc dc)          | WLAN          | 8.64 | ± 9.6 % |
| 10730 | AAC | IEEE 802.11ax (80MHz, MCS11, 90pc dc)          | WLAN          | 8.67 | ± 9.6 % |
| 10731 | AAC | IEEE 802.11ax (80MHz, MCS0, 99pc dc)           | WLAN          | 8.42 | ± 9.6 % |
| 10732 | AAC | IEEE 802.11ax (80MHz, MCS1, 99pc dc)           | WLAN          | 8.46 | ± 9.6 % |
| 10733 | AAC | IEEE 802.11ax (80MHz, MCS2, 99pc dc)           | WLAN          | 8.40 | ± 9.6 % |
| 10734 | AAC | IEEE 802.11ax (80MHz, MCS3, 99pc dc)           | WLAN          | 8.25 | ± 9.6 % |
| 10735 | AAC | IEEE 802.11ax (80MHz, MCS4, 99pc dc)           | WLAN          | 8.33 | ± 9.6 % |
| 10736 | AAC | IEEE 802.11ax (80MHz, MCS5, 99pc dc)           | WLAN          | 8.27 | ± 9.6 % |
| 10737 | AAC | IEEE 802.11ax (80MHz, MCS6, 99pc dc)           | WLAN          | 8.36 | ± 9.6 % |
| 10738 | AAC | IEEE 802.11ax (80MHz, MCS7, 99pc dc)           | WLAN          | 8.42 | ± 9.6 % |
| 10739 | AAC | IEEE 802.11ax (80MHz, MCS8, 99pc dc)           | WLAN          | 8.29 | ± 9.6 % |
| 10740 | AAC | IEEE 802.11ax (80MHz, MCS9, 99pc dc)           | WLAN          | 8.48 | ± 9.6 % |
| 10741 | AAC | IEEE 802.11ax (80MHz, MCS10, 99pc dc)          | WLAN          | 8.40 | ± 9.6 % |
| 10742 | AAC | IEEE 802.11ax (80MHz, MCS11, 99pc dc)          | WLAN          | 8.43 | ± 9.6 % |
| 10743 | AAC | IEEE 802.11ax (160MHz, MCS0, 90pc dc)          | WLAN          | 8.94 | ± 9.6 % |
| 10744 | AAC | IEEE 802.11ax (160MHz, MCS1, 90pc dc)          | WLAN          | 9.16 | ± 9.6 % |
| 10745 | AAC | IEEE 802.11ax (160MHz, MCS2, 90pc dc)          | WLAN          | 8.93 | ± 9.6 % |
| 10746 | AAC | IEEE 802.11ax (160MHz, MCS3, 90pc dc)          | WLAN          | 9.11 | ± 9.6 % |
| 10747 | AAC | IEEE 802.11ax (160MHz, MCS4, 90pc dc)          | WLAN          | 9.04 | ± 9.6 % |
| 10748 | AAC | IEEE 802.11ax (160MHz, MCS5, 90pc dc)          | WLAN          | 8.93 | ± 9.6 % |
| 10749 | AAC | IEEE 802.11ax (160MHz, MCS6, 90pc dc)          | WLAN          | 8.90 | ± 9.6 % |
| 10750 | AAC | IEEE 802.11ax (160MHz, MCS7, 90pc dc)          | WLAN          | 8.79 | ± 9.6 % |
| 10751 | AAC | IEEE 802.11ax (160MHz, MCS8, 90pc dc)          | WLAN          | 8.82 | ± 9.6 % |
| 10752 | AAC | IEEE 802.11ax (160MHz, MCS9, 90pc dc)          | WLAN          | 8.81 | ± 9.6 % |
| 10753 | AAC | IEEE 802.11ax (160MHz, MCS10, 90pc dc)         | WLAN          | 9.00 | ± 9.6 % |
| 10754 | AAC | IEEE 802.11ax (160MHz, MCS11, 90pc dc)         | WLAN          | 8.94 | ± 9.6 % |
| 10755 | AAC | IEEE 802.11ax (160MHz, MCS0, 99pc dc)          | WLAN          | 8.64 | ± 9.6 % |
| 10756 | AAC | IEEE 802.11ax (160MHz, MCS1, 99pc dc)          | WLAN          | 8.77 | ± 9.6 % |
| 10757 | AAC | IEEE 802.11ax (160MHz, MCS2, 99pc dc)          | WLAN          | 8.77 | ± 9.6 % |
| 10758 | AAC | IEEE 802.11ax (160MHz, MCS3, 99pc dc)          | WLAN          | 8.69 | ± 9.6 % |
| 10759 | AAC | IEEE 802.11ax (160MHz, MCS4, 99pc dc)          | WLAN          | 8.58 | ± 9.6 % |
| 10760 | AAC | IEEE 802.11ax (160MHz, MCS5, 99pc dc)          | WLAN          | 8.49 | ± 9.6 % |
| 10761 | AAC | IEEE 802.11ax (160MHz, MCS6, 99pc dc)          | WLAN          | 8.58 | ± 9.6 % |
| 10762 | AAC | IEEE 802.11ax (160MHz, MCS7, 99pc dc)          | WLAN          | 8.49 | ± 9.6 % |
| 10763 | AAC | IEEE 802.11ax (160MHz, MCS8, 99pc dc)          | WLAN          | 8.53 | ± 9.6 % |
| 10764 | AAC | IEEE 802.11ax (160MHz, MCS9, 99pc dc)          | WLAN          | 8.54 | ± 9.6 % |
| 10765 | AAC | IEEE 802.11ax (160MHz, MCS10, 99pc dc)         | WLAN          | 8.54 | ± 9.6 % |
| 10766 | AAC | IEEE 802.11ax (160MHz, MCS11, 99pc dc)         | WLAN          | 8.51 | ± 9.6 % |
| 10767 | AAE | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)     | 5G NR FR1 TDD | 7.99 | ± 9.6 % |
| 10768 | AAD | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.01 | ± 9.6 % |
| 10769 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.01 | ± 9.6 % |
| 10770 | AAD | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.02 | ± 9.6 % |
| 10771 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.02 | ± 9.6 % |
| 10772 | AAD | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.23 | ± 9.6 % |
| 10773 | AAD | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.03 | ± 9.6 % |
| 10774 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.02 | ± 9.6 % |
| 10775 | AAD | 5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.31 | ± 9.6 % |
| 10776 | AAD | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.30 | ± 9.6 % |
| 10777 | AAC | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.30 | ± 9.6 % |
| 10778 | AAD | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10779 | AAC | 5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.42 | ± 9.6 % |
| 10780 | AAD | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.38 | ± 9.6 % |
| 10781 | AAD | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.38 | ± 9.6 % |
| 10782 | AAD | 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.43 | ± 9.6 % |
| 10783 | AAE | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.31 | ± 9.6 % |
| 10784 | AAD | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.29 | ± 9.6 % |



|       |     |                                                 |               |      |         |
|-------|-----|-------------------------------------------------|---------------|------|---------|
| 10785 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.40 | ± 9.6 % |
| 10786 | AAD | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10787 | AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.44 | ± 9.6 % |
| 10788 | AAD | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.39 | ± 9.6 % |
| 10789 | AAD | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10790 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.39 | ± 9.6 % |
| 10791 | AAE | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 7.83 | ± 9.6 % |
| 10792 | AAD | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.92 | ± 9.6 % |
| 10793 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.95 | ± 9.6 % |
| 10794 | AAD | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.82 | ± 9.6 % |
| 10795 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.84 | ± 9.6 % |
| 10796 | AAD | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.82 | ± 9.6 % |
| 10797 | AAD | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 8.01 | ± 9.6 % |
| 10798 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.89 | ± 9.6 % |
| 10799 | AAD | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.93 | ± 9.6 % |
| 10801 | AAD | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.89 | ± 9.6 % |
| 10802 | AAD | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.87 | ± 9.6 % |
| 10803 | AAD | 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 | AAE | 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 | AAD | 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 | AAD | 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 | AAD | 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 | AAD | 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 | AAD | 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 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 5.66 | ± 9.6 % |
| 10898 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.67 | ± 9.6 % |
| 10899 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.67 | ± 9.6 % |
| 10900 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10901 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10902 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10903 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10904 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10905 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10906 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10907 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.78 | ± 9.6 % |
| 10908 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.93 | ± 9.6 % |
| 10909 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.96 | ± 9.6 % |
| 10910 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.83 | ± 9.6 % |
| 10911 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.93 | ± 9.6 % |
| 10912 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10913 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10914 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.85 | ± 9.6 % |
| 10915 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.83 | ± 9.6 % |
| 10916 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.87 | ± 9.6 % |
| 10917 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.94 | ± 9.6 % |
| 10918 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.86 | ± 9.6 % |
| 10919 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.86 | ± 9.6 % |
| 10920 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.87 | ± 9.6 % |
| 10921 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10922 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.82 | ± 9.6 % |

|       |     |                                                     |               |       |         |
|-------|-----|-----------------------------------------------------|---------------|-------|---------|
| 10923 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84  | ± 9.6 % |
| 10924 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84  | ± 9.6 % |
| 10925 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.95  | ± 9.6 % |
| 10926 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84  | ± 9.6 % |
| 10927 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.94  | ± 9.6 % |
| 10928 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)       | 5G NR FR1 FDD | 5.52  | ± 9.6 % |
| 10929 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.52  | ± 9.6 % |
| 10930 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.52  | ± 9.6 % |
| 10931 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51  | ± 9.6 % |
| 10932 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51  | ± 9.6 % |
| 10933 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51  | ± 9.6 % |
| 10934 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51  | ± 9.6 % |
| 10935 | AAD | 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 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.77  | ± 9.6 % |
| 10938 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.90  | ± 9.6 % |
| 10939 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.82  | ± 9.6 % |
| 10940 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.89  | ± 9.6 % |
| 10941 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.83  | ± 9.6 % |
| 10942 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.85  | ± 9.6 % |
| 10943 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.95  | ± 9.6 % |
| 10944 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.81  | ± 9.6 % |
| 10945 | AAC | 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 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.87  | ± 9.6 % |
| 10948 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.94  | ± 9.6 % |
| 10949 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.87  | ± 9.6 % |
| 10950 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.94  | ± 9.6 % |
| 10951 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.92  | ± 9.6 % |
| 10952 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   | 5G NR FR1 FDD | 8.25  | ± 9.6 % |
| 10953 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.15  | ± 9.6 % |
| 10954 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.23  | ± 9.6 % |
| 10955 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.42  | ± 9.6 % |
| 10956 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   | 5G NR FR1 FDD | 8.14  | ± 9.6 % |
| 10957 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.31  | ± 9.6 % |
| 10958 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.61  | ± 9.6 % |
| 10959 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.33  | ± 9.6 % |
| 10960 | AAC | 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 | AAC | 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 % |
| 10978 | AAA | ULLA BDR                                            | ULLA          | 2.23  | ± 9.6 % |
| 10979 | AAA | ULLA HDR4                                           | ULLA          | 7.02  | ± 9.6 % |
| 10980 | AAA | ULLA HDR8                                           | ULLA          | 8.82  | ± 9.6 % |
| 10981 | AAA | ULLA HDRp4                                          | ULLA          | 1.50  | ± 9.6 % |
| 10982 | AAA | ULLA HDRp8                                          | ULLA          | 1.44  | ± 9.6 % |

± 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.

# Full Power level/Default Power level for WWAN

| ANT0 Default Power        |       |       |                           |                           |       |       |
|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|
| Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       |
| TX Channel                | 128   | 189   |                           | 128                       | 189   | 251   |
| Frequency (MHz)           | 824.2 | 836.4 | 848.8                     | 824.2                     | 836.4 | 848.8 |
| GSM 1 Tx slot             | 32.15 | 32.10 | 31.97                     | 33.50                     | 23.15 | 23.10 |
| GPRS 1 Tx slot            | 32.21 | 32.04 | 31.89                     | 33.50                     | 23.21 | 23.04 |
| GPRS 2 Tx slots           | 29.43 | 29.46 | 29.27                     | 30.50                     | 23.43 | 23.46 |
| GPRS 3 Tx slots           | 27.33 | 27.74 | 27.67                     | 28.50                     | 23.07 | 23.48 |
| GPRS 4 Tx slots           | 26.00 | 26.32 | 26.30                     | 27.50                     | 23.00 | 23.32 |
| EDGE 1 Tx slot            | 25.94 | 25.06 | 25.85                     | 27.50                     | 16.94 | 16.96 |
| EDGE 2 Tx slots           | 23.17 | 23.11 | 23.14                     | 24.50                     | 17.17 | 17.11 |
| EDGE 3 Tx slots           | 21.19 | 21.24 | 21.16                     | 23.00                     | 16.93 | 16.98 |
| EDGE 4 Tx slots           | 19.84 | 20.12 | 20.03                     | 21.50                     | 16.84 | 17.12 |

| ANT0 Default Power        |        |       |                           |                           |       |        |
|---------------------------|--------|-------|---------------------------|---------------------------|-------|--------|
| Burst Average Power (dBm) |        |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        |
| TX Channel                | 512    | 661   |                           | 512                       | 661   | 810    |
| Frequency (MHz)           | 1850.2 | 1880  | 1909.8                    | 1850.2                    | 1880  | 1909.8 |
| GSM 1 Tx slot             | 29.27  | 29.33 | 29.21                     | 30.50                     | 20.27 | 20.33  |
| GPRS 1 Tx slot            | 29.34  | 29.28 | 29.10                     | 30.50                     | 20.34 | 20.28  |
| GPRS 2 Tx slots           | 26.70  | 26.64 | 26.39                     | 27.50                     | 20.70 | 20.64  |
| GPRS 3 Tx slots           | 24.63  | 24.82 | 24.61                     | 25.50                     | 20.37 | 20.56  |
| GPRS 4 Tx slots           | 23.17  | 23.52 | 23.43                     | 24.50                     | 20.17 | 20.52  |
| EDGE 1 Tx slot            | 25.23  | 25.39 | 25.18                     | 26.50                     | 16.23 | 16.39  |
| EDGE 2 Tx slots           | 22.51  | 22.45 | 22.27                     | 24.00                     | 16.51 | 16.45  |
| EDGE 3 Tx slots           | 19.92  | 19.62 | 19.73                     | 21.50                     | 15.66 | 15.56  |
| EDGE 4 Tx slots           | 19.97  | 19.69 | 19.85                     | 20.50                     | 16.97 | 16.69  |

| ANT0 Default Power |        |       |                           |          |        |        |
|--------------------|--------|-------|---------------------------|----------|--------|--------|
| WCDMA II           |        |       | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        |
| TX Channel         | 9262   | 9400  |                           | 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        | 24.38  | 24.33 | 24.31                     | 25.50    | 24.10  | 24.13  |
| 3GPP Rel 99        | 24.40  | 24.43 | 24.36                     | 25.50    | 24.14  | 24.17  |
| 3GPP Rel 6         | 23.80  | 23.83 | 23.81                     | 24.50    | 23.21  | 23.20  |
| 3GPP Rel 6         | 23.77  | 23.82 | 23.80                     | 24.50    | 23.23  | 23.18  |
| 3GPP Rel 6         | 22.96  | 23.26 | 23.30                     | 24.00    | 22.72  | 22.68  |
| 3GPP Rel 6         | 23.31  | 23.32 | 23.27                     | 24.00    | 22.71  | 22.73  |
| 3GPP Rel 8         | 23.85  | 23.80 | 23.79                     | 24.50    | 23.09  | 23.08  |
| 3GPP Rel 8         | 23.77  | 23.87 | 23.86                     | 24.50    | 23.11  | 23.06  |
| 3GPP Rel 8         | 23.02  | 23.22 | 23.25                     | 24.00    | 22.60  | 22.56  |
| 3GPP Rel 8         | 23.27  | 23.37 | 23.29                     | 24.00    | 22.59  | 22.61  |
| 3GPP Rel 6         | 23.46  | 23.45 | 23.37                     | 24.50    | 23.17  | 23.17  |
| 3GPP Rel 6         | 21.42  | 21.43 | 21.33                     | 22.50    | 21.17  | 21.18  |
| 3GPP Rel 6         | 22.44  | 22.47 | 22.34                     | 23.50    | 22.19  | 22.16  |
| 3GPP Rel 6         | 21.45  | 21.46 | 21.28                     | 22.50    | 21.12  | 21.17  |
| 3GPP Rel 6         | 23.40  | 23.50 | 23.40                     | 24.50    | 23.90  | 23.90  |

| ANT0 Default Power |       |       |                           |         |       |       |
|--------------------|-------|-------|---------------------------|---------|-------|-------|
| WCDMA V            |       |       | Tune-up<br>Limit<br>(dBm) | WCDMA V |       |       |
| TX Channel         | 4132  | 4182  |                           | 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        | 24.38 | 24.33 | 24.31                     | 25.50   | 24.10 | 24.13 |
| 3GPP Rel 99        | 24.40 | 24.43 | 24.36                     | 25.50   | 24.14 | 24.17 |
| 3GPP Rel 6         | 23.80 | 23.83 | 23.81                     | 24.50   | 23.21 | 23.20 |
| 3GPP Rel 6         | 23.77 | 23.82 | 23.80                     | 24.50   | 23.23 | 23.18 |
| 3GPP Rel 6         | 22.96 | 23.26 | 23.30                     | 24.00   | 22.72 | 22.68 |
| 3GPP Rel 6         | 23.31 | 23.32 | 23.27                     | 24.00   | 22.71 | 22.73 |
| 3GPP Rel 8         | 23.85 | 23.80 | 23.79                     | 24.50   | 23.09 | 23.08 |
| 3GPP Rel 8         | 23.77 | 23.87 | 23.86                     | 24.50   | 23.11 | 23.06 |
| 3GPP Rel 8         | 23.02 | 23.22 | 23.25                     | 24.00   | 22.60 | 22.56 |
| 3GPP Rel 8         | 23.27 | 23.37 | 23.29                     | 24.00   | 22.59 | 22.61 |
| 3GPP Rel 6         | 23.46 | 23.45 | 23.37                     | 24.50   | 23.17 | 23.17 |
| 3GPP Rel 6         | 21.42 | 21.43 | 21.33                     | 22.50   | 21.17 | 21.18 |
| 3GPP Rel 6         | 22.44 | 22.47 | 22.34                     | 23.50   | 22.19 | 22.16 |
| 3GPP Rel 6         | 21.45 | 21.46 | 21.28                     | 22.50   | 21.12 | 21.17 |
| 3GPP Rel 6         | 23.40 | 23.50 | 23.40                     | 24.50   | 23.90 | 23.90 |









| Band 41 (2.6G Band) ANT0 Default |            |                 |            |         |           |                       |                              |                               |                        |                     |          |
|----------------------------------|------------|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|
| BW [MHz]                         | Modulation | BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Low Ch. / Freq. | Power Middle High Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel                          |            | Channel         |            |         |           | 40240                 | 40500                        | 40770                         | 41090                  |                     |          |
| Frequency (MHz)                  |            | Frequency (MHz) |            |         |           | 2555                  | 2581                         | 2608                          | 2640                   |                     |          |
| 20                               | QPSK       | 20              | QPSK       | 1       | 0         | 24.10                 | 24.02                        | 24.17                         | 24.04                  | 25.5                | 0        |
| 20                               | QPSK       | 20              | QPSK       | 1       | 49        | 24.06                 | 24.07                        | 24.11                         | 24.12                  |                     |          |
| 20                               | QPSK       | 20              | QPSK       | 1       | 99        | 24.02                 | 23.97                        | 24.12                         | 23.98                  |                     |          |
| 20                               | QPSK       | 20              | QPSK       | 50      | 0         | 23.17                 | 23.17                        | 23.30                         | 23.23                  |                     |          |
| 20                               | QPSK       | 20              | QPSK       | 50      | 24        | 23.21                 | 23.20                        | 23.14                         | 23.11                  | 24.5                | 1        |
| 20                               | QPSK       | 20              | QPSK       | 50      | 50        | 23.26                 | 23.17                        | 23.25                         | 23.14                  |                     |          |
| 20                               | QPSK       | 20              | QPSK       | 100     | 0         | 23.29                 | 23.20                        | 23.32                         | 23.18                  |                     |          |
| 20                               | 16QAM      | 20              | 16QAM      | 1       | 0         | 23.18                 | 23.19                        | 23.34                         | 23.29                  |                     |          |
| 20                               | 16QAM      | 20              | 16QAM      | 1       | 49        | 23.15                 | 23.14                        | 23.26                         | 23.18                  | 24.5                | 1        |
| 20                               | 16QAM      | 20              | 16QAM      | 1       | 99        | 23.18                 | 23.10                        | 23.27                         | 23.21                  |                     |          |
| 20                               | 16QAM      | 20              | 16QAM      | 50      | 0         | 22.14                 | 22.16                        | 22.26                         | 22.21                  |                     |          |
| 20                               | 16QAM      | 20              | 16QAM      | 50      | 24        | 22.27                 | 22.28                        | 22.19                         | 22.17                  |                     |          |
| 20                               | 16QAM      | 20              | 16QAM      | 50      | 50        | 22.34                 | 22.25                        | 22.30                         | 22.30                  | 23.5                | 2        |
| 20                               | 16QAM      | 20              | 16QAM      | 100     | 0         | 22.27                 | 22.20                        | 22.29                         | 22.24                  |                     |          |
| 20                               | 64QAM      | 20              | 64QAM      | 1       | 0         | 22.07                 | 22.05                        | 22.22                         | 22.16                  |                     |          |
| 20                               | 64QAM      | 20              | 64QAM      | 1       | 49        | 22.11                 | 21.99                        | 22.02                         | 22.02                  |                     |          |
| 20                               | 64QAM      | 20              | 64QAM      | 1       | 99        | 22.16                 | 21.98                        | 22.13                         | 22.17                  | 23.5                | 2        |
| 20                               | 64QAM      | 20              | 64QAM      | 50      | 0         | 21.08                 | 20.99                        | 21.23                         | 21.13                  |                     |          |
| 20                               | 64QAM      | 20              | 64QAM      | 50      | 24        | 21.22                 | 21.21                        | 21.14                         | 21.11                  |                     |          |
| 20                               | 64QAM      | 20              | 64QAM      | 50      | 50        | 21.28                 | 21.19                        | 21.25                         | 21.12                  |                     |          |
| 20                               | 64QAM      | 20              | 64QAM      | 100     | 0         | 21.30                 | 21.32                        | 21.34                         | 21.17                  | 22.5                | 3        |
| Channel                          |            | Channel         |            |         |           | 40215                 | 40495                        | 40785                         | 41115                  |                     |          |
| Frequency (MHz)                  |            | Frequency (MHz) |            |         |           | 2552.5                | 2580.5                       | 2609.5                        | 2642.5                 |                     |          |
| 15                               | QPSK       | 15              | QPSK       | 1       | 0         | 24.04                 | 23.86                        | 24.04                         | 23.96                  | 25.5                | 0        |
| 15                               | QPSK       | 15              | QPSK       | 1       | 37        | 23.93                 | 23.91                        | 23.98                         | 23.99                  |                     |          |
| 15                               | QPSK       | 15              | QPSK       | 1       | 74        | 24.07                 | 23.87                        | 24.11                         | 23.91                  |                     |          |
| 15                               | QPSK       | 15              | QPSK       | 36      | 0         | 23.01                 | 23.08                        | 23.08                         | 23.05                  |                     |          |
| 15                               | QPSK       | 15              | QPSK       | 36      | 20        | 23.14                 | 23.05                        | 23.18                         | 22.97                  | 24.5                | 1        |
| 15                               | QPSK       | 15              | QPSK       | 36      | 39        | 23.19                 | 23.07                        | 23.19                         | 23.10                  |                     |          |
| 15                               | QPSK       | 15              | QPSK       | 75      | 0         | 23.16                 | 23.16                        | 23.18                         | 23.08                  |                     |          |
| 15                               | 16QAM      | 15              | 16QAM      | 1       | 0         | 23.19                 | 23.10                        | 23.27                         | 23.19                  |                     |          |
| 15                               | 16QAM      | 15              | 16QAM      | 1       | 37        | 23.08                 | 23.07                        | 23.09                         | 23.03                  | 24.5                | 1        |
| 15                               | 16QAM      | 15              | 16QAM      | 1       | 74        | 23.13                 | 23.03                        | 23.17                         | 23.14                  |                     |          |
| 15                               | 16QAM      | 15              | 16QAM      | 36      | 0         | 22.05                 | 21.92                        | 22.10                         | 22.06                  |                     |          |
| 15                               | 16QAM      | 15              | 16QAM      | 36      | 20        | 22.16                 | 22.08                        | 22.18                         | 22.08                  |                     |          |
| 15                               | 16QAM      | 15              | 16QAM      | 36      | 39        | 22.11                 | 22.10                        | 22.12                         | 22.10                  | 23.5                | 2        |
| 15                               | 16QAM      | 15              | 16QAM      | 75      | 0         | 22.23                 | 22.15                        | 22.15                         | 22.03                  |                     |          |
| 15                               | 64QAM      | 15              | 64QAM      | 1       | 0         | 22.15                 | 22.00                        | 22.17                         | 21.98                  |                     |          |
| 15                               | 64QAM      | 15              | 64QAM      | 1       | 37        | 22.07                 | 21.94                        | 21.99                         | 21.91                  |                     |          |
| 15                               | 64QAM      | 15              | 64QAM      | 1       | 74        | 22.02                 | 21.99                        | 22.03                         | 21.92                  | 23.5                | 2        |
| 15                               | 64QAM      | 15              | 64QAM      | 36      | 0         | 21.08                 | 21.06                        | 21.12                         | 21.09                  |                     |          |
| 15                               | 64QAM      | 15              | 64QAM      | 36      | 20        | 21.20                 | 21.13                        | 21.22                         | 21.03                  |                     |          |
| 15                               | 64QAM      | 15              | 64QAM      | 36      | 39        | 21.15                 | 21.13                        | 21.16                         | 21.15                  |                     |          |
| 15                               | 64QAM      | 15              | 64QAM      | 75      | 0         | 21.13                 | 21.16                        | 21.16                         | 21.04                  | 22.5                | 3        |
| Channel                          |            | Channel         |            |         |           | 40190                 | 40490                        | 40790                         | 41140                  |                     |          |
| Frequency (MHz)                  |            | Frequency (MHz) |            |         |           | 2550                  | 2580                         | 2610                          | 2645                   |                     |          |
| 10                               | QPSK       | 10              | QPSK       | 1       | 0         | 24.02                 | 23.90                        | 24.04                         | 23.90                  | 25.5                | 0        |
| 10                               | QPSK       | 10              | QPSK       | 1       | 25        | 24.00                 | 23.85                        | 23.99                         | 23.84                  |                     |          |
| 10                               | QPSK       | 10              | QPSK       | 1       | 49        | 24.07                 | 23.98                        | 24.03                         | 24.02                  |                     |          |
| 10                               | QPSK       | 10              | QPSK       | 25      | 0         | 23.07                 | 23.11                        | 23.06                         | 22.90                  |                     |          |
| 10                               | QPSK       | 10              | QPSK       | 25      | 12        | 23.09                 | 23.08                        | 23.04                         | 23.07                  | 24.5                | 1        |
| 10                               | QPSK       | 10              | QPSK       | 25      | 25        | 23.05                 | 23.11                        | 23.08                         | 23.10                  |                     |          |
| 10                               | QPSK       | 10              | QPSK       | 50      | 0         | 23.13                 | 23.05                        | 23.18                         | 23.10                  |                     |          |
| 10                               | 16QAM      | 10              | 16QAM      | 1       | 0         | 23.13                 | 23.01                        | 23.22                         | 23.06                  |                     |          |
| 10                               | 16QAM      | 10              | 16QAM      | 1       | 25        | 23.10                 | 22.83                        | 22.87                         | 23.00                  | 24.5                | 1        |
| 10                               | 16QAM      | 10              | 16QAM      | 1       | 49        | 23.05                 | 22.95                        | 23.07                         | 23.05                  |                     |          |
| 10                               | 16QAM      | 10              | 16QAM      | 25      | 0         | 22.07                 | 21.92                        | 21.95                         | 22.04                  |                     |          |
| 10                               | 16QAM      | 10              | 16QAM      | 25      | 12        | 22.18                 | 22.19                        | 22.11                         | 22.14                  |                     |          |
| 10                               | 16QAM      | 10              | 16QAM      | 25      | 25        | 22.13                 | 22.12                        | 22.13                         | 22.17                  | 23.5                | 2        |
| 10                               | 16QAM      | 10              | 16QAM      | 50      | 0         | 22.22                 | 22.25                        | 22.06                         | 22.08                  |                     |          |
| 10                               | 64QAM      | 10              | 64QAM      | 1       | 0         | 21.93                 | 21.99                        | 21.91                         | 21.94                  |                     |          |
| 10                               | 64QAM      | 10              | 64QAM      | 1       | 25        | 21.82                 | 21.88                        | 22.03                         | 21.78                  |                     |          |
| 10                               | 64QAM      | 10              | 64QAM      | 1       | 49        | 21.94                 | 21.98                        | 21.95                         | 21.94                  | 23.5                | 2        |
| 10                               | 64QAM      | 10              | 64QAM      | 25      | 0         | 21.03                 | 21.07                        | 21.08                         | 21.02                  |                     |          |
| 10                               | 64QAM      | 10              | 64QAM      | 25      | 12        | 21.14                 | 21.04                        | 21.06                         | 20.98                  |                     |          |
| 10                               | 64QAM      | 10              | 64QAM      | 25      | 25        | 21.10                 | 20.99                        | 21.10                         | 21.03                  |                     |          |
| 10                               | 64QAM      | 10              | 64QAM      | 50      | 0         | 20.96                 | 21.00                        | 21.10                         | 20.92                  | 22.5                | 3        |
| Channel                          |            | Channel         |            |         |           | 40165                 | 40485                        | 40805                         | 41165                  |                     |          |
| Frequency (MHz)                  |            | Frequency (MHz) |            |         |           | 2547.5                | 2579.5                       | 2611.5                        | 2647.5                 |                     |          |
| 5                                | QPSK       | 5               | QPSK       | 1       | 0         | 23.81                 | 23.81                        | 24.11                         | 24.07                  | 25.5                | 0        |
| 5                                | QPSK       | 5               | QPSK       | 1       | 12        | 23.90                 | 24.01                        | 24.07                         | 24.02                  |                     |          |
| 5                                | QPSK       | 5               | QPSK       | 1       | 24        | 24.01                 | 24.13                        | 23.88                         | 23.90                  |                     |          |
| 5                                | QPSK       | 5               | QPSK       | 12      | 0         | 23.12                 | 23.26                        | 23.28                         | 23.22                  |                     |          |
| 5                                | QPSK       | 5               | QPSK       | 12      | 7         | 23.32                 | 23.27                        | 23.37                         | 23.30                  | 24.5                | 1        |
| 5                                | QPSK       | 5               | QPSK       | 12      | 13        | 23.26                 | 23.12                        | 23.29                         | 23.22                  |                     |          |
| 5                                | QPSK       | 5               | QPSK       | 25      | 0         | 23.24                 | 23.25                        | 23.28                         | 23.20                  |                     |          |
| 5                                | 16QAM      | 5               | 16QAM      | 1       | 0         | 23.16                 | 23.16                        | 23.25                         | 23.10                  |                     |          |
| 5                                | 16QAM      | 5               | 16QAM      | 1       | 12        | 23.20                 | 23.48                        | 23.23                         | 23.50                  | 24.5                | 1        |
| 5                                | 16QAM      | 5               | 16QAM      | 1       | 24        | 23.32                 | 23.40                        | 23.22                         | 23.43                  |                     |          |
| 5                                | 16QAM      | 5               | 16QAM      | 12      | 0         | 22.07                 | 22.12                        | 22.22                         | 22.15                  |                     |          |
| 5                                | 16QAM      | 5               | 16QAM      | 12      | 7         | 22.27                 | 22.13                        | 22.19                         | 22.23                  |                     |          |
| 5                                | 16QAM      | 5               | 16QAM      | 12      | 13        | 22.30                 | 22.27                        | 22.31                         | 22.33                  | 23.5                | 2        |
| 5                                | 16QAM      | 5               | 16QAM      | 25      | 0         | 22.33                 | 22.28                        | 22.37                         | 22.29                  |                     |          |
| 5                                | 64QAM      | 5               | 64QAM      | 1       | 0         | 22.01                 | 22.06                        | 22.26                         | 22.19                  |                     |          |
| 5                                | 64QAM      | 5               | 64QAM      | 1       | 12        | 22.18                 | 22.18                        | 22.22                         | 22.23                  |                     |          |
| 5                                | 64QAM      | 5               | 64QAM      | 1       | 24        | 22.33                 | 22.17                        | 22.35                         | 22.17                  | 23.5                | 2        |
| 5                                | 64QAM      | 5               | 64QAM      | 12      | 0         | 21.27                 | 21.21                        | 21.30                         | 21.23                  |                     |          |
| 5                                | 64QAM      | 5               | 64QAM      | 12      | 7         | 21.29                 | 21.23                        | 21.41                         | 21.33                  |                     |          |
| 5                                | 64QAM      | 5               | 64QAM      | 12      | 13        | 21.30                 | 21.18                        | 21.31                         | 21.24                  |                     |          |
| 5                                | 64QAM      | 5               | 64QAM      | 25      | 0         | 21.28                 | 21.22                        | 21.30                         | 21.14                  | 22.5                | 3        |



| ANT4 Default Power |  |                           |       |       |                     |                           |       |       |                     |
|--------------------|--|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
| GSM850             |  | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
| TX Channel         |  | 128                       | 169   | 251   |                     | 128                       | 169   | 251   |                     |
| Frequency (MHz)    |  | 824.2                     | 838.4 | 848.8 |                     | 824.2                     | 838.4 | 848.8 |                     |
| GSM 1 Tx slot      |  | 32.14                     | 32.27 | 32.11 | 33.50               | 23.14                     | 23.27 | 23.11 | 24.50               |
| GPRS 1 Tx slot     |  | 32.19                     | 32.24 | 31.97 | 33.50               | 23.19                     | 23.24 | 22.97 | 24.50               |
| GPRS 2 Tx slots    |  | 29.66                     | 29.59 | 29.46 | 30.50               | 23.66                     | 23.59 | 23.46 | 24.50               |
| GPRS 3 Tx slots    |  | 27.64                     | 27.44 | 27.85 | 28.50               | 23.38                     | 23.18 | 23.59 | 24.24               |
| GPRS 4 Tx slots    |  | 26.48                     | 26.54 | 26.45 | 27.50               | 23.48                     | 23.54 | 23.45 | 24.50               |
| EDGE 1 Tx slot     |  | 26.11                     | 26.00 | 25.97 | 27.50               | 17.11                     | 17.00 | 16.97 | 18.50               |
| EDGE 2 Tx slots    |  | 23.36                     | 23.54 | 23.16 | 24.50               | 17.36                     | 17.54 | 17.16 | 18.50               |
| EDGE 3 Tx slots    |  | 21.47                     | 21.55 | 21.29 | 23.00               | 17.21                     | 17.29 | 17.03 | 18.74               |
| EDGE 4 Tx slots    |  | 20.09                     | 20.40 | 20.13 | 21.50               | 17.09                     | 17.40 | 17.13 | 18.50               |

| ANT4 Default Power |  |                           |       |        |                     |                           |       |        |                     |
|--------------------|--|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
| 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      |  | 28.99                     | 28.98 | 28.84  | 30.50               | 19.99                     | 19.98 | 19.84  | 21.50               |
| GPRS 1 Tx slot     |  | 29.04                     | 28.89 | 28.79  | 30.50               | 20.04                     | 19.89 | 19.79  | 21.50               |
| GPRS 2 Tx slots    |  | 26.39                     | 26.52 | 26.51  | 27.50               | 20.39                     | 20.52 | 20.51  | 21.50               |
| GPRS 3 Tx slots    |  | 24.31                     | 24.38 | 24.04  | 25.50               | 20.05                     | 20.12 | 19.78  | 21.24               |
| GPRS 4 Tx slots    |  | 22.87                     | 23.10 | 22.81  | 24.50               | 19.87                     | 20.10 | 19.81  | 21.50               |
| EDGE 1 Tx slot     |  | 24.76                     | 24.91 | 24.63  | 26.50               | 15.76                     | 15.91 | 15.63  | 17.50               |
| EDGE 2 Tx slots    |  | 22.18                     | 22.25 | 22.24  | 24.00               | 16.18                     | 16.25 | 16.24  | 18.00               |
| EDGE 3 Tx slots    |  | 19.51                     | 19.57 | 19.54  | 21.50               | 15.25                     | 15.31 | 15.28  | 17.24               |
| EDGE 4 Tx slots    |  | 19.29                     | 19.04 | 19.40  | 20.50               | 16.29                     | 16.04 | 16.40  | 17.50               |

|                               |  | ANT4 Default Power |       |        | ANT4 Default Power  |       |       | ANT4 Default Power  |       |       |
|-------------------------------|--|--------------------|-------|--------|---------------------|-------|-------|---------------------|-------|-------|
| Band                          |  | WCDMA II           |       |        | WCDMA IV            |       |       | WCDMA V             |       |       |
| TX Channel                    |  | 9662               | 9400  | 9538   | Tune-up Limit (dBm) |       |       | Tune-up Limit (dBm) |       |       |
| Rx Channel                    |  | 9662               | 9800  | 9938   |                     |       |       |                     |       |       |
| Frequency (MHz)               |  | 1852.4             | 1880  | 1909.8 |                     |       |       |                     |       |       |
| 3GPP Rel 99 AMR 12.2Kbps      |  | 23.28              | 23.34 | 23.19  | 24.50               | 23.75 | 23.78 | 23.80               | 24.50 | 24.45 |
| 3GPP Rel 99 RMC 12.2Kbps      |  | 23.31              | 23.36 | 23.20  | 24.50               | 23.73 | 23.83 | 23.81               | 24.50 | 24.44 |
| 3GPP Rel 6 HSDPA Subtest-1    |  | 22.33              | 22.38 | 22.21  | 23.50               | 22.83 | 22.89 | 22.90               | 23.50 | 23.46 |
| 3GPP Rel 6 HSDPA Subtest-2    |  | 22.35              | 22.36 | 22.23  | 23.50               | 22.87 | 22.89 | 22.82               | 23.50 | 23.46 |
| 3GPP Rel 6 HSDPA Subtest-3    |  | 21.83              | 21.85 | 21.71  | 23.00               | 22.35 | 22.40 | 22.06               | 23.00 | 22.91 |
| 3GPP Rel 6 HSDPA Subtest-4    |  | 21.86              | 21.86 | 21.67  | 23.00               | 22.32 | 22.39 | 22.44               | 23.00 | 22.94 |
| 3GPP Rel 8 DC-HSDPA Subtest-1 |  | 22.36              | 22.48 | 22.11  | 23.50               | 22.85 | 22.83 | 22.84               | 23.50 | 23.40 |
| 3GPP Rel 8 DC-HSDPA Subtest-2 |  | 22.25              | 22.46 | 22.26  | 23.50               | 22.77 | 22.82 | 22.81               | 23.50 | 23.52 |
| 3GPP Rel 8 DC-HSDPA Subtest-3 |  | 21.78              | 21.90 | 21.85  | 23.00               | 22.37 | 22.36 | 22.01               | 23.00 | 22.87 |
| 3GPP Rel 8 DC-HSDPA Subtest-4 |  | 21.96              | 21.96 | 21.80  | 23.00               | 22.31 | 22.49 | 22.50               | 23.00 | 22.97 |
| 3GPP Rel 6 HSUPA Subtest-1    |  | 22.31              | 22.36 | 22.20  | 23.50               | 22.86 | 22.86 | 22.90               | 23.50 | 23.39 |
| 3GPP Rel 6 HSUPA Subtest-2    |  | 20.25              | 20.28 | 20.19  | 21.50               | 20.83 | 20.78 | 20.79               | 21.50 | 21.39 |
| 3GPP Rel 6 HSUPA Subtest-3    |  | 21.29              | 21.33 | 21.22  | 22.50               | 21.84 | 21.90 | 21.88               | 22.50 | 22.42 |
| 3GPP Rel 6 HSUPA Subtest-4    |  | 20.30              | 20.35 | 20.28  | 21.50               | 20.84 | 20.89 | 20.87               | 21.50 | 21.39 |
| 3GPP Rel 6 HSUPA Subtest-5    |  | 22.30              | 22.25 | 22.20  | 23.50               | 22.80 | 22.85 | 22.90               | 23.50 | 23.40 |



| Band 2 ANT4 Default Power |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |  |  |
|---------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|--|--|--|--|--|--|--|
| 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                   |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |  |  |
| Frequency (MHz)           |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20                        | QPSK       | 1       | 0         | 22.21                 | 22.53                    | 22.27                  | 23.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 20                        | QPSK       | 1       | 49        | 22.31                 | 22.41                    | 22.36                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20                        | QPSK       | 1       | 99        | 22.26                 | 22.21                    | 22.17                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20                        | QPSK       | 50      | 0         | 21.37                 | 21.38                    | 21.26                  | 22.5                | 1        |  |  |  |  |  |  |  |  |  |  |
| 20                        | QPSK       | 50      | 24        | 21.35                 | 21.21                    | 21.31                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20                        | QPSK       | 50      | 50        | 21.29                 | 21.29                    | 21.12                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20                        | QPSK       | 100     | 0         | 21.30                 | 21.39                    | 21.22                  | 22.5                | 1        |  |  |  |  |  |  |  |  |  |  |
| 20                        | 16QAM      | 1       | 0         | 21.45                 | 21.65                    | 21.36                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20                        | 16QAM      | 1       | 49        | 21.61                 | 21.45                    | 21.52                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20                        | 16QAM      | 1       | 99        | 21.31                 | 21.56                    | 21.44                  | 21.5                | 2        |  |  |  |  |  |  |  |  |  |  |
| 20                        | 16QAM      | 50      | 0         | 20.75                 | 20.47                    | 20.67                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20                        | 16QAM      | 50      | 24        | 20.69                 | 20.61                    | 20.65                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20                        | 16QAM      | 50      | 50        | 20.66                 | 20.62                    | 20.54                  | 20.5                | 3        |  |  |  |  |  |  |  |  |  |  |
| 20                        | 16QAM      | 100     | 0         | 20.62                 | 20.59                    | 20.57                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20                        | 64QAM      | 1       | 0         | 20.44                 | 20.57                    | 20.22                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20                        | 64QAM      | 1       | 49        | 20.22                 | 20.32                    | 20.60                  | 21.5                | 2        |  |  |  |  |  |  |  |  |  |  |
| 20                        | 64QAM      | 1       | 99        | 20.29                 | 20.25                    | 20.45                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20                        | 64QAM      | 50      | 0         | 19.40                 | 19.34                    | 19.30                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20                        | 64QAM      | 50      | 24        | 19.46                 | 19.18                    | 19.25                  | 20.5                | 3        |  |  |  |  |  |  |  |  |  |  |
| 20                        | 64QAM      | 50      | 50        | 19.38                 | 19.23                    | 19.24                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 20                        | 64QAM      | 100     | 0         | 19.38                 | 19.20                    | 19.33                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| Channel                   |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |  |  |
| Frequency (MHz)           |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15                        | QPSK       | 1       | 0         | 22.23                 | 22.31                    | 22.07                  | 23.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 15                        | QPSK       | 1       | 37        | 22.15                 | 22.22                    | 22.19                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15                        | QPSK       | 1       | 74        | 22.05                 | 22.13                    | 22.04                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15                        | QPSK       | 36      | 0         | 21.43                 | 21.25                    | 21.23                  | 22.5                | 1        |  |  |  |  |  |  |  |  |  |  |
| 15                        | QPSK       | 36      | 20        | 21.36                 | 21.19                    | 21.29                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15                        | QPSK       | 36      | 39        | 21.26                 | 21.20                    | 21.26                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15                        | QPSK       | 75      | 0         | 21.30                 | 21.23                    | 21.30                  | 22.5                | 1        |  |  |  |  |  |  |  |  |  |  |
| 15                        | 16QAM      | 1       | 0         | 21.49                 | 21.47                    | 21.28                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15                        | 16QAM      | 1       | 37        | 21.25                 | 21.56                    | 21.39                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15                        | 16QAM      | 1       | 74        | 21.30                 | 21.41                    | 21.34                  | 21.5                | 2        |  |  |  |  |  |  |  |  |  |  |
| 15                        | 16QAM      | 36      | 0         | 20.34                 | 20.35                    | 20.31                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15                        | 16QAM      | 36      | 20        | 20.46                 | 20.36                    | 20.35                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15                        | 16QAM      | 36      | 39        | 20.29                 | 20.25                    | 20.20                  | 21.5                | 2        |  |  |  |  |  |  |  |  |  |  |
| 15                        | 16QAM      | 75      | 0         | 20.60                 | 20.26                    | 20.21                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15                        | 64QAM      | 1       | 0         | 20.40                 | 20.32                    | 20.45                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15                        | 64QAM      | 1       | 37        | 20.33                 | 20.10                    | 20.10                  | 21.5                | 2        |  |  |  |  |  |  |  |  |  |  |
| 15                        | 64QAM      | 1       | 74        | 20.27                 | 20.35                    | 20.29                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15                        | 64QAM      | 36      | 0         | 19.39                 | 19.29                    | 19.35                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15                        | 64QAM      | 36      | 20        | 19.37                 | 19.16                    | 19.26                  | 20.5                | 3        |  |  |  |  |  |  |  |  |  |  |
| 15                        | 64QAM      | 36      | 39        | 19.28                 | 19.25                    | 19.27                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 15                        | 64QAM      | 75      | 0         | 19.45                 | 19.21                    | 19.25                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| Channel                   |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |  |  |
| Frequency (MHz)           |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10                        | QPSK       | 1       | 0         | 22.36                 | 22.42                    | 22.41                  | 23.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 10                        | QPSK       | 1       | 25        | 22.35                 | 22.34                    | 22.46                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10                        | QPSK       | 1       | 49        | 22.51                 | 22.16                    | 22.45                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10                        | QPSK       | 25      | 0         | 21.49                 | 21.41                    | 21.38                  | 22.5                | 1        |  |  |  |  |  |  |  |  |  |  |
| 10                        | QPSK       | 25      | 12        | 21.33                 | 21.45                    | 21.41                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10                        | QPSK       | 25      | 25        | 21.43                 | 21.26                    | 21.38                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10                        | QPSK       | 50      | 0         | 21.40                 | 21.43                    | 21.44                  | 22.5                | 1        |  |  |  |  |  |  |  |  |  |  |
| 10                        | 16QAM      | 1       | 0         | 21.41                 | 21.38                    | 21.28                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10                        | 16QAM      | 1       | 25        | 21.17                 | 21.36                    | 21.36                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10                        | 16QAM      | 1       | 49        | 21.15                 | 21.13                    | 21.30                  | 21.5                | 2        |  |  |  |  |  |  |  |  |  |  |
| 10                        | 16QAM      | 25      | 0         | 20.57                 | 20.51                    | 20.48                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10                        | 16QAM      | 25      | 12        | 20.47                 | 20.34                    | 20.39                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10                        | 16QAM      | 25      | 25        | 20.48                 | 20.46                    | 20.32                  | 21.5                | 2        |  |  |  |  |  |  |  |  |  |  |
| 10                        | 16QAM      | 50      | 0         | 20.53                 | 20.38                    | 20.37                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10                        | 64QAM      | 1       | 0         | 20.48                 | 20.45                    | 20.55                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10                        | 64QAM      | 1       | 25        | 20.40                 | 20.57                    | 20.65                  | 20.5                | 3        |  |  |  |  |  |  |  |  |  |  |
| 10                        | 64QAM      | 1       | 49        | 20.30                 | 20.50                    | 20.35                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10                        | 64QAM      | 25      | 0         | 19.46                 | 19.46                    | 19.33                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10                        | 64QAM      | 25      | 12        | 19.54                 | 19.38                    | 19.44                  | 20.5                | 3        |  |  |  |  |  |  |  |  |  |  |
| 10                        | 64QAM      | 25      | 25        | 19.40                 | 19.37                    | 19.39                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 10                        | 64QAM      | 50      | 0         | 19.47                 | 19.40                    | 19.47                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| Channel                   |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |  |  |
| Frequency (MHz)           |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5                         | QPSK       | 1       | 0         | 22.32                 | 22.31                    | 22.12                  | 23.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 5                         | QPSK       | 1       | 12        | 22.13                 | 22.37                    | 22.24                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5                         | QPSK       | 1       | 24        | 22.42                 | 22.19                    | 22.22                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5                         | QPSK       | 12      | 0         | 21.49                 | 21.53                    | 21.40                  | 22.5                | 1        |  |  |  |  |  |  |  |  |  |  |
| 5                         | QPSK       | 12      | 7         | 21.41                 | 21.51                    | 21.41                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5                         | QPSK       | 12      | 13        | 21.35                 | 21.37                    | 21.26                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5                         | QPSK       | 25      | 0         | 21.56                 | 21.35                    | 21.29                  | 22.5                | 1        |  |  |  |  |  |  |  |  |  |  |
| 5                         | 16QAM      | 1       | 0         | 21.53                 | 21.49                    | 21.44                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5                         | 16QAM      | 1       | 12        | 21.49                 | 21.39                    | 21.59                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5                         | 16QAM      | 1       | 24        | 21.24                 | 21.51                    | 21.38                  | 21.5                | 2        |  |  |  |  |  |  |  |  |  |  |
| 5                         | 16QAM      | 12      | 0         | 20.49                 | 20.54                    | 20.43                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5                         | 16QAM      | 12      | 7         | 20.62                 | 20.47                    | 20.57                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5                         | 16QAM      | 12      | 13        | 20.43                 | 20.43                    | 20.28                  | 21.5                | 2        |  |  |  |  |  |  |  |  |  |  |
| 5                         | 16QAM      | 25      | 0         | 20.50                 | 20.48                    | 20.30                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5                         | 64QAM      | 1       | 0         | 19.97                 | 20.18                    | 20.12                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5                         | 64QAM      | 1       | 12        | 19.92                 | 20.14                    | 19.93                  | 21.5                | 2        |  |  |  |  |  |  |  |  |  |  |
| 5                         | 64QAM      | 1       | 24        | 20.00                 | 19.83                    | 20.09                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5                         | 64QAM      | 12      | 0         | 19.54                 | 19.69                    | 19.40                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5                         | 64QAM      | 12      | 7         | 19.43                 | 19.49                    | 19.41                  | 20.5                | 3        |  |  |  |  |  |  |  |  |  |  |
| 5                         | 64QAM      | 12      | 13        | 19.48                 | 19.38                    | 19.34                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 5                         | 64QAM      | 25      | 0         | 19.36                 | 19.37                    | 19.27                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| Channel                   |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |  |  |
| Frequency (MHz)           |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |  |  |
| 3                         | QPSK       | 1       | 0         | 22.42                 | 22.48                    | 22.40                  | 23.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 3                         | QPSK       | 1       | 8         | 22.32                 | 22.28                    | 22.48                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 3                         | QPSK       | 1       | 14        | 22.25                 | 22.24                    | 22.14                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 3                         | QPSK       | 8       | 0         | 21.59                 | 21.48                    | 21.50                  | 22.5                | 1        |  |  |  |  |  |  |  |  |  |  |
| 3                         | QPSK       | 8       | 4         | 21.67                 | 21.47                    | 21.36                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 3                         | QPSK       | 8       | 7         | 21.41                 | 21.38                    | 21.25                  | 22.5                | 1        |  |  |  |  |  |  |  |  |  |  |
| 3                         | QPSK       | 15      | 0         | 21.44                 | 21.50                    | 21.37                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 3                         | 16QAM      | 1       | 0         | 21.45                 | 21.50                    | 21.38                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 3                         | 16QAM      | 1       | 8         | 21.49                 | 21.44                    | 21.68                  | 22.5                | 1        |  |  |  |  |  |  |  |  |  |  |
| 3                         | 16QAM      | 1       | 14        | 21.69                 | 21.69                    | 21.51                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 3                         | 16QAM      | 8       | 0         | 20.71                 | 20.45                    | 20.47                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 3                         | 16QAM      | 8       | 4         | 20.53                 | 20.37                    | 20.35                  | 21.5                | 2        |  |  |  |  |  |  |  |  |  |  |
| 3                         | 16QAM      | 8       | 7         | 20.52                 | 20.49                    | 20.35                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 3                         | 16QAM      | 15      | 0         | 20.46                 | 20.68                    | 20.34                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 3                         | 64QAM      | 1       | 0         | 20.61                 | 20.65                    | 20.34                  | 21.5                | 2        |  |  |  |  |  |  |  |  |  |  |
| 3                         | 64QAM      | 1       | 8         | 20.29                 | 20.64                    | 20.50                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 3                         | 64QAM      | 1       | 14        | 20.49                 | 20.49                    | 20.42                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 3                         | 64QAM      | 8       | 0         | 19.39                 | 19.52                    | 19.64                  | 20.5                | 3        |  |  |  |  |  |  |  |  |  |  |
| 3                         | 64QAM      | 8       | 4         | 19.43                 | 19.48                    | 19.12                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 3                         | 64QAM      | 8       | 7         | 19.49                 | 19.36                    | 19.41                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 3                         | 64QAM      | 15      | 0         | 19.40                 | 19.35                    | 19.44                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| Channel                   |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |  |  |
| Frequency (MHz)           |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |  |  |
| 1.4                       | QPSK       | 1       | 0         | 22.47                 | 22.50                    | 22.43                  | 23.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 1.4                       | QPSK       | 1       | 3         | 22.38                 | 22.38                    | 22.13                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 1.4                       | QPSK       | 1       | 3         | 22.28                 | 22.22                    | 22.24                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 1.4                       | QPSK       | 3       | 0         | 22.24                 | 22.33                    | 22.25                  | 22.5                | 0        |  |  |  |  |  |  |  |  |  |  |
| 1.4                       | QPSK       | 3       | 1         | 22.28                 | 22.22                    | 22.28                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 1.4                       | QPSK       | 3       | 3         | 22.26                 | 22.19                    | 22.08                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 1.4                       | QPSK       | 6       | 0         | 21.42                 | 21.42                    | 21.21                  | 22.5                | 1        |  |  |  |  |  |  |  |  |  |  |
| 1.4                       | 16QAM      | 1       | 0         | 21.25                 | 21.50                    | 21.30                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 1.4                       | 16QAM      | 1       | 3         | 21.50                 | 21.25                    | 21.23                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 1.4                       | 16QAM      | 1       | 5         | 21.20                 | 21.39                    | 21.20                  | 22.5                | 1        |  |  |  |  |  |  |  |  |  |  |
| 1.4                       | 16QAM      | 3       | 0         | 21.46                 | 21.49                    | 21.23                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 1.4                       | 16QAM      | 3       | 1         | 21.55                 | 21.34                    | 21.19                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 1.4                       | 16QAM      | 3       | 3         | 21.33                 | 21.43                    | 21.43                  | 21.5                | 2        |  |  |  |  |  |  |  |  |  |  |
| 1.4                       | 16QAM      | 6       | 0         | 20.25                 | 20.34                    | 20.30                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 1.4                       | 64QAM      | 1       | 0         | 20.40                 | 20.47                    | 20.27                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 1.4                       | 64QAM      | 1       | 3         | 20.28                 | 20.27                    | 20.33                  | 21.5                | 2        |  |  |  |  |  |  |  |  |  |  |
| 1.4                       | 64QAM      | 1       | 5         | 20.28                 | 20.39                    | 20.15                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 1.4                       | 64QAM      | 3       | 0         | 20.58                 | 20.39                    | 20.47                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 1.4                       | 64QAM      | 3       | 20        | 20.29                 | 20.30                    | 20.30                  | 20.5                | 3        |  |  |  |  |  |  |  |  |  |  |
| 1.4                       | 64QAM      | 3       | 3         | 20.42                 | 20.21                    | 20.20                  |                     |          |  |  |  |  |  |  |  |  |  |  |
| 1.4                       | 64QAM      | 6       | 0         | 19.09                 | 19.26                    | 19.30                  |                     |          |  |  |  |  |  |  |  |  |  |  |



| Band 7 ANT4 Default Power |            |         |           |                       |                          |                        |                     |          |  |  |
|---------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| 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) |  |  |
| 23.5                      |            |         |           |                       |                          |                        |                     |          |  |  |
| Channel                   |            |         |           | 20850                 | 21100                    | 21350                  |                     |          |  |  |
| Frequency (MHz)           |            |         |           | 2505                  | 2535                     | 2560                   |                     |          |  |  |
| 20                        | QPSK       | 1       | 0         | 22.56                 | 22.67                    | 22.35                  | 23.5                | 0        |  |  |
| 20                        | QPSK       | 1       | 49        | 22.35                 | 22.46                    | 22.34                  |                     |          |  |  |
| 20                        | QPSK       | 1       | 99        | 22.38                 | 22.46                    | 22.42                  |                     |          |  |  |
| 20                        | QPSK       | 50      | 0         | 21.38                 | 21.65                    | 21.42                  | 22.5                | 1        |  |  |
| 20                        | QPSK       | 50      | 24        | 21.46                 | 21.49                    | 21.56                  |                     |          |  |  |
| 20                        | QPSK       | 50      | 50        | 21.47                 | 21.55                    | 21.49                  |                     |          |  |  |
| 20                        | QPSK       | 100     | 0         | 21.45                 | 21.52                    | 21.40                  | 22.5                | 1        |  |  |
| 20                        | 16QAM      | 1       | 0         | 21.71                 | 21.79                    | 21.83                  |                     |          |  |  |
| 20                        | 16QAM      | 1       | 49        | 21.91                 | 21.97                    | 21.61                  |                     |          |  |  |
| 20                        | 16QAM      | 1       | 99        | 21.98                 | 21.75                    | 21.63                  | 21.5                | 2        |  |  |
| 20                        | 16QAM      | 50      | 0         | 20.40                 | 20.49                    | 20.43                  |                     |          |  |  |
| 20                        | 16QAM      | 50      | 24        | 20.46                 | 20.45                    | 20.44                  |                     |          |  |  |
| 20                        | 16QAM      | 50      | 50        | 20.57                 | 20.53                    | 20.63                  | 21.5                | 2        |  |  |
| 20                        | 16QAM      | 100     | 0         | 20.50                 | 20.54                    | 20.50                  |                     |          |  |  |
| 20                        | 64QAM      | 1       | 0         | 20.61                 | 20.55                    | 20.48                  |                     |          |  |  |
| 20                        | 64QAM      | 1       | 49        | 20.47                 | 20.51                    | 20.77                  | 21.5                | 2        |  |  |
| 20                        | 64QAM      | 1       | 99        | 20.48                 | 20.77                    | 20.78                  |                     |          |  |  |
| 20                        | 64QAM      | 50      | 0         | 19.35                 | 19.43                    | 19.44                  |                     |          |  |  |
| 20                        | 64QAM      | 50      | 24        | 19.54                 | 19.44                    | 19.60                  | 20.5                | 3        |  |  |
| 20                        | 64QAM      | 50      | 50        | 19.49                 | 19.50                    | 19.68                  |                     |          |  |  |
| 20                        | 64QAM      | 100     | 0         | 19.59                 | 19.48                    | 19.50                  |                     |          |  |  |
| Channel                   |            |         |           | 20825                 | 21100                    | 21375                  |                     |          |  |  |
| Frequency (MHz)           |            |         |           | 2507.5                | 2535                     | 2562.5                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 15                        | QPSK       | 1       | 0         | 22.34                 | 22.62                    | 22.28                  | 23.5                | 0        |  |  |
| 15                        | QPSK       | 1       | 37        | 22.37                 | 22.32                    | 22.56                  |                     |          |  |  |
| 15                        | QPSK       | 1       | 74        | 22.44                 | 22.45                    | 22.43                  |                     |          |  |  |
| 15                        | QPSK       | 36      | 0         | 21.47                 | 21.58                    | 21.50                  | 22.5                | 1        |  |  |
| 15                        | QPSK       | 36      | 20        | 21.48                 | 21.46                    | 21.51                  |                     |          |  |  |
| 15                        | QPSK       | 36      | 39        | 21.49                 | 21.51                    | 21.58                  |                     |          |  |  |
| 15                        | QPSK       | 75      | 0         | 21.56                 | 21.49                    | 21.54                  | 22.5                | 1        |  |  |
| 15                        | 16QAM      | 1       | 0         | 21.49                 | 21.79                    | 21.72                  |                     |          |  |  |
| 15                        | 16QAM      | 1       | 37        | 21.52                 | 21.48                    | 21.49                  |                     |          |  |  |
| 15                        | 16QAM      | 1       | 74        | 21.59                 | 21.50                    | 21.70                  | 21.5                | 2        |  |  |
| 15                        | 16QAM      | 36      | 0         | 20.50                 | 20.40                    | 20.56                  |                     |          |  |  |
| 15                        | 16QAM      | 36      | 20        | 20.46                 | 20.43                    | 20.59                  |                     |          |  |  |
| 15                        | 16QAM      | 36      | 39        | 20.57                 | 20.55                    | 20.62                  | 21.5                | 2        |  |  |
| 15                        | 16QAM      | 75      | 0         | 20.51                 | 20.46                    | 20.51                  |                     |          |  |  |
| 15                        | 64QAM      | 1       | 0         | 20.45                 | 20.59                    | 20.73                  |                     |          |  |  |
| 15                        | 64QAM      | 1       | 37        | 20.58                 | 20.64                    | 20.81                  | 21.5                | 2        |  |  |
| 15                        | 64QAM      | 1       | 74        | 20.47                 | 20.75                    | 20.62                  |                     |          |  |  |
| 15                        | 64QAM      | 36      | 0         | 19.47                 | 19.50                    | 19.53                  |                     |          |  |  |
| 15                        | 64QAM      | 36      | 20        | 19.45                 | 19.52                    | 19.49                  | 20.5                | 3        |  |  |
| 15                        | 64QAM      | 36      | 39        | 19.55                 | 19.56                    | 19.49                  |                     |          |  |  |
| 15                        | 64QAM      | 75      | 0         | 19.44                 | 19.39                    | 19.50                  |                     |          |  |  |
| Channel                   |            |         |           | 20900                 | 21100                    | 21400                  |                     |          |  |  |
| Frequency (MHz)           |            |         |           | 2505                  | 2535                     | 2565                   | Tune-up limit (dBm) | MPR (dB) |  |  |
| 10                        | QPSK       | 1       | 0         | 22.32                 | 22.65                    | 22.40                  | 23.5                | 0        |  |  |
| 10                        | QPSK       | 1       | 25        | 22.46                 | 22.51                    | 22.66                  |                     |          |  |  |
| 10                        | QPSK       | 1       | 49        | 22.43                 | 22.56                    | 22.52                  |                     |          |  |  |
| 10                        | QPSK       | 25      | 0         | 21.64                 | 21.56                    | 21.63                  | 22.5                | 1        |  |  |
| 10                        | QPSK       | 25      | 12        | 21.53                 | 21.67                    | 21.69                  |                     |          |  |  |
| 10                        | QPSK       | 25      | 25        | 21.57                 | 21.75                    | 21.82                  |                     |          |  |  |
| 10                        | QPSK       | 50      | 0         | 21.56                 | 21.55                    | 21.64                  | 22.5                | 1        |  |  |
| 10                        | 16QAM      | 1       | 0         | 21.59                 | 21.55                    | 21.44                  |                     |          |  |  |
| 10                        | 16QAM      | 1       | 25        | 21.76                 | 21.65                    | 21.53                  |                     |          |  |  |
| 10                        | 16QAM      | 1       | 49        | 21.72                 | 21.70                    | 21.68                  | 21.5                | 2        |  |  |
| 10                        | 16QAM      | 25      | 0         | 20.58                 | 20.58                    | 20.42                  |                     |          |  |  |
| 10                        | 16QAM      | 25      | 12        | 20.59                 | 20.46                    | 20.38                  |                     |          |  |  |
| 10                        | 16QAM      | 25      | 25        | 20.52                 | 20.40                    | 20.60                  | 21.5                | 2        |  |  |
| 10                        | 16QAM      | 50      | 0         | 20.59                 | 20.56                    | 20.70                  |                     |          |  |  |
| 10                        | 64QAM      | 1       | 0         | 20.47                 | 20.55                    | 20.31                  |                     |          |  |  |
| 10                        | 64QAM      | 1       | 25        | 20.57                 | 20.34                    | 20.54                  | 21.5                | 2        |  |  |
| 10                        | 64QAM      | 1       | 49        | 20.45                 | 20.36                    | 20.56                  |                     |          |  |  |
| 10                        | 64QAM      | 25      | 0         | 19.55                 | 19.46                    | 19.68                  |                     |          |  |  |
| 10                        | 64QAM      | 25      | 12        | 19.66                 | 19.72                    | 19.76                  | 20.5                | 3        |  |  |
| 10                        | 64QAM      | 25      | 25        | 19.65                 | 19.71                    | 19.78                  |                     |          |  |  |
| 10                        | 64QAM      | 50      | 0         | 19.57                 | 19.43                    | 19.70                  |                     |          |  |  |
| Channel                   |            |         |           | 20775                 | 21100                    | 21425                  |                     |          |  |  |
| Frequency (MHz)           |            |         |           | 2502.5                | 2535                     | 2567.5                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| 5                         | QPSK       | 1       | 0         | 22.45                 | 22.62                    | 22.54                  | 23.5                | 0        |  |  |
| 5                         | QPSK       | 1       | 12        | 22.33                 | 22.36                    | 22.47                  |                     |          |  |  |
| 5                         | QPSK       | 1       | 24        | 22.55                 | 22.62                    | 22.58                  |                     |          |  |  |
| 5                         | QPSK       | 12      | 0         | 21.51                 | 21.58                    | 21.64                  | 22.5                | 1        |  |  |
| 5                         | QPSK       | 12      | 7         | 21.69                 | 21.67                    | 21.77                  |                     |          |  |  |
| 5                         | QPSK       | 12      | 13        | 21.64                 | 21.65                    | 21.77                  |                     |          |  |  |
| 5                         | QPSK       | 25      | 0         | 21.56                 | 21.66                    | 21.79                  | 22.5                | 1        |  |  |
| 5                         | 16QAM      | 1       | 0         | 21.62                 | 21.66                    | 21.50                  |                     |          |  |  |
| 5                         | 16QAM      | 1       | 12        | 21.42                 | 21.74                    | 21.69                  |                     |          |  |  |
| 5                         | 16QAM      | 1       | 24        | 21.74                 | 21.60                    | 21.51                  | 21.5                | 2        |  |  |
| 5                         | 16QAM      | 12      | 0         | 20.57                 | 20.43                    | 20.77                  |                     |          |  |  |
| 5                         | 16QAM      | 12      | 7         | 20.72                 | 20.71                    | 20.75                  |                     |          |  |  |
| 5                         | 16QAM      | 12      | 13        | 20.74                 | 20.79                    | 20.68                  | 21.5                | 2        |  |  |
| 5                         | 16QAM      | 25      | 0         | 20.57                 | 20.58                    | 20.74                  |                     |          |  |  |
| 5                         | 64QAM      | 1       | 0         | 20.56                 | 20.47                    | 20.74                  |                     |          |  |  |
| 5                         | 64QAM      | 1       | 12        | 20.69                 | 20.61                    | 20.53                  | 21.5                | 2        |  |  |
| 5                         | 64QAM      | 1       | 24        | 20.78                 | 20.74                    | 20.61                  |                     |          |  |  |
| 5                         | 64QAM      | 12      | 0         | 19.53                 | 19.57                    | 19.56                  |                     |          |  |  |
| 5                         | 64QAM      | 12      | 7         | 19.56                 | 19.52                    | 19.68                  | 20.5                | 3        |  |  |
| 5                         | 64QAM      | 12      | 13        | 19.46                 | 19.72                    | 19.59                  |                     |          |  |  |
| 5                         | 64QAM      | 25      | 0         | 19.49                 | 19.55                    | 19.82                  |                     |          |  |  |

| Band 12 ANT4 Default Power |            |         |           |                       |                          |                        |                     |          |      |   |
|----------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|------|---|
| 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                    |            |         |           | 23060                 | 23095                    | 23130                  |                     |          |      |   |
| Frequency (MHz)            |            |         |           | 704                   | 707.5                    | 711                    |                     |          |      |   |
| 10                         | QPSK       | 1       | 0         | 24.58                 | 24.76                    | 24.57                  |                     |          | 25.5 | 0 |
| 10                         | QPSK       | 1       | 25        | 24.54                 | 24.54                    | 24.37                  |                     |          |      |   |
| 10                         | QPSK       | 1       | 49        | 24.58                 | 24.60                    | 24.61                  |                     |          |      |   |
| 10                         | QPSK       | 25      | 0         | 23.57                 | 23.78                    | 23.63                  |                     |          | 24.5 | 1 |
| 10                         | QPSK       | 25      | 12        | 23.76                 | 23.61                    | 23.47                  |                     |          |      |   |
| 10                         | QPSK       | 25      | 25        | 23.65                 | 23.61                    | 23.55                  |                     |          |      |   |
| 10                         | QPSK       | 50      | 0         | 23.70                 | 23.73                    | 23.68                  |                     |          | 24.5 | 1 |
| 10                         | 16QAM      | 1       | 0         | 24.13                 | 23.82                    | 23.76                  |                     |          |      |   |
| 10                         | 16QAM      | 1       | 25        | 23.76                 | 24.06                    | 23.74                  |                     |          |      |   |
| 10                         | 16QAM      | 1       | 49        | 23.75                 | 23.83                    | 23.88                  |                     |          | 23.5 | 2 |
| 10                         | 16QAM      | 25      | 0         | 22.66                 | 22.56                    | 22.56                  |                     |          |      |   |
| 10                         | 16QAM      | 25      | 12        | 22.81                 | 22.75                    | 22.50                  |                     |          |      |   |
| 10                         | 16QAM      | 25      | 25        | 22.69                 | 22.58                    | 22.60                  |                     |          | 22.5 | 3 |
| 10                         | 16QAM      | 50      | 0         | 22.70                 | 22.65                    | 22.66                  |                     |          |      |   |
| 10                         | 64QAM      | 1       | 0         | 22.71                 | 22.72                    | 22.66                  |                     |          |      |   |
| 10                         | 64QAM      | 1       | 25        | 22.59                 | 22.75                    | 22.63                  |                     |          | 23.5 | 2 |
| 10                         | 64QAM      | 1       | 49        | 22.61                 | 22.88                    | 22.61                  |                     |          |      |   |
| 10                         | 64QAM      | 25      | 0         | 21.69                 | 21.62                    | 21.56                  |                     |          |      |   |
| 10                         | 64QAM      | 25      | 12        | 21.79                 | 21.62                    | 21.72                  |                     |          | 22.5 | 3 |
| 10                         | 64QAM      | 25      | 25        | 21.64                 | 21.59                    | 21.73                  |                     |          |      |   |
| 10                         | 64QAM      | 50      | 0         | 21.71                 | 21.56                    | 21.49                  |                     |          |      |   |
| Channel                    |            |         |           | 23035                 | 23095                    | 23155                  | Tune-up limit (dBm) | MPR (dB) |      |   |
| Frequency (MHz)            |            |         |           | 701.5                 | 707.5                    | 713.5                  |                     |          |      |   |
| 5                          | QPSK       | 1       | 0         | 24.50                 | 24.75                    | 24.70                  |                     |          | 25.5 | 0 |
| 5                          | QPSK       | 1       | 12        | 24.71                 | 24.68                    | 24.61                  |                     |          |      |   |
| 5                          | QPSK       | 1       | 24        | 24.72                 | 24.74                    | 24.66                  |                     |          |      |   |
| 5                          | QPSK       | 12      | 0         | 23.79                 | 23.81                    | 23.78                  |                     |          | 24.5 | 1 |
| 5                          | QPSK       | 12      | 7         | 23.77                 | 23.83                    | 23.79                  |                     |          |      |   |
| 5                          | QPSK       | 12      | 13        | 23.89                 | 23.80                    | 23.72                  |                     |          |      |   |
| 5                          | QPSK       | 25      | 0         | 23.68                 | 23.75                    | 23.77                  |                     |          | 24.5 | 1 |
| 5                          | 16QAM      | 1       | 0         | 23.63                 | 23.76                    | 23.65                  |                     |          |      |   |
| 5                          | 16QAM      | 1       | 12        | 23.88                 | 23.77                    | 23.83                  |                     |          | 23.5 | 2 |
| 5                          | 16QAM      | 1       | 24        | 23.73                 | 23.87                    | 23.86                  |                     |          |      |   |
| 5                          | 16QAM      | 12      | 0         | 22.86                 | 22.82                    | 22.72                  |                     |          | 22.5 | 3 |
| 5                          | 16QAM      | 12      | 7         | 22.77                 | 22.86                    | 22.79                  |                     |          |      |   |
| 5                          | 16QAM      | 12      | 13        | 22.67                 | 22.79                    | 22.75                  |                     |          |      |   |
| 5                          | 16QAM      | 25      | 0         | 22.86                 | 22.82                    | 22.67                  |                     |          | 23.5 | 2 |
| 5                          | 64QAM      | 1       | 0         | 23.07                 | 22.89                    | 23.02                  |                     |          |      |   |
| 5                          | 64QAM      | 1       | 12        | 22.75                 | 22.90                    | 22.98                  |                     |          |      |   |
| 5                          | 64QAM      | 1       | 24        | 22.81                 | 23.07                    | 23.10                  |                     |          | 22.5 | 3 |
| 5                          | 64QAM      | 12      | 0         | 21.86                 | 21.75                    | 21.69                  |                     |          |      |   |
| 5                          | 64QAM      | 12      | 7         | 22.02                 | 21.74                    | 21.85                  |                     |          |      |   |
| 5                          | 64QAM      | 12      | 13        | 21.83                 | 21.71                    | 21.69                  |                     |          | 23.5 | 2 |
| 5                          | 64QAM      | 25      | 0         | 21.78                 | 21.73                    | 21.66                  |                     |          |      |   |
| Channel                    |            |         |           | 23025                 | 23095                    | 23165                  | Tune-up limit (dBm) | MPR (dB) |      |   |
| Frequency (MHz)            |            |         |           | 700.5                 | 707.5                    | 714.5                  |                     |          |      |   |
| 3                          | QPSK       | 1       | 0         | 24.54                 | 24.72                    | 24.55                  |                     |          | 25.5 | 0 |
| 3                          | QPSK       | 1       | 8         | 24.64                 | 24.66                    | 24.50                  |                     |          |      |   |
| 3                          | QPSK       | 1       | 14        | 24.75                 | 24.45                    | 24.58                  |                     |          |      |   |
| 3                          | QPSK       | 8       | 0         | 23.71                 | 23.85                    | 23.67                  |                     |          | 24.5 | 1 |
| 3                          | QPSK       | 8       | 4         | 23.77                 | 23.70                    | 23.63                  |                     |          |      |   |
| 3                          | QPSK       | 8       | 7         | 23.79                 | 23.65                    | 23.68                  |                     |          |      |   |
| 3                          | QPSK       | 15      | 0         | 23.74                 | 23.62                    | 23.55                  |                     |          | 23.5 | 2 |
| 3                          | 16QAM      | 1       | 0         | 23.42                 | 23.79                    | 23.62                  |                     |          |      |   |
| 3                          | 16QAM      | 1       | 8         | 23.58                 | 23.61                    | 23.72                  |                     |          |      |   |
| 3                          | 16QAM      | 1       | 14        | 23.61                 | 23.59                    | 23.78                  |                     |          | 22.5 | 3 |
| 3                          | 16QAM      | 8       | 0         | 22.72                 | 22.63                    | 22.46                  |                     |          |      |   |
| 3                          | 16QAM      | 8       | 4         | 22.85                 | 22.78                    | 22.79                  |                     |          |      |   |
| 3                          | 16QAM      | 15      | 0         | 22.81                 | 22.63                    | 22.64                  |                     |          | 23.5 | 2 |
| 3                          | 16QAM      | 15      | 0         | 22.82                 | 22.81                    | 22.55                  |                     |          |      |   |
| 3                          | 64QAM      | 1       | 0         | 22.61                 | 22.75                    | 22.75                  |                     |          |      |   |
| 3                          | 64QAM      | 1       | 14        | 22.71                 | 22.82                    | 22.87                  |                     |          | 22.5 | 3 |
| 3                          | 64QAM      | 8       | 0         | 21.76                 | 21.67                    | 21.70                  |                     |          |      |   |
| 3                          | 64QAM      | 8       | 4         | 21.84                 | 21.85                    | 21.83                  |                     |          |      |   |
| 3                          | 64QAM      | 8       | 7         | 21.74                 | 21.54                    | 21.72                  |                     |          | 23.5 | 2 |
| 3                          | 64QAM      | 15      | 0         | 21.86                 | 21.62                    | 21.51                  |                     |          |      |   |
| Channel                    |            |         |           | 23025                 | 707.5                    | 715.5                  | Tune-up limit (dBm) | MPR (dB) |      |   |
| 1.4                        | QPSK       | 1       | 0         | 24.62                 | 24.70                    | 24.42                  |                     |          | 25.5 | 0 |
| 1.4                        | QPSK       | 1       | 3         | 24.56                 | 24.57                    | 24.60                  |                     |          |      |   |
| 1.4                        | QPSK       | 1       | 5         | 24.48                 | 24.40                    | 24.53                  |                     |          |      |   |
| 1.4                        | QPSK       | 3       | 0         | 24.65                 | 24.57                    | 24.42                  |                     |          | 24.5 | 1 |
| 1.4                        | QPSK       | 3       | 1         | 24.74                 | 24.60                    | 24.58                  |                     |          |      |   |
| 1.4                        | QPSK       | 3       | 24        | 24.64                 | 24.44                    | 24.51                  |                     |          |      |   |
| 1.4                        | QPSK       | 6       | 0         | 23.71                 | 23.50                    | 23.53                  |                     |          | 23.5 | 2 |
| 1.4                        | 16QAM      | 1       | 0         | 23.94                 | 23.84                    | 23.64                  |                     |          |      |   |
| 1.4                        | 16QAM      | 1       | 3         | 23.65                 | 23.86                    | 23.90                  |                     |          |      |   |
| 1.4                        | 16QAM      | 1       | 5         | 23.74                 | 23.80                    | 23.81                  |                     |          | 22.5 | 3 |
| 1.4                        | 16QAM      | 3       | 0         | 23.81                 | 23.71                    | 23.66                  |                     |          |      |   |
| 1.4                        | 16QAM      | 3       | 1         | 23.67                 | 23.93                    | 23.79                  |                     |          |      |   |
| 1.4                        | 16QAM      | 3       | 3         | 23.77                 | 23.65                    | 23.67                  |                     |          | 23.5 | 2 |
| 1.4                        | 16QAM      | 6       | 0         | 22.67                 | 22.50                    | 22.46                  |                     |          |      |   |
| 1.4                        | 64QAM      | 1       | 0         | 22.84                 | 22.69                    | 22.98                  |                     |          |      |   |
| 1.4                        | 64QAM      | 1       | 3         | 23.03                 | 23.00                    | 22.71                  |                     |          | 23.5 | 2 |
| 1.4                        | 64QAM      | 1       | 5         | 22.76                 | 22.64                    | 22.82                  |                     |          |      |   |
| 1.4                        | 64QAM      | 3       | 0         | 22.74                 | 22.59                    | 22.78                  |                     |          |      |   |
| 1.4                        | 64QAM      | 3       | 1         | 22.80                 | 22.68                    | 22.67                  |                     |          | 22.5 | 3 |
| 1.4                        | 64QAM      | 3       | 3         | 22.58                 | 22.61                    | 22.60                  |                     |          |      |   |
| 1.4                        | 64QAM      | 6       | 0         | 21.60                 | 21.59                    | 21.53                  |                     |          |      |   |



| Band 17 ANT4 Default Power |            |         |           |                         |                               |                          |                           |             |  |
|----------------------------|------------|---------|-----------|-------------------------|-------------------------------|--------------------------|---------------------------|-------------|--|
| BW (MHz)                   | Modulation | RB Size | RB Offset | Power Low<br>Ch / Freq. | Power<br>Middle<br>Ch / Freq. | Power High<br>Ch / Freq. | Tune-up<br>limit<br>(dbm) | MPR<br>(db) |  |
| Channel                    |            |         |           | 23780                   | 23790                         | 23800                    |                           |             |  |
| Frequency (MHz)            |            |         |           | 710                     | 710                           | 710                      |                           |             |  |
| 10                         | QPSK       | 1       | 0         | 24.42                   | 24.74                         | 24.45                    | 25.5                      | 0           |  |
| 10                         | QPSK       | 1       | 25        | 24.50                   | 24.45                         | 24.43                    |                           |             |  |
| 10                         | QPSK       | 1       | 49        | 24.44                   | 24.51                         | 24.60                    |                           |             |  |
| 10                         | QPSK       | 25      | 0         | 23.51                   | 23.67                         | 23.50                    | 24.5                      | 1           |  |
| 10                         | QPSK       | 25      | 12        | 23.56                   | 23.53                         | 23.56                    |                           |             |  |
| 10                         | QPSK       | 25      | 25        | 23.62                   | 23.61                         | 23.50                    |                           |             |  |
| 10                         | QPSK       | 50      | 0         | 23.62                   | 23.66                         | 23.43                    | 24.5                      | 1           |  |
| 10                         | 16QAM      | 1       | 0         | 23.63                   | 23.51                         | 23.76                    |                           |             |  |
| 10                         | 16QAM      | 1       | 25        | 23.68                   | 23.64                         | 23.51                    |                           |             |  |
| 10                         | 16QAM      | 1       | 49        | 23.40                   | 23.70                         | 23.62                    | 23.5                      | 2           |  |
| 10                         | 16QAM      | 25      | 0         | 22.59                   | 22.58                         | 22.53                    |                           |             |  |
| 10                         | 16QAM      | 25      | 12        | 22.59                   | 22.43                         | 22.56                    |                           |             |  |
| 10                         | 16QAM      | 25      | 25        | 22.64                   | 22.73                         | 22.61                    | 23.5                      | 2           |  |
| 10                         | 16QAM      | 50      | 0         | 22.57                   | 22.64                         | 22.48                    |                           |             |  |
| 10                         | 64QAM      | 1       | 0         | 22.45                   | 22.50                         | 22.54                    |                           |             |  |
| 10                         | 64QAM      | 1       | 25        | 22.71                   | 22.57                         | 22.59                    | 23.5                      | 2           |  |
| 10                         | 64QAM      | 1       | 49        | 22.52                   | 22.54                         | 22.75                    |                           |             |  |
| 10                         | 64QAM      | 25      | 0         | 21.43                   | 21.70                         | 21.49                    |                           |             |  |
| 10                         | 64QAM      | 25      | 12        | 21.65                   | 21.60                         | 21.54                    | 22.5                      | 3           |  |
| 10                         | 64QAM      | 25      | 25        | 21.66                   | 21.55                         | 21.70                    |                           |             |  |
| 10                         | 64QAM      | 50      | 0         | 21.58                   | 21.52                         | 21.53                    |                           |             |  |
| Channel                    |            |         |           | 23765                   | 23790                         | 23825                    | Tune-up<br>limit<br>(dbm) |             |  |
| Frequency (MHz)            |            |         |           | 706.5                   | 710                           | 713.5                    |                           |             |  |
| 5                          | QPSK       | 1       | 0         | 24.69                   | 24.67                         | 24.46                    | 25.5                      | 0           |  |
| 5                          | QPSK       | 1       | 12        | 24.39                   | 24.48                         | 24.37                    |                           |             |  |
| 5                          | QPSK       | 1       | 24        | 24.62                   | 24.53                         | 24.41                    |                           |             |  |
| 5                          | QPSK       | 12      | 0         | 23.56                   | 23.63                         | 23.52                    | 24.5                      | 1           |  |
| 5                          | QPSK       | 12      | 7         | 23.64                   | 23.63                         | 23.33                    |                           |             |  |
| 5                          | QPSK       | 12      | 13        | 23.56                   | 23.56                         | 23.68                    |                           |             |  |
| 5                          | QPSK       | 25      | 0         | 23.62                   | 23.53                         | 23.50                    | 24.5                      | 1           |  |
| 5                          | 16QAM      | 1       | 0         | 23.71                   | 23.73                         | 23.66                    |                           |             |  |
| 5                          | 16QAM      | 1       | 12        | 23.54                   | 23.38                         | 23.69                    |                           |             |  |
| 5                          | 16QAM      | 1       | 24        | 23.44                   | 23.51                         | 23.42                    | 23.5                      | 2           |  |
| 5                          | 16QAM      | 12      | 0         | 22.64                   | 22.73                         | 22.66                    |                           |             |  |
| 5                          | 16QAM      | 12      | 7         | 22.63                   | 22.71                         | 22.65                    |                           |             |  |
| 5                          | 16QAM      | 12      | 13        | 22.58                   | 22.69                         | 22.50                    | 23.5                      | 2           |  |
| 5                          | 16QAM      | 25      | 0         | 22.76                   | 22.68                         | 22.60                    |                           |             |  |
| 5                          | 64QAM      | 1       | 0         | 22.57                   | 22.55                         | 22.73                    |                           |             |  |
| 5                          | 64QAM      | 1       | 12        | 22.68                   | 22.61                         | 22.45                    | 23.5                      | 2           |  |
| 5                          | 64QAM      | 1       | 24        | 22.63                   | 22.74                         | 22.82                    |                           |             |  |
| 5                          | 64QAM      | 12      | 0         | 21.68                   | 21.77                         | 21.50                    |                           |             |  |
| 5                          | 64QAM      | 12      | 7         | 21.55                   | 21.81                         | 21.45                    | 22.5                      | 3           |  |
| 5                          | 64QAM      | 12      | 13        | 21.67                   | 21.63                         | 21.78                    |                           |             |  |
| 5                          | 64QAM      | 25      | 0         | 21.59                   | 21.43                         | 21.58                    |                           |             |  |

| Band 26 ANT4 Default Power |            |         |           |                        |                              |                         |                           |             |  |  |  |
|----------------------------|------------|---------|-----------|------------------------|------------------------------|-------------------------|---------------------------|-------------|--|--|--|
| BW (MHz)                   | Modulation | RB Size | RB Offset | Power Low<br>Ch./Freq. | Power<br>Middle<br>Ch./Freq. | Power High<br>Ch./Freq. | Tune-up<br>limit<br>(dbm) | MPR<br>(db) |  |  |  |
| Channel                    |            |         |           | 26765                  | 26865                        | 26965                   |                           |             |  |  |  |
| Frequency (MHz)            |            |         |           | 821.5                  | 831.5                        | 841.5                   |                           |             |  |  |  |
| 15                         | QPSK       | 1       | 0         | 24.42                  | 24.48                        | 24.38                   | 25.5                      | 0           |  |  |  |
| 15                         | QPSK       | 1       | 37        | 24.36                  | 24.30                        | 24.34                   |                           |             |  |  |  |
| 15                         | QPSK       | 1       | 74        | 24.38                  | 24.28                        | 24.24                   |                           |             |  |  |  |
| 15                         | QPSK       | 36      | 0         | 23.52                  | 23.54                        | 23.26                   | 24.5                      | 1           |  |  |  |
| 15                         | QPSK       | 36      | 20        | 23.30                  | 23.49                        | 23.28                   |                           |             |  |  |  |
| 15                         | QPSK       | 36      | 39        | 23.31                  | 23.28                        | 23.36                   |                           |             |  |  |  |
| 15                         | QPSK       | 75      | 0         | 23.39                  | 23.49                        | 23.43                   | 24.5                      | 1           |  |  |  |
| 15                         | 16QAM      | 1       | 0         | 23.35                  | 23.48                        | 23.38                   |                           |             |  |  |  |
| 15                         | 16QAM      | 1       | 37        | 23.24                  | 23.38                        | 23.34                   |                           |             |  |  |  |
| 15                         | 16QAM      | 1       | 74        | 23.29                  | 23.46                        | 23.19                   | 24.5                      | 1           |  |  |  |
| 15                         | 16QAM      | 36      | 0         | 22.44                  | 22.36                        | 22.28                   |                           |             |  |  |  |
| 15                         | 16QAM      | 36      | 20        | 22.40                  | 22.33                        | 22.17                   |                           |             |  |  |  |
| 15                         | 16QAM      | 36      | 39        | 22.35                  | 22.38                        | 22.17                   | 23.5                      | 2           |  |  |  |
| 15                         | 16QAM      | 75      | 0         | 22.42                  | 22.37                        | 22.28                   |                           |             |  |  |  |
| 15                         | 64QAM      | 1       | 0         | 22.32                  | 22.54                        | 22.38                   |                           |             |  |  |  |
| 15                         | 64QAM      | 1       | 37        | 22.21                  | 22.35                        | 22.20                   | 23.5                      | 2           |  |  |  |
| 15                         | 64QAM      | 1       | 74        | 22.33                  | 22.41                        | 22.31                   |                           |             |  |  |  |
| 15                         | 64QAM      | 36      | 0         | 21.43                  | 21.55                        | 21.49                   |                           |             |  |  |  |
| 15                         | 64QAM      | 36      | 20        | 21.33                  | 21.32                        | 21.35                   | 22.5                      | 3           |  |  |  |
| 15                         | 64QAM      | 36      | 39        | 21.36                  | 21.29                        | 21.28                   |                           |             |  |  |  |
| 15                         | 64QAM      | 75      | 0         | 21.32                  | 21.47                        | 21.47                   |                           |             |  |  |  |
| Channel                    |            |         |           | 26740                  | 26865                        | 26960                   | Tune-up<br>limit<br>(dbm) |             |  |  |  |
| Frequency (MHz)            |            |         |           | 819                    | 831.5                        | 844                     |                           |             |  |  |  |
| 10                         | QPSK       | 1       | 0         | 24.37                  | 24.35                        | 24.35                   | 25.5                      | 0           |  |  |  |
| 10                         | QPSK       | 1       | 25        | 24.21                  | 24.21                        | 24.25                   |                           |             |  |  |  |
| 10                         | QPSK       | 1       | 49        | 24.25                  | 24.26                        | 24.07                   |                           |             |  |  |  |
| 10                         | QPSK       | 25      | 0         | 23.39                  | 23.45                        | 23.11                   | 24.5                      | 1           |  |  |  |
| 10                         | QPSK       | 25      | 12        | 23.23                  | 23.44                        | 23.23                   |                           |             |  |  |  |
| 10                         | QPSK       | 25      | 25        | 23.12                  | 23.10                        | 23.35                   |                           |             |  |  |  |
| 10                         | QPSK       | 50      | 0         | 23.36                  | 23.43                        | 23.32                   | 24.5                      | 1           |  |  |  |
| 10                         | 16QAM      | 1       | 0         | 23.35                  | 23.32                        | 23.20                   |                           |             |  |  |  |
| 10                         | 16QAM      | 1       | 25        | 23.16                  | 23.16                        | 23.16                   |                           |             |  |  |  |
| 10                         | 16QAM      | 1       | 49        | 23.09                  | 23.42                        | 23.07                   | 23.5                      | 2           |  |  |  |
| 10                         | 16QAM      | 25      | 0         | 22.40                  | 22.18                        | 22.21                   |                           |             |  |  |  |
| 10                         | 16QAM      | 25      | 12        | 22.21                  | 22.28                        | 22.07                   |                           |             |  |  |  |
| 10                         | 16QAM      | 25      | 25        | 22.27                  | 22.19                        | 22.09                   | 23.5                      | 2           |  |  |  |
| 10                         | 16QAM      | 50      | 0         | 22.33                  | 22.36                        | 22.16                   |                           |             |  |  |  |
| 10                         | 64QAM      | 1       | 0         | 22.28                  | 22.39                        | 22.26                   |                           |             |  |  |  |
| 10                         | 64QAM      | 1       | 25        | 22.04                  | 22.27                        | 22.15                   | 23.5                      | 2           |  |  |  |
| 10                         | 64QAM      | 1       | 49        | 22.13                  | 22.33                        | 22.14                   |                           |             |  |  |  |
| 10                         | 64QAM      | 25      | 0         | 21.41                  | 21.38                        | 21.39                   |                           |             |  |  |  |
| 10                         | 64QAM      | 25      | 12        | 21.29                  | 21.16                        | 21.20                   | 22.5                      | 3           |  |  |  |
| 10                         | 64QAM      | 25      | 25        | 21.26                  | 21.28                        | 21.18                   |                           |             |  |  |  |
| 10                         | 64QAM      | 50      | 0         | 21.16                  | 21.43                        | 21.34                   |                           |             |  |  |  |
| Channel                    |            |         |           | 26715                  | 26865                        | 27015                   | Tune-up<br>limit<br>(dbm) |             |  |  |  |
| Frequency (MHz)            |            |         |           | 816.5                  | 831.5                        | 846.5                   |                           |             |  |  |  |
| 5                          | QPSK       | 1       | 0         | 24.32                  | 24.39                        | 24.22                   | 25.5                      | 0           |  |  |  |
| 5                          | QPSK       | 1       | 12        | 24.29                  | 24.24                        | 24.41                   |                           |             |  |  |  |
| 5                          | QPSK       | 1       | 24        | 24.25                  | 24.20                        | 24.20                   |                           |             |  |  |  |
| 5                          | QPSK       | 12      | 0         | 23.35                  | 23.54                        | 23.22                   | 24.5                      | 1           |  |  |  |
| 5                          | QPSK       | 12      | 7         | 23.29                  | 23.45                        | 23.32                   |                           |             |  |  |  |
| 5                          | QPSK       | 12      | 13        | 23.16                  | 23.19                        | 23.29                   |                           |             |  |  |  |
| 5                          | QPSK       | 25      | 0         | 23.30                  | 23.37                        | 23.54                   | 24.5                      | 1           |  |  |  |
| 5                          | 16QAM      | 1       | 0         | 23.24                  | 23.32                        | 23.39                   |                           |             |  |  |  |
| 5                          | 16QAM      | 1       | 12        | 23.22                  | 23.34                        | 23.37                   |                           |             |  |  |  |
| 5                          | 16QAM      | 1       | 24        | 23.12                  | 23.33                        | 23.12                   | 23.5                      | 1           |  |  |  |
| 5                          | 16QAM      | 12      | 0         | 22.30                  | 22.41                        | 22.28                   |                           |             |  |  |  |
| 5                          | 16QAM      | 12      | 7         | 22.40                  | 22.33                        | 22.12                   |                           |             |  |  |  |
| 5                          | 16QAM      | 12      | 13        | 22.20                  | 22.25                        | 22.08                   | 23.5                      | 2           |  |  |  |
| 5                          | 16QAM      | 25      | 0         | 22.49                  | 22.30                        | 22.23                   |                           |             |  |  |  |
| 5                          | 64QAM      | 1       | 0         | 22.31                  | 22.51                        | 22.44                   |                           |             |  |  |  |
| 5                          | 64QAM      | 1       | 12        | 22.27                  | 22.31                        | 22.23                   | 23.5                      | 2           |  |  |  |
| 5                          | 64QAM      | 1       | 24        | 22.20                  | 22.36                        | 22.25                   |                           |             |  |  |  |
| 5                          | 64QAM      | 12      | 0         | 21.34                  | 21.43                        | 21.49                   |                           |             |  |  |  |
| 5                          | 64QAM      | 12      | 7         | 21.32                  | 21.32                        | 21.40                   | 22.5                      | 3           |  |  |  |
| 5                          | 64QAM      | 12      | 13        | 21.32                  | 21.33                        | 21.11                   |                           |             |  |  |  |
| 5                          | 64QAM      | 25      | 0         | 21.22                  | 21.40                        | 21.48                   |                           |             |  |  |  |
| Channel                    |            |         |           | 26705                  | 26865                        | 27025                   | Tune-up<br>limit<br>(dbm) |             |  |  |  |
| Frequency (MHz)            |            |         |           | 815.5                  | 831.5                        | 847.5                   |                           |             |  |  |  |
| 3                          | QPSK       | 1       | 0         | 24.43                  | 24.33                        | 24.42                   | 25.5                      | 0           |  |  |  |
| 3                          | QPSK       | 1       | 8         | 24.21                  | 24.14                        | 24.27                   |                           |             |  |  |  |
| 3                          | QPSK       | 1       | 14        | 24.39                  | 24.33                        | 24.10                   |                           |             |  |  |  |
| 3                          | QPSK       | 8       | 0         | 23.43                  | 23.41                        | 23.31                   | 24.5                      | 1           |  |  |  |
| 3                          | QPSK       | 8       | 4         | 23.21                  | 23.49                        | 23.12                   |                           |             |  |  |  |
| 3                          | QPSK       | 8       | 7         | 23.21                  | 23.34                        | 23.25                   |                           |             |  |  |  |
| 3                          | QPSK       | 15      | 0         | 23.30                  | 23.30                        | 23.33                   | 24.5                      | 1           |  |  |  |
| 3                          | 16QAM      | 1       | 0         | 23.23                  | 23.41                        | 23.32                   |                           |             |  |  |  |
| 3                          | 16QAM      | 1       | 8         | 23.13                  | 23.34                        | 23.39                   |                           |             |  |  |  |
| 3                          | 16QAM      | 1       | 14        | 23.24                  | 23.41                        | 23.22                   | 24.5                      | 1           |  |  |  |
| 3                          | 16QAM      | 8       | 0         | 22.38                  | 22.30                        | 22.20                   |                           |             |  |  |  |
| 3                          | 16QAM      | 8       | 4         | 22.28                  | 22.18                        | 22.07                   |                           |             |  |  |  |
| 3                          | 16QAM      | 8       | 7         | 22.28                  | 22.24                        | 22.17                   | 23.5                      | 2           |  |  |  |
| 3                          | 16QAM      | 15      | 0         | 22.46                  | 22.36                        | 22.21                   |                           |             |  |  |  |
| 3                          | 64QAM      | 1       | 0         | 22.22                  | 22.37                        | 22.40                   |                           |             |  |  |  |
| 3                          | 64QAM      | 1       | 8         | 22.26                  | 22.22                        | 22.13                   | 23.5                      | 2           |  |  |  |
| 3                          | 64QAM      | 1       | 14        | 22.34                  | 22.36                        | 22.22                   |                           |             |  |  |  |
| 3                          | 64QAM      | 8       | 0         | 21.40                  | 21.41                        | 21.55                   |                           |             |  |  |  |
| 3                          | 64QAM      | 8       | 4         | 21.19                  | 21.21                        | 21.22                   | 22.5                      | 3           |  |  |  |
| 3                          | 64QAM      | 8       | 7         | 21.43                  | 21.28                        | 21.24                   |                           |             |  |  |  |
| 3                          | 64QAM      | 15      | 0         | 21.34                  | 21.40                        | 21.43                   |                           |             |  |  |  |
| Channel                    |            |         |           | 26705                  | 26865                        | 27025                   | Tune-up<br>limit<br>(dbm) |             |  |  |  |
| Frequency (MHz)            |            |         |           | 814.7                  | 831.5                        | 848.3                   |                           |             |  |  |  |
| 1.4                        | QPSK       | 1       | 0         | 24.42                  | 24.46                        | 24.31                   | 25.5                      | 0           |  |  |  |
| 1.4                        | QPSK       | 1       | 3         | 24.25                  | 24.29                        | 24.28                   |                           |             |  |  |  |
| 1.4                        | QPSK       | 1       | 5         | 24.23                  | 24.42                        | 24.20                   |                           |             |  |  |  |
| 1.4                        | QPSK       | 3       | 0         | 23.24                  | 24.43                        | 24.18                   | 24.5                      | 1           |  |  |  |
| 1.4                        | QPSK       | 3       | 1         | 24.27                  | 24.41                        | 24.26                   |                           |             |  |  |  |
| 1.4                        | QPSK       | 3       | 3         | 24.40                  | 24.36                        | 24.15                   |                           |             |  |  |  |
| 1.4                        | QPSK       | 6       | 0         | 23.35                  | 23.42                        | 23.28                   | 24.5                      | 1           |  |  |  |
| 1.4                        | 16QAM      | 1       | 0         | 23.33                  | 23.35                        | 23.15                   |                           |             |  |  |  |
| 1.4                        | 16QAM      | 1       | 3         | 23.17                  | 23.20                        | 23.16                   |                           |             |  |  |  |
| 1.4                        | 16QAM      | 1       | 5         | 23.02                  | 23.21                        | 23.06                   | 24.5                      | 1           |  |  |  |
| 1.4                        | 16QAM      | 3       | 0         | 23.23                  | 23.21                        | 23.01                   |                           |             |  |  |  |
| 1.4                        | 16QAM      | 3       | 1         | 22.86                  | 23.42                        | 23.06                   |                           |             |  |  |  |
| 1.4                        | 16QAM      | 3       | 3         | 23.31                  | 23.31                        | 23.09                   | 23.5                      | 2           |  |  |  |
| 1.4                        | 16QAM      | 6       | 0         | 22.47                  | 22.23                        | 22.18                   |                           |             |  |  |  |
| 1.4                        | 64QAM      | 1       | 0         | 22.33                  | 22.40                        | 22.42                   |                           |             |  |  |  |
| 1.4                        | 64QAM      | 1       | 3         | 22.33                  | 22.27                        | 22.17                   | 23.5                      | 2           |  |  |  |
| 1.4                        | 64QAM      | 1       | 5         | 22.26                  | 22.36                        | 22.04                   |                           |             |  |  |  |
| 1.4                        | 64QAM      | 3       | 0         | 22.39                  | 22.38                        | 22.08                   |                           |             |  |  |  |
| 1.4                        | 64QAM      | 3       | 1         | 22.34                  | 22.45                        | 22.26                   | 22.5                      | 3           |  |  |  |
| 1.4                        | 64QAM      | 3       | 3         | 22.42                  | 22.30                        | 22.17                   |                           |             |  |  |  |
| 1.4                        | 64QAM      | 6       | 0         | 21.51                  | 21.28                        | 21.18                   |                           |             |  |  |  |





| Band 42 ANT5 Default Power |            |         |           |                       |                          |                        |                     |          |  |
|----------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                   | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                    |            |         |           | 42190                 | 42590                    | 42990                  |                     |          |  |
| Frequency (MHz)            |            |         |           | 3460                  | 3500                     | 3540                   |                     |          |  |
| 20                         | QPSK       | 1       | 0         | 24.33                 | 24.45                    | 24.39                  |                     |          |  |
| 20                         | QPSK       | 1       | 49        | 24.38                 | 24.42                    | 24.36                  | 25.5                | 0        |  |
| 20                         | QPSK       | 1       | 99        | 24.32                 | 24.41                    | 24.35                  |                     |          |  |
| 20                         | QPSK       | 50      | 0         | 23.47                 | 23.54                    | 23.49                  |                     |          |  |
| 20                         | QPSK       | 50      | 24        | 23.46                 | 23.47                    | 23.39                  | 24.5                | 1        |  |
| 20                         | QPSK       | 50      | 50        | 23.42                 | 23.49                    | 23.42                  |                     |          |  |
| 20                         | QPSK       | 100     | 0         | 23.52                 | 23.58                    | 23.57                  |                     |          |  |
| 20                         | 16QAM      | 1       | 0         | 23.25                 | 23.31                    | 23.28                  | 24.5                | 1        |  |
| 20                         | 16QAM      | 1       | 49        | 23.17                 | 23.23                    | 23.17                  |                     |          |  |
| 20                         | 16QAM      | 1       | 99        | 23.19                 | 23.27                    | 23.23                  |                     |          |  |
| 20                         | 16QAM      | 50      | 0         | 22.22                 | 22.24                    | 22.19                  | 23.5                | 2        |  |
| 20                         | 16QAM      | 50      | 24        | 22.21                 | 22.23                    | 22.15                  |                     |          |  |
| 20                         | 16QAM      | 50      | 50        | 22.21                 | 22.29                    | 22.24                  |                     |          |  |
| 20                         | 16QAM      | 100     | 0         | 22.23                 | 22.31                    | 22.20                  | 23.5                | 2        |  |
| 20                         | 64QAM      | 1       | 0         | 22.87                 | 22.94                    | 22.83                  |                     |          |  |
| 20                         | 64QAM      | 1       | 49        | 22.82                 | 22.85                    | 22.75                  |                     |          |  |
| 20                         | 64QAM      | 1       | 99        | 22.83                 | 22.91                    | 22.83                  | 22.5                | 3        |  |
| 20                         | 64QAM      | 50      | 0         | 22.10                 | 22.19                    | 22.13                  |                     |          |  |
| 20                         | 64QAM      | 50      | 24        | 22.07                 | 22.17                    | 22.12                  |                     |          |  |
| 20                         | 64QAM      | 50      | 50        | 22.12                 | 22.21                    | 22.16                  | 22.5                | 3        |  |
| 20                         | 64QAM      | 100     | 0         | 22.26                 | 22.34                    | 22.31                  |                     |          |  |
| Channel                    |            |         |           | 42165                 | 42590                    | 43015                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3457.5                | 3500                     | 3542.5                 |                     |          |  |
| 15                         | QPSK       | 1       | 0         | 24.16                 | 24.27                    | 24.21                  |                     | 25.5     |  |
| 15                         | QPSK       | 1       | 37        | 24.27                 | 24.21                    | 24.16                  |                     |          |  |
| 15                         | QPSK       | 1       | 74        | 24.16                 | 24.24                    | 24.16                  |                     |          |  |
| 15                         | QPSK       | 36      | 0         | 23.31                 | 23.33                    | 23.31                  | 24.5                | 1        |  |
| 15                         | QPSK       | 36      | 20        | 23.33                 | 23.29                    | 23.25                  |                     |          |  |
| 15                         | QPSK       | 36      | 39        | 23.26                 | 23.36                    | 23.26                  |                     |          |  |
| 15                         | QPSK       | 75      | 0         | 23.40                 | 23.47                    | 23.38                  | 24.5                | 1        |  |
| 15                         | 16QAM      | 1       | 0         | 23.16                 | 23.27                    | 23.24                  |                     |          |  |
| 15                         | 16QAM      | 1       | 37        | 23.06                 | 23.20                    | 23.16                  |                     |          |  |
| 15                         | 16QAM      | 1       | 74        | 23.09                 | 23.21                    | 23.19                  | 23.5                | 2        |  |
| 15                         | 16QAM      | 36      | 0         | 22.13                 | 22.14                    | 22.13                  |                     |          |  |
| 15                         | 16QAM      | 36      | 20        | 22.12                 | 22.18                    | 22.10                  |                     |          |  |
| 15                         | 16QAM      | 36      | 39        | 22.16                 | 22.24                    | 22.22                  | 23.5                | 2        |  |
| 15                         | 16QAM      | 75      | 0         | 22.22                 | 22.21                    | 22.16                  |                     |          |  |
| 15                         | 64QAM      | 1       | 0         | 22.85                 | 22.87                    | 22.77                  |                     |          |  |
| 15                         | 64QAM      | 1       | 37        | 22.81                 | 22.83                    | 22.70                  | 22.5                | 3        |  |
| 15                         | 64QAM      | 1       | 74        | 22.80                 | 22.87                    | 22.73                  |                     |          |  |
| 15                         | 64QAM      | 36      | 0         | 21.99                 | 22.11                    | 22.11                  |                     |          |  |
| 15                         | 64QAM      | 36      | 20        | 21.96                 | 22.12                    | 22.03                  | 22.5                | 3        |  |
| 15                         | 64QAM      | 36      | 39        | 22.06                 | 22.11                    | 22.08                  |                     |          |  |
| 15                         | 64QAM      | 75      | 0         | 22.23                 | 22.26                    | 22.23                  |                     |          |  |
| Channel                    |            |         |           | 42140                 | 42590                    | 43040                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3455                  | 3500                     | 3545                   |                     |          |  |
| 10                         | QPSK       | 1       | 0         | 24.19                 | 24.28                    | 24.23                  |                     | 25.5     |  |
| 10                         | QPSK       | 1       | 25        | 24.18                 | 24.29                    | 24.17                  |                     |          |  |
| 10                         | QPSK       | 1       | 49        | 24.18                 | 24.21                    | 24.18                  |                     |          |  |
| 10                         | QPSK       | 25      | 0         | 23.29                 | 23.39                    | 23.29                  | 24.5                | 1        |  |
| 10                         | QPSK       | 25      | 12        | 23.27                 | 23.31                    | 23.26                  |                     |          |  |
| 10                         | QPSK       | 25      | 25        | 23.23                 | 23.33                    | 23.23                  |                     |          |  |
| 10                         | QPSK       | 50      | 0         | 23.34                 | 23.47                    | 23.41                  | 24.5                | 1        |  |
| 10                         | 16QAM      | 1       | 0         | 23.16                 | 23.25                    | 23.23                  |                     |          |  |
| 10                         | 16QAM      | 1       | 25        | 23.13                 | 23.13                    | 23.15                  |                     |          |  |
| 10                         | 16QAM      | 1       | 49        | 23.16                 | 23.23                    | 23.14                  | 23.5                | 2        |  |
| 10                         | 16QAM      | 25      | 0         | 22.21                 | 22.14                    | 22.12                  |                     |          |  |
| 10                         | 16QAM      | 25      | 12        | 22.14                 | 22.12                    | 22.07                  |                     |          |  |
| 10                         | 16QAM      | 25      | 25        | 22.15                 | 22.22                    | 22.18                  | 23.5                | 2        |  |
| 10                         | 16QAM      | 50      | 0         | 22.16                 | 22.26                    | 22.10                  |                     |          |  |
| 10                         | 64QAM      | 1       | 0         | 22.77                 | 22.92                    | 22.75                  |                     |          |  |
| 10                         | 64QAM      | 1       | 25        | 22.73                 | 22.83                    | 22.68                  | 22.5                | 3        |  |
| 10                         | 64QAM      | 1       | 49        | 22.73                 | 22.85                    | 22.78                  |                     |          |  |
| 10                         | 64QAM      | 25      | 0         | 22.06                 | 22.09                    | 22.09                  |                     |          |  |
| 10                         | 64QAM      | 25      | 12        | 21.98                 | 22.12                    | 22.08                  | 22.5                | 3        |  |
| 10                         | 64QAM      | 25      | 25        | 22.06                 | 22.13                    | 22.14                  |                     |          |  |
| 10                         | 64QAM      | 50      | 0         | 22.22                 | 22.31                    | 22.24                  |                     |          |  |
| Channel                    |            |         |           | 42115                 | 42590                    | 43065                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3452.5                | 3500                     | 3547.5                 |                     |          |  |
| 5                          | QPSK       | 1       | 0         | 24.17                 | 24.34                    | 24.19                  |                     | 25.5     |  |
| 5                          | QPSK       | 1       | 12        | 24.27                 | 24.29                    | 24.17                  |                     |          |  |
| 5                          | QPSK       | 1       | 24        | 24.16                 | 24.27                    | 24.16                  |                     |          |  |
| 5                          | QPSK       | 12      | 0         | 23.29                 | 23.43                    | 23.32                  | 24.5                | 1        |  |
| 5                          | QPSK       | 12      | 7         | 23.31                 | 23.30                    | 23.27                  |                     |          |  |
| 5                          | QPSK       | 12      | 13        | 23.28                 | 23.38                    | 23.30                  |                     |          |  |
| 5                          | QPSK       | 25      | 0         | 23.39                 | 23.38                    | 23.43                  | 24.5                | 1        |  |
| 5                          | 16QAM      | 1       | 0         | 23.18                 | 23.23                    | 23.21                  |                     |          |  |
| 5                          | 16QAM      | 1       | 12        | 23.15                 | 23.13                    | 23.15                  |                     |          |  |
| 5                          | 16QAM      | 1       | 24        | 23.12                 | 23.21                    | 23.15                  | 23.5                | 2        |  |
| 5                          | 16QAM      | 12      | 0         | 22.15                 | 22.18                    | 22.14                  |                     |          |  |
| 5                          | 16QAM      | 12      | 7         | 22.17                 | 22.18                    | 22.11                  |                     |          |  |
| 5                          | 16QAM      | 12      | 13        | 22.17                 | 22.20                    | 22.23                  | 23.5                | 2        |  |
| 5                          | 16QAM      | 25      | 0         | 22.17                 | 22.27                    | 22.18                  |                     |          |  |
| 5                          | 64QAM      | 1       | 0         | 22.85                 | 22.88                    | 22.78                  |                     |          |  |
| 5                          | 64QAM      | 1       | 12        | 22.73                 | 22.75                    | 22.65                  | 22.5                | 3        |  |
| 5                          | 64QAM      | 1       | 24        | 22.81                 | 22.81                    | 22.75                  |                     |          |  |
| 5                          | 64QAM      | 12      | 0         | 22.00                 | 22.09                    | 22.02                  |                     |          |  |
| 5                          | 64QAM      | 12      | 7         | 22.05                 | 22.08                    | 22.02                  | 22.5                | 3        |  |
| 5                          | 64QAM      | 12      | 13        | 22.03                 | 22.19                    | 22.14                  |                     |          |  |
| 5                          | 64QAM      | 25      | 0         | 22.18                 | 22.25                    | 22.24                  |                     |          |  |

# Reduced power level for WWAN

| GSM850 Ant0 DSI1 |                           |       |       |               |                           |       |       |               |
|------------------|---------------------------|-------|-------|---------------|---------------------------|-------|-------|---------------|
| GSM850           | Burst Average Power (dBm) |       |       | Tune-up Limit | Frame-Average Power (dBm) |       |       | Tune-up Limit |
|                  | TX Channel                | 128   | 189   | 251           | 128                       | 189   | 251   | Limit         |
| Frequency (MHz)  | 824.2                     | 833.4 | 842.6 | (dBm)         | 824.2                     | 833.4 | 842.6 | (dBm)         |
| GSM 1 Tx slot    | 32.15                     | 32.10 | 31.07 | 33.50         | 23.15                     | 23.10 | 22.97 | 24.50         |
| GPRS 1 Tx slot   | 32.21                     | 32.04 | 31.89 | 33.50         | 23.21                     | 23.04 | 22.89 | 24.50         |
| GPRS 2 Tx slots  | 29.43                     | 29.46 | 29.27 | 30.50         | 23.43                     | 23.46 | 23.27 | 24.50         |
| GPRS 3 Tx slots  | 27.33                     | 27.74 | 27.67 | 28.50         | 23.07                     | 23.48 | 23.41 | 24.24         |
| GPRS 4 Tx slots  | 26.00                     | 26.32 | 26.30 | 27.50         | 23.00                     | 23.32 | 23.30 | 24.50         |
| EDGE 1 Tx slot   | 25.94                     | 25.96 | 25.85 | 27.50         | 16.94                     | 16.96 | 16.85 | 18.50         |
| EDGE 2 Tx slots  | 23.17                     | 23.11 | 23.14 | 24.50         | 17.17                     | 17.11 | 17.14 | 18.50         |
| EDGE 3 Tx slots  | 21.19                     | 21.24 | 21.16 | 23.00         | 16.93                     | 16.98 | 16.90 | 18.74         |
| EDGE 4 Tx slots  | 19.84                     | 20.12 | 20.03 | 21.50         | 16.84                     | 17.12 | 17.03 | 18.50         |

| GSM1900 Ant0 DSI1 |                           |       |        |               |                           |       |        |               |
|-------------------|---------------------------|-------|--------|---------------|---------------------------|-------|--------|---------------|
| GSM1900           | Burst Average Power (dBm) |       |        | Tune-up Limit | Frame-Average Power (dBm) |       |        | Tune-up Limit |
|                   | TX Channel                | 512   | 661    | 810           | 512                       | 661   | 810    | Limit         |
| Frequency (MHz)   | 1850.2                    | 1880  | 1909.8 | (dBm)         | 1850.2                    | 1880  | 1909.8 | (dBm)         |
| GSM 1 Tx slot     | 29.27                     | 29.33 | 29.21  | 30.50         | 20.27                     | 20.33 | 20.21  | 21.50         |
| GPRS 1 Tx slot    | 29.34                     | 29.28 | 29.10  | 30.50         | 20.34                     | 20.28 | 20.10  | 21.50         |
| GPRS 2 Tx slots   | 26.70                     | 26.64 | 26.39  | 27.50         | 20.70                     | 20.64 | 20.39  | 21.50         |
| GPRS 3 Tx slots   | 24.63                     | 24.62 | 24.61  | 25.50         | 20.37                     | 20.56 | 20.35  | 21.24         |
| GPRS 4 Tx slots   | 23.17                     | 23.52 | 23.43  | 24.50         | 20.17                     | 20.52 | 20.43  | 21.50         |
| EDGE 1 Tx slot    | 25.23                     | 25.39 | 25.18  | 26.50         | 16.23                     | 16.39 | 16.18  | 17.50         |
| EDGE 2 Tx slots   | 22.51                     | 22.45 | 22.27  | 24.00         | 16.51                     | 16.45 | 16.27  | 18.00         |
| EDGE 3 Tx slots   | 19.92                     | 19.82 | 19.73  | 21.50         | 15.66                     | 15.56 | 15.47  | 17.24         |
| EDGE 4 Tx slots   | 19.97                     | 19.69 | 19.85  | 20.50         | 16.97                     | 16.69 | 16.85  | 17.50         |

| WCDMA II Ant0 DSI1 |                    |          |        | WCDMA IV Ant0 DSI1 |                     |          |       | WCDMA V Ant0 DSI1 |                     |         |       |       |                     |
|--------------------|--------------------|----------|--------|--------------------|---------------------|----------|-------|-------------------|---------------------|---------|-------|-------|---------------------|
| 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       | 23.86    | 23.91  | 23.79              | 25.50               | 24.10    | 24.13 | 24.11             | 25.50               | 24.71   | 24.74 | 24.72 | 25.50               |
| 3GPP Rel 99        | RMC 12.2Kbps       | 23.94    | 23.98  | 23.86              | 25.50               | 24.14    | 24.17 | 24.09             | 25.50               | 24.75   | 24.78 | 24.69 | 25.50               |
| 3GPP Rel 6         | HSDDPA Subtest-1   | 22.97    | 22.98  | 22.86              | 24.50               | 23.21    | 23.20 | 23.05             | 24.50               | 23.76   | 23.81 | 23.54 | 24.50               |
| 3GPP Rel 6         | HSDDPA Subtest-2   | 23.03    | 22.99  | 22.81              | 24.50               | 23.23    | 23.18 | 23.11             | 24.50               | 23.82   | 23.69 | 23.58 | 24.50               |
| 3GPP Rel 6         | HSDDPA Subtest-3   | 22.42    | 22.42  | 22.31              | 24.00               | 22.72    | 22.68 | 22.59             | 24.00               | 23.33   | 23.29 | 23.20 | 24.00               |
| 3GPP Rel 6         | HSDDPA Subtest-4   | 22.57    | 22.50  | 22.35              | 24.00               | 22.71    | 22.73 | 22.61             | 24.00               | 23.32   | 23.34 | 23.22 | 24.00               |
| 3GPP Rel 8         | DC-HSDPA Subtest-1 | 22.95    | 22.93  | 22.76              | 24.50               | 23.09    | 23.08 | 22.93             | 24.50               | 23.82   | 23.87 | 23.56 | 24.50               |
| 3GPP Rel 8         | DC-HSDPA Subtest-2 | 22.99    | 22.91  | 22.93              | 24.50               | 23.11    | 23.06 | 22.99             | 24.50               | 23.87   | 23.74 | 23.56 | 24.50               |
| 3GPP Rel 8         | DC-HSDPA Subtest-3 | 22.40    | 22.45  | 22.35              | 24.00               | 22.60    | 22.56 | 22.47             | 24.00               | 23.37   | 23.30 | 23.21 | 24.00               |
| 3GPP Rel 8         | DC-HSDPA Subtest-4 | 22.45    | 22.55  | 22.28              | 24.00               | 22.59    | 22.61 | 22.49             | 24.00               | 23.38   | 23.31 | 23.18 | 24.00               |
| 3GPP Rel 6         | HSUPA Subtest-1    | 22.93    | 22.94  | 22.83              | 24.50               | 23.17    | 23.17 | 23.05             | 24.50               | 23.69   | 23.75 | 23.66 | 24.50               |
| 3GPP Rel 6         | HSUPA Subtest-2    | 20.92    | 21.00  | 20.90              | 22.50               | 21.17    | 21.18 | 21.03             | 22.50               | 21.78   | 21.79 | 21.67 | 22.50               |
| 3GPP Rel 6         | HSUPA Subtest-3    | 21.95    | 21.97  | 21.85              | 23.50               | 22.19    | 22.16 | 22.03             | 23.50               | 22.80   | 22.77 | 22.64 | 23.50               |
| 3GPP Rel 6         | HSUPA Subtest-4    | 20.90    | 20.89  | 20.82              | 22.50               | 21.12    | 21.17 | 21.09             | 22.50               | 21.73   | 21.78 | 21.70 | 22.50               |
| 3GPP Rel 6         | HSUPA Subtest-5    | 22.88    | 22.93  | 22.87              | 24.50               | 23.90    | 23.90 | 23.50             | 24.50               | 23.78   | 23.74 | 23.40 | 24.50               |







| Band 17 Ant0 DS11 |            |         |           |             |             |              |                     |             |             |                     |          |
|-------------------|------------|---------|-----------|-------------|-------------|--------------|---------------------|-------------|-------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low   |             | Power Middle |                     | Power High  |             | Tune-up limit (dbm) | MPR (db) |
|                   |            |         |           | Ch. / Freq. | Ch. / Freq. | Ch. / Freq.  | Ch. / Freq.         | Ch. / Freq. | Ch. / Freq. |                     |          |
| Channel           |            |         |           | 23780       | 23790       | 23800        |                     |             |             |                     |          |
| Frequency (MHz)   |            |         |           | 710         | 710         | 711          |                     |             |             |                     |          |
| 10                | QPSK       | 1       | 0         | 24.50       | 24.68       | 24.42        | 25.5                | 0           |             |                     |          |
| 10                | QPSK       | 1       | 25        | 24.45       | 24.57       | 24.65        |                     |             |             |                     |          |
| 10                | QPSK       | 1       | 49        | 24.33       | 24.40       | 24.62        |                     |             |             |                     |          |
| 10                | QPSK       | 25      | 0         | 23.59       | 23.92       | 23.68        | 24.5                | 1           |             |                     |          |
| 10                | QPSK       | 25      | 12        | 23.77       | 23.69       | 23.70        |                     |             |             |                     |          |
| 10                | QPSK       | 25      | 25        | 23.67       | 23.63       | 23.70        |                     |             |             |                     |          |
| 10                | QPSK       | 50      | 0         | 23.79       | 23.90       | 23.58        | 24.5                | 1           |             |                     |          |
| 10                | 16QAM      | 1       | 0         | 23.85       | 23.77       | 23.81        |                     |             |             |                     |          |
| 10                | 16QAM      | 1       | 25        | 23.82       | 23.86       | 23.84        |                     |             |             |                     |          |
| 10                | 16QAM      | 1       | 49        | 23.72       | 23.84       | 23.63        | 23.5                | 2           |             |                     |          |
| 10                | 16QAM      | 25      | 0         | 22.68       | 22.59       | 22.77        |                     |             |             |                     |          |
| 10                | 16QAM      | 25      | 12        | 22.79       | 22.68       | 22.77        |                     |             |             |                     |          |
| 10                | 16QAM      | 25      | 25        | 22.78       | 22.69       | 22.72        | 23.5                | 2           |             |                     |          |
| 10                | 16QAM      | 50      | 0         | 22.70       | 22.65       | 22.74        |                     |             |             |                     |          |
| 10                | 64QAM      | 1       | 0         | 22.85       | 22.76       | 22.80        |                     |             |             |                     |          |
| 10                | 64QAM      | 1       | 25        | 22.81       | 23.14       | 22.90        | 23.5                | 2           |             |                     |          |
| 10                | 64QAM      | 1       | 49        | 22.93       | 22.75       | 22.87        |                     |             |             |                     |          |
| 10                | 64QAM      | 25      | 0         | 21.59       | 21.64       | 21.66        |                     |             |             |                     |          |
| 10                | 64QAM      | 25      | 12        | 21.86       | 21.72       | 21.72        | 22.5                | 3           |             |                     |          |
| 10                | 64QAM      | 25      | 25        | 21.78       | 21.79       | 21.74        |                     |             |             |                     |          |
| 10                | 64QAM      | 50      | 0         | 21.72       | 21.68       | 21.61        |                     |             |             |                     |          |
| Channel           |            |         |           | 23759       | 23790       | 23825        | Tune-up limit (dbm) |             | MPR (db)    |                     |          |
| Frequency (MHz)   |            |         |           | 706.5       | 710         | 713.5        |                     |             |             |                     |          |
| 5                 | QPSK       | 1       | 0         | 24.67       | 24.67       | 24.56        | 25.5                | 0           |             |                     |          |
| 5                 | QPSK       | 1       | 12        | 24.39       | 24.59       | 24.58        |                     |             |             |                     |          |
| 5                 | QPSK       | 1       | 24        | 24.62       | 24.56       | 24.66        |                     |             |             |                     |          |
| 5                 | QPSK       | 12      | 0         | 23.62       | 23.77       | 23.70        | 24.5                | 1           |             |                     |          |
| 5                 | QPSK       | 12      | 7         | 23.66       | 23.64       | 23.67        |                     |             |             |                     |          |
| 5                 | QPSK       | 12      | 13        | 23.73       | 23.70       | 23.74        |                     |             |             |                     |          |
| 5                 | QPSK       | 25      | 0         | 23.64       | 23.70       | 23.60        | 24.5                | 1           |             |                     |          |
| 5                 | 16QAM      | 1       | 0         | 23.88       | 23.75       | 23.70        |                     |             |             |                     |          |
| 5                 | 16QAM      | 1       | 12        | 23.87       | 23.75       | 24.14        |                     |             |             |                     |          |
| 5                 | 16QAM      | 1       | 24        | 23.84       | 24.16       | 23.98        | 23.5                | 2           |             |                     |          |
| 5                 | 16QAM      | 12      | 0         | 22.80       | 22.77       | 22.67        |                     |             |             |                     |          |
| 5                 | 16QAM      | 12      | 7         | 22.85       | 22.57       | 22.83        |                     |             |             |                     |          |
| 5                 | 16QAM      | 12      | 13        | 22.70       | 22.72       | 22.78        | 23.5                | 2           |             |                     |          |
| 5                 | 16QAM      | 25      | 0         | 22.70       | 22.57       | 22.77        |                     |             |             |                     |          |
| 5                 | 64QAM      | 1       | 0         | 22.80       | 22.63       | 22.71        |                     |             |             |                     |          |
| 5                 | 64QAM      | 1       | 12        | 22.69       | 22.76       | 22.73        | 23.5                | 2           |             |                     |          |
| 5                 | 64QAM      | 1       | 24        | 22.70       | 22.55       | 22.64        |                     |             |             |                     |          |
| 5                 | 64QAM      | 12      | 0         | 21.80       | 21.75       | 21.62        |                     |             |             |                     |          |
| 5                 | 64QAM      | 12      | 7         | 21.62       | 21.72       | 21.89        | 22.5                | 3           |             |                     |          |
| 5                 | 64QAM      | 12      | 13        | 21.66       | 21.54       | 21.63        |                     |             |             |                     |          |
| 5                 | 64QAM      | 25      | 0         | 21.57       | 21.61       | 21.66        |                     |             |             |                     |          |

| Band 26 Ant0 DS11 |            |         |           |           |           |              |                     |            |           |                     |          |
|-------------------|------------|---------|-----------|-----------|-----------|--------------|---------------------|------------|-----------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low |           | Power Middle |                     | Power High |           | Tune-up limit (dbm) | MPR (db) |
|                   |            |         |           | Ch./Freq. | Ch./Freq. | Ch./Freq.    | Ch./Freq.           | Ch./Freq.  | Ch./Freq. |                     |          |
| Channel           |            |         |           | 26765     | 26865     | 26965        |                     |            |           |                     |          |
| Frequency (MHz)   |            |         |           | 819       | 831.5     | 841.5        |                     |            |           |                     |          |
| 15                | QPSK       | 1       | 0         | 24.34     | 24.44     | 24.31        |                     |            |           | 25.5                | 0        |
| 15                | QPSK       | 1       | 37        | 24.39     | 24.37     | 24.29        |                     |            |           |                     |          |
| 15                | QPSK       | 36      | 0         | 23.44     | 23.50     | 23.37        |                     |            |           |                     |          |
| 15                | QPSK       | 36      | 20        | 23.42     | 23.46     | 23.44        |                     |            |           | 24.5                | 1        |
| 15                | QPSK       | 36      | 39        | 23.48     | 23.46     | 23.38        |                     |            |           |                     |          |
| 15                | QPSK       | 75      | 0         | 23.42     | 23.52     | 23.31        |                     |            |           |                     |          |
| 15                | 16QAM      | 1       | 0         | 23.77     | 23.67     | 23.64        |                     |            |           | 24.5                | 1        |
| 15                | 16QAM      | 1       | 37        | 23.70     | 23.66     | 23.58        |                     |            |           |                     |          |
| 15                | 16QAM      | 1       | 74        | 23.75     | 23.66     | 23.48        |                     |            |           |                     |          |
| 15                | 16QAM      | 36      | 0         | 22.45     | 22.43     | 22.39        |                     |            |           | 23.5                | 2        |
| 15                | 16QAM      | 36      | 20        | 22.50     | 22.48     | 22.41        |                     |            |           |                     |          |
| 15                | 16QAM      | 36      | 39        | 22.46     | 22.47     | 22.39        |                     |            |           |                     |          |
| 15                | 16QAM      | 75      | 0         | 22.52     | 22.41     | 22.38        |                     |            |           | 22.5                | 3        |
| 15                | 64QAM      | 1       | 0         | 22.80     | 22.55     | 22.50        |                     |            |           |                     |          |
| 15                | 64QAM      | 1       | 37        | 22.65     | 22.60     | 22.50        |                     |            |           |                     |          |
| 15                | 64QAM      | 1       | 74        | 22.56     | 22.54     | 22.37        |                     |            |           | 23.5                | 2        |
| 15                | 64QAM      | 36      | 0         | 21.48     | 21.44     | 21.37        |                     |            |           |                     |          |
| 15                | 64QAM      | 36      | 20        | 21.51     | 21.47     | 21.40        |                     |            |           |                     |          |
| 15                | 64QAM      | 36      | 39        | 21.50     | 21.47     | 21.38        |                     |            |           | 22.5                | 3        |
| 15                | 64QAM      | 75      | 0         | 21.52     | 21.42     | 21.34        |                     |            |           |                     |          |
| Channel           |            |         |           | 26740     | 26865     | 26990        | Tune-up limit (dbm) |            | MPR (db)  |                     |          |
| Frequency (MHz)   |            |         |           | 819       | 831.5     | 844          |                     |            |           |                     |          |
| 10                | QPSK       | 1       | 0         | 24.35     | 24.33     | 24.20        |                     |            | 25.5      | 0                   |          |
| 10                | QPSK       | 1       | 25        | 24.33     | 24.25     | 24.17        |                     |            |           |                     |          |
| 10                | QPSK       | 1       | 49        | 24.27     | 24.20     | 24.12        |                     |            |           |                     |          |
| 10                | QPSK       | 25      | 0         | 23.45     | 23.37     | 23.31        |                     |            | 24.5      | 1                   |          |
| 10                | QPSK       | 25      | 12        | 23.45     | 23.36     | 23.32        |                     |            |           |                     |          |
| 10                | QPSK       | 25      | 25        | 23.42     | 23.40     | 23.33        |                     |            |           |                     |          |
| 10                | QPSK       | 50      | 0         | 23.46     | 23.34     | 23.30        |                     |            | 24.5      | 1                   |          |
| 10                | 16QAM      | 1       | 0         | 23.60     | 23.68     | 23.61        |                     |            |           |                     |          |
| 10                | 16QAM      | 1       | 25        | 23.62     | 23.63     | 23.53        |                     |            |           |                     |          |
| 10                | 16QAM      | 1       | 49        | 23.63     | 23.61     | 23.49        |                     |            | 23.5      | 2                   |          |
| 10                | 16QAM      | 25      | 0         | 22.50     | 22.39     | 22.31        |                     |            |           |                     |          |
| 10                | 16QAM      | 25      | 12        | 22.47     | 22.40     | 22.35        |                     |            |           |                     |          |
| 10                | 16QAM      | 50      | 0         | 22.47     | 22.37     | 22.29        |                     |            | 23.5      | 2                   |          |
| 10                | 64QAM      | 1       | 0         | 22.57     | 22.60     | 22.48        |                     |            |           |                     |          |
| 10                | 64QAM      | 1       | 25        | 22.56     | 22.46     | 22.38        |                     |            |           |                     |          |
| 10                | 64QAM      | 25      | 0         | 21.49     | 21.39     | 21.31        |                     |            | 22.5      | 3                   |          |
| 10                | 64QAM      | 25      | 12        | 21.47     | 21.35     | 21.29        |                     |            |           |                     |          |
| 10                | 64QAM      | 25      | 25        | 21.40     | 21.31     | 21.31        |                     |            |           |                     |          |
| 10                | 64QAM      | 50      | 0         | 21.44     | 21.36     | 21.31        | Tune-up limit (dbm) |            | MPR (db)  |                     |          |
| Channel           |            |         |           | 26715     | 26865     | 27015        |                     |            |           |                     |          |
| Frequency (MHz)   |            |         |           | 816.5     | 831.5     | 846.5        |                     |            |           |                     |          |
| 5                 | QPSK       | 1       | 0         | 24.33     | 24.37     | 24.22        |                     |            | 25.5      | 0                   |          |
| 5                 | QPSK       | 1       | 12        | 24.40     | 24.32     | 24.20        |                     |            |           |                     |          |
| 5                 | QPSK       | 1       | 24        | 24.32     | 24.27     | 24.09        |                     |            |           |                     |          |
| 5                 | QPSK       | 12      | 0         | 23.46     | 23.34     | 23.29        |                     |            | 24.5      | 1                   |          |
| 5                 | QPSK       | 12      | 7         | 23.48     | 23.42     | 23.28        |                     |            |           |                     |          |
| 5                 | QPSK       | 12      | 13        | 23.43     | 23.36     | 23.24        |                     |            |           |                     |          |
| 5                 | QPSK       | 25      | 0         | 23.46     | 23.33     | 23.26        |                     |            | 24.5      | 1                   |          |
| 5                 | 16QAM      | 1       | 0         | 23.60     | 23.58     | 23.52        |                     |            |           |                     |          |
| 5                 | 16QAM      | 1       | 12        | 23.64     | 23.67     | 23.54        |                     |            |           |                     |          |
| 5                 | 16QAM      | 1       | 24        | 23.66     | 23.58     | 23.50        |                     |            | 23.5      | 2                   |          |
| 5                 | 16QAM      | 12      | 0         | 22.50     | 22.37     | 22.31        |                     |            |           |                     |          |
| 5                 | 16QAM      | 12      | 7         | 22.51     | 22.43     | 22.30        |                     |            |           |                     |          |
| 5                 | 16QAM      | 12      | 13        | 22.47     | 22.41     | 22.27        |                     |            | 23.5      | 2                   |          |
| 5                 | 16QAM      | 25      | 0         | 22.49     | 22.34     | 22.28        |                     |            |           |                     |          |
| 5                 | 64QAM      | 1       | 0         | 22.58     | 22.51     | 22.45        |                     |            |           |                     |          |
| 5                 | 64QAM      | 1       | 12        | 22.56     | 22.42     | 22.39        |                     |            | 23.5      | 2                   |          |
| 5                 | 64QAM      | 1       | 24        | 22.54     | 22.46     | 22.36        |                     |            |           |                     |          |
| 5                 | 64QAM      | 12      | 0         | 21.53     | 21.38     | 21.33        |                     |            |           |                     |          |
| 5                 | 64QAM      | 12      | 7         | 21.48     | 21.43     | 21.29        |                     |            | 22.5      | 3                   |          |
| 5                 | 64QAM      | 12      | 13        | 21.45     | 21.41     | 21.29        |                     |            |           |                     |          |
| 5                 | 64QAM      | 25      | 0         | 21.39     | 21.30     | 21.27        | Tune-up limit (dbm) |            | MPR (db)  |                     |          |
| Channel           |            |         |           | 26705     | 26865     | 27025        |                     |            |           |                     |          |
| Frequency (MHz)   |            |         |           | 815.5     | 831.5     | 847.5        |                     |            |           |                     |          |
| 3                 | QPSK       | 1       | 0         | 24.29     | 24.34     | 24.14        |                     |            | 25.5      | 0                   |          |
| 3                 | QPSK       | 1       | 8         | 24.33     | 24.31     | 24.20        |                     |            |           |                     |          |
| 3                 | QPSK       | 1       | 14        | 24.37     | 24.33     | 24.27        |                     |            |           |                     |          |
| 3                 | QPSK       | 8       | 0         | 23.40     | 23.29     | 23.27        |                     |            | 24.5      | 1                   |          |
| 3                 | QPSK       | 8       | 4         | 23.42     | 23.45     | 23.31        |                     |            |           |                     |          |
| 3                 | QPSK       | 8       | 7         | 23.45     | 23.37     | 23.24        |                     |            |           |                     |          |
| 3                 | QPSK       | 15      | 0         | 23.44     | 23.40     | 23.26        |                     |            | 24.5      | 1                   |          |
| 3                 | 16QAM      | 1       | 0         | 23.53     | 23.60     | 23.52        |                     |            |           |                     |          |
| 3                 | 16QAM      | 1       | 8         | 23.61     | 23.67     | 23.54        |                     |            |           |                     |          |
| 3                 | 16QAM      | 1       | 14        | 23.70     | 23.61     | 23.55        |                     |            | 23.5      | 2                   |          |
| 3                 | 16QAM      | 8       | 0         | 22.50     | 22.37     | 22.33        |                     |            |           |                     |          |
| 3                 | 16QAM      | 8       | 4         | 22.55     | 22.51     | 22.35        |                     |            |           |                     |          |
| 3                 | 16QAM      | 8       | 7         | 22.49     | 22.42     | 22.28        |                     |            | 23.5      | 2                   |          |
| 3                 | 16QAM      | 15      | 0         | 22.50     | 22.43     | 22.30        |                     |            |           |                     |          |
| 3                 | 16QAM      | 1       | 0         | 22.56     | 22.48     | 22.39        |                     |            |           |                     |          |
| 3                 | 64QAM      | 1       | 8         | 22.62     | 22.58     | 22.44        |                     |            | 23.5      | 2                   |          |
| 3                 | 64QAM      | 1       | 14        | 22.55     | 22.57     | 22.41        |                     |            |           |                     |          |
| 3                 | 64QAM      | 8       | 0         | 21.51     | 21.36     | 21.31        |                     |            |           |                     |          |
| 3                 | 64QAM      | 8       | 4         | 21.50     | 21.44     | 21.31        |                     |            | 22.5      | 3                   |          |
| 3                 | 64QAM      | 8       | 7         | 21.50     | 21.44     | 21.08        |                     |            |           |                     |          |
| 3                 | 64QAM      | 15      | 0         | 21.46     | 21.38     | 21.25        | Tune-up limit (dbm) |            | MPR (db)  |                     |          |
| Channel           |            |         |           | 26699     | 26865     | 27033        |                     |            |           |                     |          |
| Frequency (MHz)   |            |         |           | 814.7     | 831.5     | 848.3        |                     |            |           |                     |          |
| 1.4               | QPSK       | 1       | 0         | 24.15     | 24.20     | 24.04        |                     |            | 25.5      | 0                   |          |
| 1.4               | QPSK       | 1       | 3         | 24.33     | 24.28     | 24.16        |                     |            |           |                     |          |
| 1.4               | QPSK       | 1       | 5         | 24.33     | 24.20     | 24.03        |                     |            |           |                     |          |
| 1.4               | QPSK       | 3       | 0         | 24.27     | 24.22     | 24.07        |                     |            | 24.5      | 1                   |          |
| 1.4               | QPSK       | 3       | 1         | 24.31     | 24.29     | 24.15        |                     |            |           |                     |          |
| 1.4               | QPSK       | 3       | 3         | 24.30     | 24.22     | 24.07        |                     |            |           |                     |          |
| 1.4               | QPSK       | 6       | 0         | 23.37     | 23.34     | 23.19        |                     |            | 24.5      | 1                   |          |
| 1.4               | 16QAM      | 1       | 0         | 23.49     | 23.52     | 23.41        |                     |            |           |                     |          |
| 1.4               | 16QAM      | 1       | 3         | 23.61     | 23.64     | 23.48        |                     |            |           |                     |          |
| 1.4               | 16QAM      | 1       | 5         | 23.59     | 23.56     | 23.40        |                     |            | 24.5      | 1                   |          |
| 1.4               | 16QAM      | 3       | 0         | 23.35     | 23.33     | 23.18        |                     |            |           |                     |          |
| 1.4               | 16QAM      | 3       | 2         | 23.40     | 23.38     | 23.26        |                     |            |           |                     |          |
| 1.4               | 16QAM      | 3       | 3         | 23.40     | 23.29     | 23.14        |                     |            | 23.5      | 2                   |          |
| 1.4               | 16QAM      | 6       | 0         | 22.50     | 22.41     | 22.25        |                     |            |           |                     |          |
| 1.4               | 64QAM      | 1       | 0         | 22.47     | 22.40     | 22.30        |                     |            |           |                     |          |
| 1.4               | 64QAM      | 1       | 3         | 22.56     | 22.45     | 22.38        |                     |            | 23.5      | 2                   |          |
| 1.4               | 64QAM      | 1       | 5         | 22.49     | 22.39     | 22.23        |                     |            |           |                     |          |
| 1.4               | 64QAM      | 3       | 0         | 22.40     | 22.30     | 22.24        |                     |            |           |                     |          |
| 1.4               | 64QAM      | 3       | 1         | 22.43     | 22.31     | 22.21        |                     |            | 22.5      | 3                   |          |
| 1.4               | 64QAM      | 3       | 3         | 22.41     | 22.31     | 22.21        |                     |            |           |                     |          |
| 1.4               | 64QAM      | 6       | 0         | 21.40     | 21.37     | 21.19        | Tune-up limit (dbm) |            | MPR (db)  |                     |          |

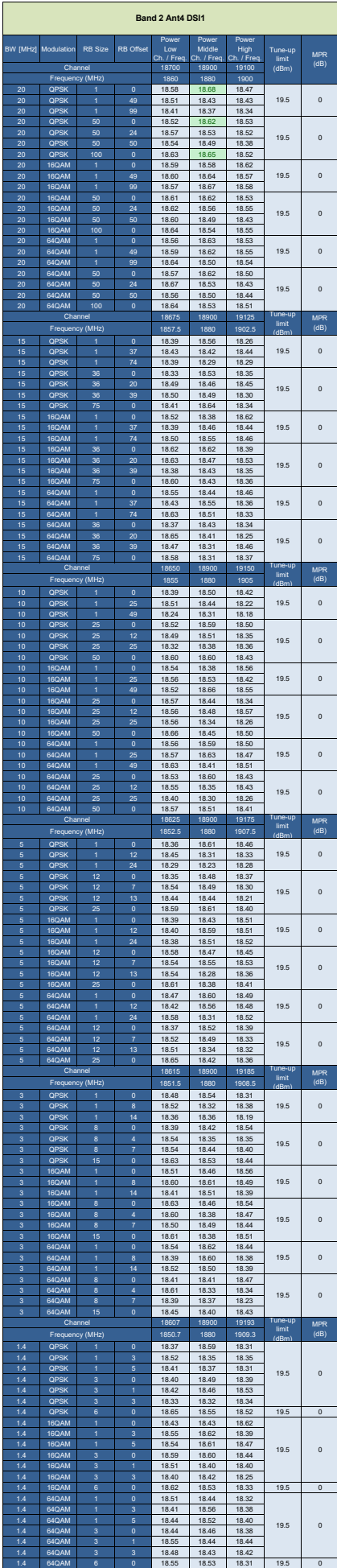
| Band 38 Ant0 DSI1 |            |         |           |                      |                         |                       |                     |          |  |  |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|--|
| 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)   |            |         |           | 2580                 | 2595                    | 2610                  |                     |          |  |  |
| 20                | QPSK       | 1       | 0         | 24.01                | 24.13                   | 24.00                 | 25.5                | 0        |  |  |
| 20                | QPSK       | 1       | 49        | 24.02                | 24.09                   | 24.05                 |                     |          |  |  |
| 20                | QPSK       | 1       | 99        | 24.03                | 24.06                   | 24.02                 |                     |          |  |  |
| 20                | QPSK       | 50      | 0         | 23.01                | 23.24                   | 23.14                 | 24.5                | 1        |  |  |
| 20                | QPSK       | 50      | 24        | 23.19                | 23.15                   | 23.14                 |                     |          |  |  |
| 20                | QPSK       | 50      | 50        | 23.18                | 23.17                   | 23.15                 |                     |          |  |  |
| 20                | QPSK       | 100     | 0         | 23.05                | 23.16                   | 23.14                 | 24.5                | 1        |  |  |
| 20                | 16QAM      | 1       | 0         | 23.10                | 23.15                   | 23.15                 |                     |          |  |  |
| 20                | 16QAM      | 1       | 49        | 23.20                | 23.17                   | 23.19                 |                     |          |  |  |
| 20                | 16QAM      | 1       | 99        | 23.22                | 23.20                   | 23.17                 | 23.5                | 2        |  |  |
| 20                | 16QAM      | 50      | 0         | 22.11                | 22.19                   | 22.10                 |                     |          |  |  |
| 20                | 16QAM      | 50      | 24        | 22.20                | 22.21                   | 22.21                 |                     |          |  |  |
| 20                | 16QAM      | 50      | 50        | 22.21                | 22.22                   | 22.22                 | 23.5                | 2        |  |  |
| 20                | 16QAM      | 100     | 0         | 22.19                | 22.09                   | 22.21                 |                     |          |  |  |
| 20                | 64QAM      | 1       | 0         | 22.16                | 22.10                   | 22.02                 |                     |          |  |  |
| 20                | 64QAM      | 1       | 49        | 22.12                | 22.12                   | 22.04                 | 23.5                | 2        |  |  |
| 20                | 64QAM      | 1       | 99        | 22.05                | 22.07                   | 22.03                 |                     |          |  |  |
| 20                | 64QAM      | 50      | 0         | 21.02                | 21.12                   | 21.02                 |                     |          |  |  |
| 20                | 64QAM      | 50      | 24        | 21.12                | 21.14                   | 21.24                 | 22.5                | 3        |  |  |
| 20                | 64QAM      | 50      | 50        | 21.03                | 21.16                   | 21.16                 |                     |          |  |  |
| 20                | 64QAM      | 100     | 0         | 21.12                | 21.24                   | 21.24                 |                     |          |  |  |
| Channel           |            |         |           | 37925                | 38000                   | 38175                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)   |            |         |           | 2577.5               | 2595                    | 2612.5                |                     |          |  |  |
| 15                | QPSK       | 1       | 0         | 24.07                | 24.04                   | 24.03                 | 25.5                | 0        |  |  |
| 15                | QPSK       | 1       | 37        | 24.00                | 24.11                   | 23.98                 |                     |          |  |  |
| 15                | QPSK       | 1       | 74        | 24.06                | 24.09                   | 24.03                 |                     |          |  |  |
| 15                | QPSK       | 36      | 0         | 23.08                | 23.15                   | 23.19                 | 24.5                | 1        |  |  |
| 15                | QPSK       | 36      | 20        | 23.20                | 23.15                   | 23.13                 |                     |          |  |  |
| 15                | QPSK       | 36      | 39        | 23.07                | 23.17                   | 23.13                 |                     |          |  |  |
| 15                | QPSK       | 75      | 0         | 23.12                | 23.16                   | 23.15                 | 24.5                | 1        |  |  |
| 15                | 16QAM      | 1       | 0         | 23.21                | 23.18                   | 23.25                 |                     |          |  |  |
| 15                | 16QAM      | 1       | 37        | 23.13                | 23.26                   | 23.29                 |                     |          |  |  |
| 15                | 16QAM      | 1       | 74        | 23.19                | 23.23                   | 23.17                 | 23.5                | 2        |  |  |
| 15                | 16QAM      | 36      | 0         | 22.09                | 22.08                   | 22.11                 |                     |          |  |  |
| 15                | 16QAM      | 36      | 20        | 22.10                | 22.15                   | 22.15                 |                     |          |  |  |
| 15                | 16QAM      | 36      | 39        | 22.18                | 22.18                   | 22.13                 | 23.5                | 2        |  |  |
| 15                | 16QAM      | 75      | 0         | 22.18                | 22.13                   | 22.15                 |                     |          |  |  |
| 15                | 64QAM      | 1       | 0         | 22.19                | 22.11                   | 22.04                 |                     |          |  |  |
| 15                | 64QAM      | 1       | 37        | 22.09                | 22.14                   | 21.97                 | 22.5                | 3        |  |  |
| 15                | 64QAM      | 1       | 74        | 22.06                | 22.13                   | 22.02                 |                     |          |  |  |
| 15                | 64QAM      | 36      | 0         | 21.03                | 21.11                   | 21.14                 |                     |          |  |  |
| 15                | 64QAM      | 36      | 20        | 21.13                | 21.18                   | 21.19                 | 22.5                | 3        |  |  |
| 15                | 64QAM      | 36      | 39        | 21.23                | 21.23                   | 21.18                 |                     |          |  |  |
| 15                | 64QAM      | 75      | 0         | 21.17                | 21.14                   | 21.15                 |                     |          |  |  |
| Channel           |            |         |           | 37900                | 38000                   | 38200                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)   |            |         |           | 2675                 | 2695                    | 2615                  |                     |          |  |  |
| 10                | QPSK       | 1       | 0         | 24.05                | 24.06                   | 23.91                 | 25.5                | 0        |  |  |
| 10                | QPSK       | 1       | 25        | 23.89                | 23.95                   | 23.93                 |                     |          |  |  |
| 10                | QPSK       | 1       | 49        | 23.99                | 24.09                   | 23.98                 |                     |          |  |  |
| 10                | QPSK       | 25      | 0         | 23.12                | 23.14                   | 23.07                 | 24.5                | 1        |  |  |
| 10                | QPSK       | 25      | 12        | 23.13                | 22.99                   | 23.05                 |                     |          |  |  |
| 10                | QPSK       | 25      | 25        | 22.96                | 23.05                   | 23.01                 |                     |          |  |  |
| 10                | QPSK       | 50      | 0         | 23.10                | 23.05                   | 23.11                 | 24.5                | 1        |  |  |
| 10                | 16QAM      | 1       | 0         | 23.05                | 23.03                   | 23.18                 |                     |          |  |  |
| 10                | 16QAM      | 1       | 25        | 23.05                | 23.02                   | 23.09                 |                     |          |  |  |
| 10                | 16QAM      | 1       | 49        | 23.03                | 23.13                   | 23.11                 | 23.5                | 2        |  |  |
| 10                | 16QAM      | 25      | 0         | 22.08                | 22.11                   | 22.06                 |                     |          |  |  |
| 10                | 16QAM      | 25      | 12        | 22.12                | 22.17                   | 22.13                 |                     |          |  |  |
| 10                | 16QAM      | 25      | 25        | 22.14                | 22.21                   | 22.19                 | 23.5                | 2        |  |  |
| 10                | 16QAM      | 50      | 0         | 22.17                | 22.11                   | 22.07                 |                     |          |  |  |
| 10                | 64QAM      | 1       | 0         | 21.93                | 22.00                   | 22.04                 |                     |          |  |  |
| 10                | 64QAM      | 1       | 25        | 21.74                | 21.98                   | 21.86                 | 22.5                | 3        |  |  |
| 10                | 64QAM      | 1       | 49        | 21.92                | 22.00                   | 21.88                 |                     |          |  |  |
| 10                | 64QAM      | 25      | 0         | 21.06                | 21.06                   | 20.99                 |                     |          |  |  |
| 10                | 64QAM      | 25      | 12        | 21.09                | 21.00                   | 21.06                 | 22.5                | 3        |  |  |
| 10                | 64QAM      | 25      | 25        | 20.98                | 21.17                   | 21.05                 |                     |          |  |  |
| 10                | 64QAM      | 50      | 0         | 21.01                | 20.97                   | 21.01                 |                     |          |  |  |
| Channel           |            |         |           | 37775                | 38000                   | 38225                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)   |            |         |           | 2572.5               | 2595                    | 2617.5                |                     |          |  |  |
| 5                 | QPSK       | 1       | 0         | 23.89                | 24.07                   | 24.01                 | 25.5                | 0        |  |  |
| 5                 | QPSK       | 1       | 12        | 23.97                | 24.10                   | 24.01                 |                     |          |  |  |
| 5                 | QPSK       | 1       | 24        | 24.09                | 23.87                   | 23.93                 |                     |          |  |  |
| 5                 | QPSK       | 12      | 0         | 23.16                | 23.12                   | 23.18                 | 24.5                | 1        |  |  |
| 5                 | QPSK       | 12      | 7         | 23.13                | 23.11                   | 23.13                 |                     |          |  |  |
| 5                 | QPSK       | 12      | 13        | 23.13                | 23.14                   | 23.11                 |                     |          |  |  |
| 5                 | QPSK       | 25      | 0         | 23.12                | 23.10                   | 23.14                 | 24.5                | 1        |  |  |
| 5                 | 16QAM      | 1       | 0         | 23.03                | 22.98                   | 23.15                 |                     |          |  |  |
| 5                 | 16QAM      | 1       | 12        | 23.35                | 23.16                   | 23.01                 |                     |          |  |  |
| 5                 | 16QAM      | 1       | 24        | 23.12                | 23.17                   | 23.05                 | 23.5                | 2        |  |  |
| 5                 | 16QAM      | 12      | 0         | 22.17                | 22.04                   | 21.99                 |                     |          |  |  |
| 5                 | 16QAM      | 12      | 7         | 22.05                | 22.03                   | 22.04                 |                     |          |  |  |
| 5                 | 16QAM      | 12      | 13        | 22.04                | 22.24                   | 22.11                 | 23.5                | 2        |  |  |
| 5                 | 16QAM      | 25      | 0         | 22.12                | 22.20                   | 22.21                 |                     |          |  |  |
| 5                 | 64QAM      | 1       | 0         | 22.39                | 22.21                   | 22.13                 |                     |          |  |  |
| 5                 | 64QAM      | 1       | 12        | 22.24                | 22.29                   | 22.22                 | 23.5                | 2        |  |  |
| 5                 | 64QAM      | 1       | 24        | 22.27                | 22.10                   | 22.16                 |                     |          |  |  |
| 5                 | 64QAM      | 12      | 0         | 21.08                | 21.14                   | 21.19                 |                     |          |  |  |
| 5                 | 64QAM      | 12      | 7         | 21.16                | 21.14                   | 21.25                 | 22.5                | 3        |  |  |
| 5                 | 64QAM      | 12      | 13        | 21.06                | 21.23                   | 21.11                 |                     |          |  |  |
| 5                 | 64QAM      | 25      | 0         | 21.05                | 20.96                   | 21.15                 |                     |          |  |  |

| Band 41 (2.6G Band) Ant0 DSI1 |            |         |           |                       |                              |                               |                        |                     |          |  |
|-------------------------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                      | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Low Ch. / Freq. | Power Middle High Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                       |            |         |           | 40240                 | 40500                        | 40770                         | 41090                  |                     |          |  |
| Frequency (MHz)               |            |         |           | 2555                  | 2581                         | 2608                          | 2640                   |                     |          |  |
| 20                            | QPSK       | 1       | 0         | 24.10                 | 24.02                        | 24.17                         | 24.04                  | 25.5                | 0        |  |
| 20                            | QPSK       | 1       | 49        | 24.06                 | 24.07                        | 24.11                         | 24.12                  |                     |          |  |
| 20                            | QPSK       | 1       | 99        | 24.02                 | 23.97                        | 24.12                         | 23.98                  |                     |          |  |
| 20                            | QPSK       | 50      | 0         | 23.17                 | 23.17                        | 23.30                         | 23.23                  | 24.5                | 1        |  |
| 20                            | QPSK       | 50      | 24        | 23.21                 | 23.20                        | 23.14                         | 23.11                  |                     |          |  |
| 20                            | QPSK       | 50      | 50        | 23.26                 | 23.17                        | 23.25                         | 23.14                  |                     |          |  |
| 20                            | QPSK       | 100     | 0         | 23.29                 | 23.20                        | 23.32                         | 23.18                  | 24.5                | 1        |  |
| 20                            | 16QAM      | 1       | 0         | 23.18                 | 23.19                        | 23.34                         | 23.29                  |                     |          |  |
| 20                            | 16QAM      | 1       | 49        | 23.15                 | 23.14                        | 23.26                         | 23.18                  |                     |          |  |
| 20                            | 16QAM      | 1       | 99        | 23.18                 | 23.10                        | 23.27                         | 23.21                  | 23.5                | 2        |  |
| 20                            | 16QAM      | 50      | 0         | 22.14                 | 22.16                        | 22.26                         | 22.21                  |                     |          |  |
| 20                            | 16QAM      | 50      | 24        | 22.27                 | 22.28                        | 22.19                         | 22.17                  |                     |          |  |
| 20                            | 16QAM      | 50      | 50        | 22.34                 | 22.25                        | 22.30                         | 22.30                  | 23.5                | 2        |  |
| 20                            | 16QAM      | 100     | 0         | 22.27                 | 22.20                        | 22.29                         | 22.24                  |                     |          |  |
| 20                            | 64QAM      | 1       | 0         | 22.07                 | 22.05                        | 22.22                         | 22.16                  |                     |          |  |
| 20                            | 64QAM      | 1       | 49        | 22.11                 | 21.99                        | 22.02                         | 22.02                  | 23.5                | 2        |  |
| 20                            | 64QAM      | 1       | 99        | 22.16                 | 21.98                        | 22.13                         | 22.17                  |                     |          |  |
| 20                            | 64QAM      | 50      | 0         | 21.08                 | 20.99                        | 21.23                         | 21.13                  | 22.5                | 3        |  |
| 20                            | 64QAM      | 50      | 24        | 21.22                 | 21.21                        | 21.14                         | 21.11                  |                     |          |  |
| 20                            | 64QAM      | 50      | 50        | 21.28                 | 21.19                        | 21.25                         | 21.12                  |                     |          |  |
| 20                            | 64QAM      | 100     | 0         | 21.30                 | 21.32                        | 21.34                         | 21.17                  |                     |          |  |
| Channel                       |            |         |           | 40215                 | 40485                        | 40755                         | 41165                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)               |            |         |           | 2552.5                | 2580.5                       | 2609.5                        | 2642.5                 |                     |          |  |
| 15                            | QPSK       | 1       | 0         | 24.04                 | 23.86                        | 24.04                         | 23.96                  | 25.5                | 0        |  |
| 15                            | QPSK       | 1       | 37        | 23.93                 | 23.91                        | 23.98                         | 23.99                  |                     |          |  |
| 15                            | QPSK       | 1       | 74        | 24.07                 | 23.87                        | 24.11                         | 23.91                  |                     |          |  |
| 15                            | QPSK       | 36      | 0         | 23.01                 | 23.08                        | 23.08                         | 23.05                  | 24.5                | 1        |  |
| 15                            | QPSK       | 36      | 20        | 23.14                 | 23.05                        | 23.18                         | 22.97                  |                     |          |  |
| 15                            | QPSK       | 36      | 39        | 23.19                 | 23.07                        | 23.19                         | 23.10                  |                     |          |  |
| 15                            | QPSK       | 75      | 0         | 23.16                 | 23.16                        | 23.18                         | 23.08                  | 24.5                | 1        |  |
| 15                            | 16QAM      | 1       | 0         | 23.19                 | 23.10                        | 23.27                         | 23.19                  |                     |          |  |
| 15                            | 16QAM      | 1       | 37        | 23.08                 | 23.07                        | 23.09                         | 23.03                  |                     |          |  |
| 15                            | 16QAM      | 1       | 74        | 23.13                 | 23.03                        | 23.17                         | 23.14                  | 23.5                | 2        |  |
| 15                            | 16QAM      | 36      | 0         | 22.05                 | 21.92                        | 22.10                         | 22.06                  |                     |          |  |
| 15                            | 16QAM      | 36      | 20        | 22.16                 | 22.08                        | 22.18                         | 22.08                  |                     |          |  |
| 15                            | 16QAM      | 36      | 39        | 22.11                 | 22.10                        | 22.12                         | 22.10                  | 23.5                | 2        |  |
| 15                            | 16QAM      | 75      | 0         | 22.23                 | 22.15                        | 22.15                         | 22.03                  |                     |          |  |
| 15                            | 64QAM      | 1       | 0         | 22.15                 | 22.00                        | 22.17                         | 21.98                  |                     |          |  |
| 15                            | 64QAM      | 1       | 37        | 22.07                 | 21.94                        | 21.99                         | 21.91                  | 23.5                | 2        |  |
| 15                            | 64QAM      | 1       | 74        | 22.02                 | 21.99                        | 22.03                         | 21.92                  |                     |          |  |
| 15                            | 64QAM      | 36      | 0         | 21.08                 | 21.06                        | 21.12                         | 21.09                  | 22.5                | 3        |  |
| 15                            | 64QAM      | 36      | 20        | 21.20                 | 21.13                        | 21.22                         | 21.03                  |                     |          |  |
| 15                            | 64QAM      | 36      | 39        | 21.15                 | 21.13                        | 21.16                         | 21.15                  |                     |          |  |
| 15                            | 64QAM      | 75      | 0         | 21.13                 | 21.16                        | 21.16                         | 21.04                  |                     |          |  |
| Channel                       |            |         |           | 40190                 | 40490                        | 40790                         | 41140                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)               |            |         |           | 2550                  | 2580                         | 2610                          | 2645                   |                     |          |  |
| 10                            | QPSK       | 1       | 0         | 24.02                 | 23.90                        | 24.04                         | 23.90                  | 25.5                | 0        |  |
| 10                            | QPSK       | 1       | 25        | 24.00                 | 23.85                        | 23.99                         | 23.84                  |                     |          |  |
| 10                            | QPSK       | 1       | 49        | 24.07                 | 23.98                        | 24.03                         | 24.02                  |                     |          |  |
| 10                            | QPSK       | 25      | 0         | 23.07                 | 23.11                        | 23.06                         | 22.90                  | 24.5                | 1        |  |
| 10                            | QPSK       | 25      | 12        | 23.09                 | 23.08                        | 23.04                         | 23.07                  |                     |          |  |
| 10                            | QPSK       | 25      | 25        | 23.05                 | 23.11                        | 23.08                         | 23.10                  |                     |          |  |
| 10                            | QPSK       | 50      | 0         | 23.13                 | 23.05                        | 23.18                         | 23.10                  | 24.5                | 1        |  |
| 10                            | 16QAM      | 1       | 0         | 23.13                 | 23.01                        | 23.22                         | 23.06                  |                     |          |  |
| 10                            | 16QAM      | 1       | 25        | 23.10                 | 22.83                        | 22.87                         | 23.00                  |                     |          |  |
| 10                            | 16QAM      | 1       | 49        | 23.05                 | 22.95                        | 23.07                         | 23.05                  | 23.5                | 2        |  |
| 10                            | 16QAM      | 25      | 0         | 22.07                 | 21.92                        | 21.95                         | 22.04                  |                     |          |  |
| 10                            | 16QAM      | 25      | 12        | 22.18                 | 22.19                        | 22.11                         | 22.14                  |                     |          |  |
| 10                            | 16QAM      | 25      | 25        | 22.13                 | 22.12                        | 22.13                         | 22.17                  | 23.5                | 2        |  |
| 10                            | 16QAM      | 50      | 0         | 22.22                 | 22.25                        | 22.06                         | 22.08                  |                     |          |  |
| 10                            | 64QAM      | 1       | 0         | 21.93                 | 21.99                        | 21.91                         | 21.94                  |                     |          |  |
| 10                            | 64QAM      | 1       | 25        | 21.82                 | 21.88                        | 22.03                         | 21.78                  | 22.5                | 3        |  |
| 10                            | 64QAM      | 1       | 49        | 21.94                 | 21.98                        | 21.95                         | 21.94                  |                     |          |  |
| 10                            | 64QAM      | 25      | 0         | 21.03                 | 21.07                        | 21.08                         | 21.02                  |                     |          |  |
| 10                            | 64QAM      | 25      | 12        | 21.14                 | 21.04                        | 21.06                         | 20.98                  | 22.5                | 3        |  |
| 10                            | 64QAM      | 25      | 25        | 21.10                 | 20.99                        | 21.10                         | 21.03                  |                     |          |  |
| 10                            | 64QAM      | 50      | 0         | 20.96                 | 21.00                        | 21.10                         | 20.92                  |                     |          |  |
| Channel                       |            |         |           | 40165                 | 40485                        | 40805                         | 41165                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)               |            |         |           | 2547.5                | 2579.5                       | 2611.5                        | 2647.5                 |                     |          |  |
| 5                             | QPSK       | 1       | 0         | 23.81                 | 23.81                        | 24.11                         | 24.07                  | 25.5                | 0        |  |
| 5                             | QPSK       | 1       | 12        | 23.90                 | 24.01                        | 24.07                         | 24.02                  |                     |          |  |
| 5                             | QPSK       | 1       | 24        | 24.01                 | 24.13                        | 23.88                         | 23.90                  |                     |          |  |
| 5                             | QPSK       | 12      | 0         | 23.12                 | 23.26                        | 23.28                         | 23.22                  | 24.5                | 1        |  |
| 5                             | QPSK       | 12      | 7         | 23.32                 | 23.27                        | 23.37                         | 23.30                  |                     |          |  |
| 5                             | QPSK       | 12      | 13        | 23.26                 | 23.12                        | 23.29                         | 23.22                  |                     |          |  |
| 5                             | QPSK       | 25      | 0         | 23.24                 | 23.25                        | 23.28                         | 23.20                  | 24.5                | 1        |  |
| 5                             | 16QAM      | 1       | 0         | 23.16                 | 23.16                        | 23.25                         | 23.10                  |                     |          |  |
| 5                             | 16QAM      | 1       | 12        | 23.20                 | 23.48                        | 23.23                         | 23.50                  |                     |          |  |
| 5                             | 16QAM      | 1       | 24        | 23.32                 | 23.40                        | 23.22                         | 23.43                  | 23.5                | 2        |  |
| 5                             | 16QAM      | 12      | 0         | 22.07                 | 22.12                        | 22.22                         | 22.15                  |                     |          |  |
| 5                             | 16QAM      | 12      | 7         | 22.27                 | 22.13                        | 22.19                         | 22.23                  |                     |          |  |
| 5                             | 16QAM      | 12      | 13        | 22.30                 | 22.27                        | 22.31                         | 22.33                  | 23.5                | 2        |  |
| 5                             | 16QAM      | 25      | 0         | 22.33                 | 22.28                        | 22.37                         | 22.29                  |                     |          |  |
| 5                             | 64QAM      | 1       | 0         | 22.01                 | 22.06                        | 22.26                         | 22.19                  |                     |          |  |
| 5                             | 64QAM      | 1       | 12        | 22.18                 | 22.18                        | 22.22                         | 22.23                  | 23.5                | 2        |  |
| 5                             | 64QAM      | 1       | 24        | 22.33                 | 22.17                        | 22.35                         | 22.17                  |                     |          |  |
| 5                             | 64QAM      | 12      | 0         | 21.27                 | 21.21                        | 21.30                         | 21.23                  | 22.5                | 3        |  |
| 5                             | 64QAM      | 12      | 7         | 21.29                 | 21.23                        | 21.41                         | 21.33                  |                     |          |  |
| 5                             | 64QAM      | 12      | 13        | 21.30                 | 21.18                        | 21.31                         | 21.24                  |                     |          |  |
| 5                             | 64QAM      | 25      | 0         | 21.28                 | 21.22                        | 21.30                         | 21.14                  |                     |          |  |

|                 |  | GSM850 Ant4 DS11          |       |       |               |                           |       |       |               |
|-----------------|--|---------------------------|-------|-------|---------------|---------------------------|-------|-------|---------------|
| GSM850          |  | Burst-Average Power (dBm) |       |       | Tune-up Limit | Frame-Average Power (dBm) |       |       | Tune-up Limit |
| TX Channel      |  | 128                       | 189   | 251   | (dBm)         | 128                       | 189   | 251   | (dBm)         |
| Frequency (MHz) |  | 824.2                     | 836.4 | 848.8 | (dBm)         | 824.2                     | 836.4 | 848.8 | (dBm)         |
| GSM 1 Tx slot   |  | 32.14                     | 32.27 | 32.11 | 33.50         | 23.14                     | 23.27 | 23.11 | 24.50         |
| GPRS 1 Tx slot  |  | 32.19                     | 32.24 | 31.97 | 33.50         | 23.19                     | 23.24 | 22.97 | 24.50         |
| GPRS 2 Tx slots |  | 29.66                     | 29.59 | 29.46 | 30.50         | 23.66                     | 23.59 | 23.46 | 24.50         |
| GPRS 3 Tx slots |  | 27.64                     | 27.44 | 27.85 | 28.50         | 23.38                     | 23.18 | 23.59 | 24.24         |
| GPRS 4 Tx slots |  | 26.48                     | 26.54 | 26.45 | 27.50         | 23.48                     | 23.54 | 23.45 | 24.50         |
| EDGE 1 Tx slot  |  | 26.11                     | 26.00 | 25.97 | 27.50         | 17.11                     | 17.00 | 16.97 | 18.50         |
| EDGE 2 Tx slots |  | 23.36                     | 23.54 | 23.16 | 24.50         | 17.36                     | 17.54 | 17.16 | 18.50         |
| EDGE 3 Tx slots |  | 21.47                     | 21.55 | 21.29 | 23.00         | 17.21                     | 17.29 | 17.03 | 18.74         |
| EDGE 4 Tx slots |  | 20.09                     | 20.40 | 20.13 | 21.50         | 17.09                     | 17.40 | 17.13 | 18.50         |

|                 |  | GSM1900 Ant4 DS11         |       |        |               |                           |       |        |
|-----------------|--|---------------------------|-------|--------|---------------|---------------------------|-------|--------|
| GSM1900         |  | Burst Average Power (dBm) |       |        | Tune-up Limit | Frame-Average Power (dBm) |       |        |
| TX Channel      |  | 512                       | 661   | 810    | (dBm)         | 512                       | 661   | 810    |
| Frequency (MHz) |  | 1850.2                    | 1880  | 1909.8 | (dBm)         | 1850.2                    | 1880  | 1909.8 |
| GSM 1 Tx slot   |  | 24.76                     | 24.65 | 24.78  | 26.50         | 15.76                     | 15.65 | 15.78  |
| GPRS 1 Tx slot  |  | 24.83                     | 24.69 | 24.88  | 26.50         | 15.83                     | 15.69 | 15.88  |
| GPRS 2 Tx slots |  | 24.53                     | 24.43 | 24.35  | 26.00         | 15.53                     | 15.43 | 15.35  |
| GPRS 3 Tx slots |  | 24.31                     | 24.38 | 24.04  | 25.50         | 20.05                     | 20.12 | 19.78  |
| GPRS 4 Tx slots |  | 22.87                     | 23.10 | 22.81  | 24.50         | 19.87                     | 20.10 | 19.81  |
| EDGE 1 Tx slot  |  | 24.65                     | 24.83 | 24.77  | 26.50         | 15.65                     | 15.83 | 15.77  |
| EDGE 2 Tx slots |  | 22.13                     | 22.28 | 22.03  | 24.00         | 16.13                     | 16.28 | 16.03  |
| EDGE 3 Tx slots |  | 20.12                     | 20.23 | 20.11  | 21.50         | 15.86                     | 15.97 | 15.85  |
| EDGE 4 Tx slots |  | 19.47                     | 19.75 | 19.52  | 20.50         | 16.47                     | 16.75 | 16.52  |

| WCDMA II Ant4 DS11 |                    |          |        |        | WCDMA IV Ant4 DS11  |          |       |       |                     | WCDMA V Ant4 DS11 |       |       |                     |  |
|--------------------|--------------------|----------|--------|--------|---------------------|----------|-------|-------|---------------------|-------------------|-------|-------|---------------------|--|
| 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       | 19.32    | 19.43  | 19.14  | 20.50               | 20.68    | 20.82 | 20.84 | 21.50               | 23.21             | 23.18 | 23.00 | 24.50               |  |
| 3GPP Rel 99        | RMC 12.2Kbps       | 19.51    | 19.57  | 19.42  | 20.50               | 20.71    | 20.90 | 20.88 | 21.50               | 23.19             | 23.27 | 23.16 | 24.50               |  |
| 3GPP Rel 6         | HSUPA Subtest-1    | 18.33    | 18.46  | 18.27  | 19.50               | 19.91    | 19.92 | 20.01 | 20.50               | 22.04             | 22.24 | 22.11 | 23.50               |  |
| 3GPP Rel 6         | HSUPA Subtest-2    | 18.37    | 18.48  | 18.26  | 19.50               | 19.78    | 19.86 | 19.83 | 20.50               | 22.22             | 22.24 | 22.23 | 23.50               |  |
| 3GPP Rel 6         | HSUPA Subtest-3    | 17.73    | 17.94  | 17.61  | 19.00               | 19.33    | 19.45 | 19.53 | 20.00               | 21.51             | 21.74 | 21.65 | 23.00               |  |
| 3GPP Rel 6         | HSUPA Subtest-4    | 17.75    | 17.90  | 17.76  | 19.00               | 19.30    | 19.43 | 19.49 | 20.00               | 21.70             | 21.65 | 21.77 | 23.00               |  |
| 3GPP Rel 8         | DC-HSDPA Subtest-1 | 18.43    | 18.39  | 18.22  | 19.50               | 19.73    | 19.79 | 20.02 | 20.50               | 22.05             | 22.08 | 22.30 | 23.50               |  |
| 3GPP Rel 8         | DC-HSDPA Subtest-2 | 18.26    | 18.42  | 18.26  | 19.50               | 19.69    | 19.84 | 19.74 | 20.50               | 22.31             | 22.19 | 22.10 | 23.50               |  |
| 3GPP Rel 8         | DC-HSDPA Subtest-3 | 17.73    | 17.84  | 17.54  | 19.00               | 19.13    | 19.35 | 19.42 | 20.00               | 21.48             | 21.76 | 21.62 | 23.00               |  |
| 3GPP Rel 8         | DC-HSDPA Subtest-4 | 17.97    | 18.02  | 17.67  | 19.00               | 19.08    | 19.21 | 19.47 | 20.00               | 21.74             | 21.65 | 21.61 | 23.00               |  |
| 3GPP Rel 6         | HSUPA Subtest-1    | 18.33    | 18.30  | 18.24  | 19.50               | 19.78    | 19.90 | 20.00 | 20.50               | 22.16             | 22.23 | 22.07 | 23.50               |  |
| 3GPP Rel 6         | HSUPA Subtest-2    | 16.14    | 16.35  | 16.20  | 17.50               | 17.80    | 17.91 | 17.97 | 18.50               | 20.10             | 20.04 | 19.96 | 21.50               |  |
| 3GPP Rel 6         | HSUPA Subtest-3    | 17.35    | 17.29  | 17.15  | 18.50               | 18.78    | 18.88 | 18.98 | 19.50               | 21.08             | 21.17 | 21.08 | 22.50               |  |
| 3GPP Rel 6         | HSUPA Subtest-4    | 16.37    | 16.37  | 16.17  | 17.50               | 17.78    | 17.87 | 17.99 | 18.50               | 20.13             | 20.06 | 20.23 | 21.50               |  |
| 3GPP Rel 6         | HSUPA Subtest-5    | 18.27    | 18.22  | 18.10  | 19.50               | 19.70    | 19.90 | 20.00 | 20.50               | 22.06             | 22.09 | 22.17 | 23.50               |  |



| Band 4 Ant DSH               |            |         |           |                     |                        |                      |                     |          |  |  |
|------------------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|--|
| lBW (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 1717.5 1732.5 1747.5 |            |         |           |                     |                        |                      |                     |          |  |  |
| 20                           | QPSK       | 1       | 0         | 18.23               | 18.46                  | 18.31                |                     |          |  |  |
| 20                           | QPSK       | 1       | 49        | 18.27               | 18.41                  | 18.32                | 19.5                | 0        |  |  |
| 20                           | QPSK       | 1       | 99        | 18.12               | 18.15                  | 18.11                |                     |          |  |  |
| 20                           | QPSK       | 50      | 0         | 18.21               | 18.39                  | 18.27                |                     |          |  |  |
| 20                           | QPSK       | 50      | 24        | 18.26               | 18.33                  | 18.23                | 19.5                | 0        |  |  |
| 20                           | QPSK       | 50      | 24        | 18.26               | 18.33                  | 18.23                |                     |          |  |  |
| 20                           | QPSK       | 100     | 0         | 18.15               | 18.26                  | 18.25                |                     |          |  |  |
| 20                           | 16QAM      | 1       | 0         | 18.30               | 18.35                  | 18.30                |                     |          |  |  |
| 20                           | 16QAM      | 1       | 49        | 18.38               | 18.34                  | 18.25                | 19.5                | 0        |  |  |
| 20                           | 16QAM      | 1       | 99        | 18.31               | 18.35                  | 18.43                |                     |          |  |  |
| 20                           | 16QAM      | 50      | 0         | 18.17               | 18.35                  | 18.27                |                     |          |  |  |
| 20                           | 16QAM      | 50      | 24        | 18.29               | 18.37                  | 18.31                | 19.5                | 0        |  |  |
| 20                           | 16QAM      | 50      | 50        | 18.23               | 18.34                  | 18.35                |                     |          |  |  |
| 20                           | 16QAM      | 100     | 0         | 18.43               | 18.33                  | 18.29                |                     |          |  |  |
| 20                           | 64QAM      | 1       | 0         | 18.21               | 18.43                  | 18.24                |                     |          |  |  |
| 20                           | 64QAM      | 1       | 49        | 18.08               | 18.33                  | 18.29                | 19.5                | 0        |  |  |
| 20                           | 64QAM      | 1       | 99        | 18.26               | 18.31                  | 18.25                |                     |          |  |  |
| 20                           | 64QAM      | 50      | 0         | 18.26               | 18.15                  | 18.25                |                     |          |  |  |
| 20                           | 64QAM      | 50      | 24        | 18.18               | 18.21                  | 18.25                | 19.5                | 0        |  |  |
| 20                           | 64QAM      | 50      | 50        | 18.20               | 18.26                  | 18.30                |                     |          |  |  |
| 20                           | 64QAM      | 100     | 0         | 18.23               | 18.14                  | 18.23                |                     |          |  |  |
| Channel 2002.5 2017.5 2032.5 |            |         |           |                     |                        |                      |                     |          |  |  |
| 15                           | QPSK       | 1       | 0         | 18.22               | 18.28                  | 18.26                | Tune-up limit (dBm) | MPR (dB) |  |  |
| 15                           | QPSK       | 1       | 37        | 18.23               | 18.21                  | 18.34                | 19.5                | 0        |  |  |
| 15                           | QPSK       | 1       | 74        | 18.08               | 17.98                  | 18.03                |                     |          |  |  |
| 15                           | QPSK       | 36      | 0         | 18.01               | 18.34                  | 18.05                |                     |          |  |  |
| 15                           | QPSK       | 36      | 20        | 18.06               | 18.33                  | 18.16                | 19.5                | 0        |  |  |
| 15                           | QPSK       | 36      | 39        | 18.29               | 18.32                  | 18.19                |                     |          |  |  |
| 15                           | QPSK       | 75      | 0         | 17.97               | 18.26                  | 18.09                |                     |          |  |  |
| 15                           | 16QAM      | 1       | 0         | 18.27               | 18.31                  | 18.13                |                     |          |  |  |
| 15                           | 16QAM      | 1       | 37        | 18.19               | 18.24                  | 18.08                | 19.5                | 0        |  |  |
| 15                           | 16QAM      | 1       | 74        | 18.17               | 18.22                  | 18.16                |                     |          |  |  |
| 15                           | 16QAM      | 36      | 0         | 18.14               | 18.33                  | 18.29                |                     |          |  |  |
| 15                           | 16QAM      | 36      | 20        | 18.30               | 18.29                  | 18.12                | 19.5                | 0        |  |  |
| 15                           | 16QAM      | 36      | 39        | 18.16               | 18.18                  | 18.15                |                     |          |  |  |
| 15                           | 16QAM      | 75      | 0         | 18.19               | 18.21                  | 18.13                |                     |          |  |  |
| 15                           | 64QAM      | 1       | 0         | 18.05               | 18.35                  | 18.08                |                     |          |  |  |
| 15                           | 64QAM      | 1       | 37        | 18.03               | 18.28                  | 18.14                | 19.5                | 0        |  |  |
| 15                           | 64QAM      | 1       | 74        | 18.14               | 18.21                  | 18.27                |                     |          |  |  |
| 15                           | 64QAM      | 36      | 0         | 18.10               | 18.13                  | 18.22                |                     |          |  |  |
| 15                           | 64QAM      | 36      | 20        | 18.03               | 18.04                  | 18.19                | 19.5                | 0        |  |  |
| 15                           | 64QAM      | 36      | 39        | 18.03               | 18.04                  | 18.21                |                     |          |  |  |
| 15                           | 64QAM      | 75      | 0         | 18.11               | 18.10                  | 18.20                |                     |          |  |  |
| Channel 2000.0 2017.5 2035.0 |            |         |           |                     |                        |                      |                     |          |  |  |
| 10                           | QPSK       | 1       | 0         | 18.09               | 18.36                  | 18.10                | Tune-up limit (dBm) | MPR (dB) |  |  |
| 10                           | QPSK       | 1       | 25        | 18.28               | 18.31                  | 18.25                | 19.5                | 0        |  |  |
| 10                           | QPSK       | 1       | 49        | 17.96               | 18.26                  | 18.01                |                     |          |  |  |
| 10                           | QPSK       | 25      | 0         | 18.15               | 18.32                  | 18.15                |                     |          |  |  |
| 10                           | QPSK       | 25      | 12        | 18.31               | 18.27                  | 18.16                | 19.5                | 0        |  |  |
| 10                           | QPSK       | 25      | 25        | 18.24               | 18.18                  | 18.28                |                     |          |  |  |
| 10                           | QPSK       | 50      | 0         | 18.02               | 18.21                  | 18.06                |                     |          |  |  |
| 10                           | 16QAM      | 1       | 0         | 18.19               | 18.33                  | 18.29                | 19.5                | 0        |  |  |
| 10                           | 16QAM      | 1       | 25        | 18.29               | 18.25                  | 18.17                |                     |          |  |  |
| 10                           | 16QAM      | 1       | 49        | 18.23               | 18.22                  | 18.23                |                     |          |  |  |
| 10                           | 16QAM      | 25      | 0         | 18.09               | 18.13                  | 18.07                |                     |          |  |  |
| 10                           | 16QAM      | 25      | 12        | 18.18               | 18.27                  | 18.14                | 19.5                | 0        |  |  |
| 10                           | 16QAM      | 25      | 25        | 18.05               | 18.34                  | 18.31                |                     |          |  |  |
| 10                           | 16QAM      | 50      | 0         | 18.30               | 18.12                  | 18.32                |                     |          |  |  |
| 10                           | 64QAM      | 1       | 0         | 18.16               | 18.12                  | 18.04                | 19.5                | 0        |  |  |
| 10                           | 64QAM      | 1       | 25        | 17.85               | 18.25                  | 18.24                |                     |          |  |  |
| 10                           | 64QAM      | 1       | 49        | 18.18               | 18.22                  | 18.20                |                     |          |  |  |
| 10                           | 64QAM      | 25      | 0         | 18.10               | 18.15                  | 18.16                |                     |          |  |  |
| 10                           | 64QAM      | 25      | 12        | 18.08               | 18.12                  | 18.09                | 19.5                | 0        |  |  |
| 10                           | 64QAM      | 25      | 25        | 17.98               | 18.06                  | 18.24                |                     |          |  |  |
| 10                           | 64QAM      | 50      | 0         | 18.23               | 17.98                  | 18.25                |                     |          |  |  |
| Channel 1772.5 1732.5 1752.5 |            |         |           |                     |                        |                      |                     |          |  |  |
| 5                            | QPSK       | 1       | 0         | 18.13               | 18.30                  | 18.22                | Tune-up limit (dBm) | MPR (dB) |  |  |
| 5                            | QPSK       | 1       | 12        | 18.10               | 18.30                  | 18.26                | 19.5                | 0        |  |  |
| 5                            | QPSK       | 1       | 24        | 17.87               | 18.07                  | 17.91                |                     |          |  |  |
| 5                            | QPSK       | 12      | 0         | 18.24               | 18.34                  | 18.04                |                     |          |  |  |
| 5                            | QPSK       | 12      | 7         | 18.17               | 18.33                  | 18.01                | 19.5                | 0        |  |  |
| 5                            | QPSK       | 12      | 13        | 18.23               | 18.30                  | 18.26                |                     |          |  |  |
| 5                            | QPSK       | 25      | 0         | 17.96               | 18.08                  | 18.18                |                     |          |  |  |
| 5                            | 16QAM      | 1       | 0         | 18.29               | 18.23                  | 18.28                |                     |          |  |  |
| 5                            | 16QAM      | 1       | 12        | 18.28               | 18.35                  | 18.18                | 19.5                | 0        |  |  |
| 5                            | 16QAM      | 1       | 24        | 18.14               | 18.31                  | 18.21                |                     |          |  |  |
| 5                            | 16QAM      | 12      | 0         | 17.96               | 18.13                  | 18.24                |                     |          |  |  |
| 5                            | 16QAM      | 12      | 7         | 18.22               | 18.21                  | 18.15                | 19.5                | 0        |  |  |
| 5                            | 16QAM      | 12      | 13        | 18.16               | 18.17                  | 18.20                |                     |          |  |  |
| 5                            | 16QAM      | 25      | 0         | 18.33               | 18.16                  | 18.07                |                     |          |  |  |
| 5                            | 64QAM      | 1       | 0         | 18.11               | 18.28                  | 18.13                | 19.5                | 0        |  |  |
| 5                            | 64QAM      | 1       | 12        | 17.91               | 18.30                  | 18.14                |                     |          |  |  |
| 5                            | 64QAM      | 1       | 24        | 18.12               | 18.17                  | 18.13                |                     |          |  |  |
| 5                            | 64QAM      | 12      | 0         | 18.08               | 17.96                  | 18.27                |                     |          |  |  |
| 5                            | 64QAM      | 12      | 7         | 18.16               | 18.24                  | 17.97                | 19.5                | 0        |  |  |
| 5                            | 64QAM      | 12      | 13        | 18.19               | 18.25                  | 18.33                |                     |          |  |  |
| 5                            | 64QAM      | 25      | 0         | 18.25               | 17.99                  | 18.16                |                     |          |  |  |
| Channel 1771.5 1732.5 1753.5 |            |         |           |                     |                        |                      |                     |          |  |  |
| 3                            | QPSK       | 1       | 0         | 18.24               | 18.26                  | 18.30                | Tune-up limit (dBm) | MPR (dB) |  |  |
| 3                            | QPSK       | 1       | 8         | 18.13               | 18.29                  | 18.18                | 19.5                | 0        |  |  |
| 3                            | QPSK       | 1       | 14        | 18.03               | 18.11                  | 17.91                |                     |          |  |  |
| 3                            | QPSK       | 8       | 0         | 18.12               | 18.27                  | 18.14                |                     |          |  |  |
| 3                            | QPSK       | 8       | 4         | 18.31               | 18.34                  | 18.17                | 19.5                | 0        |  |  |
| 3                            | QPSK       | 8       | 7         | 18.27               | 18.30                  | 18.17                |                     |          |  |  |
| 3                            | QPSK       | 15      | 0         | 17.94               | 18.08                  | 18.04                |                     |          |  |  |
| 3                            | 16QAM      | 1       | 0         | 18.17               | 18.24                  | 18.18                |                     |          |  |  |
| 3                            | 16QAM      | 1       | 8         | 18.17               | 18.13                  | 18.03                | 19.5                | 0        |  |  |
| 3                            | 16QAM      | 1       | 14        | 18.18               | 18.25                  | 18.11                |                     |          |  |  |
| 3                            | 16QAM      | 8       | 0         | 17.94               | 18.11                  | 18.04                | 19.5                | 0        |  |  |
| 3                            | 16QAM      | 8       | 4         | 18.15               | 18.24                  | 18.20                |                     |          |  |  |
| 3                            | 16QAM      | 8       | 7         | 18.22               | 18.24                  | 18.20                |                     |          |  |  |
| 3                            | 16QAM      | 15      | 0         | 18.13               | 18.11                  | 18.29                |                     |          |  |  |
| 3                            | 64QAM      | 1       | 0         | 18.02               | 18.22                  | 18.18                | 19.5                | 0        |  |  |
| 3                            | 64QAM      | 1       | 8         | 18.21               | 18.35                  | 18.25                |                     |          |  |  |
| 3                            | 64QAM      | 1       | 14        | 18.27               | 18.37                  | 18.03                |                     |          |  |  |
| 3                            | 64QAM      | 8       | 0         | 18.14               | 18.00                  | 18.28                | 19.5                | 0        |  |  |
| 3                            | 64QAM      | 8       | 4         | 18.20               | 18.16                  | 18.10                |                     |          |  |  |
| 3                            | 64QAM      | 8       | 7         | 18.05               | 18.16                  | 18.21                | 19.5                | 0        |  |  |
| 3                            | 64QAM      | 15      | 0         | 18.09               | 18.17                  | 18.08                |                     |          |  |  |
| Channel 1965.7 2017.5 2039.3 |            |         |           |                     |                        |                      |                     |          |  |  |
| 1.4                          | QPSK       | 1       | 0         | 18.17               | 18.28                  | 18.31                | Tune-up limit (dBm) | MPR (dB) |  |  |
| 1.4                          | QPSK       | 1       | 3         | 18.07               | 18.35                  | 18.24                | 19.5                | 0        |  |  |
| 1.4                          | QPSK       | 1       | 5         | 17.99               | 18.10                  | 17.90                |                     |          |  |  |
| 1.4                          | QPSK       | 3       | 0         | 18.07               | 18.17                  | 18.29                |                     |          |  |  |
| 1.4                          | QPSK       | 3       | 1         | 18.13               | 18.32                  | 18.00                | 19.5                | 0        |  |  |
| 1.4                          | QPSK       | 3       | 3         | 18.30               | 18.23                  | 18.14                |                     |          |  |  |
| 1.4                          | QPSK       | 6       | 0         | 18.06               | 18.07                  | 18.12                |                     |          |  |  |
| 1.4                          | 16QAM      | 1       | 0         | 18.25               | 18.23                  | 18.35                | 19.5                | 0        |  |  |
| 1.4                          | 16QAM      | 1       | 3         | 18.19               | 18.16                  | 18.13                |                     |          |  |  |
| 1.4                          | 16QAM      | 1       | 5         | 18.13               | 18.31                  | 18.31                |                     |          |  |  |
| 1.4                          | 16QAM      | 3       | 0         | 18.16               | 18.32                  | 18.09                | 19.5                | 0        |  |  |
| 1.4                          | 16QAM      | 3       | 1         | 18.22               | 18.18                  | 18.23                |                     |          |  |  |
| 1.4                          | 16QAM      | 3       | 3         | 18.06               | 18.13                  | 18.26                |                     |          |  |  |
| 1.4                          | 16QAM      | 6       | 0         | 18.32               | 18.23                  | 18.26                | 19.5                | 0        |  |  |
| 1.4                          | 64QAM      | 1       | 0         | 18.10               | 18.33                  | 18.04                |                     |          |  |  |
| 1.4                          | 64QAM      | 1       | 3         | 18.03               | 18.16                  | 18.18                | 19.5                | 0        |  |  |
| 1.4                          | 64QAM      | 1       | 5         | 18.18               | 18.10                  | 18.27                |                     |          |  |  |
| 1.4                          | 64QAM      | 3       | 0         | 18.09               | 17.97                  | 18.10                | 19.5                | 0        |  |  |
| 1.4                          | 64QAM      | 3       | 1         | 18.07               | 18.17                  | 18.10                |                     |          |  |  |
| 1.4                          | 64QAM      | 3       | 3         | 18.10               | 18.10                  | 18.25                |                     |          |  |  |
| 1.4                          | 64QAM      | 6       | 0         | 18.08               | 17.94                  | 18.15                | 19.5                | 0        |  |  |

| Band 5 Antt DSS1 |            |         |           |                     |                        |                      |                     |          |       |   |
|------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|-------|---|
| 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          |            |         |           |                     |                        |                      |                     |          |       |   |
| Frequency (MHz)  |            |         |           |                     |                        |                      | 826.5               | 836.5    | 844   |   |
| 10               | QPSK       | 1       | 0         | 24.04               | 24.41                  | 24.08                |                     |          |       |   |
| 10               | QPSK       | 1       | 25        | 24.14               | 24.18                  | 24.29                | 25.5                | 0        |       |   |
| 10               | QPSK       | 1       | 49        | 24.07               | 24.02                  | 24.06                |                     |          |       |   |
| 10               | QPSK       | 25      | 0         | 23.22               | 23.36                  | 23.19                |                     |          |       |   |
| 10               | QPSK       | 25      | 12        | 23.20               | 23.34                  | 23.30                |                     |          | 24.5  | 1 |
| 10               | QPSK       | 25      | 12        | 23.33               | 23.35                  | 23.29                |                     |          |       |   |
| 10               | QPSK       | 50      | 0         | 23.32               | 23.35                  | 23.31                |                     |          |       |   |
| 10               | 16QAM      | 1       | 0         | 23.62               | 23.42                  | 23.60                |                     |          |       |   |
| 10               | 16QAM      | 1       | 25        | 23.41               | 23.43                  | 23.65                | 24.5                | 1        |       |   |
| 10               | 16QAM      | 1       | 49        | 23.52               | 23.76                  | 23.64                |                     |          |       |   |
| 10               | 16QAM      | 25      | 0         | 22.28               | 22.26                  | 22.15                |                     |          |       |   |
| 10               | 16QAM      | 25      | 12        | 22.28               | 22.26                  | 22.18                |                     |          | 23.5  | 2 |
| 10               | 16QAM      | 25      | 26        | 22.36               | 22.12                  | 22.13                |                     |          |       |   |
| 10               | 16QAM      | 50      | 0         | 22.23               | 22.27                  | 22.14                |                     |          |       |   |
| 10               | 64QAM      | 1       | 0         | 22.33               | 22.34                  | 22.30                |                     |          |       |   |
| 10               | 64QAM      | 1       | 25        | 22.43               | 22.06                  | 22.28                | 23.5                | 2        |       |   |
| 10               | 64QAM      | 1       | 49        | 22.41               | 22.39                  | 22.42                |                     |          |       |   |
| 10               | 64QAM      | 25      | 0         | 21.24               | 21.27                  | 21.27                |                     |          |       |   |
| 10               | 64QAM      | 25      | 12        | 21.33               | 21.34                  | 21.28                |                     |          | 22.5  | 3 |
| 10               | 64QAM      | 25      | 25        | 21.24               | 21.29                  | 21.19                |                     |          |       |   |
| 10               | 64QAM      | 50      | 0         | 21.21               | 21.25                  | 21.25                |                     |          |       |   |
| Channel          |            |         |           |                     |                        |                      | 20425               | 20525    | 20625 |   |
| Frequency (MHz)  |            |         |           |                     |                        |                      | 826.5               | 836.5    | 846.5 |   |
| 5                | QPSK       | 1       | 0         | 24.33               | 24.39                  | 24.20                |                     |          |       |   |
| 5                | QPSK       | 1       | 24        | 24.33               | 24.21                  | 24.28                | 25.5                | 0        |       |   |
| 5                | QPSK       | 1       | 24        | 24.37               | 24.26                  | 24.24                |                     |          |       |   |
| 5                | QPSK       | 12      | 0         | 23.46               | 23.33                  | 23.31                |                     |          |       |   |
| 5                | QPSK       | 12      | 7         | 23.51               | 23.37                  | 23.22                | 24.5                | 1        |       |   |
| 5                | QPSK       | 12      | 13        | 23.49               | 23.29                  | 23.42                |                     |          |       |   |
| 5                | QPSK       | 25      | 0         | 23.40               | 23.31                  | 23.29                |                     |          |       |   |
| 5                | 16QAM      | 1       | 0         | 23.64               | 23.65                  | 23.77                |                     |          | 24.5  | 1 |
| 5                | 16QAM      | 1       | 24        | 23.61               | 23.66                  | 23.55                |                     |          |       |   |
| 5                | 16QAM      | 12      | 0         | 22.50               | 22.31                  | 22.33                |                     |          |       |   |
| 5                | 16QAM      | 12      | 7         | 22.43               | 22.41                  | 22.32                | 23.5                | 2        |       |   |
| 5                | 16QAM      | 12      | 13        | 22.45               | 22.38                  | 22.43                |                     |          |       |   |
| 5                | 16QAM      | 25      | 0         | 22.36               | 22.36                  | 22.15                |                     |          |       |   |
| 5                | 64QAM      | 1       | 0         | 22.56               | 22.35                  | 22.23                |                     |          |       |   |
| 5                | 64QAM      | 1       | 12        | 22.46               | 22.49                  | 22.44                | 23.5                | 2        |       |   |
| 5                | 64QAM      | 1       | 24        | 22.55               | 22.54                  | 22.67                |                     |          |       |   |
| 5                | 64QAM      | 12      | 0         | 21.55               | 21.58                  | 21.27                |                     |          |       |   |
| 5                | 64QAM      | 12      | 7         | 21.35               | 21.44                  | 21.17                | 22.5                | 3        |       |   |
| 5                | 64QAM      | 12      | 13        | 21.24               | 21.39                  | 21.16                |                     |          |       |   |
| 5                | 64QAM      | 25      | 0         | 21.31               | 21.38                  | 21.29                |                     |          |       |   |
| Channel          |            |         |           |                     |                        |                      | 20415               | 20525    | 20635 |   |
| Frequency (MHz)  |            |         |           |                     |                        |                      | 826.5               | 836.5    | 847.5 |   |
| 3                | QPSK       | 1       | 0         | 24.20               | 24.24                  | 24.29                |                     |          |       |   |
| 3                | QPSK       | 1       | 8         | 24.27               | 24.24                  | 24.09                | 25.5                | 0        |       |   |
| 3                | QPSK       | 1       | 14        | 24.40               | 24.33                  | 24.16                |                     |          |       |   |
| 3                | QPSK       | 8       | 0         | 23.31               | 23.29                  | 23.38                |                     |          |       |   |
| 3                | QPSK       | 8       | 4         | 23.47               | 23.37                  | 23.32                | 24.5                | 1        |       |   |
| 3                | QPSK       | 16      | 0         | 23.42               | 23.35                  | 23.38                |                     |          |       |   |
| 3                | 16QAM      | 1       | 0         | 23.70               | 23.62                  | 23.76                |                     |          |       |   |
| 3                | 16QAM      | 1       | 8         | 23.77               | 23.54                  | 23.61                | 24.5                | 1        |       |   |
| 3                | 16QAM      | 1       | 14        | 23.74               | 23.55                  | 23.53                |                     |          |       |   |
| 3                | 16QAM      | 8       | 0         | 22.38               | 22.31                  | 22.33                |                     |          |       |   |
| 3                | 16QAM      | 8       | 4         | 22.47               | 22.38                  | 22.33                | 23.5                | 2        |       |   |
| 3                | 16QAM      | 8       | 7         | 22.44               | 22.22                  | 22.40                |                     |          |       |   |
| 3                | 16QAM      | 15      | 0         | 22.30               | 22.25                  | 22.42                |                     |          |       |   |
| 3                | 64QAM      | 1       | 0         | 22.36               | 22.29                  | 22.19                | 23.5                | 2        |       |   |
| 3                | 64QAM      | 1       | 5         | 22.42               | 22.25                  | 22.24                |                     |          |       |   |
| 3                | 64QAM      | 1       | 14        | 22.47               | 22.22                  | 22.45                |                     |          |       |   |
| 3                | 64QAM      | 8       | 0         | 21.40               | 21.41                  | 21.43                |                     |          |       |   |
| 3                | 64QAM      | 8       | 4         | 21.27               | 21.31                  | 21.30                | 22.5                | 3        |       |   |
| 3                | 64QAM      | 8       | 7         | 21.19               | 21.29                  | 21.21                |                     |          |       |   |
| 3                | 64QAM      | 15      | 0         | 21.43               | 21.44                  | 21.38                |                     |          |       |   |
| Channel          |            |         |           |                     |                        |                      | 20407               | 20525    | 20635 |   |
| Frequency (MHz)  |            |         |           |                     |                        |                      | 826.5               | 836.5    | 848.3 |   |
| 1.4              | QPSK       | 1       | 0         | 24.16               | 24.11                  | 24.12                |                     |          |       |   |
| 1.4              | QPSK       | 1       | 3         | 24.38               | 24.03                  | 24.09                | 25.5                | 0        |       |   |
| 1.4              | QPSK       | 1       | 5         | 24.16               | 24.01                  | 24.16                |                     |          |       |   |
| 1.4              | QPSK       | 3       | 0         | 24.14               | 24.13                  | 24.14                |                     |          |       |   |
| 1.4              | QPSK       | 3       | 1         | 24.32               | 24.09                  | 24.20                |                     |          |       |   |
| 1.4              | QPSK       | 3       | 3         | 24.22               | 24.07                  | 24.25                |                     |          | 24.5  | 1 |
| 1.4              | QPSK       | 6       | 0         | 23.34               | 23.18                  | 23.22                |                     |          |       |   |
| 1.4              | 16QAM      | 1       | 0         | 23.34               | 23.27                  | 23.13                |                     |          |       |   |
| 1.4              | 16QAM      | 1       | 3         | 23.42               | 23.36                  | 23.47                |                     |          |       |   |
| 1.4              | 16QAM      | 1       | 5         | 23.40               | 23.43                  | 23.12                | 24.5                | 1        |       |   |
| 1.4              | 16QAM      | 3       | 0         | 23.36               | 23.16                  | 23.18                |                     |          |       |   |
| 1.4              | 16QAM      | 3       | 1         | 23.34               | 23.18                  | 23.29                |                     |          |       |   |
| 1.4              | 16QAM      | 3       | 3         | 23.19               | 23.17                  | 23.10                |                     |          |       |   |
| 1.4              | 16QAM      | 6       | 0         | 22.53               | 22.21                  | 22.23                | 23.5                | 2        |       |   |
| 1.4              | 64QAM      | 1       | 0         | 22.30               | 22.20                  | 22.38                |                     |          |       |   |
| 1.4              | 64QAM      | 1       | 3         | 22.33               | 22.27                  | 22.11                |                     |          |       |   |
| 1.4              | 64QAM      | 1       | 5         | 22.13               | 22.25                  | 22.29                | 23.5                | 2        |       |   |
| 1.4              | 64QAM      | 3       | 0         | 22.42               | 22.23                  | 22.21                |                     |          |       |   |
| 1.4              | 64QAM      | 3       | 1         | 22.10               | 22.25                  | 22.35                |                     |          |       |   |
| 1.4              | 64QAM      | 3       | 3         | 22.35               | 22.19                  | 22.08                |                     |          |       |   |
| 1.4              | 64QAM      | 6       | 0         | 21.28               | 21.17                  | 21.36                | 22.5                | 3        |       |   |

| Band 7 Ant4 DS11 |            |         |           |                       |                          |                        |                     |          |  |  |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dbm) | MPR (db) |  |  |
| Channel          |            |         |           | 20650                 | 21100                    | 21350                  |                     |          |  |  |
| Frequency (MHz)  |            |         |           | 2507.5                | 2535                     | 2560                   |                     |          |  |  |
| 20               | QPSK       | 1       | 0         | 18.23                 | 18.30                    | 18.05                  | 19                  | 0        |  |  |
| 20               | QPSK       | 1       | 49        | 17.99                 | 18.01                    | 18.07                  |                     |          |  |  |
| 20               | QPSK       | 1       | 99        | 18.05                 | 18.13                    | 18.13                  |                     |          |  |  |
| 20               | QPSK       | 50      | 0         | 18.09                 | 18.22                    | 18.15                  |                     |          |  |  |
| 20               | QPSK       | 50      | 24        | 18.14                 | 18.16                    | 18.21                  | 19                  | 0        |  |  |
| 20               | QPSK       | 50      | 50        | 18.21                 | 18.12                    | 18.13                  |                     |          |  |  |
| 20               | QPSK       | 100     | 0         | 18.13                 | 18.20                    | 18.17                  |                     |          |  |  |
| 20               | 16QAM      | 1       | 0         | 18.25                 | 18.26                    | 18.12                  |                     |          |  |  |
| 20               | 16QAM      | 1       | 49        | 18.03                 | 18.10                    | 18.16                  | 19                  | 0        |  |  |
| 20               | 16QAM      | 1       | 99        | 18.06                 | 18.23                    | 18.21                  |                     |          |  |  |
| 20               | 16QAM      | 50      | 0         | 18.11                 | 18.12                    | 18.15                  |                     |          |  |  |
| 20               | 16QAM      | 50      | 24        | 18.21                 | 18.16                    | 18.23                  |                     |          |  |  |
| 20               | 16QAM      | 50      | 50        | 18.21                 | 18.26                    | 18.26                  | 19                  | 0        |  |  |
| 20               | 16QAM      | 100     | 0         | 18.20                 | 18.14                    | 18.16                  |                     |          |  |  |
| 20               | 64QAM      | 1       | 0         | 18.20                 | 18.01                    | 18.11                  |                     |          |  |  |
| 20               | 64QAM      | 1       | 49        | 18.20                 | 18.28                    | 18.16                  |                     |          |  |  |
| 20               | 64QAM      | 1       | 99        | 18.25                 | 18.13                    | 18.23                  | 19                  | 0        |  |  |
| 20               | 64QAM      | 50      | 0         | 18.06                 | 17.98                    | 18.14                  |                     |          |  |  |
| 20               | 64QAM      | 50      | 24        | 18.19                 | 18.16                    | 18.22                  |                     |          |  |  |
| 20               | 64QAM      | 50      | 50        | 18.21                 | 18.23                    | 18.27                  |                     |          |  |  |
| 20               | 64QAM      | 100     | 0         | 18.21                 | 18.15                    | 18.22                  | 19                  | 0        |  |  |
| Channel          |            |         |           | 20825                 | 21100                    | 21375                  |                     |          |  |  |
| Frequency (MHz)  |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |          |  |  |
| 15               | QPSK       | 1       | 0         | 18.11                 | 18.21                    | 17.83                  | 19                  | 0        |  |  |
| 15               | QPSK       | 1       | 37        | 17.82                 | 17.98                    | 17.88                  |                     |          |  |  |
| 15               | QPSK       | 1       | 74        | 17.96                 | 18.14                    | 17.95                  |                     |          |  |  |
| 15               | QPSK       | 36      | 0         | 18.03                 | 18.18                    | 18.01                  |                     |          |  |  |
| 15               | QPSK       | 36      | 20        | 18.09                 | 18.15                    | 18.18                  | 19                  | 0        |  |  |
| 15               | QPSK       | 36      | 39        | 18.01                 | 17.99                    | 18.07                  |                     |          |  |  |
| 15               | QPSK       | 75      | 0         | 18.14                 | 18.15                    | 18.09                  |                     |          |  |  |
| 15               | 16QAM      | 1       | 0         | 18.11                 | 18.21                    | 17.83                  |                     |          |  |  |
| 15               | 16QAM      | 1       | 37        | 17.94                 | 18.07                    | 17.99                  | 19                  | 0        |  |  |
| 15               | 16QAM      | 1       | 74        | 17.89                 | 18.21                    | 18.16                  |                     |          |  |  |
| 15               | 16QAM      | 36      | 0         | 17.92                 | 18.05                    | 18.03                  |                     |          |  |  |
| 15               | 16QAM      | 36      | 20        | 18.21                 | 18.09                    | 18.01                  |                     |          |  |  |
| 15               | 16QAM      | 36      | 39        | 18.14                 | 18.28                    | 18.27                  | 19                  | 0        |  |  |
| 15               | 16QAM      | 75      | 0         | 18.09                 | 18.04                    | 18.04                  |                     |          |  |  |
| 15               | 64QAM      | 1       | 0         | 18.17                 | 17.88                    | 17.95                  |                     |          |  |  |
| 15               | 64QAM      | 1       | 37        | 18.19                 | 18.14                    | 18.03                  |                     |          |  |  |
| 15               | 64QAM      | 1       | 74        | 18.22                 | 18.08                    | 18.05                  | 19                  | 0        |  |  |
| 15               | 64QAM      | 36      | 0         | 17.97                 | 17.83                    | 18.00                  |                     |          |  |  |
| 15               | 64QAM      | 36      | 20        | 18.20                 | 18.01                    | 18.15                  |                     |          |  |  |
| 15               | 64QAM      | 36      | 39        | 18.08                 | 18.09                    | 18.11                  |                     |          |  |  |
| 15               | 64QAM      | 75      | 0         | 18.05                 | 18.16                    | 18.24                  | 19                  | 0        |  |  |
| Channel          |            |         |           | 20890                 | 21100                    | 21400                  |                     |          |  |  |
| Frequency (MHz)  |            |         |           | 2505                  | 2535                     | 2565                   |                     |          |  |  |
| 10               | QPSK       | 1       | 0         | 18.11                 | 18.16                    | 18.03                  | 19                  | 0        |  |  |
| 10               | QPSK       | 1       | 25        | 17.90                 | 17.99                    | 18.06                  |                     |          |  |  |
| 10               | QPSK       | 1       | 49        | 17.83                 | 18.09                    | 18.11                  |                     |          |  |  |
| 10               | QPSK       | 25      | 0         | 17.90                 | 18.22                    | 17.98                  |                     |          |  |  |
| 10               | QPSK       | 25      | 12        | 18.06                 | 18.11                    | 18.08                  | 19                  | 0        |  |  |
| 10               | QPSK       | 25      | 25        | 18.18                 | 18.11                    | 17.92                  |                     |          |  |  |
| 10               | QPSK       | 50      | 0         | 17.96                 | 18.10                    | 18.12                  |                     |          |  |  |
| 10               | 16QAM      | 1       | 0         | 18.26                 | 18.05                    | 18.02                  |                     |          |  |  |
| 10               | 16QAM      | 1       | 25        | 17.97                 | 18.05                    | 18.04                  | 19                  | 0        |  |  |
| 10               | 16QAM      | 1       | 49        | 18.04                 | 18.07                    | 18.06                  |                     |          |  |  |
| 10               | 16QAM      | 25      | 0         | 17.93                 | 18.01                    | 17.96                  |                     |          |  |  |
| 10               | 16QAM      | 25      | 12        | 17.99                 | 18.13                    | 18.04                  |                     |          |  |  |
| 10               | 16QAM      | 25      | 25        | 18.12                 | 18.22                    | 18.19                  | 19                  | 0        |  |  |
| 10               | 16QAM      | 50      | 0         | 18.05                 | 18.14                    | 18.01                  |                     |          |  |  |
| 10               | 64QAM      | 1       | 0         | 18.06                 | 17.84                    | 18.09                  |                     |          |  |  |
| 10               | 64QAM      | 1       | 25        | 18.07                 | 18.08                    | 18.03                  |                     |          |  |  |
| 10               | 64QAM      | 1       | 49        | 18.16                 | 18.01                    | 18.21                  | 19                  | 0        |  |  |
| 10               | 64QAM      | 25      | 0         | 18.08                 | 18.00                    | 18.14                  |                     |          |  |  |
| 10               | 64QAM      | 25      | 12        | 17.99                 | 17.99                    | 18.09                  |                     |          |  |  |
| 10               | 64QAM      | 25      | 25        | 18.09                 | 18.12                    | 18.19                  |                     |          |  |  |
| 10               | 64QAM      | 50      | 0         | 18.02                 | 18.07                    | 18.04                  | 19                  | 0        |  |  |
| Channel          |            |         |           | 20775                 | 21100                    | 21425                  |                     |          |  |  |
| Frequency (MHz)  |            |         |           | 2502.5                | 2535                     | 2567.5                 |                     |          |  |  |
| 5                | QPSK       | 1       | 0         | 18.22                 | 18.10                    | 18.02                  | 19                  | 0        |  |  |
| 5                | QPSK       | 1       | 12        | 17.83                 | 17.96                    | 17.86                  |                     |          |  |  |
| 5                | QPSK       | 1       | 24        | 18.00                 | 17.93                    | 18.06                  |                     |          |  |  |
| 5                | QPSK       | 12      | 0         | 17.94                 | 18.07                    | 18.07                  |                     |          |  |  |
| 5                | QPSK       | 12      | 7         | 18.05                 | 18.15                    | 18.23                  | 19                  | 0        |  |  |
| 5                | QPSK       | 12      | 13        | 17.99                 | 18.01                    | 18.06                  |                     |          |  |  |
| 5                | QPSK       | 25      | 0         | 18.09                 | 18.19                    | 18.14                  |                     |          |  |  |
| 5                | 16QAM      | 1       | 0         | 18.19                 | 18.16                    | 17.93                  |                     |          |  |  |
| 5                | 16QAM      | 1       | 12        | 18.02                 | 18.10                    | 18.04                  | 19                  | 0        |  |  |
| 5                | 16QAM      | 1       | 24        | 17.98                 | 18.15                    | 18.06                  |                     |          |  |  |
| 5                | 16QAM      | 12      | 0         | 18.05                 | 17.92                    | 18.16                  |                     |          |  |  |
| 5                | 16QAM      | 12      | 7         | 18.01                 | 18.04                    | 18.06                  |                     |          |  |  |
| 5                | 16QAM      | 12      | 13        | 18.19                 | 18.06                    | 18.18                  | 19                  | 0        |  |  |
| 5                | 16QAM      | 25      | 0         | 18.14                 | 18.04                    | 18.05                  |                     |          |  |  |
| 5                | 64QAM      | 1       | 0         | 17.98                 | 17.99                    | 17.95                  |                     |          |  |  |
| 5                | 64QAM      | 1       | 12        | 18.12                 | 18.24                    | 18.04                  |                     |          |  |  |
| 5                | 64QAM      | 1       | 24        | 18.24                 | 18.10                    | 18.07                  | 19                  | 0        |  |  |
| 5                | 64QAM      | 12      | 0         | 18.08                 | 17.98                    | 17.96                  |                     |          |  |  |
| 5                | 64QAM      | 12      | 7         | 18.01                 | 17.98                    | 18.16                  |                     |          |  |  |
| 5                | 64QAM      | 12      | 13        | 18.09                 | 18.17                    | 18.29                  |                     |          |  |  |
| 5                | 64QAM      | 25      | 0         | 18.16                 | 18.15                    | 18.02                  |                     |          |  |  |

| Band 12 Ant4 DS11 |            |         |           |                       |                          |                        |                     |          |  |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dbm) | MPR (db) |  |  |
| Channel           |            |         |           | 23600                 | 23905                    | 23130                  |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 707.5                 | 707.5                    | 711.1                  |                     |          |  |  |
| 10                | QPSK       | 1       | 0         | 24.58                 | 24.76                    | 24.57                  | 25.5                | 0        |  |  |
| 10                | QPSK       | 1       | 25        | 24.54                 | 24.54                    | 24.37                  |                     |          |  |  |
| 10                | QPSK       | 1       | 49        | 24.58                 | 24.60                    | 24.61                  |                     |          |  |  |
| 10                | QPSK       | 25      | 0         | 23.57                 | 23.78                    | 23.63                  |                     |          |  |  |
| 10                | QPSK       | 25      | 12        | 23.76                 | 23.61                    | 23.47                  | 24.5                | 1        |  |  |
| 10                | QPSK       | 25      | 25        | 23.65                 | 23.61                    | 23.55                  |                     |          |  |  |
| 10                | QPSK       | 50      | 0         | 23.70                 | 23.73                    | 23.68                  |                     |          |  |  |
| 10                | 16QAM      | 1       | 0         | 24.13                 | 23.82                    | 23.76                  |                     |          |  |  |
| 10                | 16QAM      | 1       | 25        | 23.76                 | 24.06                    | 23.74                  | 24.5                | 1        |  |  |
| 10                | 16QAM      | 1       | 49        | 23.75                 | 23.83                    | 24.08                  |                     |          |  |  |
| 10                | 16QAM      | 25      | 0         | 22.66                 | 22.56                    | 22.58                  |                     |          |  |  |
| 10                | 16QAM      | 25      | 12        | 22.81                 | 22.75                    | 22.50                  |                     |          |  |  |
| 10                | 16QAM      | 25      | 25        | 22.69                 | 22.58                    | 22.60                  | 23.5                | 2        |  |  |
| 10                | 16QAM      | 50      | 0         | 22.70                 | 22.65                    | 22.66                  |                     |          |  |  |
| 10                | 64QAM      | 1       | 0         | 22.71                 | 22.72                    | 22.66                  |                     |          |  |  |
| 10                | 64QAM      | 1       | 25        | 22.59                 | 22.75                    | 22.63                  |                     |          |  |  |
| 10                | 64QAM      | 1       | 49        | 22.61                 | 22.62                    | 22.61                  | 23.5                | 2        |  |  |
| 10                | 64QAM      | 25      | 0         | 21.69                 | 21.62                    | 21.58                  |                     |          |  |  |
| 10                | 64QAM      | 25      | 12        | 21.78                 | 21.62                    | 21.72                  | 22.5                | 3        |  |  |
| 10                | 64QAM      | 25      | 25        | 21.64                 | 21.59                    | 21.73                  |                     |          |  |  |
| 10                | 64QAM      | 50      | 0         | 21.71                 | 21.56                    | 21.49                  |                     |          |  |  |
| 10                | 64QAM      | 50      | 12        | 23.035                | 23.095                   | 23.155                 |                     |          |  |  |
| Channel           |            |         |           | 701.5                 | 707.5                    | 715.5                  | Tune-up limit (dbm) | MPR (db) |  |  |
| 5                 | QPSK       | 1       | 0         | 24.50                 | 24.75                    | 24.50                  | 25.5                | 0        |  |  |
| 5                 | QPSK       | 1       | 12        | 24.71                 | 24.72                    | 24.61                  |                     |          |  |  |
| 5                 | QPSK       | 1       | 24        | 24.72                 | 24.74                    | 24.66                  |                     |          |  |  |
| 5                 | QPSK       | 12      | 0         | 23.79                 | 23.81                    | 23.78                  |                     |          |  |  |
| 5                 | QPSK       | 12      | 7         | 23.77                 | 23.83                    | 23.79                  | 24.5                | 1        |  |  |
| 5                 | QPSK       | 12      | 13        | 23.89                 | 23.80                    | 23.72                  |                     |          |  |  |
| 5                 | QPSK       | 25      | 0         | 23.86                 | 23.75                    | 23.77                  |                     |          |  |  |
| 5                 | 16QAM      | 1       | 0         | 23.63                 | 23.86                    | 23.77                  |                     |          |  |  |
| 5                 | 16QAM      | 1       | 12        | 23.86                 | 23.77                    | 23.83                  | 24.5                | 1        |  |  |
| 5                 | 16QAM      | 1       | 24        | 23.73                 | 23.87                    | 23.86                  |                     |          |  |  |
| 5                 | 16QAM      | 12      | 0         | 22.86                 | 22.82                    | 22.72                  |                     |          |  |  |
| 5                 | 16QAM      | 12      | 7         | 22.77                 | 22.86                    | 22.98                  |                     |          |  |  |
| 5                 | 16QAM      | 12      | 13        | 22.67                 | 22.79                    | 22.75                  | 23.5                | 2        |  |  |
| 5                 | 16QAM      | 25      | 0         | 22.96                 | 22.72                    | 22.67                  |                     |          |  |  |
| 5                 | 64QAM      | 1       | 0         | 23.07                 | 22.89                    | 23.02                  |                     |          |  |  |
| 5                 | 64QAM      | 1       | 12        | 22.75                 | 22.90                    | 22.98                  |                     |          |  |  |
| 5                 | 64QAM      | 1       | 24        | 22.81                 | 23.07                    | 23.10                  | 23.5                | 2        |  |  |
| 5                 | 64QAM      | 12      | 0         | 21.86                 | 21.75                    | 21.89                  |                     |          |  |  |
| 5                 | 64QAM      | 12      | 7         | 22.02                 | 21.74                    | 21.85                  |                     |          |  |  |
| 5                 | 64QAM      | 12      | 13        | 21.76                 | 21.85                    | 21.69                  |                     |          |  |  |
| 5                 | 64QAM      | 25      | 0         | 21.78                 | 21.73                    | 21.66                  | 22.5                | 3        |  |  |
| 5                 | 64QAM      | 25      | 0         | 21.78                 | 21.73                    | 21.66                  |                     |          |  |  |
| 5                 | 64QAM      | 25      | 0         | 23.025                | 23.095                   | 23.165                 |                     |          |  |  |
| 5                 | 64QAM      | 25      | 0         | 704.5                 | 707.5                    | 714.5                  |                     |          |  |  |
| 3                 | QPSK       | 1       | 0         | 24.54                 | 24.72                    | 24.55                  | 25.5                | 0        |  |  |
| 3                 | QPSK       | 1       | 8         | 24.64                 | 24.66                    | 24.60                  |                     |          |  |  |
| 3                 | QPSK       | 1       | 14        | 24.75                 | 24.45                    | 24.58                  |                     |          |  |  |
| 3                 | QPSK       | 8       | 0         | 23.71                 | 23.65                    | 23.67                  |                     |          |  |  |
| 3                 | QPSK       | 8       | 0         | 23.77                 | 23.70                    | 23.63                  | 24.5                | 1        |  |  |
| 3                 | QPSK       | 8       | 8         | 23.79                 | 23.65                    | 23.68                  |                     |          |  |  |
| 3                 | QPSK       | 15      | 0         | 23.74                 | 23.62                    | 23.55                  |                     |          |  |  |
| 3                 | 16QAM      | 1       | 0         | 23.42                 | 23.79                    | 23.62                  |                     |          |  |  |
| 3                 | 16QAM      | 1       | 8         | 23.58                 | 23.61                    | 23.72                  | 24.5                | 1        |  |  |
| 3                 | 16QAM      | 1       | 14        | 23.67                 | 23.59                    | 23.76                  |                     |          |  |  |
| 3                 | 16QAM      | 8       | 0         | 22.72                 | 22.82                    | 22.46                  |                     |          |  |  |
| 3                 | 16QAM      | 8       | 4         | 22.85                 | 22.78                    | 22.79                  |                     |          |  |  |
| 3                 | 16QAM      | 8       | 7         | 22.80                 | 22.79                    | 22.69                  | 23.5                | 2        |  |  |
| 3                 | 16QAM      | 15      | 0         | 22.81                 | 22.63                    | 22.64                  |                     |          |  |  |
| 3                 | 64QAM      | 1       | 0         | 22.82                 | 22.81                    | 22.55                  |                     |          |  |  |
| 3                 | 64QAM      | 1       | 8         | 22.61                 | 22.75                    | 22.59                  |                     |          |  |  |
| 3                 | 64QAM      | 1       | 14        | 22.71                 | 22.82                    | 22.87                  | 23.5                | 2        |  |  |
| 3                 | 64QAM      | 8       | 0         | 21.76                 | 21.67                    | 21.70                  |                     |          |  |  |
| 3                 | 64QAM      | 8       | 4         | 21.84                 | 21.55                    | 21.83                  |                     |          |  |  |
| 3                 | 64QAM      | 8       | 7         | 21.74                 | 21.54                    | 21.74                  |                     |          |  |  |
| 3                 | 64QAM      | 15      | 0         | 21.86                 | 21.62                    | 21.51                  | 22.5                | 3        |  |  |
| 3                 | 64QAM      | 15      | 0         | 23.07                 | 23.095                   | 23.175                 |                     |          |  |  |
| 3                 | 64QAM      | 15      | 0         | 697.5                 | 707.5                    | 715.3                  |                     |          |  |  |
| 3                 | 64QAM      | 15      | 0         | 24.62                 | 24.70                    | 24.42                  |                     |          |  |  |
| 1.4               | QPSK       | 1       | 3         | 24.56                 | 24.57                    | 24.60                  | 25.5                | 0        |  |  |
| 1.4               | QPSK       | 1       | 5         | 24.48                 | 24.40                    | 24.53                  |                     |          |  |  |
| 1.4               | QPSK       | 3       | 0         | 24.65                 | 24.57                    | 24.42                  |                     |          |  |  |
| 1.4               | QPSK       | 3       | 1         | 24.74                 | 24.60                    | 24.58                  |                     |          |  |  |
| 1.4               | QPSK       | 3       | 3         | 24.53                 | 24.44                    | 24.51                  | 24.5                | 1        |  |  |
| 1.4               | QPSK       | 6       | 0         | 23.71                 | 23.50                    | 23.50                  |                     |          |  |  |
| 1.4               | 16QAM      | 1       | 0         | 23.94                 | 23.84                    | 23.84                  |                     |          |  |  |
| 1.4               | 16QAM      | 1       | 3         | 23.65                 | 23.86                    | 23.90                  |                     |          |  |  |
| 1.4               | 16QAM      | 1       | 5         | 23.74                 | 23.80                    | 23.81                  | 24.5                | 1        |  |  |
| 1.4               | 16QAM      | 3       | 0         | 23.81                 | 23.71                    | 23.66                  |                     |          |  |  |
| 1.4               | 16QAM      | 3       | 1         | 23.67                 | 23.93                    | 23.79                  |                     |          |  |  |
| 1.4               | 16QAM      | 3       | 3         | 23.77                 | 23.50                    | 23.50                  |                     |          |  |  |
| 1.4               | 16QAM      | 6       | 0         | 22.67                 | 22.50                    | 22.46                  | 23.5                | 2        |  |  |
| 1.4               | 64QAM      | 1       | 0         | 22.84                 | 22.69                    | 22.98                  |                     |          |  |  |
| 1.4               | 64QAM      | 1       | 3         | 23.03                 | 23.00                    | 22.71                  |                     |          |  |  |
| 1.4               | 64QAM      | 1       | 5         | 22.76                 | 22.64                    | 22.82                  |                     |          |  |  |
| 1.4               | 64QAM      | 3       | 0         | 22.74                 | 22.69                    | 22.76                  | 23.5                | 2        |  |  |
| 1.4               | 64QAM      | 3       | 1         | 22.90                 | 22.82                    | 22.87                  |                     |          |  |  |
| 1.4               | 64QAM      | 3       | 3         | 22.58                 | 22.61                    | 22.80                  |                     |          |  |  |
| 1.4               | 64QAM      | 6       | 0         | 21.60                 | 21.59                    | 21.53                  |                     |          |  |  |
| 1.4               | 64QAM      | 6       | 0         | 21.60                 | 21.59                    | 21.53                  | 22.5                | 3        |  |  |
| 1.4               | 64QAM      | 6       | 0         | 21.60                 | 21.59                    | 21.53                  |                     |          |  |  |





| Band 17 Ant4 DS11 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dbm) | MPR (db) |  |
| Channel           |            |         |           | 23760                 | 23790                    | 23800                  |                     |          |  |
| Frequency (MHz)   |            |         |           | 709                   | 710                      | 711                    |                     |          |  |
| 10                | QPSK       | 1       | 0         | 24.42                 | 24.74                    | 24.45                  | 25.5                | 0        |  |
| 10                | QPSK       | 1       | 25        | 24.50                 | 24.45                    | 24.43                  |                     |          |  |
| 10                | QPSK       | 1       | 49        | 24.44                 | 24.51                    | 24.60                  |                     |          |  |
| 10                | QPSK       | 25      | 0         | 23.51                 | 23.67                    | 23.50                  |                     |          |  |
| 10                | QPSK       | 25      | 12        | 23.58                 | 23.53                    | 23.58                  | 24.5                | 1        |  |
| 10                | QPSK       | 25      | 25        | 23.62                 | 23.61                    | 23.50                  |                     |          |  |
| 10                | QPSK       | 50      | 0         | 23.62                 | 23.65                    | 23.43                  |                     |          |  |
| 10                | 16QAM      | 1       | 0         | 23.63                 | 23.51                    | 23.76                  |                     |          |  |
| 10                | 16QAM      | 1       | 25        | 23.68                 | 23.64                    | 23.51                  | 24.5                | 1        |  |
| 10                | 16QAM      | 1       | 49        | 23.40                 | 23.70                    | 23.62                  |                     |          |  |
| 10                | 16QAM      | 25      | 0         | 22.59                 | 22.58                    | 22.53                  |                     |          |  |
| 10                | 16QAM      | 25      | 12        | 22.59                 | 22.43                    | 22.56                  |                     |          |  |
| 10                | 16QAM      | 25      | 25        | 22.64                 | 22.73                    | 22.61                  | 23.5                | 2        |  |
| 10                | 16QAM      | 50      | 0         | 22.57                 | 22.64                    | 22.48                  |                     |          |  |
| 10                | 64QAM      | 1       | 0         | 22.45                 | 22.50                    | 22.54                  |                     |          |  |
| 10                | 64QAM      | 1       | 25        | 22.71                 | 22.57                    | 22.59                  |                     |          |  |
| 10                | 64QAM      | 1       | 49        | 22.52                 | 22.54                    | 22.75                  | 23.5                | 2        |  |
| 10                | 64QAM      | 25      | 0         | 21.43                 | 21.70                    | 21.49                  |                     |          |  |
| 10                | 64QAM      | 25      | 12        | 21.65                 | 21.60                    | 21.54                  |                     |          |  |
| 10                | 64QAM      | 25      | 25        | 21.66                 | 21.55                    | 21.70                  |                     |          |  |
| 10                | 64QAM      | 50      | 0         | 21.58                 | 21.52                    | 21.53                  | 22.5                | 3        |  |
| Channel           |            |         |           | 23755                 | 23790                    | 23825                  |                     |          |  |
| Frequency (MHz)   |            |         |           | 706.5                 | 710                      | 713.5                  |                     |          |  |
| 5                 | QPSK       | 1       | 0         | 24.69                 | 24.67                    | 24.46                  | 25.5                | 0        |  |
| 5                 | QPSK       | 1       | 12        | 24.39                 | 24.48                    | 24.37                  |                     |          |  |
| 5                 | QPSK       | 1       | 24        | 24.62                 | 24.53                    | 24.41                  |                     |          |  |
| 5                 | QPSK       | 12      | 0         | 23.56                 | 23.63                    | 23.52                  |                     |          |  |
| 5                 | QPSK       | 12      | 7         | 23.64                 | 23.63                    | 23.33                  | 24.5                | 1        |  |
| 5                 | QPSK       | 12      | 13        | 23.56                 | 23.56                    | 23.68                  |                     |          |  |
| 5                 | QPSK       | 25      | 0         | 23.62                 | 23.53                    | 23.50                  |                     |          |  |
| 5                 | 16QAM      | 1       | 0         | 23.71                 | 23.73                    | 23.68                  |                     |          |  |
| 5                 | 16QAM      | 1       | 12        | 23.54                 | 23.38                    | 23.69                  | 24.5                | 1        |  |
| 5                 | 16QAM      | 1       | 24        | 23.44                 | 23.51                    | 23.42                  |                     |          |  |
| 5                 | 16QAM      | 12      | 0         | 22.64                 | 22.73                    | 22.66                  |                     |          |  |
| 5                 | 16QAM      | 12      | 7         | 22.63                 | 22.71                    | 22.65                  |                     |          |  |
| 5                 | 16QAM      | 12      | 13        | 22.58                 | 22.69                    | 22.50                  | 23.5                | 2        |  |
| 5                 | 16QAM      | 25      | 0         | 22.76                 | 22.68                    | 22.60                  |                     |          |  |
| 5                 | 64QAM      | 1       | 0         | 22.57                 | 22.55                    | 22.73                  |                     |          |  |
| 5                 | 64QAM      | 1       | 12        | 22.68                 | 22.61                    | 22.45                  |                     |          |  |
| 5                 | 64QAM      | 1       | 24        | 22.63                 | 22.74                    | 22.82                  | 23.5                | 2        |  |
| 5                 | 64QAM      | 12      | 0         | 21.68                 | 21.77                    | 21.50                  |                     |          |  |
| 5                 | 64QAM      | 12      | 7         | 21.55                 | 21.81                    | 21.45                  |                     |          |  |
| 5                 | 64QAM      | 12      | 13        | 21.67                 | 21.63                    | 21.78                  |                     |          |  |
| 5                 | 64QAM      | 25      | 0         | 21.59                 | 21.43                    | 21.58                  | 22.5                | 3        |  |

| Band 26 Ant4 DS11 |            |         |           |                       |                          |                        |                     |          |       |                                     |       |       |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-------|-------------------------------------|-------|-------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dbm) | MPR (db) |       |                                     |       |       |
| Channel           |            |         |           |                       |                          |                        |                     |          |       |                                     |       |       |
| Frequency (MHz)   |            |         |           |                       |                          |                        | 819                 | 831.5    | 844.5 |                                     |       |       |
| 15                | QPSK       | 1       | 0         | 24.42                 | 24.45                    | 24.38                  | 25.5                | 0        |       |                                     |       |       |
| 15                | QPSK       | 1       | 37        | 24.36                 | 24.30                    | 24.34                  |                     |          |       |                                     |       |       |
| 15                | QPSK       | 1       | 74        | 24.38                 | 24.28                    | 24.23                  |                     |          |       |                                     |       |       |
| 15                | QPSK       | 36      | 0         | 23.52                 | 23.54                    | 23.26                  |                     |          |       |                                     |       |       |
| 15                | QPSK       | 36      | 20        | 23.30                 | 23.49                    | 23.28                  | 24.5                | 1        |       |                                     |       |       |
| 15                | QPSK       | 36      | 39        | 23.31                 | 23.28                    | 23.36                  |                     |          |       |                                     |       |       |
| 15                | QPSK       | 75      | 0         | 23.39                 | 23.45                    | 23.43                  |                     |          |       |                                     |       |       |
| 15                | 16QAM      | 1       | 0         | 23.35                 | 23.48                    | 23.38                  |                     |          |       |                                     |       |       |
| 15                | 16QAM      | 1       | 37        | 23.24                 | 23.38                    | 23.34                  | 24.5                | 1        |       |                                     |       |       |
| 15                | 16QAM      | 1       | 74        | 23.29                 | 23.46                    | 23.19                  |                     |          |       |                                     |       |       |
| 15                | 16QAM      | 36      | 0         | 22.44                 | 22.38                    | 22.28                  |                     |          |       |                                     |       |       |
| 15                | 16QAM      | 36      | 20        | 22.40                 | 22.33                    | 22.17                  |                     |          |       |                                     |       |       |
| 15                | 16QAM      | 36      | 39        | 22.35                 | 22.38                    | 22.17                  | 23.5                | 2        |       |                                     |       |       |
| 15                | 16QAM      | 75      | 0         | 22.42                 | 22.37                    | 22.28                  |                     |          |       |                                     |       |       |
| 15                | 64QAM      | 1       | 0         | 22.32                 | 22.54                    | 22.38                  |                     |          |       |                                     |       |       |
| 15                | 64QAM      | 1       | 37        | 22.21                 | 22.35                    | 22.20                  |                     |          |       |                                     |       |       |
| 15                | 64QAM      | 1       | 74        | 22.33                 | 22.41                    | 22.31                  | 23.5                | 2        |       |                                     |       |       |
| 15                | 64QAM      | 36      | 0         | 21.43                 | 21.55                    | 21.49                  |                     |          |       |                                     |       |       |
| 15                | 64QAM      | 36      | 20        | 21.33                 | 21.32                    | 21.35                  |                     |          |       |                                     |       |       |
| 15                | 64QAM      | 36      | 39        | 21.36                 | 21.29                    | 21.28                  |                     |          |       |                                     |       |       |
| 15                | 64QAM      | 75      | 0         | 21.32                 | 21.47                    | 21.47                  | 22.5                | 3        |       |                                     |       |       |
| Channel           |            |         |           |                       |                          |                        |                     |          |       | 26740                               | 26865 | 26960 |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |       | 819                                 | 831.5 | 844   |
| 10                | QPSK       | 1       | 0         | 24.37                 | 24.35                    | 24.35                  | 25.5                | 0        |       |                                     |       |       |
| 10                | QPSK       | 1       | 25        | 24.21                 | 24.21                    | 24.25                  |                     |          |       |                                     |       |       |
| 10                | QPSK       | 1       | 49        | 24.25                 | 24.26                    | 24.07                  |                     |          |       |                                     |       |       |
| 10                | QPSK       | 25      | 0         | 23.39                 | 23.45                    | 23.11                  |                     |          |       |                                     |       |       |
| 10                | QPSK       | 25      | 12        | 23.23                 | 23.44                    | 23.23                  | 24.5                | 1        |       |                                     |       |       |
| 10                | QPSK       | 25      | 25        | 23.12                 | 23.10                    | 23.35                  |                     |          |       |                                     |       |       |
| 10                | QPSK       | 50      | 0         | 23.36                 | 23.43                    | 23.32                  |                     |          |       |                                     |       |       |
| 10                | 16QAM      | 1       | 0         | 23.35                 | 23.32                    | 23.20                  |                     |          |       |                                     |       |       |
| 10                | 16QAM      | 1       | 25        | 23.18                 | 23.18                    | 23.18                  | 24.5                | 1        |       |                                     |       |       |
| 10                | 16QAM      | 1       | 49        | 23.09                 | 23.42                    | 23.07                  |                     |          |       |                                     |       |       |
| 10                | 16QAM      | 25      | 0         | 22.40                 | 22.18                    | 22.21                  |                     |          |       |                                     |       |       |
| 10                | 16QAM      | 25      | 12        | 22.21                 | 22.28                    | 22.07                  |                     |          |       |                                     |       |       |
| 10                | 16QAM      | 25      | 25        | 22.27                 | 22.19                    | 22.09                  | 23.5                | 2        |       |                                     |       |       |
| 10                | 16QAM      | 50      | 0         | 22.33                 | 22.36                    | 22.16                  |                     |          |       |                                     |       |       |
| 10                | 64QAM      | 1       | 0         | 22.28                 | 22.39                    | 22.26                  |                     |          |       |                                     |       |       |
| 10                | 64QAM      | 1       | 25        | 22.04                 | 22.27                    | 22.15                  |                     |          |       |                                     |       |       |
| 10                | 64QAM      | 1       | 49        | 22.13                 | 22.33                    | 22.14                  | 23.5                | 2        |       |                                     |       |       |
| 10                | 64QAM      | 25      | 0         | 21.41                 | 21.38                    | 21.39                  |                     |          |       |                                     |       |       |
| 10                | 64QAM      | 25      | 12        | 21.29                 | 21.16                    | 21.20                  |                     |          |       |                                     |       |       |
| 10                | 64QAM      | 25      | 25        | 21.26                 | 21.28                    | 21.18                  |                     |          |       |                                     |       |       |
| 10                | 64QAM      | 50      | 0         | 21.16                 | 21.43                    | 21.34                  | 22.5                | 3        |       |                                     |       |       |
| Channel           |            |         |           |                       |                          |                        |                     |          |       | 26715                               | 26865 | 27015 |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |       | 816.5 <th>831.5</th> <th>846.5</th> | 831.5 | 846.5 |
| 5                 | QPSK       | 1       | 0         | 24.32                 | 24.39                    | 24.22                  | 25.5                | 0        |       |                                     |       |       |
| 5                 | QPSK       | 1       | 12        | 24.29                 | 24.24                    | 24.41                  |                     |          |       |                                     |       |       |
| 5                 | QPSK       | 1       | 24        | 24.25                 | 24.20                    | 24.20                  |                     |          |       |                                     |       |       |
| 5                 | QPSK       | 12      | 0         | 23.35                 | 23.54                    | 23.22                  |                     |          |       |                                     |       |       |
| 5                 | QPSK       | 12      | 7         | 23.29                 | 23.45                    | 23.32                  | 24.5                | 1        |       |                                     |       |       |
| 5                 | QPSK       | 12      | 13        | 23.16                 | 23.19                    | 23.29                  |                     |          |       |                                     |       |       |
| 5                 | QPSK       | 25      | 0         | 23.30                 | 23.37                    | 23.54                  |                     |          |       |                                     |       |       |
| 5                 | 16QAM      | 1       | 0         | 23.24                 | 23.32                    | 23.39                  |                     |          |       |                                     |       |       |
| 5                 | 16QAM      | 1       | 12        | 23.22                 | 23.34                    | 23.37                  | 24.5                | 1        |       |                                     |       |       |
| 5                 | 16QAM      | 1       | 24        | 23.12                 | 23.33                    | 23.12                  |                     |          |       |                                     |       |       |
| 5                 | 16QAM      | 12      | 0         | 22.30                 | 22.41                    | 22.26                  |                     |          |       |                                     |       |       |
| 5                 | 16QAM      | 12      | 7         | 22.40                 | 22.33                    | 22.12                  |                     |          |       |                                     |       |       |
| 5                 | 16QAM      | 12      | 13        | 22.20                 | 22.25                    | 22.08                  | 23.5                | 2        |       |                                     |       |       |
| 5                 | 16QAM      | 25      | 0         | 22.49                 | 22.30                    | 22.23                  |                     |          |       |                                     |       |       |
| 5                 | 64QAM      | 1       | 0         | 22.31                 | 22.51                    | 22.44                  |                     |          |       |                                     |       |       |
| 5                 | 64QAM      | 1       | 12        | 22.27                 | 22.31                    | 22.23                  |                     |          |       |                                     |       |       |
| 5                 | 64QAM      | 1       | 24        | 22.20                 | 22.36                    | 22.25                  | 23.5                | 2        |       |                                     |       |       |
| 5                 | 64QAM      | 12      | 0         | 21.34                 | 21.43                    | 21.48                  |                     |          |       |                                     |       |       |
| 5                 | 64QAM      | 12      | 7         | 21.32                 | 21.32                    | 21.40                  |                     |          |       |                                     |       |       |
| 5                 | 64QAM      | 12      | 13        | 21.32                 | 21.33                    | 21.11                  |                     |          |       |                                     |       |       |
| 5                 | 64QAM      | 25      | 0         | 21.22                 | 21.40                    | 21.48                  | 22.5                | 3        |       |                                     |       |       |
| Channel           |            |         |           |                       |                          |                        |                     |          |       | 26705                               | 26865 | 27025 |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |       | 815.5 <th>831.5</th> <th>847.5</th> | 831.5 | 847.5 |
| 3                 | QPSK       | 1       | 0         | 24.43                 | 24.33                    | 24.42                  | 25.5                | 0        |       |                                     |       |       |
| 3                 | QPSK       | 1       | 8         | 24.21                 | 24.14                    | 24.37                  |                     |          |       |                                     |       |       |
| 3                 | QPSK       | 1       | 14        | 24.39                 | 24.33                    | 24.10                  |                     |          |       |                                     |       |       |
| 3                 | QPSK       | 8       | 0         | 23.43                 | 23.41                    | 23.31                  |                     |          |       |                                     |       |       |
| 3                 | QPSK       | 8       | 4         | 23.21                 | 23.49                    | 23.12                  | 24.5                | 1        |       |                                     |       |       |
| 3                 | QPSK       | 8       | 7         | 23.21                 | 23.34                    | 23.25                  |                     |          |       |                                     |       |       |
| 3                 | QPSK       | 15      | 0         | 23.30                 | 23.30                    | 23.33                  |                     |          |       |                                     |       |       |
| 3                 | 16QAM      | 1       | 0         | 23.23                 | 23.41                    | 23.32                  |                     |          |       |                                     |       |       |
| 3                 | 16QAM      | 1       | 8         | 23.13                 | 23.34                    | 23.39                  | 24.5                | 1        |       |                                     |       |       |
| 3                 | 16QAM      | 1       | 14        | 23.24                 | 23.41                    | 23.22                  |                     |          |       |                                     |       |       |
| 3                 | 16QAM      | 8       | 0         | 22.38                 | 22.30                    | 22.20                  |                     |          |       |                                     |       |       |
| 3                 | 16QAM      | 8       | 4         | 22.28                 | 22.18                    | 22.07                  |                     |          |       |                                     |       |       |
| 3                 | 16QAM      | 8       | 7         | 22.28                 | 22.24                    | 22.17                  | 23.5                | 2        |       |                                     |       |       |
| 3                 | 16QAM      | 15      | 0         | 22.46                 | 22.36                    | 22.31                  |                     |          |       |                                     |       |       |
| 3                 | 64QAM      | 1       | 0         | 22.23                 | 22.45                    | 22.40                  |                     |          |       |                                     |       |       |
| 3                 | 64QAM      | 1       | 8         | 22.26                 | 22.23                    | 22.23                  |                     |          |       |                                     |       |       |
| 3                 | 64QAM      | 1       | 14        | 22.34                 | 22.36                    | 22.22                  | 23.5                | 2        |       |                                     |       |       |
| 3                 | 64QAM      | 8       | 0         | 21.40                 | 21.41                    | 21.55                  |                     |          |       |                                     |       |       |
| 3                 | 64QAM      | 8       | 4         | 21.19                 | 21.21                    | 21.22                  |                     |          |       |                                     |       |       |
| 3                 | 64QAM      | 8       | 7         | 21.43                 | 21.28                    | 21.24                  |                     |          |       |                                     |       |       |
| 3                 | 64QAM      | 15      | 0         | 21.34                 | 21.45                    | 21.43                  | 22.5                | 3        |       |                                     |       |       |
| Channel           |            |         |           |                       |                          |                        |                     |          |       | 26697                               | 26865 | 27033 |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |       | 814.7 <th>831.5</th> <th>848.3</th> | 831.5 | 848.3 |
| 1.4               | QPSK       | 1       | 0         | 24.42                 | 24.46                    | 24.31                  | 25.5                | 0        |       |                                     |       |       |
| 1.4               | QPSK       | 1       | 3         | 24.25                 | 24.29                    | 24.28                  |                     |          |       |                                     |       |       |
| 1.4               | QPSK       | 1       | 5         | 24.23                 | 24.42                    | 24.10                  |                     |          |       |                                     |       |       |
| 1.4               | QPSK       | 3       | 0         | 24.32                 | 24.43                    | 24.28                  |                     |          |       |                                     |       |       |
| 1.4               | QPSK       | 3       | 1         | 24.27                 | 24.41                    | 24.26                  | 24.5                | 1        |       |                                     |       |       |
| 1.4               | QPSK       | 3       | 3         | 24.40                 | 24.38                    | 24.15                  |                     |          |       |                                     |       |       |
| 1.4               | QPSK       | 6       | 0         | 23.52                 | 23.34                    | 23.28                  |                     |          |       |                                     |       |       |
| 1.4               | 16QAM      | 1       | 0         | 23.33                 | 23.35                    | 23.15                  |                     |          |       |                                     |       |       |
| 1.4               | 16QAM      | 1       | 3         | 23.17                 | 23.20                    | 23.26                  | 24.5                | 1        |       |                                     |       |       |
| 1.4               | 16QAM      | 1       | 5         | 23.02                 | 23.21                    | 23.06                  |                     |          |       |                                     |       |       |
| 1.4               | 16QAM      | 3       | 0         | 23.23                 | 23.25                    | 23.21                  |                     |          |       |                                     |       |       |
| 1.4               | 16QAM      | 3       | 1         | 23.26                 | 23.38                    | 23.09                  |                     |          |       |                                     |       |       |
| 1.4               | 16QAM      | 3       | 3         | 23.31                 | 23.18                    | 23.06                  | 23.5                | 2        |       |                                     |       |       |
| 1.4               | 16QAM      | 6       | 0         | 22.47                 | 22.23                    | 22.18                  |                     |          |       |                                     |       |       |
| 1.4               | 64QAM      | 1       | 0         | 22.33                 | 22.40                    | 22.42                  |                     |          |       |                                     |       |       |
| 1.4               | 64QAM      | 1       | 3         | 22.33                 | 22.27                    | 22.17                  |                     |          |       |                                     |       |       |
| 1.4               | 64QAM      | 1       | 5         | 22.26                 | 22.38                    | 22.24                  | 23.5                | 2        |       |                                     |       |       |
| 1.4               | 64QAM      | 3       | 0         | 22.39                 | 22.35                    | 22.38                  |                     |          |       |                                     |       |       |
| 1.4               | 64QAM      | 3       | 1         | 22.34                 | 22.45                    | 22.26                  |                     |          |       |                                     |       |       |
| 1.4               | 64QAM      | 3       | 3         | 22.42                 | 22.30                    | 22.17                  |                     |          |       |                                     |       |       |
| 1.4               | 64QAM      | 6       | 0         | 21.51                 | 21.28                    | 21.18                  | 22.5                | 3        |       |                                     |       |       |

| Band 38 Ant4 DS11 |            |         |           |                          |                             |                           |                        |             |  |
|-------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel           |            |         |           | 37850                    | 38000                       | 38150                     | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 2580                     | 2595                        | 2610                      |                        |             |  |
| 20                | QPSK       | 1       | 0         | 19.77                    | 19.90                       | 19.82                     | 20.5                   | 0           |  |
| 20                | QPSK       | 1       | 49        | 19.84                    | 19.83                       | 19.87                     |                        |             |  |
| 20                | QPSK       | 1       | 99        | 19.83                    | 19.85                       | 19.83                     |                        |             |  |
| 20                | QPSK       | 50      | 0         | 19.86                    | 19.96                       | 19.87                     |                        |             |  |
| 20                | QPSK       | 50      | 24        | 19.88                    | 19.90                       | 19.83                     | 20.5                   | 0           |  |
| 20                | QPSK       | 50      | 50        | 19.94                    | 19.95                       | 19.94                     |                        |             |  |
| 20                | QPSK       | 100     | 0         | 19.93                    | 19.94                       | 19.85                     |                        |             |  |
| 20                | 16QAM      | 1       | 0         | 19.93                    | 19.96                       | 19.96                     |                        |             |  |
| 20                | 16QAM      | 1       | 49        | 19.83                    | 19.94                       | 19.83                     | 20.5                   | 0           |  |
| 20                | 16QAM      | 1       | 99        | 19.89                    | 19.82                       | 19.97                     |                        |             |  |
| 20                | 16QAM      | 50      | 0         | 19.85                    | 19.89                       | 19.88                     |                        |             |  |
| 20                | 16QAM      | 50      | 24        | 19.94                    | 19.91                       | 19.86                     |                        |             |  |
| 20                | 16QAM      | 50      | 50        | 19.97                    | 19.95                       | 19.92                     | 20.5                   | 0           |  |
| 20                | 16QAM      | 100     | 0         | 19.97                    | 19.97                       | 19.87                     |                        |             |  |
| 20                | 64QAM      | 1       | 0         | 19.64                    | 19.66                       | 19.68                     |                        |             |  |
| 20                | 64QAM      | 1       | 49        | 19.76                    | 19.74                       | 19.72                     |                        |             |  |
| 20                | 64QAM      | 1       | 99        | 19.75                    | 19.73                       | 19.64                     | 20.5                   | 0           |  |
| 20                | 64QAM      | 50      | 0         | 19.79                    | 19.82                       | 19.82                     |                        |             |  |
| 20                | 64QAM      | 50      | 24        | 19.93                    | 19.86                       | 19.95                     |                        |             |  |
| 20                | 64QAM      | 50      | 50        | 19.92                    | 19.91                       | 19.91                     |                        |             |  |
| 20                | 64QAM      | 100     | 0         | 19.87                    | 19.86                       | 19.92                     |                        |             |  |
| Channel           |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |             |  |
| 15                | QPSK       | 1       | 0         | 19.71                    | 19.85                       | 19.80                     | 20.5                   | 0           |  |
| 15                | QPSK       | 1       | 37        | 19.71                    | 19.75                       | 19.88                     |                        |             |  |
| 15                | QPSK       | 1       | 74        | 19.61                    | 19.68                       | 19.81                     |                        |             |  |
| 15                | QPSK       | 36      | 0         | 19.76                    | 19.81                       | 19.71                     |                        |             |  |
| 15                | QPSK       | 36      | 20        | 19.79                    | 19.73                       | 19.78                     | 20.5                   | 0           |  |
| 15                | QPSK       | 36      | 39        | 19.77                    | 19.81                       | 19.86                     |                        |             |  |
| 15                | QPSK       | 75      | 0         | 19.89                    | 19.94                       | 19.83                     |                        |             |  |
| 15                | 16QAM      | 1       | 0         | 19.87                    | 19.90                       | 19.87                     |                        |             |  |
| 15                | 16QAM      | 1       | 37        | 19.66                    | 19.93                       | 19.84                     | 20.5                   | 0           |  |
| 15                | 16QAM      | 1       | 74        | 19.86                    | 19.68                       | 19.95                     |                        |             |  |
| 15                | 16QAM      | 36      | 0         | 19.63                    | 19.80                       | 19.87                     |                        |             |  |
| 15                | 16QAM      | 36      | 20        | 19.91                    | 19.83                       | 19.69                     |                        |             |  |
| 15                | 16QAM      | 36      | 39        | 19.95                    | 19.96                       | 19.82                     | 20.5                   | 0           |  |
| 15                | 16QAM      | 75      | 0         | 19.84                    | 19.86                       | 19.79                     |                        |             |  |
| 15                | 64QAM      | 1       | 0         | 19.53                    | 19.58                       | 19.57                     |                        |             |  |
| 15                | 64QAM      | 1       | 37        | 19.63                    | 19.73                       | 19.73                     |                        |             |  |
| 15                | 64QAM      | 1       | 74        | 19.58                    | 19.55                       | 19.64                     | 20.5                   | 0           |  |
| 15                | 64QAM      | 36      | 0         | 19.72                    | 19.62                       | 19.67                     |                        |             |  |
| 15                | 64QAM      | 36      | 20        | 19.72                    | 19.76                       | 19.74                     |                        |             |  |
| 15                | 64QAM      | 36      | 39        | 19.83                    | 19.87                       | 19.83                     |                        |             |  |
| 15                | 64QAM      | 75      | 0         | 19.82                    | 19.70                       | 19.82                     |                        |             |  |
| Channel           |            |         |           | 37800                    | 38000                       | 38200                     | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 2575                     | 2595                        | 2615                      |                        |             |  |
| 10                | QPSK       | 1       | 0         | 19.69                    | 19.79                       | 19.75                     | 20.5                   | 0           |  |
| 10                | QPSK       | 1       | 25        | 19.66                    | 19.78                       | 19.73                     |                        |             |  |
| 10                | QPSK       | 1       | 49        | 19.81                    | 19.75                       | 19.63                     |                        |             |  |
| 10                | QPSK       | 25      | 0         | 19.64                    | 19.89                       | 19.83                     |                        |             |  |
| 10                | QPSK       | 25      | 12        | 19.68                    | 19.90                       | 19.68                     | 20.5                   | 0           |  |
| 10                | QPSK       | 25      | 25        | 19.91                    | 19.90                       | 19.76                     |                        |             |  |
| 10                | QPSK       | 50      | 0         | 19.83                    | 19.82                       | 19.85                     |                        |             |  |
| 10                | 16QAM      | 1       | 0         | 19.72                    | 19.89                       | 19.94                     |                        |             |  |
| 10                | 16QAM      | 1       | 25        | 19.62                    | 19.83                       | 19.72                     | 20.5                   | 0           |  |
| 10                | 16QAM      | 1       | 49        | 19.71                    | 19.64                       | 19.88                     |                        |             |  |
| 10                | 16QAM      | 25      | 0         | 19.84                    | 19.70                       | 19.70                     |                        |             |  |
| 10                | 16QAM      | 25      | 12        | 19.76                    | 19.93                       | 19.87                     |                        |             |  |
| 10                | 16QAM      | 25      | 25        | 19.93                    | 19.82                       | 19.93                     | 20.5                   | 0           |  |
| 10                | 16QAM      | 50      | 0         | 19.86                    | 19.93                       | 19.71                     |                        |             |  |
| 10                | 64QAM      | 1       | 0         | 19.62                    | 19.57                       | 19.67                     |                        |             |  |
| 10                | 64QAM      | 1       | 25        | 19.63                    | 19.66                       | 19.68                     |                        |             |  |
| 10                | 64QAM      | 1       | 49        | 19.73                    | 19.70                       | 19.62                     | 20.5                   | 0           |  |
| 10                | 64QAM      | 25      | 0         | 19.65                    | 19.78                       | 19.61                     |                        |             |  |
| 10                | 64QAM      | 25      | 12        | 19.79                    | 19.68                       | 19.79                     |                        |             |  |
| 10                | 64QAM      | 25      | 25        | 19.76                    | 19.91                       | 19.70                     |                        |             |  |
| 10                | 64QAM      | 50      | 0         | 19.75                    | 19.72                       | 19.94                     |                        |             |  |
| Channel           |            |         |           | 37775                    | 38000                       | 38225                     | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 2572.5                   | 2595                        | 2617.5                    |                        |             |  |
| 5                 | QPSK       | 1       | 0         | 19.63                    | 19.81                       | 19.65                     | 20.5                   | 0           |  |
| 5                 | QPSK       | 1       | 12        | 19.79                    | 19.73                       | 19.71                     |                        |             |  |
| 5                 | QPSK       | 1       | 24        | 19.70                    | 19.67                       | 19.82                     |                        |             |  |
| 5                 | QPSK       | 12      | 0         | 19.82                    | 19.88                       | 19.88                     |                        |             |  |
| 5                 | QPSK       | 12      | 7         | 19.87                    | 19.86                       | 19.63                     | 20.5                   | 0           |  |
| 5                 | QPSK       | 12      | 13        | 19.77                    | 19.84                       | 19.82                     |                        |             |  |
| 5                 | QPSK       | 25      | 0         | 19.75                    | 19.75                       | 19.71                     |                        |             |  |
| 5                 | 16QAM      | 1       | 0         | 19.85                    | 19.95                       | 19.92                     |                        |             |  |
| 5                 | 16QAM      | 1       | 12        | 19.82                    | 19.76                       | 19.66                     | 20.5                   | 0           |  |
| 5                 | 16QAM      | 1       | 24        | 19.74                    | 19.78                       | 19.86                     |                        |             |  |
| 5                 | 16QAM      | 12      | 0         | 19.78                    | 19.69                       | 19.82                     |                        |             |  |
| 5                 | 16QAM      | 12      | 7         | 19.80                    | 19.81                       | 19.78                     |                        |             |  |
| 5                 | 16QAM      | 12      | 13        | 19.94                    | 19.85                       | 19.86                     | 20.5                   | 0           |  |
| 5                 | 16QAM      | 25      | 0         | 19.94                    | 19.82                       | 19.77                     |                        |             |  |
| 5                 | 64QAM      | 1       | 0         | 19.47                    | 19.50                       | 19.54                     |                        |             |  |
| 5                 | 64QAM      | 1       | 12        | 19.56                    | 19.67                       | 19.59                     |                        |             |  |
| 5                 | 64QAM      | 1       | 24        | 19.53                    | 19.55                       | 19.59                     | 20.5                   | 0           |  |
| 5                 | 64QAM      | 12      | 0         | 19.58                    | 19.80                       | 19.78                     |                        |             |  |
| 5                 | 64QAM      | 12      | 7         | 19.93                    | 19.76                       | 19.91                     |                        |             |  |
| 5                 | 64QAM      | 12      | 13        | 19.85                    | 19.85                       | 19.90                     |                        |             |  |
| 5                 | 64QAM      | 25      | 0         | 19.73                    | 19.72                       | 19.80                     |                        |             |  |

| Band 41 (2.6G Band) Ant4 DSH1 |            |         |           |                       |                              |                               |                        |                     |          |  |
|-------------------------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                      | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Low Ch. / Freq. | Power Middle High Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                       |            |         |           | 40240                 | 40500                        | 40770                         | 41090                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)               |            |         |           | 2555                  | 2581                         | 2608                          | 2640                   |                     |          |  |
| 20                            | QPSK       | 1       | 0         | 20.58                 | 20.61                        | 20.92                         | 20.73                  | 21.5                | 0        |  |
| 20                            | QPSK       | 1       | 49        | 20.58                 | 20.64                        | 20.75                         | 20.67                  |                     |          |  |
| 20                            | QPSK       | 1       | 99        | 20.59                 | 20.66                        | 20.76                         | 20.67                  |                     |          |  |
| 20                            | QPSK       | 50      | 0         | 20.72                 | 20.77                        | 20.90                         | 20.80                  |                     |          |  |
| 20                            | QPSK       | 50      | 24        | 20.78                 | 20.87                        | 20.86                         | 20.77                  | 21.5                | 0        |  |
| 20                            | QPSK       | 50      | 50        | 20.77                 | 20.85                        | 20.75                         | 20.83                  |                     |          |  |
| 20                            | QPSK       | 100     | 0         | 20.78                 | 20.85                        | 20.88                         | 20.75                  |                     |          |  |
| 20                            | 16QAM      | 1       | 0         | 20.75                 | 20.80                        | 20.82                         | 20.83                  |                     |          |  |
| 20                            | 16QAM      | 1       | 49        | 20.70                 | 20.79                        | 20.88                         | 20.83                  | 21.5                | 0        |  |
| 20                            | 16QAM      | 1       | 99        | 20.71                 | 20.81                        | 20.78                         | 20.84                  |                     |          |  |
| 20                            | 16QAM      | 50      | 0         | 20.73                 | 20.78                        | 20.90                         | 20.82                  |                     |          |  |
| 20                            | 16QAM      | 50      | 24        | 20.84                 | 20.90                        | 20.78                         | 20.83                  |                     |          |  |
| 20                            | 16QAM      | 50      | 50        | 20.81                 | 20.88                        | 20.83                         | 20.85                  | 21.5                | 0        |  |
| 20                            | 16QAM      | 100     | 0         | 20.82                 | 20.90                        | 20.86                         | 20.79                  |                     |          |  |
| 20                            | 64QAM      | 1       | 0         | 20.54                 | 20.55                        | 20.78                         | 20.66                  |                     |          |  |
| 20                            | 64QAM      | 1       | 49        | 20.54                 | 20.55                        | 20.69                         | 20.56                  | 21.5                | 0        |  |
| 20                            | 64QAM      | 1       | 99        | 20.52                 | 20.61                        | 20.70                         | 20.60                  |                     |          |  |
| 20                            | 64QAM      | 50      | 0         | 19.69                 | 19.76                        | 19.84                         | 19.77                  |                     |          |  |
| 20                            | 64QAM      | 50      | 24        | 19.78                 | 19.85                        | 19.91                         | 19.74                  | 20.5                | 1        |  |
| 20                            | 64QAM      | 50      | 50        | 19.76                 | 19.84                        | 19.87                         | 19.81                  |                     |          |  |
| 20                            | 64QAM      | 100     | 0         | 19.85                 | 19.95                        | 19.86                         | 19.85                  |                     |          |  |
| Channel                       |            |         |           | 40215                 | 40465                        | 40735                         | 41115                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)               |            |         |           | 2552.5                | 2580.5                       | 2593.5                        | 2642.5                 |                     |          |  |
| 15                            | QPSK       | 1       | 0         | 20.56                 | 20.52                        | 20.76                         | 20.59                  | 21.5                | 0        |  |
| 15                            | QPSK       | 1       | 37        | 20.39                 | 20.52                        | 20.66                         | 20.63                  |                     |          |  |
| 15                            | QPSK       | 1       | 74        | 20.56                 | 20.48                        | 20.78                         | 20.49                  |                     |          |  |
| 15                            | QPSK       | 38      | 0         | 20.64                 | 20.67                        | 20.82                         | 20.64                  |                     |          |  |
| 15                            | QPSK       | 36      | 20        | 20.80                 | 20.78                        | 20.75                         | 20.58                  | 21.5                | 0        |  |
| 15                            | QPSK       | 36      | 39        | 20.71                 | 20.83                        | 20.73                         | 20.70                  |                     |          |  |
| 15                            | QPSK       | 75      | 0         | 20.86                 | 20.67                        | 20.83                         | 20.58                  |                     |          |  |
| 15                            | 16QAM      | 1       | 0         | 20.64                 | 20.66                        | 20.63                         | 20.76                  |                     |          |  |
| 15                            | 16QAM      | 1       | 37        | 20.59                 | 20.68                        | 20.77                         | 20.61                  | 21.5                | 0        |  |
| 15                            | 16QAM      | 1       | 74        | 20.61                 | 20.68                        | 20.64                         | 20.77                  |                     |          |  |
| 15                            | 16QAM      | 38      | 0         | 20.56                 | 20.64                        | 20.77                         | 20.80                  |                     |          |  |
| 15                            | 16QAM      | 36      | 20        | 20.72                 | 20.71                        | 20.73                         | 20.77                  |                     |          |  |
| 15                            | 16QAM      | 36      | 39        | 20.75                 | 20.75                        | 20.63                         | 20.78                  | 21.5                | 0        |  |
| 15                            | 16QAM      | 75      | 0         | 20.75                 | 20.84                        | 20.70                         | 20.65                  |                     |          |  |
| 15                            | 64QAM      | 1       | 0         | 20.47                 | 20.54                        | 20.72                         | 20.53                  |                     |          |  |
| 15                            | 64QAM      | 1       | 37        | 20.42                 | 20.49                        | 20.67                         | 20.47                  |                     |          |  |
| 15                            | 64QAM      | 1       | 74        | 20.48                 | 20.54                        | 20.61                         | 20.47                  | 21.5                | 0        |  |
| 15                            | 64QAM      | 36      | 0         | 19.57                 | 19.75                        | 19.78                         | 19.74                  |                     |          |  |
| 15                            | 64QAM      | 36      | 20        | 19.71                 | 19.76                        | 19.74                         | 19.56                  |                     |          |  |
| 15                            | 64QAM      | 36      | 39        | 19.67                 | 19.74                        | 19.72                         | 19.62                  |                     |          |  |
| 15                            | 64QAM      | 75      | 0         | 19.75                 | 19.95                        | 19.82                         | 19.73                  | 20.5                | 1        |  |
| Channel                       |            |         |           | 40190                 | 40490                        | 40790                         | 41140                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)               |            |         |           | 2550                  | 2580                         | 2610                          | 2645                   |                     |          |  |
| 10                            | QPSK       | 1       | 0         | 20.44                 | 20.50                        | 20.79                         | 20.59                  | 21.5                | 0        |  |
| 10                            | QPSK       | 1       | 25        | 20.49                 | 20.57                        | 20.57                         | 20.50                  |                     |          |  |
| 10                            | QPSK       | 1       | 49        | 20.58                 | 20.48                        | 20.68                         | 20.49                  |                     |          |  |
| 10                            | QPSK       | 25      | 0         | 20.65                 | 20.67                        | 20.83                         | 20.73                  |                     |          |  |
| 10                            | QPSK       | 25      | 12        | 20.68                 | 20.71                        | 20.73                         | 20.68                  | 21.5                | 0        |  |
| 10                            | QPSK       | 25      | 25        | 20.68                 | 20.81                        | 20.74                         | 20.76                  |                     |          |  |
| 10                            | QPSK       | 50      | 0         | 20.74                 | 20.71                        | 20.87                         | 20.63                  |                     |          |  |
| 10                            | 16QAM      | 1       | 0         | 20.60                 | 20.80                        | 20.63                         | 20.69                  |                     |          |  |
| 10                            | 16QAM      | 1       | 25        | 20.56                 | 20.70                        | 20.83                         | 20.78                  | 21.5                | 0        |  |
| 10                            | 16QAM      | 1       | 49        | 20.51                 | 20.69                        | 20.62                         | 20.80                  |                     |          |  |
| 10                            | 16QAM      | 25      | 0         | 20.58                 | 20.76                        | 20.86                         | 20.72                  |                     |          |  |
| 10                            | 16QAM      | 25      | 12        | 20.83                 | 20.79                        | 20.63                         | 20.64                  |                     |          |  |
| 10                            | 16QAM      | 25      | 25        | 20.61                 | 20.72                        | 20.83                         | 20.84                  | 21.5                | 0        |  |
| 10                            | 16QAM      | 50      | 0         | 20.62                 | 20.74                        | 20.72                         | 20.59                  |                     |          |  |
| 10                            | 64QAM      | 1       | 0         | 20.46                 | 20.51                        | 20.67                         | 20.51                  |                     |          |  |
| 10                            | 64QAM      | 1       | 25        | 20.54                 | 20.46                        | 20.53                         | 20.48                  |                     |          |  |
| 10                            | 64QAM      | 1       | 49        | 20.33                 | 20.46                        | 20.59                         | 20.59                  | 21.5                | 0        |  |
| 10                            | 64QAM      | 25      | 0         | 19.54                 | 19.75                        | 19.68                         | 19.59                  |                     |          |  |
| 10                            | 64QAM      | 25      | 12        | 19.74                 | 19.65                        | 19.76                         | 19.61                  |                     |          |  |
| 10                            | 64QAM      | 25      | 25        | 19.60                 | 19.79                        | 19.70                         | 19.79                  |                     |          |  |
| 10                            | 64QAM      | 50      | 0         | 19.67                 | 19.80                        | 19.71                         | 19.66                  | 20.5                | 1        |  |
| Channel                       |            |         |           | 40165                 | 40485                        | 40805                         | 41165                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)               |            |         |           | 2547.5                | 2579.5                       | 2611.5                        | 2647.5                 |                     |          |  |
| 5                             | QPSK       | 1       | 0         | 20.51                 | 20.48                        | 20.74                         | 20.67                  | 21.5                | 0        |  |
| 5                             | QPSK       | 1       | 12        | 20.50                 | 20.57                        | 20.72                         | 20.57                  |                     |          |  |
| 5                             | QPSK       | 1       | 24        | 20.58                 | 20.60                        | 20.67                         | 20.50                  |                     |          |  |
| 5                             | QPSK       | 12      | 0         | 20.69                 | 20.61                        | 20.88                         | 20.80                  |                     |          |  |
| 5                             | QPSK       | 12      | 7         | 20.75                 | 20.75                        | 20.79                         | 20.73                  | 21.5                | 0        |  |
| 5                             | QPSK       | 12      | 13        | 20.64                 | 20.76                        | 20.69                         | 20.78                  |                     |          |  |
| 5                             | QPSK       | 25      | 0         | 20.61                 | 20.73                        | 20.87                         | 20.70                  |                     |          |  |
| 5                             | 16QAM      | 1       | 0         | 20.57                 | 20.71                        | 20.80                         | 20.82                  |                     |          |  |
| 5                             | 16QAM      | 1       | 12        | 20.55                 | 20.64                        | 20.70                         | 20.72                  | 21.5                | 0        |  |
| 5                             | 16QAM      | 1       | 24        | 20.69                 | 20.65                        | 20.60                         | 20.82                  |                     |          |  |
| 5                             | 16QAM      | 12      | 0         | 20.56                 | 20.72                        | 20.84                         | 20.78                  |                     |          |  |
| 5                             | 16QAM      | 12      | 7         | 20.64                 | 20.75                        | 20.61                         | 20.67                  |                     |          |  |
| 5                             | 16QAM      | 12      | 13        | 20.77                 | 20.85                        | 20.70                         | 20.82                  | 21.5                | 0        |  |
| 5                             | 16QAM      | 25      | 0         | 20.75                 | 20.71                        | 20.76                         | 20.68                  |                     |          |  |
| 5                             | 64QAM      | 1       | 0         | 20.38                 | 20.40                        | 20.74                         | 20.49                  |                     |          |  |
| 5                             | 64QAM      | 1       | 12        | 20.52                 | 20.41                        | 20.61                         | 20.37                  |                     |          |  |
| 5                             | 64QAM      | 1       | 24        | 20.41                 | 20.48                        | 20.55                         | 20.43                  | 21.5                | 0        |  |
| 5                             | 64QAM      | 12      | 0         | 19.52                 | 19.74                        | 19.67                         | 19.67                  |                     |          |  |
| 5                             | 64QAM      | 12      | 7         | 19.68                 | 19.81                        | 19.87                         | 19.73                  |                     |          |  |
| 5                             | 64QAM      | 12      | 13        | 19.58                 | 19.75                        | 19.86                         | 19.81                  |                     |          |  |
| 5                             | 64QAM      | 25      | 0         | 19.77                 | 19.78                        | 19.86                         | 19.74                  | 20.5                | 1        |  |

| Band 42 Part27Q Ant5 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                   |            |         |           | 42190                 | 42590                    | 42990                  | 21.5                | 0        |  |
| Frequency (MHz)           |            |         |           | 3460                  | 3500                     | 3540                   |                     |          |  |
| 20                        | QPSK       | 1       | 0         | 20.17                 | 20.27                    | 20.18                  | 21.5                | 0        |  |
| 20                        | QPSK       | 1       | 49        | 20.05                 | 20.16                    | 20.07                  |                     |          |  |
| 20                        | QPSK       | 1       | 99        | 20.08                 | 20.13                    | 20.05                  |                     |          |  |
| 20                        | QPSK       | 50      | 0         | 20.12                 | 20.23                    | 20.12                  |                     |          |  |
| 20                        | QPSK       | 50      | 24        | 20.11                 | 20.18                    | 20.12                  | 21.5                | 0        |  |
| 20                        | QPSK       | 50      | 50        | 20.16                 | 20.18                    | 20.16                  |                     |          |  |
| 20                        | QPSK       | 100     | 0         | 20.17                 | 20.19                    | 20.11                  |                     |          |  |
| 20                        | 16QAM      | 1       | 0         | 20.05                 | 20.10                    | 20.06                  |                     |          |  |
| 20                        | 16QAM      | 1       | 49        | 20.03                 | 20.11                    | 20.02                  | 21.5                | 0        |  |
| 20                        | 16QAM      | 1       | 99        | 20.12                 | 20.16                    | 20.09                  |                     |          |  |
| 20                        | 16QAM      | 50      | 0         | 20.11                 | 20.19                    | 20.17                  |                     |          |  |
| 20                        | 16QAM      | 50      | 24        | 20.13                 | 20.18                    | 20.13                  |                     |          |  |
| 20                        | 16QAM      | 50      | 50        | 20.13                 | 20.20                    | 20.10                  | 21.5                | 0        |  |
| 20                        | 16QAM      | 100     | 0         | 20.08                 | 20.19                    | 20.15                  |                     |          |  |
| 20                        | 64QAM      | 1       | 0         | 19.58                 | 19.66                    | 19.61                  |                     |          |  |
| 20                        | 64QAM      | 1       | 49        | 19.70                 | 19.71                    | 19.66                  |                     |          |  |
| 20                        | 64QAM      | 1       | 99        | 19.69                 | 19.79                    | 19.72                  | 21.5                | 0        |  |
| 20                        | 64QAM      | 50      | 0         | 20.18                 | 20.22                    | 20.14                  |                     |          |  |
| 20                        | 64QAM      | 50      | 24        | 20.19                 | 20.24                    | 20.14                  |                     |          |  |
| 20                        | 64QAM      | 50      | 50        | 20.10                 | 20.21                    | 20.11                  |                     |          |  |
| 20                        | 64QAM      | 100     | 0         | 20.06                 | 20.16                    | 20.15                  | 21.5                | 0        |  |
| Channel                   |            |         |           | 42165                 | 42590                    | 43015                  |                     |          |  |
| Frequency (MHz)           |            |         |           | 3457.5                | 3500                     | 3542.5                 | 21.5                | 0        |  |
| 15                        | QPSK       | 1       | 0         | 20.08                 | 20.23                    | 20.09                  |                     | 21.5     |  |
| 15                        | QPSK       | 1       | 37        | 20.01                 | 20.06                    | 20.02                  |                     |          |  |
| 15                        | QPSK       | 1       | 74        | 20.00                 | 20.06                    | 20.04                  |                     |          |  |
| 15                        | QPSK       | 36      | 0         | 20.05                 | 20.11                    | 20.07                  |                     |          |  |
| 15                        | QPSK       | 36      | 20        | 20.07                 | 20.17                    | 20.09                  | 21.5                | 0        |  |
| 15                        | QPSK       | 36      | 39        | 20.15                 | 20.22                    | 20.08                  |                     |          |  |
| 15                        | QPSK       | 75      | 0         | 20.15                 | 20.13                    | 20.09                  |                     |          |  |
| 15                        | 16QAM      | 1       | 0         | 19.97                 | 20.06                    | 20.01                  |                     |          |  |
| 15                        | 16QAM      | 1       | 37        | 19.97                 | 20.09                    | 19.99                  | 21.5                | 0        |  |
| 15                        | 16QAM      | 1       | 74        | 20.11                 | 20.06                    | 20.06                  |                     |          |  |
| 15                        | 16QAM      | 36      | 0         | 20.05                 | 20.15                    | 20.15                  |                     |          |  |
| 15                        | 16QAM      | 36      | 20        | 20.02                 | 20.12                    | 20.02                  |                     |          |  |
| 15                        | 16QAM      | 36      | 39        | 20.03                 | 20.14                    | 20.02                  | 21.5                | 0        |  |
| 15                        | 16QAM      | 75      | 0         | 20.03                 | 20.16                    | 20.11                  |                     |          |  |
| 15                        | 64QAM      | 1       | 0         | 19.53                 | 19.64                    | 19.57                  |                     |          |  |
| 15                        | 64QAM      | 1       | 37        | 19.61                 | 19.66                    | 19.55                  |                     |          |  |
| 15                        | 64QAM      | 1       | 74        | 19.66                 | 19.74                    | 19.68                  | 21.5                | 0        |  |
| 15                        | 64QAM      | 36      | 0         | 20.09                 | 20.13                    | 20.10                  |                     |          |  |
| 15                        | 64QAM      | 36      | 20        | 20.10                 | 20.22                    | 20.05                  |                     |          |  |
| 15                        | 64QAM      | 36      | 39        | 20.09                 | 20.19                    | 20.09                  |                     |          |  |
| 15                        | 64QAM      | 75      | 0         | 20.04                 | 20.07                    | 20.05                  | 21.5                | 0        |  |
| Channel                   |            |         |           | 42140                 | 42590                    | 43040                  |                     |          |  |
| Frequency (MHz)           |            |         |           | 3455                  | 3500                     | 3545                   | 21.5                | 0        |  |
| 10                        | QPSK       | 1       | 0         | 20.07                 | 20.25                    | 20.16                  |                     | 21.5     |  |
| 10                        | QPSK       | 1       | 25        | 20.04                 | 20.14                    | 20.00                  |                     |          |  |
| 10                        | QPSK       | 1       | 49        | 20.01                 | 20.04                    | 19.99                  |                     |          |  |
| 10                        | QPSK       | 25      | 0         | 20.03                 | 20.08                    | 20.11                  |                     |          |  |
| 10                        | QPSK       | 25      | 12        | 20.06                 | 20.16                    | 20.04                  | 21.5                | 0        |  |
| 10                        | QPSK       | 25      | 25        | 20.09                 | 20.14                    | 20.06                  |                     |          |  |
| 10                        | QPSK       | 50      | 0         | 20.09                 | 20.17                    | 20.03                  |                     |          |  |
| 10                        | 16QAM      | 1       | 0         | 20.03                 | 20.02                    | 20.01                  |                     |          |  |
| 10                        | 16QAM      | 1       | 25        | 19.98                 | 20.00                    | 19.96                  | 21.5                | 0        |  |
| 10                        | 16QAM      | 1       | 49        | 20.06                 | 20.08                    | 20.06                  |                     |          |  |
| 10                        | 16QAM      | 25      | 0         | 20.07                 | 20.13                    | 20.10                  |                     |          |  |
| 10                        | 16QAM      | 25      | 12        | 20.10                 | 20.08                    | 20.09                  |                     |          |  |
| 10                        | 16QAM      | 25      | 25        | 20.08                 | 20.14                    | 20.06                  | 21.5                | 0        |  |
| 10                        | 16QAM      | 50      | 0         | 19.98                 | 20.12                    | 20.04                  |                     |          |  |
| 10                        | 64QAM      | 1       | 0         | 19.53                 | 19.64                    | 19.52                  |                     |          |  |
| 10                        | 64QAM      | 1       | 25        | 19.61                 | 19.67                    | 19.64                  |                     |          |  |
| 10                        | 64QAM      | 1       | 49        | 19.67                 | 19.75                    | 19.66                  | 21.5                | 0        |  |
| 10                        | 64QAM      | 25      | 0         | 20.08                 | 20.19                    | 20.08                  |                     |          |  |
| 10                        | 64QAM      | 25      | 12        | 20.14                 | 20.22                    | 20.04                  |                     |          |  |
| 10                        | 64QAM      | 25      | 25        | 20.02                 | 20.13                    | 20.02                  |                     |          |  |
| 10                        | 64QAM      | 50      | 0         | 19.98                 | 20.15                    | 20.07                  | 21.5                | 0        |  |
| Channel                   |            |         |           | 42115                 | 42590                    | 43065                  |                     |          |  |
| Frequency (MHz)           |            |         |           | 3452.5                | 3500                     | 3547.5                 | 21.5                | 0        |  |
| 5                         | QPSK       | 1       | 0         | 20.16                 | 20.17                    | 20.16                  |                     | 21.5     |  |
| 5                         | QPSK       | 1       | 12        | 19.94                 | 20.15                    | 19.99                  |                     |          |  |
| 5                         | QPSK       | 1       | 24        | 20.04                 | 20.06                    | 19.96                  |                     |          |  |
| 5                         | QPSK       | 12      | 0         | 20.11                 | 20.12                    | 20.02                  |                     |          |  |
| 5                         | QPSK       | 12      | 7         | 20.03                 | 20.16                    | 20.07                  | 21.5                | 0        |  |
| 5                         | QPSK       | 12      | 13        | 20.10                 | 20.12                    | 20.11                  |                     |          |  |
| 5                         | QPSK       | 25      | 0         | 20.10                 | 20.10                    | 20.07                  |                     |          |  |
| 5                         | 16QAM      | 1       | 0         | 19.96                 | 20.04                    | 19.99                  |                     |          |  |
| 5                         | 16QAM      | 1       | 12        | 19.93                 | 20.08                    | 19.93                  | 21.5                | 0        |  |
| 5                         | 16QAM      | 1       | 24        | 20.03                 | 20.07                    | 20.06                  |                     |          |  |
| 5                         | 16QAM      | 12      | 0         | 20.04                 | 20.18                    | 20.14                  |                     |          |  |
| 5                         | 16QAM      | 12      | 7         | 20.08                 | 20.08                    | 20.12                  |                     |          |  |
| 5                         | 16QAM      | 12      | 13        | 20.06                 | 20.09                    | 20.02                  | 21.5                | 0        |  |
| 5                         | 16QAM      | 25      | 0         | 20.04                 | 20.09                    | 20.09                  |                     |          |  |
| 5                         | 64QAM      | 1       | 0         | 19.56                 | 19.56                    | 19.54                  |                     |          |  |
| 5                         | 64QAM      | 1       | 12        | 19.68                 | 19.63                    | 19.57                  |                     |          |  |
| 5                         | 64QAM      | 1       | 24        | 19.68                 | 19.73                    | 19.67                  | 21.5                | 0        |  |
| 5                         | 64QAM      | 12      | 0         | 20.16                 | 20.18                    | 20.05                  |                     |          |  |
| 5                         | 64QAM      | 12      | 7         | 20.14                 | 20.16                    | 20.07                  |                     |          |  |
| 5                         | 64QAM      | 12      | 13        | 20.05                 | 20.18                    | 20.10                  |                     |          |  |
| 5                         | 64QAM      | 25      | 0         | 20.04                 | 20.09                    | 20.11                  | 21.5                | 0        |  |
| Channel                   |            |         |           | 42115                 | 42590                    | 43065                  |                     |          |  |
| Frequency (MHz)           |            |         |           | 3452.5                | 3500                     | 3547.5                 |                     |          |  |
| 5                         | QPSK       | 1       | 0         | 20.16                 | 20.17                    | 20.16                  | 21.5                | 0        |  |
| 5                         | QPSK       | 1       | 12        | 19.94                 | 20.15                    | 19.99                  |                     |          |  |
| 5                         | QPSK       | 1       | 24        | 20.04                 | 20.06                    | 19.96                  |                     |          |  |
| 5                         | QPSK       | 12      | 0         | 20.11                 | 20.12                    | 20.02                  |                     |          |  |
| 5                         | QPSK       | 12      | 7         | 20.03                 | 20.16                    | 20.07                  | 21.5                | 0        |  |
| 5                         | QPSK       | 12      | 13        | 20.10                 | 20.12                    | 20.11                  |                     |          |  |
| 5                         | QPSK       | 25      | 0         | 20.10                 | 20.10                    | 20.07                  |                     |          |  |
| 5                         | 16QAM      | 1       | 0         | 19.96                 | 20.04                    | 19.99                  |                     |          |  |
| 5                         | 16QAM      | 1       | 12        | 19.93                 | 20.08                    | 19.93                  | 21.5                | 0        |  |
| 5                         | 16QAM      | 1       | 24        | 20.03                 | 20.07                    | 20.06                  |                     |          |  |
| 5                         | 16QAM      | 12      | 0         | 20.04                 | 20.18                    | 20.14                  |                     |          |  |
| 5                         | 16QAM      | 12      | 7         | 20.08                 | 20.08                    | 20.12                  |                     |          |  |
| 5                         | 16QAM      | 12      | 13        | 20.06                 | 20.09                    | 20.02                  | 21.5                | 0        |  |
| 5                         | 16QAM      | 25      | 0         | 20.04                 | 20.09                    | 20.09                  |                     |          |  |
| 5                         | 64QAM      | 1       | 0         | 19.56                 | 19.56                    | 19.54                  |                     |          |  |
| 5                         | 64QAM      | 1       | 12        | 19.68                 | 19.63                    | 19.57                  |                     |          |  |
| 5                         | 64QAM      | 1       | 24        | 19.68                 | 19.73                    | 19.67                  | 21.5                | 0        |  |
| 5                         | 64QAM      | 12      | 0         | 20.16                 | 20.18                    | 20.05                  |                     |          |  |
| 5                         | 64QAM      | 12      | 7         | 20.14                 | 20.16                    | 20.07                  |                     |          |  |
| 5                         | 64QAM      | 12      | 13        | 20.05                 | 20.18                    | 20.10                  |                     |          |  |
| 5                         | 64QAM      | 25      | 0         | 20.04                 | 20.09                    | 20.11                  | 21.5                | 0        |  |
| Channel                   |            |         |           | 42115                 | 42590                    | 43065                  |                     |          |  |
| Frequency (MHz)           |            |         |           | 3452.5                | 3500                     | 3547.5                 |                     |          |  |
| 5                         | QPSK       | 1       | 0         | 20.16                 | 20.17                    | 20.16                  | 21.5                | 0        |  |
| 5                         | QPSK       | 1       | 12        | 19.94                 | 20.15                    | 19.99                  |                     |          |  |
| 5                         | QPSK       | 1       | 24        | 20.04                 | 20.06                    | 19.96                  |                     |          |  |
| 5                         | QPSK       | 12      | 0         | 20.11                 | 20.12                    | 20.02                  |                     |          |  |
| 5                         | QPSK       | 12      | 7         | 20.03                 | 20.16                    | 20.07                  | 21.5                | 0        |  |
| 5                         | QPSK       | 12      | 13        | 20.10                 | 20.12                    | 20.11                  |                     |          |  |
| 5                         | QPSK       | 25      | 0         | 20.10                 | 20.10                    | 20.07                  |                     |          |  |
| 5                         | 16QAM      | 1       | 0         | 19.96                 | 20.04                    | 19.99                  |                     |          |  |
| 5                         | 16QAM      | 1       | 12        | 19.93                 | 20.08                    | 19.93                  | 21.5                | 0        |  |
| 5                         | 16QAM      | 1       | 24        | 20.03                 | 20.07                    | 20.06                  |                     |          |  |
| 5                         | 16QAM      | 12      | 0         | 20.04                 | 20.18                    | 20.14                  |                     |          |  |

| GSM850 Ant0 DS12 |                           |       |       |                     |                           |
|------------------|---------------------------|-------|-------|---------------------|---------------------------|
| GSM850           | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |
|                  | 128                       | 189   | 251   |                     |                           |
| TX Channel       | 824.2                     | 836.4 | 848.8 | 824.2               | 836.4                     |
| Frequency (MHz)  | 824.2                     | 836.4 | 848.8 | 824.2               | 836.4                     |
| GSM 1 Tx slot    | 32.15                     | 32.10 | 31.97 | 33.50               | 23.15                     |
| GPRS 1 Tx slot   | 32.21                     | 32.04 | 31.89 | 33.50               | 23.21                     |
| GPRS 2 Tx slots  | 29.43                     | 29.46 | 29.27 | 30.50               | 23.43                     |
| GPRS 3 Tx slots  | 27.33                     | 27.74 | 27.67 | 28.50               | 23.07                     |
| GPRS 4 Tx slots  | 26.00                     | 26.32 | 26.30 | 27.50               | 23.00                     |
| EDGE 1 Tx slot   | 25.94                     | 25.96 | 25.85 | 27.50               | 16.94                     |
| EDGE 2 Tx slots  | 23.17                     | 23.11 | 23.14 | 24.50               | 17.17                     |
| EDGE 3 Tx slots  | 21.19                     | 21.24 | 21.16 | 23.00               | 16.93                     |
| EDGE 4 Tx slots  | 19.84                     | 20.12 | 20.03 | 21.50               | 16.84                     |

| GSM1900 Ant0 DS12 |                           |       |        |                     |                           |
|-------------------|---------------------------|-------|--------|---------------------|---------------------------|
| GSM1900           | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |
|                   | 512                       | 661   | 810    |                     |                           |
| TX Channel        | 1850.2                    | 1880  | 1909.8 | 1850.2              | 1880                      |
| Frequency (MHz)   | 1850.2                    | 1880  | 1909.8 | 1850.2              | 1880                      |
| GSM 1 Tx slot     | 29.27                     | 29.33 | 29.21  | 30.50               | 20.27                     |
| GPRS 1 Tx slot    | 28.34                     | 29.28 | 29.10  | 30.50               | 20.34                     |
| GPRS 2 Tx slots   | 26.70                     | 26.64 | 26.39  | 27.50               | 20.70                     |
| GPRS 3 Tx slots   | 24.63                     | 24.82 | 24.61  | 25.50               | 20.37                     |
| GPRS 4 Tx slots   | 23.17                     | 23.52 | 23.43  | 24.50               | 20.17                     |
| EDGE 1 Tx slot    | 25.23                     | 25.39 | 25.18  | 26.50               | 16.23                     |
| EDGE 2 Tx slots   | 22.51                     | 22.45 | 22.27  | 24.00               | 16.51                     |
| EDGE 3 Tx slots   | 19.92                     | 19.62 | 19.73  | 21.50               | 15.66                     |
| EDGE 4 Tx slots   | 19.97                     | 19.69 | 19.85  | 20.50               | 16.97                     |

| WCDMA II Ant0 DS12 |        |       |        |                     |                           |
|--------------------|--------|-------|--------|---------------------|---------------------------|
| WCDMA II           |        |       |        |                     |                           |
| Band               | 9262   | 9400  | 9538   | Tune-up Limit (dBm) | Frame-Average Power (dBm) |
| TX Channel         | 9662   | 9800  | 9938   |                     |                           |
| Rx Channel         | 1852.4 | 1880  | 1907.6 | 1852.4              | 1880                      |
| Frequency (MHz)    | 1852.4 | 1880  | 1907.6 | 1852.4              | 1880                      |
| 3GPP Rel 99        | 24.38  | 24.33 | 24.31  | 25.50               | 24.10                     |
| 3GPP Rel 99        | 24.40  | 24.43 | 24.36  | 25.50               | 24.14                     |
| 3GPP Rel 6         | 23.80  | 23.83 | 23.81  | 24.50               | 23.21                     |
| 3GPP Rel 6         | 23.77  | 23.82 | 23.80  | 24.50               | 23.23                     |
| 3GPP Rel 6         | 22.96  | 23.26 | 23.30  | 24.00               | 22.72                     |
| 3GPP Rel 6         | 23.31  | 23.32 | 23.27  | 24.00               | 22.71                     |
| 3GPP Rel 8         | 23.85  | 23.80 | 23.79  | 24.50               | 23.08                     |
| 3GPP Rel 8         | 23.77  | 23.87 | 23.86  | 24.50               | 23.11                     |
| 3GPP Rel 8         | 23.02  | 23.22 | 23.25  | 24.00               | 22.60                     |
| 3GPP Rel 8         | 23.27  | 23.37 | 23.29  | 24.00               | 22.59                     |
| 3GPP Rel 6         | 23.46  | 23.45 | 23.37  | 24.50               | 23.17                     |
| 3GPP Rel 6         | 21.42  | 21.43 | 21.33  | 22.50               | 21.17                     |
| 3GPP Rel 6         | 22.44  | 22.47 | 22.34  | 23.50               | 22.19                     |
| 3GPP Rel 6         | 21.45  | 21.46 | 21.28  | 22.50               | 21.12                     |
| 3GPP Rel 6         | 23.40  | 23.50 | 23.40  | 24.50               | 23.90                     |

| WCDMA IV Ant0 DS12 |        |        |        |                     |                           |
|--------------------|--------|--------|--------|---------------------|---------------------------|
| WCDMA IV           |        |        |        |                     |                           |
| Band               | 4132   | 4182   | 4233   | Tune-up Limit (dBm) | Frame-Average Power (dBm) |
| TX Channel         | 4357   | 4407   | 4458   |                     |                           |
| Rx Channel         | 1712.4 | 1732.6 | 1752.6 | 1712.4              | 1732.6                    |
| Frequency (MHz)    | 1712.4 | 1732.6 | 1752.6 | 1712.4              | 1732.6                    |
| 3GPP Rel 99        | 24.10  | 24.13  | 24.11  | 25.50               | 24.10                     |
| 3GPP Rel 99        | 24.14  | 24.17  | 24.09  | 25.50               | 24.14                     |
| 3GPP Rel 6         | 23.21  | 23.20  | 23.05  | 24.50               | 23.21                     |
| 3GPP Rel 6         | 23.23  | 23.18  | 23.11  | 24.50               | 23.23                     |
| 3GPP Rel 6         | 22.96  | 23.26  | 23.30  | 24.00               | 22.72                     |
| 3GPP Rel 6         | 23.31  | 23.32  | 23.27  | 24.00               | 22.71                     |
| 3GPP Rel 8         | 23.85  | 23.80  | 23.79  | 24.50               | 23.08                     |
| 3GPP Rel 8         | 23.77  | 23.87  | 23.86  | 24.50               | 23.11                     |
| 3GPP Rel 8         | 23.02  | 23.22  | 23.25  | 24.00               | 22.60                     |
| 3GPP Rel 8         | 23.27  | 23.37  | 23.29  | 24.00               | 22.59                     |
| 3GPP Rel 6         | 23.46  | 23.45  | 23.37  | 24.50               | 23.17                     |
| 3GPP Rel 6         | 21.42  | 21.43  | 21.33  | 22.50               | 21.17                     |
| 3GPP Rel 6         | 22.44  | 22.47  | 22.34  | 23.50               | 22.19                     |
| 3GPP Rel 6         | 21.45  | 21.46  | 21.28  | 22.50               | 21.12                     |
| 3GPP Rel 6         | 23.40  | 23.50  | 23.40  | 24.50               | 23.90                     |

| WCDMA V Ant0 DS12 |        |        |        |                     |                           |
|-------------------|--------|--------|--------|---------------------|---------------------------|
| WCDMA V           |        |        |        |                     |                           |
| Band              | 4132   | 4182   | 4233   | Tune-up Limit (dBm) | Frame-Average Power (dBm) |
| TX Channel        | 4357   | 4407   | 4458   |                     |                           |
| Rx Channel        | 1712.4 | 1732.6 | 1752.6 | 1712.4              | 1732.6                    |
| Frequency (MHz)   | 1712.4 | 1732.6 | 1752.6 | 1712.4              | 1732.6                    |
| 3GPP Rel 99       | 24.10  | 24.13  | 24.11  | 25.50               | 24.10                     |
| 3GPP Rel 99       | 24.14  | 24.17  | 24.09  | 25.50               | 24.14                     |
| 3GPP Rel 6        | 23.21  | 23.20  | 23.05  | 24.50               | 23.21                     |
| 3GPP Rel 6        | 23.23  | 23.18  | 23.11  | 24.50               | 23.23                     |
| 3GPP Rel 6        | 22.96  | 23.26  | 23.30  | 24.00               | 22.72                     |
| 3GPP Rel 6        | 23.31  | 23.32  | 23.27  | 24.00               | 22.71                     |
| 3GPP Rel 8        | 23.85  | 23.80  | 23.79  | 24.50               | 23.08                     |
| 3GPP Rel 8        | 23.77  | 23.87  | 23.86  | 24.50               | 23.11                     |
| 3GPP Rel 8        | 23.02  | 23.22  | 23.25  | 24.00               | 22.60                     |
| 3GPP Rel 8        | 23.27  | 23.37  | 23.29  | 24.00               | 22.59                     |
| 3GPP Rel 6        | 23.46  | 23.45  | 23.37  | 24.50               | 23.17                     |
| 3GPP Rel 6        | 21.42  | 21.43  | 21.33  | 22.50               | 21.17                     |
| 3GPP Rel 6        | 22.44  | 22.47  | 22.34  | 23.50               | 22.19                     |
| 3GPP Rel 6        | 21.45  | 21.46  | 21.28  | 22.50               | 21.12                     |
| 3GPP Rel 6        | 23.40  | 23.50  | 23.40  | 24.50               | 23.90                     |



| Band 2 Ant0 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          |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |
| 20               | QPSK       | 1       | 0         | 23.02                 | 23.31                    | 23.08                  | 24.5                | 0        |  |  |
| 20               | QPSK       | 1       | 49        | 23.10                 | 23.05                    | 23.23                  |                     |          |  |  |
| 20               | QPSK       | 1       | 99        | 23.23                 | 22.99                    | 22.99                  |                     |          |  |  |
| 20               | QPSK       | 50      | 0         | 22.17                 | 22.29                    | 22.13                  | 23.5                | 1        |  |  |
| 20               | QPSK       | 50      | 24        | 22.22                 | 22.10                    | 22.10                  |                     |          |  |  |
| 20               | QPSK       | 50      | 50        | 22.22                 | 22.11                    | 21.97                  |                     |          |  |  |
| 20               | QPSK       | 100     | 0         | 22.26                 | 22.31                    | 22.13                  | 23.5                | 1        |  |  |
| 20               | 16QAM      | 1       | 0         | 21.97                 | 21.99                    | 22.25                  |                     |          |  |  |
| 20               | 16QAM      | 1       | 49        | 21.95                 | 22.18                    | 22.26                  |                     |          |  |  |
| 20               | 16QAM      | 1       | 99        | 22.09                 | 22.20                    | 22.20                  | 22.5                | 2        |  |  |
| 20               | 16QAM      | 50      | 0         | 21.21                 | 21.07                    | 21.11                  |                     |          |  |  |
| 20               | 16QAM      | 50      | 24        | 21.26                 | 21.25                    | 21.13                  |                     |          |  |  |
| 20               | 16QAM      | 50      | 50        | 21.25                 | 21.22                    | 21.00                  | 22.5                | 2        |  |  |
| 20               | 16QAM      | 100     | 0         | 21.21                 | 21.07                    | 21.11                  |                     |          |  |  |
| 20               | 64QAM      | 1       | 0         | 21.04                 | 21.27                    | 21.09                  |                     |          |  |  |
| 20               | 64QAM      | 1       | 49        | 20.89                 | 21.16                    | 20.93                  | 22.5                | 2        |  |  |
| 20               | 64QAM      | 1       | 99        | 21.05                 | 20.89                    | 21.17                  |                     |          |  |  |
| 20               | 64QAM      | 50      | 0         | 20.26                 | 20.14                    | 20.14                  |                     |          |  |  |
| 20               | 64QAM      | 50      | 24        | 20.27                 | 20.10                    | 20.04                  | 21.5                | 3        |  |  |
| 20               | 64QAM      | 50      | 50        | 20.21                 | 20.12                    | 19.97                  |                     |          |  |  |
| 20               | 64QAM      | 100     | 0         | 20.29                 | 20.09                    | 20.11                  |                     |          |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |
| 15               | QPSK       | 1       | 0         | 18.675                | 18.900                   | 18.125                 | 24.5                | 0        |  |  |
| 15               | QPSK       | 1       | 0         | 23.16                 | 23.28                    | 23.18                  |                     |          |  |  |
| 15               | QPSK       | 1       | 37        | 23.15                 | 23.15                    | 23.20                  |                     |          |  |  |
| 15               | QPSK       | 1       | 74        | 23.20                 | 23.12                    | 23.04                  | 23.5                | 1        |  |  |
| 15               | QPSK       | 36      | 0         | 22.22                 | 22.22                    | 22.15                  |                     |          |  |  |
| 15               | QPSK       | 36      | 20        | 22.24                 | 22.19                    | 22.13                  |                     |          |  |  |
| 15               | QPSK       | 36      | 39        | 22.26                 | 22.06                    | 22.10                  | 23.5                | 1        |  |  |
| 15               | QPSK       | 75      | 0         | 22.25                 | 22.14                    | 22.11                  |                     |          |  |  |
| 15               | 16QAM      | 1       | 0         | 22.42                 | 22.24                    | 22.22                  |                     |          |  |  |
| 15               | 16QAM      | 1       | 37        | 22.30                 | 22.44                    | 22.17                  | 22.5                | 1        |  |  |
| 15               | 16QAM      | 1       | 74        | 22.45                 | 22.34                    | 22.39                  |                     |          |  |  |
| 15               | 16QAM      | 36      | 0         | 21.31                 | 21.15                    | 21.12                  |                     |          |  |  |
| 15               | 16QAM      | 36      | 20        | 21.16                 | 21.14                    | 21.13                  | 22.5                | 2        |  |  |
| 15               | 16QAM      | 36      | 39        | 21.16                 | 21.16                    | 21.18                  |                     |          |  |  |
| 15               | 16QAM      | 75      | 0         | 21.24                 | 21.17                    | 21.17                  |                     |          |  |  |
| 15               | 64QAM      | 1       | 0         | 21.10                 | 21.25                    | 21.28                  | 22.5                | 2        |  |  |
| 15               | 64QAM      | 1       | 37        | 21.29                 | 21.08                    | 21.17                  |                     |          |  |  |
| 15               | 64QAM      | 1       | 74        | 21.12                 | 21.22                    | 21.29                  |                     |          |  |  |
| 15               | 64QAM      | 36      | 0         | 20.19                 | 20.11                    | 20.12                  | 21.5                | 3        |  |  |
| 15               | 64QAM      | 36      | 20        | 20.23                 | 20.21                    | 20.16                  |                     |          |  |  |
| 15               | 64QAM      | 36      | 39        | 20.18                 | 20.12                    | 19.95                  |                     |          |  |  |
| 15               | 64QAM      | 75      | 0         | 20.18                 | 20.18                    | 20.05                  |                     |          |  |  |
| 15               | 64QAM      | 75      | 0         | 20.18                 | 20.18                    | 20.05                  |                     |          |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |
| 10               | QPSK       | 1       | 0         | 18.650                | 18.900                   | 19.150                 | 24.5                | 0        |  |  |
| 10               | QPSK       | 1       | 0         | 23.23                 | 23.29                    | 23.25                  |                     |          |  |  |
| 10               | QPSK       | 1       | 25        | 23.24                 | 23.14                    | 22.94                  |                     |          |  |  |
| 10               | QPSK       | 1       | 49        | 23.15                 | 22.92                    | 23.00                  | 23.5                | 1        |  |  |
| 10               | QPSK       | 25      | 0         | 22.39                 | 22.27                    | 22.22                  |                     |          |  |  |
| 10               | QPSK       | 25      | 12        | 22.30                 | 22.30                    | 22.33                  |                     |          |  |  |
| 10               | QPSK       | 25      | 25        | 22.33                 | 22.23                    | 22.22                  | 23.5                | 1        |  |  |
| 10               | QPSK       | 50      | 0         | 22.39                 | 22.26                    | 22.24                  |                     |          |  |  |
| 10               | 16QAM      | 1       | 0         | 22.28                 | 22.22                    | 22.39                  |                     |          |  |  |
| 10               | 16QAM      | 1       | 25        | 22.42                 | 22.45                    | 22.15                  | 22.5                | 2        |  |  |
| 10               | 16QAM      | 1       | 49        | 22.26                 | 22.37                    | 22.23                  |                     |          |  |  |
| 10               | 16QAM      | 25      | 0         | 21.44                 | 21.49                    | 21.25                  |                     |          |  |  |
| 10               | 16QAM      | 25      | 12        | 21.40                 | 21.32                    | 21.23                  | 22.5                | 2        |  |  |
| 10               | 16QAM      | 25      | 25        | 21.25                 | 21.20                    | 21.03                  |                     |          |  |  |
| 10               | 16QAM      | 50      | 0         | 21.39                 | 21.21                    | 21.30                  |                     |          |  |  |
| 10               | 64QAM      | 1       | 0         | 21.44                 | 21.33                    | 21.39                  | 22.5                | 2        |  |  |
| 10               | 64QAM      | 1       | 25        | 21.34                 | 21.13                    | 21.37                  |                     |          |  |  |
| 10               | 64QAM      | 1       | 49        | 21.22                 | 21.11                    | 21.20                  |                     |          |  |  |
| 10               | 64QAM      | 25      | 0         | 20.34                 | 20.31                    | 20.24                  | 21.5                | 3        |  |  |
| 10               | 64QAM      | 25      | 12        | 20.33                 | 20.23                    | 20.24                  |                     |          |  |  |
| 10               | 64QAM      | 25      | 25        | 20.28                 | 20.19                    | 20.05                  |                     |          |  |  |
| 10               | 64QAM      | 50      | 0         | 20.30                 | 20.33                    | 20.29                  |                     |          |  |  |
| 10               | 64QAM      | 50      | 0         | 20.30                 | 20.33                    | 20.29                  |                     |          |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |
| 5                | QPSK       | 1       | 0         | 18.625                | 18.900                   | 19.175                 | 24.5                | 0        |  |  |
| 5                | QPSK       | 1       | 0         | 23.25                 | 23.27                    | 22.98                  |                     |          |  |  |
| 5                | QPSK       | 1       | 12        | 23.30                 | 23.92                    | 23.02                  |                     |          |  |  |
| 5                | QPSK       | 1       | 24        | 23.17                 | 23.00                    | 23.03                  | 23.5                | 1        |  |  |
| 5                | QPSK       | 12      | 0         | 22.32                 | 22.34                    | 22.25                  |                     |          |  |  |
| 5                | QPSK       | 12      | 7         | 22.28                 | 22.37                    | 22.26                  |                     |          |  |  |
| 5                | QPSK       | 12      | 13        | 22.34                 | 22.22                    | 22.16                  | 23.5                | 1        |  |  |
| 5                | QPSK       | 25      | 0         | 22.33                 | 22.29                    | 22.15                  |                     |          |  |  |
| 5                | 16QAM      | 1       | 0         | 22.19                 | 22.37                    | 22.21                  |                     |          |  |  |
| 5                | 16QAM      | 1       | 12        | 22.32                 | 22.21                    | 22.20                  | 23.5                | 1        |  |  |
| 5                | 16QAM      | 1       | 24        | 22.31                 | 22.53                    | 22.45                  |                     |          |  |  |
| 5                | 16QAM      | 12      | 0         | 21.28                 | 21.29                    | 21.33                  |                     |          |  |  |
| 5                | 16QAM      | 12      | 7         | 21.63                 | 21.48                    | 21.21                  | 22.5                | 2        |  |  |
| 5                | 16QAM      | 12      | 13        | 21.41                 | 21.22                    | 21.25                  |                     |          |  |  |
| 5                | 16QAM      | 25      | 0         | 21.47                 | 21.23                    | 21.22                  |                     |          |  |  |
| 5                | 64QAM      | 1       | 0         | 21.36                 | 21.27                    | 21.53                  | 22.5                | 2        |  |  |
| 5                | 64QAM      | 1       | 12        | 21.41                 | 21.34                    | 21.21                  |                     |          |  |  |
| 5                | 64QAM      | 1       | 24        | 21.36                 | 21.40                    | 21.30                  |                     |          |  |  |
| 5                | 64QAM      | 12      | 0         | 20.43                 | 20.42                    | 20.35                  | 21.5                | 3        |  |  |
| 5                | 64QAM      | 12      | 7         | 20.26                 | 20.31                    | 20.23                  |                     |          |  |  |
| 5                | 64QAM      | 12      | 13        | 20.33                 | 20.11                    | 20.02                  |                     |          |  |  |
| 5                | 64QAM      | 25      | 0         | 20.34                 | 20.20                    | 20.23                  |                     |          |  |  |
| 5                | 64QAM      | 25      | 0         | 20.34                 | 20.20                    | 20.23                  |                     |          |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |
| 3                | QPSK       | 1       | 0         | 18.515                | 18.800                   | 19.065                 | 24.5                | 0        |  |  |
| 3                | QPSK       | 1       | 8         | 23.17                 | 23.30                    | 23.09                  |                     |          |  |  |
| 3                | QPSK       | 1       | 14        | 23.24                 | 23.18                    | 23.06                  |                     |          |  |  |
| 3                | QPSK       | 8       | 0         | 22.18                 | 22.21                    | 22.04                  | 23.5                | 1        |  |  |
| 3                | QPSK       | 8       | 4         | 22.15                 | 22.22                    | 21.99                  |                     |          |  |  |
| 3                | QPSK       | 8       | 7         | 22.10                 | 22.08                    | 22.01                  |                     |          |  |  |
| 3                | QPSK       | 15      | 0         | 22.14                 | 22.13                    | 21.98                  | 23.5                | 1        |  |  |
| 3                | 16QAM      | 1       | 0         | 22.38                 | 22.49                    | 22.17                  |                     |          |  |  |
| 3                | 16QAM      | 1       | 8         | 22.19                 | 22.40                    | 22.18                  |                     |          |  |  |
| 3                | 16QAM      | 1       | 14        | 22.13                 | 22.50                    | 22.22                  | 22.5                | 2        |  |  |
| 3                | 16QAM      | 8       | 0         | 21.15                 | 21.35                    | 21.19                  |                     |          |  |  |
| 3                | 16QAM      | 8       | 4         | 21.14                 | 21.20                    | 21.16                  |                     |          |  |  |
| 3                | 16QAM      | 8       | 7         | 21.30                 | 21.12                    | 21.25                  | 22.5                | 2        |  |  |
| 3                | 16QAM      | 15      | 0         | 21.20                 | 21.13                    | 21.22                  |                     |          |  |  |
| 3                | 64QAM      | 1       | 0         | 21.31                 | 21.39                    | 21.27                  |                     |          |  |  |
| 3                | 64QAM      | 1       | 8         | 21.36                 | 21.17                    | 21.26                  | 21.5                | 3        |  |  |
| 3                | 64QAM      | 1       | 14        | 21.25                 | 21.38                    | 21.09                  |                     |          |  |  |
| 3                | 64QAM      | 8       | 0         | 20.30                 | 20.20                    | 20.11                  |                     |          |  |  |
| 3                | 64QAM      | 8       | 4         | 20.03                 | 20.13                    | 20.05                  | 21.5                | 3        |  |  |
| 3                | 64QAM      | 8       | 7         | 20.31                 | 20.16                    | 20.09                  |                     |          |  |  |
| 3                | 64QAM      | 15      | 0         | 20.18                 | 20.21                    | 19.95                  |                     |          |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |
| 1.4              | QPSK       | 1       | 0         | 18.607                | 18.900                   | 19.193                 | 24.5                | 0        |  |  |
| 1.4              | QPSK       | 1       | 0         | 23.08                 | 23.29                    | 22.89                  |                     |          |  |  |
| 1.4              | QPSK       | 1       | 3         | 23.09                 | 23.06                    | 22.98                  |                     |          |  |  |
| 1.4              | QPSK       | 1       | 5         | 22.95                 | 23.07                    | 22.85                  | 23.5                | 1        |  |  |
| 1.4              | QPSK       | 3       | 0         | 23.09                 | 23.19                    | 22.92                  |                     |          |  |  |
| 1.4              | QPSK       | 3       | 1         | 23.15                 | 23.20                    | 23.30                  |                     |          |  |  |
| 1.4              | QPSK       | 3       | 3         | 23.16                 | 22.97                    | 22.91                  | 22.5                | 1        |  |  |
| 1.4              | QPSK       | 6       | 0         | 22.21                 | 22.25                    | 22.16                  |                     |          |  |  |
| 1.4              | 16QAM      | 1       | 0         | 22.41                 | 22.35                    | 22.07                  |                     |          |  |  |
| 1.4              | 16QAM      | 1       | 3         | 22.28                 | 22.32                    | 22.23                  | 23.5                | 1        |  |  |
| 1.4              | 16QAM      | 1       | 5         | 22.21                 | 22.24                    | 22.14                  |                     |          |  |  |
| 1.4              | 16QAM      | 3       | 0         | 22.32                 | 22.25                    | 21.98                  |                     |          |  |  |
| 1.4              | 16QAM      | 3       | 1         | 22.21                 | 21.95                    | 22.08                  | 22.5                | 2        |  |  |
| 1.4              | 16QAM      | 3       | 2         | 22.21                 | 21.98                    | 22.03                  |                     |          |  |  |
| 1.4              | 16QAM      | 6       | 0         | 21.19                 | 21.34                    | 20.93                  |                     |          |  |  |
| 1.4              | 64QAM      | 1       | 0         | 21.35                 | 21.29                    | 21.15                  | 22.5                | 2        |  |  |
| 1.4              | 64QAM      | 1       | 3         | 21.23                 | 21.40                    | 21.27                  |                     |          |  |  |
| 1.4              | 64QAM      | 1       | 5         | 21.19                 | 21.25                    | 21.21                  |                     |          |  |  |
| 1.4              | 64QAM      | 3       | 0         | 21.33                 | 21.38                    | 21.20                  | 22.5                | 2        |  |  |
| 1.4              | 64QAM      | 3       | 1         | 21.25                 | 21.24                    | 21.21                  |                     |          |  |  |
| 1.4              | 64QAM      | 3       | 3         | 21.30                 | 21.21                    | 21.10                  |                     |          |  |  |
| 1.4              | 64QAM      | 6       | 0         | 20.15                 | 20.29                    | 20.23                  | 21.5                | 3        |  |  |



| Band 7 Ant0 DS12 |            |         |           |                         |                               |                          |                        |             |      |   |
|------------------|------------|---------|-----------|-------------------------|-------------------------------|--------------------------|------------------------|-------------|------|---|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low<br>Ch./ Freq. | Power<br>Middle<br>Ch./ Freq. | Power High<br>Ch./ Freq. | Tune-up<br>limit (dBm) | MPR<br>(dB) |      |   |
| Channel          |            |         |           |                         |                               |                          |                        |             |      |   |
| Frequency (MHz)  |            |         |           | 2505                    | 2535                          | 2505                     |                        |             |      |   |
| 20               | QPSK       | 1       | 0         | 24.18                   | 24.30                         | 24.34                    |                        |             |      |   |
| 20               | QPSK       | 1       | 49        | 24.21                   | 24.30                         | 24.17                    | 25.5                   |             | 0    |   |
| 20               | QPSK       | 1       | 99        | 24.26                   | 24.32                         | 24.35                    |                        |             |      |   |
| 20               | QPSK       | 50      | 0         | 23.19                   | 23.56                         | 23.27                    |                        |             |      |   |
| 20               | QPSK       | 50      | 24        | 23.49                   | 23.45                         | 23.44                    |                        |             | 24.5 | 1 |
| 20               | QPSK       | 50      | 50        | 23.52                   | 23.48                         | 23.44                    |                        |             |      |   |
| 20               | QPSK       | 100     | 0         | 23.35                   | 23.45                         | 23.33                    |                        |             |      |   |
| 20               | 16QAM      | 1       | 0         | 23.22                   | 23.39                         | 23.41                    |                        |             |      |   |
| 20               | 16QAM      | 1       | 49        | 23.28                   | 23.33                         | 23.20                    | 24.5                   |             | 1    |   |
| 20               | 16QAM      | 1       | 99        | 23.36                   | 23.33                         | 23.18                    |                        |             |      |   |
| 20               | 16QAM      | 50      | 0         | 22.41                   | 22.26                         | 22.25                    |                        |             |      |   |
| 20               | 16QAM      | 50      | 24        | 22.46                   | 22.38                         | 22.37                    |                        |             | 23.5 | 2 |
| 20               | 16QAM      | 50      | 50        | 22.43                   | 22.49                         | 22.48                    |                        |             |      |   |
| 20               | 16QAM      | 100     | 0         | 22.39                   | 22.36                         | 22.41                    |                        |             |      |   |
| 20               | 64QAM      | 1       | 0         | 22.24                   | 22.37                         | 22.34                    |                        |             |      |   |
| 20               | 64QAM      | 1       | 49        | 22.55                   | 22.42                         | 22.40                    |                        |             | 23.5 | 2 |
| 20               | 64QAM      | 1       | 99        | 22.57                   | 22.27                         | 22.31                    |                        |             |      |   |
| 20               | 64QAM      | 50      | 0         | 21.34                   | 21.29                         | 21.31                    |                        |             |      |   |
| 20               | 64QAM      | 50      | 24        | 21.49                   | 21.36                         | 21.40                    |                        |             | 22.5 | 3 |
| 20               | 64QAM      | 50      | 50        | 21.51                   | 21.47                         | 21.41                    |                        |             |      |   |
| 20               | 64QAM      | 100     | 0         | 21.40                   | 21.39                         | 21.36                    |                        |             |      |   |
| Channel          |            |         |           | 20825                   | 21100                         | 21375                    | Tune-up<br>limit (dBm) | MPR<br>(dB) |      |   |
| Frequency (MHz)  |            |         |           | 2507.5                  | 2535                          | 2502.5                   |                        |             |      |   |
| 15               | QPSK       | 1       | 0         | 24.11                   | 24.21                         | 24.05                    |                        |             |      |   |
| 15               | QPSK       | 1       | 37        | 23.99                   | 24.27                         | 24.22                    | 25.5                   |             | 0    |   |
| 15               | QPSK       | 1       | 74        | 24.25                   | 24.33                         | 24.22                    |                        |             |      |   |
| 15               | QPSK       | 36      | 0         | 23.21                   | 23.31                         | 23.32                    |                        |             |      |   |
| 15               | QPSK       | 36      | 20        | 23.35                   | 23.34                         | 23.22                    |                        |             | 24.5 | 1 |
| 15               | QPSK       | 36      | 39        | 23.40                   | 23.29                         | 23.34                    |                        |             |      |   |
| 15               | QPSK       | 75      | 0         | 23.34                   | 23.36                         | 23.34                    |                        |             |      |   |
| 15               | 16QAM      | 1       | 0         | 23.20                   | 23.24                         | 23.36                    |                        |             |      |   |
| 15               | 16QAM      | 1       | 37        | 23.19                   | 23.28                         | 23.08                    |                        |             | 24.5 | 1 |
| 15               | 16QAM      | 1       | 74        | 23.50                   | 23.23                         | 23.01                    |                        |             |      |   |
| 15               | 16QAM      | 36      | 0         | 22.29                   | 22.23                         | 22.29                    |                        |             |      |   |
| 15               | 16QAM      | 36      | 20        | 22.40                   | 22.36                         | 22.33                    |                        |             | 23.5 | 2 |
| 15               | 16QAM      | 36      | 39        | 22.50                   | 22.36                         | 22.35                    |                        |             |      |   |
| 15               | 16QAM      | 75      | 0         | 22.28                   | 22.30                         | 22.36                    |                        |             |      |   |
| 15               | 64QAM      | 1       | 0         | 22.15                   | 22.25                         | 22.13                    |                        |             | 23.5 | 2 |
| 15               | 64QAM      | 1       | 37        | 22.29                   | 22.24                         | 22.19                    |                        |             |      |   |
| 15               | 64QAM      | 1       | 74        | 22.31                   | 22.05                         | 22.09                    |                        |             |      |   |
| 15               | 64QAM      | 36      | 0         | 21.24                   | 21.26                         | 21.28                    |                        |             |      |   |
| 15               | 64QAM      | 36      | 20        | 21.32                   | 21.39                         | 21.26                    |                        |             | 22.5 | 3 |
| 15               | 64QAM      | 36      | 39        | 21.40                   | 21.31                         | 21.33                    |                        |             |      |   |
| 15               | 64QAM      | 75      | 0         | 21.39                   | 21.35                         | 21.27                    |                        |             |      |   |
| Channel          |            |         |           | 20830                   | 21100                         | 21400                    | Tune-up<br>limit (dBm) | MPR<br>(dB) |      |   |
| Frequency (MHz)  |            |         |           | 2505                    | 2535                          | 2505                     |                        |             |      |   |
| 10               | QPSK       | 1       | 0         | 24.29                   | 24.10                         | 24.11                    |                        |             |      |   |
| 10               | QPSK       | 1       | 25        | 24.05                   | 24.25                         | 24.36                    | 25.5                   |             | 0    |   |
| 10               | QPSK       | 1       | 49        | 24.11                   | 24.25                         | 24.26                    |                        |             |      |   |
| 10               | QPSK       | 25      | 0         | 23.28                   | 23.09                         | 23.19                    |                        |             |      |   |
| 10               | QPSK       | 25      | 12        | 23.05                   | 23.18                         | 23.15                    |                        |             | 24.5 | 1 |
| 10               | QPSK       | 25      | 25        | 23.04                   | 23.16                         | 23.08                    |                        |             |      |   |
| 10               | QPSK       | 50      | 0         | 23.23                   | 23.06                         | 23.00                    |                        |             |      |   |
| 10               | 16QAM      | 1       | 0         | 23.05                   | 23.17                         | 23.02                    |                        |             | 24.5 | 1 |
| 10               | 16QAM      | 1       | 25        | 23.19                   | 23.02                         | 23.06                    |                        |             |      |   |
| 10               | 16QAM      | 1       | 49        | 23.16                   | 23.17                         | 23.05                    |                        |             |      |   |
| 10               | 16QAM      | 25      | 0         | 22.05                   | 22.16                         | 22.08                    |                        |             | 23.5 | 2 |
| 10               | 16QAM      | 25      | 12        | 22.23                   | 22.20                         | 22.25                    |                        |             |      |   |
| 10               | 16QAM      | 25      | 25        | 22.31                   | 22.13                         | 22.34                    |                        |             |      |   |
| 10               | 16QAM      | 50      | 0         | 22.36                   | 22.31                         | 22.42                    |                        |             |      |   |
| 10               | 64QAM      | 1       | 0         | 22.11                   | 22.18                         | 22.24                    |                        |             |      |   |
| 10               | 64QAM      | 1       | 25        | 22.17                   | 22.30                         | 22.10                    | 23.5                   |             | 2    |   |
| 10               | 64QAM      | 1       | 49        | 22.14                   | 22.29                         | 22.06                    |                        |             |      |   |
| 10               | 64QAM      | 25      | 0         | 21.05                   | 21.08                         | 21.19                    |                        |             |      |   |
| 10               | 64QAM      | 25      | 12        | 21.36                   | 21.02                         | 21.18                    |                        |             | 22.5 | 3 |
| 10               | 64QAM      | 25      | 25        | 21.23                   | 21.06                         | 21.16                    |                        |             |      |   |
| 10               | 64QAM      | 50      | 0         | 21.08                   | 21.38                         | 21.08                    |                        |             |      |   |
| Channel          |            |         |           | 20835                   | 21100                         | 21425                    | Tune-up<br>limit (dBm) | MPR<br>(dB) |      |   |
| Frequency (MHz)  |            |         |           | 2502.5                  | 2535                          | 2507.5                   |                        |             |      |   |
| 5                | QPSK       | 1       | 0         | 24.52                   | 24.27                         | 24.25                    |                        |             |      |   |
| 5                | QPSK       | 1       | 12        | 24.13                   | 24.57                         | 24.23                    | 25.5                   |             | 0    |   |
| 5                | QPSK       | 1       | 24        | 24.35                   | 24.32                         | 24.36                    |                        |             |      |   |
| 5                | QPSK       | 12      | 0         | 23.28                   | 23.31                         | 23.24                    |                        |             |      |   |
| 5                | QPSK       | 12      | 7         | 23.32                   | 23.31                         | 23.23                    |                        |             | 24.5 | 1 |
| 5                | QPSK       | 12      | 13        | 23.45                   | 23.41                         | 23.45                    |                        |             |      |   |
| 5                | QPSK       | 25      | 0         | 23.33                   | 23.34                         | 23.38                    |                        |             |      |   |
| 5                | 16QAM      | 1       | 0         | 23.20                   | 23.37                         | 23.25                    |                        |             |      |   |
| 5                | 16QAM      | 1       | 12        | 23.15                   | 23.28                         | 23.23                    |                        |             | 24.5 | 1 |
| 5                | 16QAM      | 1       | 24        | 23.26                   | 23.05                         | 23.17                    |                        |             |      |   |
| 5                | 16QAM      | 12      | 0         | 22.29                   | 22.29                         | 22.13                    |                        |             | 23.5 | 2 |
| 5                | 16QAM      | 12      | 7         | 22.33                   | 22.31                         | 22.45                    |                        |             |      |   |
| 5                | 16QAM      | 12      | 13        | 22.40                   | 22.42                         | 22.46                    |                        |             |      |   |
| 5                | 16QAM      | 25      | 0         | 22.44                   | 22.38                         | 22.37                    |                        |             |      |   |
| 5                | 64QAM      | 1       | 0         | 22.00                   | 22.18                         | 22.06                    |                        |             |      |   |
| 5                | 64QAM      | 1       | 12        | 22.29                   | 22.24                         | 22.12                    | 23.5                   |             | 2    |   |
| 5                | 64QAM      | 1       | 24        | 22.46                   | 22.15                         | 22.05                    |                        |             |      |   |
| 5                | 64QAM      | 12      | 0         | 21.18                   | 21.26                         | 21.25                    |                        |             |      |   |
| 5                | 64QAM      | 12      | 7         | 21.31                   | 21.45                         | 21.26                    |                        |             | 22.5 | 3 |
| 5                | 64QAM      | 12      | 13        | 21.40                   | 21.46                         | 21.40                    |                        |             |      |   |
| 5                | 64QAM      | 25      | 0         | 21.39                   | 21.31                         | 21.33                    |                        |             |      |   |

| Band 12 Ant0 DS12 |            |         |           |                        |                           |                         |                        |             |  |  |
|-------------------|------------|---------|-----------|------------------------|---------------------------|-------------------------|------------------------|-------------|--|--|
| 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           |            |         |           | 23600                  | 23695                     | 23730                   |                        |             |  |  |
| Frequency (MHz)   |            |         |           | 701                    | 707                       | 711                     |                        |             |  |  |
| 10                | QPSK       | 1       | 0         | 24.57                  | 24.69                     | 24.64                   |                        |             |  |  |
| 10                | QPSK       | 1       | 25        | 24.61                  | 24.64                     | 24.51                   | 25.5                   | 0           |  |  |
| 10                | QPSK       | 1       | 49        | 24.67                  | 24.65                     | 24.61                   |                        |             |  |  |
| 10                | QPSK       | 25      | 0         | 23.69                  | 23.89                     | 23.68                   |                        |             |  |  |
| 10                | QPSK       | 25      | 12        | 23.74                  | 23.71                     | 23.80                   | 24.5                   | 1           |  |  |
| 10                | QPSK       | 25      | 25        | 23.53                  | 23.86                     | 23.81                   |                        |             |  |  |
| 10                | QPSK       | 50      | 0         | 23.83                  | 23.86                     | 23.80                   |                        |             |  |  |
| 10                | 16QAM      | 1       | 0         | 23.75                  | 23.73                     | 23.73                   |                        |             |  |  |
| 10                | 16QAM      | 1       | 25        | 23.85                  | 23.79                     | 23.61                   | 24.5                   | 1           |  |  |
| 10                | 16QAM      | 1       | 49        | 23.77                  | 23.73                     | 23.72                   |                        |             |  |  |
| 10                | 16QAM      | 25      | 0         | 22.92                  | 22.72                     | 22.69                   |                        |             |  |  |
| 10                | 16QAM      | 25      | 12        | 22.89                  | 22.69                     | 22.71                   | 23.5                   | 2           |  |  |
| 10                | 16QAM      | 25      | 25        | 22.90                  | 22.85                     | 22.92                   |                        |             |  |  |
| 10                | 16QAM      | 50      | 0         | 22.92                  | 22.86                     | 22.74                   |                        |             |  |  |
| 10                | 64QAM      | 1       | 0         | 22.87                  | 22.60                     | 22.66                   |                        |             |  |  |
| 10                | 64QAM      | 1       | 25        | 22.61                  | 22.57                     | 22.77                   | 23.5                   | 2           |  |  |
| 10                | 64QAM      | 1       | 49        | 22.64                  | 22.70                     | 22.92                   |                        |             |  |  |
| 10                | 64QAM      | 25      | 0         | 21.85                  | 21.68                     | 21.75                   |                        |             |  |  |
| 10                | 64QAM      | 25      | 12        | 21.87                  | 21.75                     | 21.68                   |                        |             |  |  |
| 10                | 64QAM      | 25      | 25        | 21.88                  | 21.62                     | 21.77                   | 22.5                   | 3           |  |  |
| 10                | 64QAM      | 50      | 0         | 21.90                  | 21.80                     | 21.63                   |                        |             |  |  |
| Channel           |            |         |           | 23035                  | 23095                     | 23165                   | Tune-up<br>limit (dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz)   |            |         |           | 701.5                  | 707.5                     | 713.5                   |                        |             |  |  |
| 5                 | QPSK       | 1       | 0         | 24.67                  | 24.62                     | 24.64                   |                        |             |  |  |
| 5                 | QPSK       | 1       | 25        | 24.68                  | 24.58                     | 24.54                   | 25.5                   | 0           |  |  |
| 5                 | QPSK       | 1       | 24        | 24.61                  | 24.52                     | 24.60                   |                        |             |  |  |
| 5                 | QPSK       | 12      | 0         | 23.60                  | 23.61                     | 23.64                   |                        |             |  |  |
| 5                 | QPSK       | 12      | 7         | 23.71                  | 23.71                     | 23.71                   | 24.5                   | 1           |  |  |
| 5                 | QPSK       | 12      | 13        | 23.64                  | 23.60                     | 23.66                   |                        |             |  |  |
| 5                 | QPSK       | 25      | 0         | 23.77                  | 23.63                     | 23.59                   |                        |             |  |  |
| 5                 | 16QAM      | 1       | 0         | 22.93                  | 22.79                     | 22.82                   |                        |             |  |  |
| 5                 | 16QAM      | 1       | 12        | 23.48                  | 23.75                     | 23.71                   | 24.5                   | 1           |  |  |
| 5                 | 16QAM      | 1       | 24        | 23.61                  | 23.68                     | 23.54                   |                        |             |  |  |
| 5                 | 16QAM      | 12      | 0         | 22.84                  | 22.64                     | 22.62                   |                        |             |  |  |
| 5                 | 16QAM      | 12      | 7         | 22.89                  | 22.69                     | 22.80                   | 23.5                   | 2           |  |  |
| 5                 | 16QAM      | 12      | 13        | 22.61                  | 22.64                     | 22.65                   |                        |             |  |  |
| 5                 | 16QAM      | 25      | 0         | 22.73                  | 22.62                     | 22.68                   |                        |             |  |  |
| 5                 | 64QAM      | 1       | 0         | 22.73                  | 22.64                     | 22.95                   |                        |             |  |  |
| 5                 | 64QAM      | 1       | 12        | 22.76                  | 22.94                     | 22.88                   | 23.5                   | 2           |  |  |
| 5                 | 64QAM      | 1       | 24        | 22.70                  | 22.76                     | 22.75                   |                        |             |  |  |
| 5                 | 64QAM      | 12      | 0         | 21.79                  | 21.71                     | 21.64                   |                        |             |  |  |
| 5                 | 64QAM      | 12      | 7         | 21.81                  | 21.67                     | 21.74                   | 22.5                   | 3           |  |  |
| 5                 | 64QAM      | 12      | 13        | 21.57                  | 21.67                     | 21.62                   |                        |             |  |  |
| 5                 | 64QAM      | 25      | 0         | 21.60                  | 21.64                     | 21.73                   |                        |             |  |  |
| Channel           |            |         |           | 23025                  | 23095                     | 23165                   | Tune-up<br>limit (dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz)   |            |         |           | 700.5                  | 707.5                     | 714.5                   |                        |             |  |  |
| 3                 | QPSK       | 1       | 0         | 24.57                  | 24.66                     | 24.46                   |                        |             |  |  |
| 3                 | QPSK       | 1       | 8         | 24.44                  | 24.65                     | 24.63                   | 25.5                   | 0           |  |  |
| 3                 | QPSK       | 1       | 14        | 24.56                  | 24.63                     | 24.61                   |                        |             |  |  |
| 3                 | QPSK       | 8       | 0         | 23.80                  | 23.68                     | 23.76                   |                        |             |  |  |
| 3                 | QPSK       | 8       | 4         | 23.76                  | 23.81                     | 23.75                   | 24.5                   | 1           |  |  |
| 3                 | QPSK       | 8       | 7         | 23.66                  | 23.83                     | 23.71                   |                        |             |  |  |
| 3                 | QPSK       | 15      | 0         | 23.74                  | 23.77                     | 23.71                   |                        |             |  |  |
| 3                 | 16QAM      | 1       | 0         | 23.53                  | 23.67                     | 23.54                   |                        |             |  |  |
| 3                 | 16QAM      | 1       | 8         | 23.79                  | 23.63                     | 23.66                   | 24.5                   | 1           |  |  |
| 3                 | 16QAM      | 1       | 14        | 23.76                  | 23.64                     | 23.68                   |                        |             |  |  |
| 3                 | 16QAM      | 8       | 0         | 22.93                  | 22.86                     | 22.76                   |                        |             |  |  |
| 3                 | 16QAM      | 8       | 4         | 22.88                  | 22.85                     | 22.96                   | 23.5                   | 2           |  |  |
| 3                 | 16QAM      | 15      | 0         | 22.79                  | 22.72                     | 22.71                   |                        |             |  |  |
| 3                 | 64QAM      | 1       | 0         | 22.29                  | 22.98                     | 22.93                   |                        |             |  |  |
| 3                 | 64QAM      | 1       | 8         | 22.85                  | 22.79                     | 22.92                   | 23.5                   | 2           |  |  |
| 3                 | 64QAM      | 1       | 14        | 23.12                  | 23.12                     | 23.12                   |                        |             |  |  |
| 3                 | 64QAM      | 1       | 14        | 23.00                  | 23.12                     | 22.90                   |                        |             |  |  |
| 3                 | 64QAM      | 8       | 0         | 21.92                  | 21.68                     | 21.77                   |                        |             |  |  |
| 3                 | 64QAM      | 8       | 4         | 21.83                  | 21.68                     | 21.76                   | 22.5                   | 3           |  |  |
| 3                 | 64QAM      | 8       | 7         | 22.01                  | 21.73                     | 21.87                   |                        |             |  |  |
| 3                 | 64QAM      | 15      | 0         | 21.75                  | 21.80                     | 21.71                   |                        |             |  |  |
| Channel           |            |         |           | 23017                  | 23095                     | 23173                   | Tune-up<br>limit (dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz)   |            |         |           | 699.7                  | 707                       | 715.3                   |                        |             |  |  |
| 1.4               | QPSK       | 1       | 0         | 24.51                  | 24.61                     | 24.39                   |                        |             |  |  |
| 1.4               | QPSK       | 1       | 3         | 24.47                  | 24.65                     | 24.51                   | 25.5                   | 0           |  |  |
| 1.4               | QPSK       | 1       | 5         | 24.33                  | 24.40                     | 24.33                   |                        |             |  |  |
| 1.4               | QPSK       | 3       | 1         | 24.42                  | 24.58                     | 24.52                   |                        |             |  |  |
| 1.4               | QPSK       | 3       | 1         | 24.52                  | 24.51                     | 24.42                   |                        |             |  |  |
| 1.4               | QPSK       | 3       | 3         | 24.46                  | 24.36                     | 24.41                   | 24.5                   | 1           |  |  |
| 1.4               | QPSK       | 6       | 0         | 23.49                  | 23.57                     | 23.54                   |                        |             |  |  |
| 1.4               | 16QAM      | 1       | 0         | 23.65                  | 23.62                     | 23.81                   |                        |             |  |  |
| 1.4               | 16QAM      | 1       | 3         | 23.54                  | 23.71                     | 23.62                   |                        |             |  |  |
| 1.4               | 16QAM      | 1       | 5         | 23.56                  | 23.84                     | 23.68                   | 24.5                   | 1           |  |  |
| 1.4               | 16QAM      | 3       | 0         | 23.52                  | 23.64                     | 23.50                   |                        |             |  |  |
| 1.4               | 16QAM      | 3       | 1         | 23.45                  | 23.71                     | 23.56                   |                        |             |  |  |
| 1.4               | 16QAM      | 3       | 3         | 23.50                  | 23.40                     | 23.40                   |                        |             |  |  |
| 1.4               | 16QAM      | 6       | 0         | 22.48                  | 22.51                     | 22.42                   | 23.5                   | 2           |  |  |
| 1.4               | 64QAM      | 1       | 0         | 22.92                  | 22.75                     | 22.86                   |                        |             |  |  |
| 1.4               | 64QAM      | 1       | 3         | 22.93                  | 22.67                     | 22.95                   |                        |             |  |  |
| 1.4               | 64QAM      | 1       | 5         | 22.83                  | 22.73                     | 22.64                   | 23.5                   | 2           |  |  |
| 1.4               | 64QAM      | 3       | 0         | 22.68                  | 22.75                     | 22.63                   |                        |             |  |  |
| 1.4               | 64QAM      | 3       | 1         | 22.86                  | 22.56                     | 22.71                   |                        |             |  |  |
| 1.4               | 64QAM      | 3       | 3         | 22.52                  | 22.70                     | 22.64                   |                        |             |  |  |
| 1.4               | 64QAM      | 6       | 0         | 21.48                  | 21.58                     | 21.51                   | 22.5                   | 3           |  |  |





| Band 17 Ant0 DS12 |            |         |           |                        |                           |                         |                        |          |  |
|-------------------|------------|---------|-----------|------------------------|---------------------------|-------------------------|------------------------|----------|--|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low<br>Ch / Freq | Power Middle<br>Ch / Freq | Power High<br>Ch / Freq | Tune-up limit<br>(dbm) | MPR (db) |  |
| Channel           |            |         |           | 23760                  | 23790                     | 23800                   |                        |          |  |
| Frequency (MHz)   |            |         |           | 706                    | 710                       | 710                     |                        |          |  |
| 10                | QPSK       | 1       | 0         | 24.50                  | 24.68                     | 24.42                   | 25.5                   | 0        |  |
| 10                | QPSK       | 1       | 25        | 24.45                  | 24.57                     | 24.65                   |                        |          |  |
| 10                | QPSK       | 1       | 49        | 24.33                  | 24.40                     | 24.62                   |                        |          |  |
| 10                | QPSK       | 25      | 0         | 23.59                  | 23.92                     | 23.68                   |                        |          |  |
| 10                | QPSK       | 25      | 12        | 23.77                  | 23.69                     | 23.70                   | 24.5                   | 1        |  |
| 10                | QPSK       | 25      | 25        | 23.67                  | 23.63                     | 23.70                   |                        |          |  |
| 10                | QPSK       | 50      | 0         | 23.79                  | 23.90                     | 23.58                   |                        |          |  |
| 10                | 16QAM      | 1       | 0         | 23.85                  | 23.77                     | 23.81                   |                        |          |  |
| 10                | 16QAM      | 1       | 25        | 23.82                  | 23.86                     | 23.84                   | 24.5                   | 1        |  |
| 10                | 16QAM      | 1       | 49        | 23.72                  | 23.84                     | 23.63                   |                        |          |  |
| 10                | 16QAM      | 25      | 0         | 22.86                  | 22.89                     | 22.77                   |                        |          |  |
| 10                | 16QAM      | 25      | 12        | 22.79                  | 22.68                     | 22.77                   |                        |          |  |
| 10                | 16QAM      | 25      | 25        | 22.78                  | 22.69                     | 22.72                   | 23.5                   | 2        |  |
| 10                | 16QAM      | 50      | 0         | 22.70                  | 22.65                     | 22.74                   |                        |          |  |
| 10                | 64QAM      | 1       | 0         | 22.85                  | 22.76                     | 22.80                   |                        |          |  |
| 10                | 64QAM      | 1       | 25        | 22.81                  | 23.14                     | 22.90                   |                        |          |  |
| 10                | 64QAM      | 1       | 49        | 22.93                  | 22.75                     | 22.87                   | 23.5                   | 2        |  |
| 10                | 64QAM      | 25      | 0         | 21.59                  | 21.64                     | 21.66                   |                        |          |  |
| 10                | 64QAM      | 25      | 12        | 21.86                  | 21.72                     | 21.72                   |                        |          |  |
| 10                | 64QAM      | 25      | 25        | 21.78                  | 21.79                     | 21.74                   |                        |          |  |
| 10                | 64QAM      | 50      | 0         | 21.72                  | 21.68                     | 21.61                   | 22.5                   | 3        |  |
| Channel           |            |         |           | 23755                  | 23790                     | 23825                   |                        |          |  |
| Frequency (MHz)   |            |         |           | 706.5                  | 710                       | 713.5                   |                        |          |  |
| 5                 | QPSK       | 1       | 0         | 24.67                  | 24.67                     | 24.56                   | 25.5                   | 0        |  |
| 5                 | QPSK       | 1       | 12        | 24.39                  | 24.59                     | 24.58                   |                        |          |  |
| 5                 | QPSK       | 1       | 24        | 24.62                  | 24.56                     | 24.66                   |                        |          |  |
| 5                 | QPSK       | 12      | 0         | 23.62                  | 23.77                     | 23.70                   |                        |          |  |
| 5                 | QPSK       | 12      | 7         | 23.66                  | 23.64                     | 23.67                   | 24.5                   | 1        |  |
| 5                 | QPSK       | 12      | 13        | 23.73                  | 23.70                     | 23.74                   |                        |          |  |
| 5                 | QPSK       | 25      | 0         | 23.64                  | 23.70                     | 23.60                   |                        |          |  |
| 5                 | 16QAM      | 1       | 0         | 23.86                  | 23.75                     | 23.70                   |                        |          |  |
| 5                 | 16QAM      | 1       | 12        | 23.87                  | 23.75                     | 24.14                   | 24.5                   | 1        |  |
| 5                 | 16QAM      | 1       | 24        | 23.84                  | 24.16                     | 23.98                   |                        |          |  |
| 5                 | 16QAM      | 12      | 0         | 22.80                  | 22.77                     | 22.67                   |                        |          |  |
| 5                 | 16QAM      | 12      | 7         | 22.85                  | 22.57                     | 22.83                   |                        |          |  |
| 5                 | 16QAM      | 12      | 13        | 22.70                  | 22.72                     | 22.78                   | 23.5                   | 2        |  |
| 5                 | 16QAM      | 25      | 0         | 22.70                  | 22.57                     | 22.77                   |                        |          |  |
| 5                 | 64QAM      | 1       | 0         | 22.80                  | 22.83                     | 22.71                   |                        |          |  |
| 5                 | 64QAM      | 1       | 12        | 22.69                  | 22.76                     | 22.73                   |                        |          |  |
| 5                 | 64QAM      | 1       | 24        | 22.70                  | 22.55                     | 22.64                   | 23.5                   | 2        |  |
| 5                 | 64QAM      | 12      | 0         | 21.80                  | 21.75                     | 21.62                   |                        |          |  |
| 5                 | 64QAM      | 12      | 7         | 21.62                  | 21.72                     | 21.89                   |                        |          |  |
| 5                 | 64QAM      | 12      | 13        | 21.66                  | 21.54                     | 21.63                   |                        |          |  |
| 5                 | 64QAM      | 25      | 0         | 21.57                  | 21.61                     | 21.66                   | 22.5                   | 3        |  |

| Band 26 Ant0 DS12 |            |         |           |                          |                             |                           |                           |             |  |
|-------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------------------|-------------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dbm) | MPR<br>(dB) |  |
| Channel           |            |         |           | 26765                    | 26665                       | 26665                     |                           |             |  |
| Frequency (MHz)   |            |         |           | 815.5                    | 831.5                       | 841.5                     |                           |             |  |
| 15                | QPSK       | 1       | 0         | 24.34                    | 24.44                       | 24.31                     | 25.5                      | 0           |  |
| 15                | QPSK       | 1       | 37        | 24.39                    | 24.37                       | 24.29                     |                           |             |  |
| 15                | QPSK       | 1       | 74        | 24.37                    | 24.33                       | 24.18                     |                           |             |  |
| 15                | QPSK       | 36      | 0         | 23.44                    | 23.50                       | 23.37                     |                           |             |  |
| 15                | QPSK       | 36      | 20        | 23.42                    | 23.46                       | 23.44                     | 24.5                      | 1           |  |
| 15                | QPSK       | 36      | 39        | 23.46                    | 23.46                       | 23.36                     |                           |             |  |
| 15                | QPSK       | 75      | 0         | 23.42                    | 23.52                       | 23.31                     |                           |             |  |
| 15                | 16QAM      | 1       | 0         | 23.77                    | 23.67                       | 23.64                     |                           |             |  |
| 15                | 16QAM      | 1       | 37        | 23.70                    | 23.66                       | 23.58                     | 24.5                      | 1           |  |
| 15                | 16QAM      | 1       | 74        | 23.75                    | 23.66                       | 23.48                     |                           |             |  |
| 15                | 16QAM      | 36      | 0         | 22.45                    | 22.43                       | 22.36                     |                           |             |  |
| 15                | 16QAM      | 36      | 20        | 22.50                    | 22.46                       | 22.41                     |                           |             |  |
| 15                | 16QAM      | 36      | 39        | 22.46                    | 22.47                       | 22.39                     | 23.5                      | 2           |  |
| 15                | 16QAM      | 75      | 0         | 22.52                    | 22.41                       | 22.38                     |                           |             |  |
| 15                | 64QAM      | 1       | 0         | 22.80                    | 22.55                       | 22.50                     |                           |             |  |
| 15                | 64QAM      | 1       | 37        | 22.65                    | 22.60                       | 22.50                     |                           |             |  |
| 15                | 64QAM      | 1       | 74        | 22.56                    | 22.54                       | 22.37                     | 23.5                      | 2           |  |
| 15                | 64QAM      | 36      | 0         | 21.48                    | 21.44                       | 21.37                     |                           |             |  |
| 15                | 64QAM      | 36      | 20        | 21.51                    | 21.47                       | 21.40                     |                           |             |  |
| 15                | 64QAM      | 36      | 39        | 21.50                    | 21.47                       | 21.38                     |                           |             |  |
| 15                | 64QAM      | 75      | 0         | 21.52                    | 21.42                       | 21.34                     | 22.5                      | 3           |  |
| Channel           |            |         |           | 26740                    | 26665                       | 26990                     |                           |             |  |
| Frequency (MHz)   |            |         |           | 819                      | 831.5                       | 844                       |                           |             |  |
| 10                | QPSK       | 1       | 0         | 24.35                    | 24.33                       | 24.20                     | 25.5                      | 0           |  |
| 10                | QPSK       | 1       | 25        | 24.33                    | 24.25                       | 24.17                     |                           |             |  |
| 10                | QPSK       | 1       | 49        | 24.27                    | 24.20                       | 24.12                     |                           |             |  |
| 10                | QPSK       | 25      | 0         | 23.45                    | 23.37                       | 23.31                     |                           |             |  |
| 10                | QPSK       | 25      | 12        | 23.45                    | 23.36                       | 23.32                     | 24.5                      | 1           |  |
| 10                | QPSK       | 25      | 25        | 23.42                    | 23.40                       | 23.33                     |                           |             |  |
| 10                | QPSK       | 50      | 0         | 23.46                    | 23.34                       | 23.30                     |                           |             |  |
| 10                | 16QAM      | 1       | 0         | 23.60                    | 23.66                       | 23.61                     |                           |             |  |
| 10                | 16QAM      | 1       | 25        | 23.62                    | 23.63                       | 23.53                     | 24.5                      | 1           |  |
| 10                | 16QAM      | 1       | 49        | 23.63                    | 23.61                       | 23.49                     |                           |             |  |
| 10                | 16QAM      | 25      | 0         | 22.50                    | 22.39                       | 22.31                     |                           |             |  |
| 10                | 16QAM      | 25      | 12        | 22.47                    | 22.40                       | 22.35                     |                           |             |  |
| 10                | 16QAM      | 25      | 25        | 22.42                    | 22.43                       | 22.35                     | 23.5                      | 2           |  |
| 10                | 16QAM      | 50      | 0         | 22.47                    | 22.37                       | 22.29                     |                           |             |  |
| 10                | 64QAM      | 1       | 0         | 22.57                    | 22.60                       | 22.46                     |                           |             |  |
| 10                | 64QAM      | 1       | 25        | 22.56                    | 22.46                       | 22.38                     |                           |             |  |
| 10                | 64QAM      | 1       | 49        | 22.50                    | 22.50                       | 22.39                     | 23.5                      | 2           |  |
| 10                | 64QAM      | 25      | 0         | 21.49                    | 21.39                       | 21.31                     |                           |             |  |
| 10                | 64QAM      | 25      | 12        | 21.47                    | 21.35                       | 21.29                     |                           |             |  |
| 10                | 64QAM      | 25      | 25        | 21.40                    | 21.41                       | 21.31                     |                           |             |  |
| 10                | 64QAM      | 50      | 0         | 21.44                    | 21.36                       | 21.31                     | 22.5                      | 3           |  |
| Channel           |            |         |           | 26715                    | 26665                       | 27015                     |                           |             |  |
| Frequency (MHz)   |            |         |           | 816.5                    | 831.5                       | 846.5                     |                           |             |  |
| 5                 | QPSK       | 1       | 0         | 24.33                    | 24.37                       | 24.22                     | 25.5                      | 0           |  |
| 5                 | QPSK       | 1       | 12        | 24.40                    | 24.32                       | 24.20                     |                           |             |  |
| 5                 | QPSK       | 1       | 24        | 24.32                    | 24.27                       | 24.09                     |                           |             |  |
| 5                 | QPSK       | 12      | 0         | 23.46                    | 23.34                       | 23.29                     |                           |             |  |
| 5                 | QPSK       | 12      | 7         | 23.48                    | 23.42                       | 23.26                     | 24.5                      | 1           |  |
| 5                 | QPSK       | 12      | 13        | 23.43                    | 23.36                       | 23.24                     |                           |             |  |
| 5                 | QPSK       | 25      | 0         | 23.46                    | 23.33                       | 23.26                     |                           |             |  |
| 5                 | 16QAM      | 1       | 0         | 23.60                    | 23.58                       | 23.52                     |                           |             |  |
| 5                 | 16QAM      | 1       | 12        | 23.64                    | 23.67                       | 23.54                     | 24.5                      | 1           |  |
| 5                 | 16QAM      | 1       | 24        | 23.66                    | 23.58                       | 23.50                     |                           |             |  |
| 5                 | 16QAM      | 12      | 0         | 22.50                    | 22.37                       | 22.31                     |                           |             |  |
| 5                 | 16QAM      | 12      | 7         | 22.51                    | 22.43                       | 22.30                     |                           |             |  |
| 5                 | 16QAM      | 12      | 13        | 22.47                    | 22.41                       | 22.27                     | 23.5                      | 2           |  |
| 5                 | 16QAM      | 25      | 0         | 22.49                    | 22.34                       | 22.28                     |                           |             |  |
| 5                 | 64QAM      | 1       | 0         | 22.58                    | 22.51                       | 22.45                     |                           |             |  |
| 5                 | 64QAM      | 1       | 12        | 22.56                    | 22.42                       | 22.39                     |                           |             |  |
| 5                 | 64QAM      | 1       | 24        | 22.54                    | 22.49                       | 22.36                     | 23.5                      | 2           |  |
| 5                 | 64QAM      | 12      | 0         | 21.53                    | 21.36                       | 21.33                     |                           |             |  |
| 5                 | 64QAM      | 12      | 7         | 21.48                    | 21.43                       | 21.29                     |                           |             |  |
| 5                 | 64QAM      | 12      | 13        | 21.45                    | 21.41                       | 21.29                     |                           |             |  |
| 5                 | 64QAM      | 25      | 0         | 21.39                    | 21.30                       | 21.27                     | 22.5                      | 3           |  |
| Channel           |            |         |           | 26705                    | 26665                       | 27025                     |                           |             |  |
| Frequency (MHz)   |            |         |           | 815.5                    | 831.5                       | 847.5                     |                           |             |  |
| 3                 | QPSK       | 1       | 0         | 24.29                    | 24.34                       | 24.14                     | 25.5                      | 0           |  |
| 3                 | QPSK       | 1       | 8         | 24.33                    | 24.31                       | 24.20                     |                           |             |  |
| 3                 | QPSK       | 1       | 14        | 24.37                    | 24.27                       | 23.89                     |                           |             |  |
| 3                 | QPSK       | 8       | 0         | 23.40                    | 23.29                       | 23.27                     |                           |             |  |
| 3                 | QPSK       | 8       | 4         | 23.42                    | 23.45                       | 23.31                     | 24.5                      | 1           |  |
| 3                 | QPSK       | 8       | 7         | 23.45                    | 23.37                       | 23.24                     |                           |             |  |
| 3                 | QPSK       | 15      | 0         | 23.44                    | 23.40                       | 23.26                     |                           |             |  |
| 3                 | 16QAM      | 1       | 0         | 23.53                    | 23.60                       | 23.52                     |                           |             |  |
| 3                 | 16QAM      | 1       | 8         | 23.61                    | 23.67                       | 23.54                     | 24.5                      | 1           |  |
| 3                 | 16QAM      | 1       | 14        | 23.70                    | 23.61                       | 23.55                     |                           |             |  |
| 3                 | 16QAM      | 8       | 0         | 22.50                    | 22.37                       | 22.33                     |                           |             |  |
| 3                 | 16QAM      | 8       | 4         | 22.55                    | 22.51                       | 22.35                     |                           |             |  |
| 3                 | 16QAM      | 8       | 7         | 22.49                    | 22.42                       | 22.28                     | 23.5                      | 2           |  |
| 3                 | 16QAM      | 15      | 0         | 22.50                    | 22.43                       | 22.30                     |                           |             |  |
| 3                 | 64QAM      | 1       | 0         | 22.56                    | 22.48                       | 22.39                     |                           |             |  |
| 3                 | 64QAM      | 1       | 8         | 22.62                    | 22.56                       | 22.44                     |                           |             |  |
| 3                 | 64QAM      | 1       | 14        | 22.55                    | 22.57                       | 22.41                     | 23.5                      | 2           |  |
| 3                 | 64QAM      | 8       | 0         | 21.51                    | 21.36                       | 21.31                     |                           |             |  |
| 3                 | 64QAM      | 8       | 4         | 21.50                    | 21.44                       | 21.31                     |                           |             |  |
| 3                 | 64QAM      | 8       | 7         | 21.50                    | 21.44                       | 21.08                     |                           |             |  |
| 3                 | 64QAM      | 15      | 0         | 21.48                    | 21.38                       | 21.25                     | 22.5                      | 3           |  |
| Channel           |            |         |           | 26718                    | 26665                       | 27033                     |                           |             |  |
| Frequency (MHz)   |            |         |           | 814.7                    | 831.5                       | 848.3                     |                           |             |  |
| 1.4               | QPSK       | 1       | 0         | 24.15                    | 24.30                       | 24.04                     | 25.5                      | 0           |  |
| 1.4               | QPSK       | 1       | 3         | 24.33                    | 24.38                       | 24.16                     |                           |             |  |
| 1.4               | QPSK       | 1       | 5         | 24.33                    | 24.20                       | 24.03                     |                           |             |  |
| 1.4               | QPSK       | 3       | 0         | 24.27                    | 24.22                       | 24.07                     |                           |             |  |
| 1.4               | QPSK       | 3       | 1         | 24.31                    | 24.29                       | 24.15                     | 24.5                      | 1           |  |
| 1.4               | QPSK       | 3       | 3         | 24.30                    | 24.22                       | 24.07                     |                           |             |  |
| 1.4               | QPSK       | 6       | 0         | 23.37                    | 23.54                       | 23.19                     |                           |             |  |
| 1.4               | 16QAM      | 1       | 0         | 23.49                    | 23.52                       | 23.41                     |                           |             |  |
| 1.4               | 16QAM      | 1       | 3         | 23.61                    | 23.64                       | 23.48                     | 24.5                      | 1           |  |
| 1.4               | 16QAM      | 1       | 5         | 23.59                    | 23.56                       | 23.40                     |                           |             |  |
| 1.4               | 16QAM      | 3       | 0         | 23.35                    | 23.33                       | 23.18                     |                           |             |  |
| 1.4               | 16QAM      | 3       | 1         | 23.40                    | 23.36                       | 23.26                     |                           |             |  |
| 1.4               | 16QAM      | 3       | 3         | 23.40                    | 23.29                       | 23.14                     | 23.5                      | 2           |  |
| 1.4               | 16QAM      | 6       | 0         | 22.50                    | 22.41                       | 22.25                     |                           |             |  |
| 1.4               | 64QAM      | 1       | 0         | 22.47                    | 22.40                       | 22.30                     |                           |             |  |
| 1.4               | 64QAM      | 1       | 3         | 22.56                    | 22.45                       | 22.38                     |                           |             |  |
| 1.4               | 64QAM      | 1       | 5         | 22.49                    | 22.39                       | 22.23                     | 23.5                      | 2           |  |
| 1.4               | 64QAM      | 3       | 0         | 22.40                    | 22.30                       | 22.24                     |                           |             |  |
| 1.4               | 64QAM      | 3       | 1         | 22.43                    | 22.32                       | 22.28                     |                           |             |  |
| 1.4               | 64QAM      | 3       | 3         | 22.41                    | 22.31                       | 22.21                     |                           |             |  |
| 1.4               | 64QAM      | 6       | 0         | 21.40                    | 21.37                       | 21.19                     | 22.5                      | 3           |  |

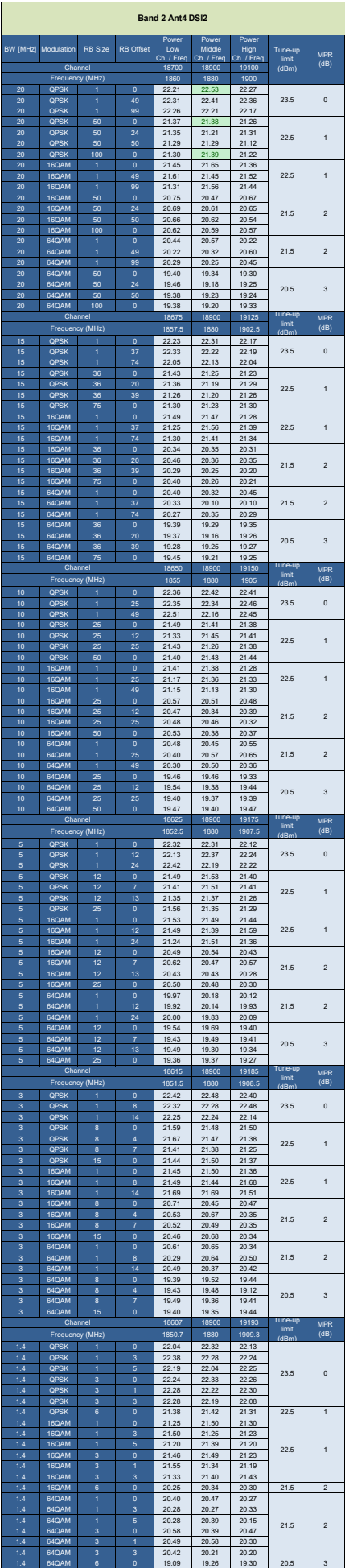
| Band 38 Ant0 DSI2 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| 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           |            |         |           | 37850                 | 38000                    | 38150                  | 25.5                | 0        |  |
| Frequency (MHz)   |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |  |
| 20                | QPSK       | 1       | 0         | 24.01                 | 24.13                    | 24.00                  | 24.5                | 1        |  |
| 20                | QPSK       | 1       | 49        | 24.02                 | 24.09                    | 24.05                  |                     |          |  |
| 20                | QPSK       | 1       | 99        | 24.03                 | 24.06                    | 24.02                  |                     |          |  |
| 20                | QPSK       | 50      | 0         | 23.01                 | 23.24                    | 23.14                  |                     |          |  |
| 20                | QPSK       | 50      | 24        | 23.19                 | 23.15                    | 23.14                  |                     |          |  |
| 20                | QPSK       | 50      | 50        | 23.18                 | 23.17                    | 23.15                  | 24.5                | 1        |  |
| 20                | QPSK       | 100     | 0         | 23.05                 | 23.16                    | 23.14                  |                     |          |  |
| 20                | 16QAM      | 1       | 0         | 23.10                 | 23.15                    | 23.15                  |                     |          |  |
| 20                | 16QAM      | 1       | 49        | 23.20                 | 23.17                    | 23.19                  |                     |          |  |
| 20                | 16QAM      | 1       | 99        | 23.22                 | 23.20                    | 23.17                  |                     |          |  |
| 20                | 16QAM      | 50      | 0         | 22.11                 | 22.19                    | 22.10                  | 23.5                | 2        |  |
| 20                | 16QAM      | 50      | 24        | 22.20                 | 22.21                    | 22.31                  |                     |          |  |
| 20                | 16QAM      | 50      | 50        | 22.21                 | 22.22                    | 22.22                  |                     |          |  |
| 20                | 16QAM      | 100     | 0         | 22.19                 | 22.09                    | 22.21                  |                     |          |  |
| 20                | 64QAM      | 1       | 0         | 22.16                 | 22.10                    | 22.02                  |                     |          |  |
| 20                | 64QAM      | 1       | 49        | 22.12                 | 22.12                    | 22.04                  | 23.5                | 2        |  |
| 20                | 64QAM      | 1       | 99        | 22.05                 | 22.07                    | 22.03                  |                     |          |  |
| 20                | 64QAM      | 50      | 0         | 21.02                 | 21.12                    | 21.02                  |                     |          |  |
| 20                | 64QAM      | 50      | 24        | 21.12                 | 21.14                    | 21.24                  |                     |          |  |
| 20                | 64QAM      | 50      | 50        | 21.03                 | 21.16                    | 21.16                  |                     |          |  |
| 20                | 64QAM      | 100     | 0         | 21.12                 | 21.24                    | 21.24                  | 22.5                | 3        |  |
| Channel           |            |         |           | 37825                 | 38000                    | 38175                  |                     |          |  |
| Frequency (MHz)   |            |         |           | 2577.5                | 2595                     | 2612.5                 | 25.5                | 0        |  |
| 15                | QPSK       | 1       | 0         | 24.07                 | 24.04                    | 24.03                  |                     |          |  |
| 15                | QPSK       | 1       | 37        | 24.00                 | 24.11                    | 23.96                  | 24.5                | 1        |  |
| 15                | QPSK       | 1       | 74        | 24.06                 | 24.09                    | 24.03                  |                     |          |  |
| 15                | QPSK       | 36      | 0         | 23.08                 | 23.15                    | 23.19                  |                     |          |  |
| 15                | QPSK       | 36      | 20        | 23.20                 | 23.15                    | 23.13                  |                     |          |  |
| 15                | QPSK       | 36      | 39        | 23.07                 | 23.17                    | 23.13                  |                     |          |  |
| 15                | QPSK       | 75      | 0         | 23.12                 | 23.16                    | 23.15                  | 24.5                | 1        |  |
| 15                | 16QAM      | 1       | 0         | 23.21                 | 23.18                    | 23.25                  |                     |          |  |
| 15                | 16QAM      | 1       | 37        | 23.13                 | 23.26                    | 23.29                  |                     |          |  |
| 15                | 16QAM      | 1       | 74        | 23.19                 | 23.23                    | 23.17                  |                     |          |  |
| 15                | 16QAM      | 36      | 0         | 22.09                 | 22.08                    | 22.11                  |                     |          |  |
| 15                | 16QAM      | 36      | 20        | 22.10                 | 22.15                    | 22.15                  | 23.5                | 2        |  |
| 15                | 16QAM      | 36      | 39        | 22.18                 | 22.18                    | 22.13                  |                     |          |  |
| 15                | 16QAM      | 75      | 0         | 22.18                 | 22.13                    | 22.15                  |                     |          |  |
| 15                | 64QAM      | 1       | 0         | 22.19                 | 22.11                    | 22.04                  |                     |          |  |
| 15                | 64QAM      | 1       | 37        | 22.09                 | 22.14                    | 21.97                  |                     |          |  |
| 15                | 64QAM      | 1       | 74        | 22.06                 | 22.13                    | 22.02                  | 22.5                | 3        |  |
| 15                | 64QAM      | 36      | 0         | 21.03                 | 21.11                    | 21.14                  |                     |          |  |
| 15                | 64QAM      | 36      | 20        | 21.13                 | 21.18                    | 21.19                  |                     |          |  |
| 15                | 64QAM      | 36      | 39        | 21.23                 | 21.23                    | 21.18                  |                     |          |  |
| 15                | 64QAM      | 75      | 0         | 21.17                 | 21.14                    | 21.15                  |                     |          |  |
| Channel           |            |         |           | 37800                 | 38000                    | 38200                  | 25.5                | 0        |  |
| Frequency (MHz)   |            |         |           | 2575                  | 2595                     | 2615                   |                     |          |  |
| 10                | QPSK       | 1       | 0         | 24.05                 | 24.06                    | 23.91                  | 24.5                | 1        |  |
| 10                | QPSK       | 1       | 25        | 23.89                 | 23.95                    | 23.93                  |                     |          |  |
| 10                | QPSK       | 1       | 49        | 23.99                 | 24.09                    | 23.98                  |                     |          |  |
| 10                | QPSK       | 25      | 0         | 23.12                 | 23.14                    | 23.07                  |                     |          |  |
| 10                | QPSK       | 25      | 12        | 23.13                 | 22.89                    | 23.05                  |                     |          |  |
| 10                | QPSK       | 25      | 25        | 22.96                 | 23.05                    | 23.01                  | 24.5                | 1        |  |
| 10                | QPSK       | 50      | 0         | 23.10                 | 23.05                    | 23.11                  |                     |          |  |
| 10                | 16QAM      | 1       | 0         | 23.05                 | 23.03                    | 23.18                  |                     |          |  |
| 10                | 16QAM      | 1       | 25        | 23.05                 | 23.02                    | 23.09                  |                     |          |  |
| 10                | 16QAM      | 1       | 49        | 23.03                 | 23.13                    | 23.11                  |                     |          |  |
| 10                | 16QAM      | 25      | 0         | 22.08                 | 22.11                    | 22.06                  | 23.5                | 2        |  |
| 10                | 16QAM      | 25      | 12        | 22.12                 | 22.17                    | 22.13                  |                     |          |  |
| 10                | 16QAM      | 25      | 25        | 22.14                 | 22.21                    | 22.19                  |                     |          |  |
| 10                | 16QAM      | 50      | 0         | 22.17                 | 22.11                    | 22.07                  |                     |          |  |
| 10                | 64QAM      | 1       | 0         | 21.93                 | 22.00                    | 22.04                  |                     |          |  |
| 10                | 64QAM      | 1       | 25        | 21.74                 | 21.98                    | 21.86                  | 22.5                | 3        |  |
| 10                | 64QAM      | 1       | 49        | 21.92                 | 22.00                    | 21.88                  |                     |          |  |
| 10                | 64QAM      | 25      | 0         | 21.06                 | 21.06                    | 20.99                  |                     |          |  |
| 10                | 64QAM      | 25      | 12        | 21.09                 | 21.00                    | 21.06                  |                     |          |  |
| 10                | 64QAM      | 25      | 25        | 20.98                 | 21.17                    | 21.05                  |                     |          |  |
| 10                | 64QAM      | 50      | 0         | 21.01                 | 20.97                    | 21.01                  | 25.5                | 0        |  |
| Channel           |            |         |           | 37775                 | 38000                    | 38225                  |                     |          |  |
| Frequency (MHz)   |            |         |           | 2572.5                | 2595                     | 2617.5                 | 24.5                | 1        |  |
| 5                 | QPSK       | 1       | 0         | 23.89                 | 24.07                    | 24.01                  |                     |          |  |
| 5                 | QPSK       | 1       | 12        | 23.97                 | 24.10                    | 24.01                  | 24.5                | 1        |  |
| 5                 | QPSK       | 1       | 24        | 24.09                 | 23.87                    | 23.93                  |                     |          |  |
| 5                 | QPSK       | 12      | 0         | 23.16                 | 23.12                    | 23.18                  |                     |          |  |
| 5                 | QPSK       | 12      | 7         | 23.13                 | 23.11                    | 23.13                  |                     |          |  |
| 5                 | QPSK       | 12      | 13        | 23.13                 | 23.14                    | 23.11                  |                     |          |  |
| 5                 | QPSK       | 25      | 0         | 23.12                 | 23.10                    | 23.14                  | 24.5                | 1        |  |
| 5                 | 16QAM      | 1       | 0         | 23.03                 | 22.98                    | 23.15                  |                     |          |  |
| 5                 | 16QAM      | 1       | 12        | 23.35                 | 23.16                    | 23.01                  |                     |          |  |
| 5                 | 16QAM      | 1       | 24        | 23.12                 | 23.17                    | 23.05                  |                     |          |  |
| 5                 | 16QAM      | 12      | 0         | 22.17                 | 22.04                    | 21.99                  |                     |          |  |
| 5                 | 16QAM      | 12      | 7         | 22.05                 | 22.03                    | 22.04                  | 23.5                | 2        |  |
| 5                 | 16QAM      | 12      | 13        | 22.04                 | 22.24                    | 22.11                  |                     |          |  |
| 5                 | 16QAM      | 25      | 0         | 22.12                 | 22.20                    | 22.21                  |                     |          |  |
| 5                 | 64QAM      | 1       | 0         | 22.39                 | 22.21                    | 22.13                  |                     |          |  |
| 5                 | 64QAM      | 1       | 12        | 22.24                 | 22.29                    | 22.22                  |                     |          |  |
| 5                 | 64QAM      | 1       | 24        | 22.27                 | 22.10                    | 22.16                  | 22.5                | 3        |  |
| 5                 | 64QAM      | 12      | 0         | 21.08                 | 21.14                    | 21.19                  |                     |          |  |
| 5                 | 64QAM      | 12      | 7         | 21.16                 | 21.14                    | 21.25                  |                     |          |  |
| 5                 | 64QAM      | 12      | 13        | 21.06                 | 21.23                    | 21.11                  |                     |          |  |
| 5                 | 64QAM      | 25      | 0         | 21.05                 | 20.96                    | 21.15                  |                     |          |  |

| Band 41 (2.6G Band) Ant0 DSI2 |            |         |           |                       |                              |                               |                        |                     |          |
|-------------------------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|
| BW [MHz]                      | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Low Ch. / Freq. | Power Middle High Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel                       |            |         |           | 40240                 | 40500                        | 40770                         | 41090                  | 25.5                | 0        |
| Frequency (MHz)               |            |         |           | 2555                  | 2581                         | 2608                          | 2640                   |                     |          |
| 20                            | QPSK       | 1       | 0         | 24.10                 | 24.02                        | 24.17                         | 24.04                  | 24.5                | 1        |
| 20                            | QPSK       | 1       | 49        | 24.06                 | 24.07                        | 24.11                         | 24.12                  |                     |          |
| 20                            | QPSK       | 1       | 99        | 24.02                 | 23.97                        | 24.12                         | 23.98                  |                     |          |
| 20                            | QPSK       | 50      | 0         | 23.17                 | 23.17                        | 23.30                         | 23.23                  |                     |          |
| 20                            | QPSK       | 50      | 24        | 23.21                 | 23.20                        | 23.14                         | 23.11                  |                     |          |
| 20                            | QPSK       | 50      | 50        | 23.26                 | 23.17                        | 23.25                         | 23.14                  | 24.5                | 1        |
| 20                            | QPSK       | 100     | 0         | 23.29                 | 23.20                        | 23.32                         | 23.18                  |                     |          |
| 20                            | 16QAM      | 1       | 0         | 23.18                 | 23.19                        | 23.34                         | 23.29                  |                     |          |
| 20                            | 16QAM      | 1       | 49        | 23.15                 | 23.14                        | 23.26                         | 23.18                  |                     |          |
| 20                            | 16QAM      | 1       | 99        | 23.18                 | 23.10                        | 23.27                         | 23.21                  |                     |          |
| 20                            | 16QAM      | 50      | 0         | 22.14                 | 22.16                        | 22.26                         | 22.21                  | 23.5                | 2        |
| 20                            | 16QAM      | 50      | 24        | 22.27                 | 22.28                        | 22.19                         | 22.17                  |                     |          |
| 20                            | 16QAM      | 50      | 50        | 22.34                 | 22.25                        | 22.30                         | 22.30                  |                     |          |
| 20                            | 16QAM      | 100     | 0         | 22.27                 | 22.20                        | 22.29                         | 22.24                  |                     |          |
| 20                            | 64QAM      | 1       | 0         | 22.07                 | 22.05                        | 22.22                         | 22.16                  |                     |          |
| 20                            | 64QAM      | 1       | 49        | 22.11                 | 21.99                        | 22.02                         | 22.02                  | 23.5                | 2        |
| 20                            | 64QAM      | 1       | 99        | 22.16                 | 21.98                        | 22.13                         | 22.17                  |                     |          |
| 20                            | 64QAM      | 50      | 0         | 21.08                 | 20.99                        | 21.23                         | 21.13                  |                     |          |
| 20                            | 64QAM      | 50      | 24        | 21.22                 | 21.21                        | 21.14                         | 21.11                  |                     |          |
| 20                            | 64QAM      | 50      | 50        | 21.28                 | 21.19                        | 21.25                         | 21.12                  |                     |          |
| 20                            | 64QAM      | 100     | 0         | 21.30                 | 21.32                        | 21.34                         | 21.17                  | 22.5                | 3        |
| Channel                       |            |         |           | 40215                 | 40495                        | 40785                         | 41115                  |                     |          |
| Frequency (MHz)               |            |         |           | 2552.5                | 2580.5                       | 2609.5                        | 2642.5                 | Tune-up limit (dBm) | MPR (dB) |
| 15                            | QPSK       | 1       | 0         | 24.04                 | 23.86                        | 24.04                         | 23.96                  | 25.5                | 0        |
| 15                            | QPSK       | 1       | 37        | 23.93                 | 23.91                        | 23.96                         | 23.99                  |                     |          |
| 15                            | QPSK       | 1       | 74        | 24.07                 | 23.87                        | 24.11                         | 23.91                  |                     |          |
| 15                            | QPSK       | 36      | 0         | 23.01                 | 23.08                        | 23.08                         | 23.05                  |                     |          |
| 15                            | QPSK       | 36      | 20        | 23.14                 | 23.05                        | 23.18                         | 22.97                  |                     |          |
| 15                            | QPSK       | 36      | 39        | 23.19                 | 23.07                        | 23.19                         | 23.10                  | 24.5                | 1        |
| 15                            | QPSK       | 75      | 0         | 23.16                 | 23.16                        | 23.18                         | 23.08                  |                     |          |
| 15                            | 16QAM      | 1       | 0         | 23.19                 | 23.10                        | 23.27                         | 23.19                  |                     |          |
| 15                            | 16QAM      | 1       | 37        | 23.08                 | 23.07                        | 23.09                         | 23.03                  | 24.5                | 1        |
| 15                            | 16QAM      | 1       | 74        | 23.13                 | 23.03                        | 23.17                         | 23.14                  |                     |          |
| 15                            | 16QAM      | 36      | 0         | 22.05                 | 21.92                        | 22.10                         | 22.05                  |                     |          |
| 15                            | 16QAM      | 36      | 20        | 22.16                 | 22.08                        | 22.18                         | 22.06                  | 23.5                | 2        |
| 15                            | 16QAM      | 36      | 39        | 22.11                 | 22.10                        | 22.12                         | 22.10                  |                     |          |
| 15                            | 16QAM      | 75      | 0         | 22.23                 | 22.15                        | 22.15                         | 22.03                  |                     |          |
| 15                            | 64QAM      | 1       | 0         | 22.15                 | 22.00                        | 22.17                         | 21.98                  | 23.5                | 2        |
| 15                            | 64QAM      | 1       | 37        | 22.07                 | 21.94                        | 21.99                         | 21.91                  |                     |          |
| 15                            | 64QAM      | 1       | 74        | 22.02                 | 21.99                        | 22.03                         | 21.92                  |                     |          |
| 15                            | 64QAM      | 36      | 0         | 21.08                 | 21.06                        | 21.12                         | 21.09                  | 22.5                | 3        |
| 15                            | 64QAM      | 36      | 20        | 21.20                 | 21.13                        | 21.22                         | 21.03                  |                     |          |
| 15                            | 64QAM      | 36      | 39        | 21.15                 | 21.13                        | 21.16                         | 21.15                  |                     |          |
| 15                            | 64QAM      | 75      | 0         | 21.13                 | 21.16                        | 21.16                         | 21.04                  |                     |          |
| Channel                       |            |         |           | 40190                 | 40490                        | 40790                         | 41140                  |                     |          |
| Frequency (MHz)               |            |         |           | 2550                  | 2580                         | 2610                          | 2645                   | Tune-up limit (dBm) | MPR (dB) |
| 10                            | QPSK       | 1       | 0         | 24.02                 | 23.90                        | 24.04                         | 23.90                  | 25.5                | 0        |
| 10                            | QPSK       | 1       | 25        | 24.00                 | 23.85                        | 23.99                         | 23.84                  |                     |          |
| 10                            | QPSK       | 1       | 49        | 24.07                 | 23.98                        | 24.03                         | 24.02                  |                     |          |
| 10                            | QPSK       | 25      | 0         | 23.07                 | 23.11                        | 23.06                         | 22.90                  |                     |          |
| 10                            | QPSK       | 25      | 12        | 23.09                 | 23.08                        | 23.04                         | 23.07                  |                     |          |
| 10                            | QPSK       | 25      | 25        | 23.05                 | 23.11                        | 23.06                         | 23.10                  | 24.5                | 1        |
| 10                            | QPSK       | 50      | 0         | 23.13                 | 23.05                        | 23.18                         | 23.10                  |                     |          |
| 10                            | 16QAM      | 1       | 0         | 23.13                 | 23.01                        | 23.22                         | 23.06                  |                     |          |
| 10                            | 16QAM      | 1       | 25        | 23.10                 | 22.83                        | 22.87                         | 23.00                  |                     |          |
| 10                            | 16QAM      | 1       | 49        | 23.05                 | 22.95                        | 23.07                         | 23.05                  |                     |          |
| 10                            | 16QAM      | 25      | 0         | 22.07                 | 21.92                        | 21.95                         | 22.04                  | 23.5                | 2        |
| 10                            | 16QAM      | 25      | 12        | 22.18                 | 22.19                        | 22.11                         | 22.14                  |                     |          |
| 10                            | 16QAM      | 25      | 25        | 22.13                 | 22.12                        | 22.13                         | 22.17                  |                     |          |
| 10                            | 16QAM      | 50      | 0         | 22.22                 | 22.25                        | 22.06                         | 22.08                  |                     |          |
| 10                            | 64QAM      | 1       | 0         | 21.93                 | 21.99                        | 21.91                         | 21.94                  |                     |          |
| 10                            | 64QAM      | 1       | 25        | 21.82                 | 21.88                        | 22.03                         | 21.78                  | 23.5                | 2        |
| 10                            | 64QAM      | 1       | 49        | 21.94                 | 21.98                        | 21.95                         | 21.94                  |                     |          |
| 10                            | 64QAM      | 25      | 0         | 21.03                 | 21.07                        | 21.08                         | 21.02                  |                     |          |
| 10                            | 64QAM      | 25      | 12        | 21.14                 | 21.04                        | 21.06                         | 20.98                  |                     |          |
| 10                            | 64QAM      | 25      | 25        | 21.10                 | 20.99                        | 21.10                         | 21.03                  |                     |          |
| 10                            | 64QAM      | 50      | 0         | 20.96                 | 21.00                        | 21.10                         | 20.92                  | 22.5                | 3        |
| Channel                       |            |         |           | 40165                 | 40485                        | 40805                         | 41165                  |                     |          |
| Frequency (MHz)               |            |         |           | 2547.5                | 2579.5                       | 2611.5                        | 2647.5                 | Tune-up limit (dBm) | MPR (dB) |
| 5                             | QPSK       | 1       | 0         | 23.81                 | 23.81                        | 24.11                         | 24.07                  | 25.5                | 0        |
| 5                             | QPSK       | 1       | 12        | 23.90                 | 24.01                        | 24.07                         | 24.02                  |                     |          |
| 5                             | QPSK       | 1       | 24        | 24.01                 | 24.13                        | 23.88                         | 23.90                  |                     |          |
| 5                             | QPSK       | 12      | 0         | 23.12                 | 23.26                        | 23.28                         | 23.22                  |                     |          |
| 5                             | QPSK       | 12      | 7         | 23.32                 | 23.27                        | 23.37                         | 23.30                  |                     |          |
| 5                             | QPSK       | 12      | 13        | 23.26                 | 23.12                        | 23.29                         | 23.22                  | 24.5                | 1        |
| 5                             | QPSK       | 25      | 0         | 23.24                 | 23.25                        | 23.28                         | 23.20                  |                     |          |
| 5                             | 16QAM      | 1       | 0         | 23.16                 | 23.16                        | 23.25                         | 23.10                  |                     |          |
| 5                             | 16QAM      | 1       | 12        | 23.20                 | 23.48                        | 23.23                         | 23.50                  | 24.5                | 1        |
| 5                             | 16QAM      | 1       | 24        | 23.32                 | 23.40                        | 23.22                         | 23.43                  |                     |          |
| 5                             | 16QAM      | 12      | 0         | 22.07                 | 22.12                        | 22.22                         | 22.15                  |                     |          |
| 5                             | 16QAM      | 12      | 7         | 22.27                 | 22.13                        | 22.19                         | 22.23                  | 23.5                | 2        |
| 5                             | 16QAM      | 12      | 13        | 22.30                 | 22.27                        | 22.31                         | 22.33                  |                     |          |
| 5                             | 16QAM      | 25      | 0         | 22.33                 | 22.28                        | 22.37                         | 22.29                  |                     |          |
| 5                             | 64QAM      | 1       | 0         | 22.01                 | 22.06                        | 22.26                         | 22.19                  | 23.5                | 2        |
| 5                             | 64QAM      | 1       | 12        | 22.18                 | 22.18                        | 22.22                         | 22.23                  |                     |          |
| 5                             | 64QAM      | 1       | 24        | 22.33                 | 22.17                        | 22.35                         | 22.17                  |                     |          |
| 5                             | 64QAM      | 12      | 0         | 21.27                 | 21.21                        | 21.30                         | 21.23                  | 22.5                | 3        |
| 5                             | 64QAM      | 12      | 7         | 21.29                 | 21.23                        | 21.41                         | 21.33                  |                     |          |
| 5                             | 64QAM      | 12      | 13        | 21.30                 | 21.18                        | 21.31                         | 21.24                  |                     |          |
| 5                             | 64QAM      | 25      | 0         | 21.28                 | 21.22                        | 21.30                         | 21.14                  |                     |          |

|                 |                           | GSM850 Ant4 DS12 |       |                     |                           |       |       |                     |
|-----------------|---------------------------|------------------|-------|---------------------|---------------------------|-------|-------|---------------------|
| 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 | 824.2 |                     |
| Frequency (MHz) | 824.2                     | 836.4            | 848.8 | 824.2               | 836.4                     | 848.8 | 824.2 |                     |
| GSM 1 Tx slot   | 32.14                     | 32.27            | 32.11 | 33.50               | 23.14                     | 23.27 | 23.11 | 24.50               |
| GPRS 1 Tx slot  | 32.19                     | 32.24            | 31.97 | 33.50               | 23.19                     | 23.24 | 22.97 | 24.50               |
| GPRS 2 Tx slots | 29.66                     | 29.59            | 29.46 | 30.50               | 23.66                     | 23.59 | 23.46 | 24.50               |
| GPRS 3 Tx slots | 27.64                     | 27.44            | 27.85 | 28.50               | 23.38                     | 23.18 | 23.59 | 24.24               |
| GPRS 4 Tx slots | 26.48                     | 26.54            | 26.45 | 27.50               | 23.48                     | 23.54 | 23.45 | 24.50               |
| EDGE 1 Tx slot  | 26.11                     | 26.00            | 25.97 | 27.50               | 17.11                     | 17.00 | 16.97 | 18.50               |
| EDGE 2 Tx slots | 23.36                     | 23.54            | 23.16 | 24.50               | 17.36                     | 17.54 | 17.16 | 18.50               |
| EDGE 3 Tx slots | 21.47                     | 21.55            | 21.29 | 23.00               | 17.21                     | 17.29 | 17.03 | 18.74               |
| EDGE 4 Tx slots | 20.09                     | 20.40            | 20.13 | 21.50               | 17.09                     | 17.40 | 17.13 | 18.50               |

| GSM1900 Ant4 DS12 |                           |       |        |               |                           |        |               |
|-------------------|---------------------------|-------|--------|---------------|---------------------------|--------|---------------|
| GSM1900           | Burst-Average Power (dBm) |       |        | Tune-up Limit | Frame-Average Power (dBm) |        | Tune-up Limit |
| TX Channel        | 512                       | 661   | 810    | 512           | 661                       | 810    | 512           |
| Frequency (MHz)   | 1850.2                    | 1880  | 1909.8 | 1850.2        | 1880                      | 1909.8 | 1850.2        |
| GSM 1 Tx slot     | 28.99                     | 28.98 | 28.84  | 30.50         | 19.99                     | 19.98  | 19.84         |
| GPRS 1 Tx slot    | 29.04                     | 28.89 | 28.79  | 30.50         | 20.04                     | 19.89  | 19.79         |
| GPRS 2 Tx slots   | 26.39                     | 26.52 | 26.51  | 27.50         | 20.39                     | 20.52  | 20.51         |
| GPRS 3 Tx slots   | 24.31                     | 24.38 | 24.04  | 25.50         | 20.05                     | 20.12  | 19.78         |
| GPRS 4 Tx slots   | 22.87                     | 23.10 | 22.81  | 24.50         | 19.87                     | 20.10  | 19.81         |
| EDGE 1 Tx slot    | 24.76                     | 24.91 | 24.63  | 26.50         | 15.76                     | 15.91  | 15.63         |
| EDGE 2 Tx slots   | 22.18                     | 22.25 | 22.24  | 24.00         | 16.18                     | 16.25  | 16.24         |
| EDGE 3 Tx slots   | 19.51                     | 19.57 | 19.54  | 21.50         | 15.25                     | 15.31  | 15.28         |
| EDGE 4 Tx slots   | 19.29                     | 19.04 | 19.40  | 20.50         | 16.29                     | 16.04  | 16.40         |

| WCDMA II Ant4 DS12 |                    |       |        |                     |          |        | WCDMA IV Ant4 DS12 |                     |         |       |       |                     |                     | WCDMA V Ant4 DS12 |       |       |                     |                     |                     |                     |
|--------------------|--------------------|-------|--------|---------------------|----------|--------|--------------------|---------------------|---------|-------|-------|---------------------|---------------------|-------------------|-------|-------|---------------------|---------------------|---------------------|---------------------|
| Band               | WCDMA II           |       |        | Tune-up Limit (dBm) | WCDMA IV |        |                    | Tune-up Limit (dBm) | WCDMA V |       |       | Tune-up Limit (dBm) | Tune-up Limit (dBm) | WCDMA V           |       |       | Tune-up Limit (dBm) | Tune-up Limit (dBm) | Tune-up Limit (dBm) | Tune-up Limit (dBm) |
|                    | 9262               | 9400  | 9538   |                     | 1312     | 1413   | 1513               |                     | 4132    | 4182  | 4233  |                     |                     | 4132              | 4182  | 4233  |                     |                     |                     |                     |
| TX Channel         | 9662               | 9800  | 9938   | 9662                | 1637     | 1638   | 1738               | 1637                | 4357    | 4407  | 4458  | 4357                | 4407                | 4357              | 4407  | 4458  | 4357                | 4407                | 4458                | 4357                |
| Frequency (MHz)    | 1852.4             | 1880  | 1907.6 | 1852.4              | 1712.4   | 1732.6 | 1752.6             | 1712.4              | 826.4   | 836.4 | 846.6 | 826.4               | 836.4               | 826.4             | 836.4 | 846.6 | 826.4               | 836.4               | 846.6               | 826.4               |
| 3GPP Rel 99        | AMR 12.2kbps       | 23.28 | 23.34  | 23.19               | 24.50    | 23.75  | 23.78              | 23.80               | 24.50   | 24.70 | 24.72 | 24.71               | 25.50               | 24.50             | 24.70 | 24.72 | 24.71               | 25.50               | 24.50               | 25.50               |
| 3GPP Rel 99        | RMC 12.2kbps       | 23.31 | 23.36  | 23.20               | 24.50    | 23.73  | 23.83              | 23.81               | 24.50   | 24.71 | 24.73 | 24.68               | 25.50               | 24.50             | 24.71 | 24.73 | 24.68               | 25.50               | 24.50               | 25.50               |
| 3GPP Rel 6         | HSDPA Subtest-1    | 22.33 | 22.38  | 22.21               | 23.50    | 22.83  | 22.89              | 22.90               | 23.50   | 23.82 | 23.80 | 23.72               | 24.50               | 23.50             | 23.82 | 23.80 | 23.72               | 24.50               | 23.50               | 24.50               |
| 3GPP Rel 6         | HSDPA Subtest-2    | 22.35 | 22.36  | 22.23               | 23.50    | 22.87  | 22.89              | 22.92               | 23.50   | 23.78 | 23.79 | 23.71               | 24.50               | 23.50             | 23.78 | 23.79 | 23.71               | 24.50               | 23.50               | 24.50               |
| 3GPP Rel 6         | HSDPA Subtest-3    | 21.83 | 21.85  | 21.71               | 23.00    | 22.35  | 22.40              | 22.06               | 23.00   | 23.28 | 23.32 | 23.16               | 24.00               | 23.00             | 23.28 | 23.32 | 23.16               | 24.00               | 23.00               | 24.00               |
| 3GPP Rel 6         | HSDPA Subtest-4    | 21.86 | 21.86  | 21.67               | 23.00    | 22.32  | 22.39              | 22.44               | 23.00   | 23.28 | 23.32 | 23.21               | 24.00               | 23.00             | 23.28 | 23.32 | 23.21               | 24.00               | 23.00               | 24.00               |
| 3GPP Rel 8         | DC-HSDPA Subtest-1 | 22.36 | 22.48  | 22.11               | 23.50    | 22.85  | 22.83              | 22.84               | 23.50   | 23.81 | 23.88 | 23.70               | 24.50               | 23.50             | 23.81 | 23.88 | 23.70               | 24.50               | 23.50               | 24.50               |
| 3GPP Rel 8         | DC-HSDPA Subtest-2 | 22.25 | 22.46  | 22.26               | 23.50    | 22.77  | 22.82              | 22.81               | 23.50   | 23.80 | 23.78 | 23.60               | 24.50               | 23.50             | 23.80 | 23.78 | 23.60               | 24.50               | 23.50               | 24.50               |
| 3GPP Rel 8         | DC-HSDPA Subtest-3 | 21.78 | 21.90  | 21.65               | 23.00    | 22.37  | 22.36              | 22.01               | 23.00   | 23.27 | 23.22 | 23.27               | 24.00               | 23.00             | 23.27 | 23.22 | 23.27               | 24.00               | 23.00               | 24.00               |
| 3GPP Rel 8         | DC-HSDPA Subtest-4 | 21.96 | 21.96  | 21.60               | 23.00    | 22.31  | 22.49              | 22.50               | 23.00   | 23.29 | 23.00 | 23.23               | 24.00               | 23.00             | 23.29 | 23.00 | 23.23               | 24.00               | 23.00               | 24.00               |
| 3GPP Rel 6         | HSUPA Subtest-1    | 22.31 | 22.36  | 22.20               | 23.50    | 22.86  | 22.86              | 22.90               | 23.50   | 23.74 | 23.72 | 23.62               | 24.50               | 23.50             | 23.74 | 23.72 | 23.62               | 24.50               | 23.50               | 24.50               |
| 3GPP Rel 6         | HSUPA Subtest-2    | 20.25 | 20.28  | 20.19               | 21.50    | 20.83  | 20.78              | 20.79               | 21.50   | 21.74 | 21.70 | 21.64               | 22.50               | 21.50             | 21.74 | 21.70 | 21.64               | 22.50               | 21.50               | 22.50               |
| 3GPP Rel 6         | HSUPA Subtest-3    | 21.29 | 21.33  | 21.22               | 22.50    | 21.84  | 21.90              | 21.88               | 22.50   | 22.71 | 22.73 | 22.65               | 23.50               | 22.50             | 22.71 | 22.73 | 22.65               | 23.50               | 22.50               | 23.50               |
| 3GPP Rel 6         | HSUPA Subtest-4    | 20.30 | 20.35  | 20.28               | 21.50    | 20.84  | 20.89              | 20.87               | 21.50   | 21.72 | 21.77 | 21.67               | 22.50               | 21.50             | 21.72 | 21.77 | 21.67               | 22.50               | 21.50               | 22.50               |
| 3GPP Rel 6         | HSUPA Subtest-5    | 22.30 | 22.25  | 22.20               | 23.50    | 22.80  | 22.85              | 22.90               | 23.50   | 23.70 | 23.65 | 23.60               | 24.50               | 23.50             | 23.70 | 23.65 | 23.60               | 24.50               | 23.50               | 24.50               |



| Band 4 Ant4 DSB2 |            |         |           |                    |                       |                     |                     |          |  |  |  |
|------------------|------------|---------|-----------|--------------------|-----------------------|---------------------|---------------------|----------|--|--|--|
| 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          |            |         |           |                    |                       |                     |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           |                    |                       |                     |                     |          |  |  |  |
| 20               | QPSK       | 1       | 0         | 23.12              | 23.46                 | 23.56               |                     |          |  |  |  |
| 20               | QPSK       | 1       | 49        | 23.16              | 23.42                 | 23.37               | 24.5                | 0        |  |  |  |
| 20               | QPSK       | 1       | 99        | 23.14              | 23.08                 | 23.13               |                     |          |  |  |  |
| 20               | QPSK       | 50      | 0         | 22.28              | 22.39                 | 22.27               |                     |          |  |  |  |
| 20               | QPSK       | 50      | 24        | 22.29              | 22.37                 | 22.38               | 23.5                | 1        |  |  |  |
| 20               | QPSK       | 50      | 24        | 22.28              | 22.35                 | 22.33               |                     |          |  |  |  |
| 20               | QPSK       | 100     | 0         | 22.30              | 22.31                 | 22.26               |                     |          |  |  |  |
| 20               | 16QAM      | 1       | 0         | 22.42              | 22.27                 | 22.37               |                     |          |  |  |  |
| 20               | 16QAM      | 1       | 49        | 22.29              | 22.41                 | 22.56               | 23.5                | 1        |  |  |  |
| 20               | 16QAM      | 1       | 99        | 22.48              | 22.47                 | 22.52               |                     |          |  |  |  |
| 20               | 16QAM      | 50      | 0         | 21.24              | 21.27                 | 21.34               |                     |          |  |  |  |
| 20               | 16QAM      | 50      | 24        | 21.29              | 21.34                 | 21.29               | 22.5                | 2        |  |  |  |
| 20               | 16QAM      | 50      | 50        | 21.32              | 21.42                 | 21.44               |                     |          |  |  |  |
| 20               | 16QAM      | 100     | 0         | 21.30              | 21.33                 | 21.27               |                     |          |  |  |  |
| 20               | 64QAM      | 1       | 0         | 21.47              | 21.33                 | 21.40               |                     |          |  |  |  |
| 20               | 64QAM      | 1       | 49        | 21.18              | 21.31                 | 21.33               | 22.5                | 2        |  |  |  |
| 20               | 64QAM      | 1       | 99        | 21.29              | 21.23                 | 21.30               |                     |          |  |  |  |
| 20               | 64QAM      | 50      | 0         | 20.29              | 20.36                 | 20.41               |                     |          |  |  |  |
| 20               | 64QAM      | 50      | 24        | 20.37              | 20.35                 | 20.31               | 21.5                | 3        |  |  |  |
| 20               | 64QAM      | 50      | 50        | 20.21              | 20.28                 | 20.35               |                     |          |  |  |  |
| 20               | 64QAM      | 100     | 0         | 20.33              | 20.31                 | 20.33               |                     |          |  |  |  |
| Channel          |            |         |           |                    |                       |                     |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           |                    |                       |                     |                     |          |  |  |  |
| 15               | QPSK       | 1       | 0         | 23.09              | 23.23                 | 23.20               | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| 15               | QPSK       | 1       | 37        | 23.08              | 23.17                 | 23.13               | 24.5                | 0        |  |  |  |
| 15               | QPSK       | 1       | 74        | 23.14              | 23.24                 | 23.17               |                     |          |  |  |  |
| 15               | QPSK       | 36      | 0         | 22.31              | 22.35                 | 22.38               |                     |          |  |  |  |
| 15               | QPSK       | 36      | 20        | 22.27              | 22.27                 | 22.40               | 23.5                | 1        |  |  |  |
| 15               | QPSK       | 36      | 39        | 22.30              | 22.32                 | 22.25               |                     |          |  |  |  |
| 15               | QPSK       | 75      | 0         | 22.26              | 22.37                 | 22.33               |                     |          |  |  |  |
| 15               | 16QAM      | 1       | 0         | 22.41              | 22.41                 | 22.46               | 23.5                | 1        |  |  |  |
| 15               | 16QAM      | 1       | 37        | 22.38              | 22.34                 | 22.43               |                     |          |  |  |  |
| 15               | 16QAM      | 1       | 74        | 22.37              | 22.38                 | 22.25               |                     |          |  |  |  |
| 15               | 16QAM      | 36      | 0         | 21.26              | 21.28                 | 21.27               |                     |          |  |  |  |
| 15               | 16QAM      | 36      | 20        | 21.38              | 21.30                 | 21.39               | 22.5                | 2        |  |  |  |
| 15               | 16QAM      | 36      | 39        | 21.30              | 21.32                 | 21.30               |                     |          |  |  |  |
| 15               | 16QAM      | 75      | 0         | 21.35              | 21.39                 | 21.34               |                     |          |  |  |  |
| 15               | 64QAM      | 1       | 0         | 21.06              | 21.18                 | 20.83               |                     |          |  |  |  |
| 15               | 64QAM      | 1       | 37        | 20.89              | 21.08                 | 20.97               | 22.5                | 2        |  |  |  |
| 15               | 64QAM      | 1       | 74        | 20.89              | 20.90                 | 20.88               |                     |          |  |  |  |
| 15               | 64QAM      | 36      | 0         | 20.21              | 20.28                 | 20.29               |                     |          |  |  |  |
| 15               | 64QAM      | 36      | 20        | 20.34              | 20.27                 | 20.35               | 21.5                | 3        |  |  |  |
| 15               | 64QAM      | 36      | 39        | 20.30              | 20.32                 | 20.27               |                     |          |  |  |  |
| 15               | 64QAM      | 75      | 0         | 20.22              | 20.29                 | 20.39               |                     |          |  |  |  |
| Channel          |            |         |           |                    |                       |                     |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           |                    |                       |                     |                     |          |  |  |  |
| 10               | QPSK       | 1       | 0         | 23.22              | 23.30                 | 23.43               | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| 10               | QPSK       | 1       | 25        | 23.32              | 23.22                 | 23.24               | 24.5                | 0        |  |  |  |
| 10               | QPSK       | 1       | 24        | 23.38              | 23.24                 | 23.23               |                     |          |  |  |  |
| 10               | QPSK       | 25      | 0         | 22.23              | 22.31                 | 22.20               |                     |          |  |  |  |
| 10               | QPSK       | 25      | 12        | 22.22              | 22.24                 | 22.28               | 23.5                | 1        |  |  |  |
| 10               | QPSK       | 25      | 25        | 22.26              | 22.34                 | 22.21               |                     |          |  |  |  |
| 10               | QPSK       | 50      | 0         | 22.22              | 22.24                 | 22.18               |                     |          |  |  |  |
| 10               | 16QAM      | 1       | 0         | 22.47              | 22.19                 | 22.52               | 23.5                | 1        |  |  |  |
| 10               | 16QAM      | 1       | 25        | 22.50              | 22.34                 | 22.68               |                     |          |  |  |  |
| 10               | 16QAM      | 1       | 49        | 22.21              | 22.26                 | 22.44               |                     |          |  |  |  |
| 10               | 16QAM      | 25      | 0         | 21.43              | 21.34                 | 21.54               | 22.5                | 2        |  |  |  |
| 10               | 16QAM      | 25      | 12        | 21.39              | 21.46                 | 21.48               |                     |          |  |  |  |
| 10               | 16QAM      | 25      | 25        | 21.38              | 21.45                 | 21.44               |                     |          |  |  |  |
| 10               | 16QAM      | 50      | 0         | 21.38              | 21.43                 | 21.42               | 21.5                | 2        |  |  |  |
| 10               | 64QAM      | 1       | 0         | 21.07              | 21.19                 | 21.07               |                     |          |  |  |  |
| 10               | 64QAM      | 1       | 25        | 21.12              | 21.31                 | 20.94               | 22.5                | 2        |  |  |  |
| 10               | 64QAM      | 1       | 49        | 20.97              | 21.17                 | 21.11               |                     |          |  |  |  |
| 10               | 64QAM      | 25      | 0         | 20.41              | 20.49                 | 20.43               |                     |          |  |  |  |
| 10               | 64QAM      | 25      | 12        | 20.47              | 20.51                 | 20.45               | 21.5                | 3        |  |  |  |
| 10               | 64QAM      | 25      | 25        | 20.34              | 20.32                 | 20.55               |                     |          |  |  |  |
| 10               | 64QAM      | 50      | 0         | 20.42              | 20.45                 | 20.45               |                     |          |  |  |  |
| Channel          |            |         |           |                    |                       |                     |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           |                    |                       |                     |                     |          |  |  |  |
| 5                | QPSK       | 1       | 0         | 23.37              | 23.16                 | 23.26               | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| 5                | QPSK       | 1       | 12        | 23.38              | 23.34                 | 23.34               | 24.5                | 0        |  |  |  |
| 5                | QPSK       | 1       | 24        | 23.38              | 23.44                 | 23.25               |                     |          |  |  |  |
| 5                | QPSK       | 12      | 0         | 22.20              | 22.21                 | 22.27               | 23.5                | 1        |  |  |  |
| 5                | QPSK       | 12      | 7         | 22.25              | 22.22                 | 22.29               |                     |          |  |  |  |
| 5                | QPSK       | 12      | 13        | 22.12              | 22.26                 | 22.24               |                     |          |  |  |  |
| 5                | QPSK       | 25      | 0         | 22.19              | 22.25                 | 22.28               |                     |          |  |  |  |
| 5                | 16QAM      | 1       | 0         | 22.36              | 22.20                 | 22.18               |                     |          |  |  |  |
| 5                | 16QAM      | 1       | 12        | 22.27              | 22.14                 | 22.30               | 23.5                | 1        |  |  |  |
| 5                | 16QAM      | 1       | 24        | 22.30              | 22.35                 | 22.56               |                     |          |  |  |  |
| 5                | 16QAM      | 12      | 0         | 21.43              | 21.30                 | 21.50               | 22.5                | 2        |  |  |  |
| 5                | 16QAM      | 12      | 7         | 21.48              | 21.50                 | 21.53               |                     |          |  |  |  |
| 5                | 16QAM      | 12      | 13        | 21.58              | 21.56                 | 21.43               |                     |          |  |  |  |
| 5                | 16QAM      | 25      | 0         | 21.45              | 21.52                 | 21.49               |                     |          |  |  |  |
| 5                | 64QAM      | 1       | 0         | 21.22              | 21.23                 | 21.62               | 22.5                | 2        |  |  |  |
| 5                | 64QAM      | 1       | 12        | 21.03              | 21.14                 | 21.00               |                     |          |  |  |  |
| 5                | 64QAM      | 1       | 24        | 21.18              | 21.12                 | 20.93               |                     |          |  |  |  |
| 5                | 64QAM      | 12      | 0         | 20.41              | 20.36                 | 20.36               |                     |          |  |  |  |
| 5                | 64QAM      | 12      | 7         | 20.40              | 20.46                 | 20.44               | 21.5                | 3        |  |  |  |
| 5                | 64QAM      | 12      | 13        | 20.31              | 20.44                 | 20.33               |                     |          |  |  |  |
| 5                | 64QAM      | 25      | 0         | 20.48              | 20.40                 | 20.39               |                     |          |  |  |  |
| Channel          |            |         |           |                    |                       |                     |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           |                    |                       |                     |                     |          |  |  |  |
| 3                | QPSK       | 1       | 0         | 23.15              | 23.25                 | 23.35               | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| 3                | QPSK       | 1       | 8         | 23.35              | 23.37                 | 23.35               | 24.5                | 0        |  |  |  |
| 3                | QPSK       | 1       | 14        | 23.29              | 23.32                 | 23.24               |                     |          |  |  |  |
| 3                | QPSK       | 8       | 0         | 22.46              | 22.32                 | 22.27               |                     |          |  |  |  |
| 3                | QPSK       | 8       | 4         | 22.42              | 22.49                 | 22.52               | 23.5                | 1        |  |  |  |
| 3                | QPSK       | 15      | 0         | 22.41              | 22.32                 | 22.35               |                     |          |  |  |  |
| 3                | QPSK       | 15      | 0         | 22.33              | 22.42                 | 22.45               |                     |          |  |  |  |
| 3                | 16QAM      | 1       | 0         | 22.32              | 22.34                 | 22.11               |                     |          |  |  |  |
| 3                | 16QAM      | 1       | 8         | 22.04              | 22.30                 | 22.28               | 23.5                | 1        |  |  |  |
| 3                | 16QAM      | 1       | 14        | 22.09              | 22.24                 | 22.28               |                     |          |  |  |  |
| 3                | 16QAM      | 8       | 0         | 21.38              | 21.54                 | 21.45               |                     |          |  |  |  |
| 3                | 16QAM      | 8       | 4         | 21.48              | 21.52                 | 21.52               | 22.5                | 2        |  |  |  |
| 3                | 16QAM      | 8       | 7         | 21.44              | 21.61                 | 21.55               |                     |          |  |  |  |
| 3                | 16QAM      | 15      | 0         | 21.46              | 21.39                 | 21.52               |                     |          |  |  |  |
| 3                | 64QAM      | 1       | 0         | 21.16              | 21.25                 | 21.25               |                     |          |  |  |  |
| 3                | 64QAM      | 1       | 8         | 21.39              | 21.21                 | 21.03               | 22.5                | 2        |  |  |  |
| 3                | 64QAM      | 1       | 14        | 21.27              | 21.20                 | 21.29               |                     |          |  |  |  |
| 3                | 64QAM      | 8       | 0         | 20.33              | 20.34                 | 20.41               |                     |          |  |  |  |
| 3                | 64QAM      | 8       | 4         | 20.16              | 20.39                 | 20.26               | 21.5                | 3        |  |  |  |
| 3                | 64QAM      | 8       | 7         | 20.54              | 20.50                 | 20.40               |                     |          |  |  |  |
| 3                | 64QAM      | 15      | 0         | 20.36              | 20.28                 | 20.47               |                     |          |  |  |  |
| Channel          |            |         |           |                    |                       |                     |                     |          |  |  |  |
| Frequency (MHz)  |            |         |           |                    |                       |                     |                     |          |  |  |  |
| 1.4              | QPSK       | 1       | 0         | 23.17              | 23.25                 | 23.32               | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| 1.4              | QPSK       | 1       | 3         | 23.27              | 23.31                 | 23.23               | 24.5                | 0        |  |  |  |
| 1.4              | QPSK       | 1       | 5         | 23.18              | 23.29                 | 23.07               |                     |          |  |  |  |
| 1.4              | QPSK       | 3       | 0         | 23.23              | 23.22                 | 23.29               |                     |          |  |  |  |
| 1.4              | QPSK       | 3       | 3         | 23.17              | 23.34                 | 23.27               |                     |          |  |  |  |
| 1.4              | QPSK       | 6       | 0         | 22.30              | 22.32                 | 22.32               | 23.5                | 1        |  |  |  |
| 1.4              | 16QAM      | 1       | 0         | 22.27              | 22.17                 | 22.13               |                     |          |  |  |  |
| 1.4              | 16QAM      | 1       | 3         | 21.96              | 22.05                 | 22.19               |                     |          |  |  |  |
| 1.4              | 16QAM      | 1       | 5         | 22.05              | 21.96                 | 22.12               | 23.5                | 1        |  |  |  |
| 1.4              | 16QAM      | 3       | 0         | 22.13              | 22.26                 | 22.25               |                     |          |  |  |  |
| 1.4              | 16QAM      | 3       | 2         | 22.20              | 22.28                 | 22.25               |                     |          |  |  |  |
| 1.4              | 16QAM      | 6       | 0         | 22.22              | 22.29                 | 22.28               | 22.5                | 2        |  |  |  |
| 1.4              | 16QAM      | 6       | 3         | 21.33              | 21.29                 | 21.37               |                     |          |  |  |  |
| 1.4              | 64QAM      | 1       | 0         | 21.18              | 21.16                 | 21.28               |                     |          |  |  |  |
| 1.4              | 64QAM      | 1       | 3         | 21.09              | 20.96                 | 21.23               |                     |          |  |  |  |
| 1.4              | 64QAM      | 1       | 5         | 21.25              | 21.14                 | 21.28               | 22.5                | 2        |  |  |  |
| 1.4              | 64QAM      | 3       | 0         | 21.35              | 21.24                 | 21.20               |                     |          |  |  |  |
| 1.4              | 64QAM      | 3       | 21        | 21.34              | 21.28                 | 21.38               |                     |          |  |  |  |
| 1.4              | 64QAM      | 3       | 3         | 21.37              | 21.18                 | 21.21               |                     |          |  |  |  |
| 1.4              | 64QAM      | 6       | 0         | 20.34              | 20.24                 | 20.22               | 21.5                | 3        |  |  |  |

| Band 5 Ant4 D512 |            |         |           |                     |                        |                      |                     |          |  |  |
|------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|--|
| 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          |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)  |            |         |           |                     |                        |                      |                     |          |  |  |
| 10               | QPSK       | 1       | 0         | 24.04               | 24.41                  | 24.08                |                     |          |  |  |
| 10               | QPSK       | 1       | 25        | 24.14               | 24.18                  | 24.29                | 25.5                | 0        |  |  |
| 10               | QPSK       | 1       | 49        | 24.07               | 24.02                  | 24.06                |                     |          |  |  |
| 10               | QPSK       | 25      | 0         | 23.22               | 23.36                  | 23.19                |                     |          |  |  |
| 10               | QPSK       | 25      | 12        | 23.30               | 23.34                  | 23.30                | 24.5                | 1        |  |  |
| 10               | QPSK       | 25      | 25        | 23.33               | 23.33                  | 23.29                |                     |          |  |  |
| 10               | QPSK       | 50      | 0         | 23.32               | 23.35                  | 23.21                |                     |          |  |  |
| 10               | 16QAM      | 1       | 0         | 23.62               | 23.42                  | 23.60                |                     |          |  |  |
| 10               | 16QAM      | 1       | 25        | 23.41               | 23.43                  | 23.60                | 24.5                | 1        |  |  |
| 10               | 16QAM      | 1       | 49        | 23.52               | 23.76                  | 23.64                |                     |          |  |  |
| 10               | 16QAM      | 25      | 0         | 22.28               | 22.28                  | 22.15                |                     |          |  |  |
| 10               | 16QAM      | 25      | 12        | 22.32               | 22.32                  | 22.32                | 23.5                | 2        |  |  |
| 10               | 16QAM      | 25      | 25        | 22.36               | 22.12                  | 22.13                |                     |          |  |  |
| 10               | 16QAM      | 50      | 0         | 22.23               | 22.27                  | 22.14                |                     |          |  |  |
| 10               | 64QAM      | 1       | 0         | 22.33               | 22.34                  | 22.30                |                     |          |  |  |
| 10               | 64QAM      | 1       | 25        | 22.43               | 22.06                  | 22.28                | 23.5                | 2        |  |  |
| 10               | 64QAM      | 1       | 49        | 22.41               | 22.39                  | 22.42                |                     |          |  |  |
| 10               | 64QAM      | 25      | 0         | 21.24               | 21.27                  | 21.27                |                     |          |  |  |
| 10               | 64QAM      | 25      | 12        | 21.33               | 21.34                  | 21.28                | 22.5                | 3        |  |  |
| 10               | 64QAM      | 25      | 25        | 21.24               | 21.29                  | 21.19                |                     |          |  |  |
| 10               | 64QAM      | 50      | 0         | 21.21               | 21.25                  | 21.25                |                     |          |  |  |
| Channel          |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)  |            |         |           |                     |                        |                      |                     |          |  |  |
| 5                | QPSK       | 1       | 0         | 24.33               | 24.39                  | 24.20                |                     |          |  |  |
| 5                | QPSK       | 1       | 24        | 24.33               | 24.21                  | 24.20                | 25.5                | 0        |  |  |
| 5                | QPSK       | 1       | 24        | 23.37               | 24.26                  | 24.04                |                     |          |  |  |
| 5                | QPSK       | 12      | 0         | 23.46               | 23.33                  | 23.31                |                     |          |  |  |
| 5                | QPSK       | 12      | 7         | 23.51               | 23.37                  | 23.22                | 24.5                | 1        |  |  |
| 5                | QPSK       | 12      | 13        | 23.49               | 23.29                  | 23.24                |                     |          |  |  |
| 5                | QPSK       | 25      | 0         | 23.40               | 23.31                  | 23.29                |                     |          |  |  |
| 5                | 16QAM      | 1       | 0         | 23.64               | 23.65                  | 23.77                |                     |          |  |  |
| 5                | 16QAM      | 1       | 12        | 23.73               | 23.74                  | 23.66                | 24.5                | 1        |  |  |
| 5                | 16QAM      | 1       | 24        | 23.61               | 23.66                  | 23.55                |                     |          |  |  |
| 5                | 16QAM      | 12      | 0         | 22.50               | 22.31                  | 22.33                |                     |          |  |  |
| 5                | 16QAM      | 12      | 7         | 22.43               | 22.41                  | 22.32                | 23.5                | 2        |  |  |
| 5                | 16QAM      | 12      | 13        | 22.45               | 22.38                  | 22.43                |                     |          |  |  |
| 5                | 16QAM      | 25      | 0         | 22.36               | 22.36                  | 22.15                |                     |          |  |  |
| 5                | 64QAM      | 1       | 0         | 22.56               | 22.56                  | 22.23                |                     |          |  |  |
| 5                | 64QAM      | 1       | 12        | 22.46               | 22.49                  | 22.44                | 23.5                | 2        |  |  |
| 5                | 64QAM      | 1       | 24        | 22.55               | 22.54                  | 22.67                |                     |          |  |  |
| 5                | 64QAM      | 12      | 0         | 21.55               | 21.48                  | 21.27                |                     |          |  |  |
| 5                | 64QAM      | 12      | 7         | 21.35               | 21.44                  | 21.17                | 22.5                | 3        |  |  |
| 5                | 64QAM      | 12      | 13        | 21.24               | 21.39                  | 21.16                |                     |          |  |  |
| 5                | 64QAM      | 25      | 0         | 21.31               | 21.38                  | 21.29                |                     |          |  |  |
| Channel          |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)  |            |         |           |                     |                        |                      |                     |          |  |  |
| 3                | QPSK       | 1       | 0         | 825.5               | 836.5                  | 847.5                |                     |          |  |  |
| 3                | QPSK       | 1       | 8         | 24.27               | 24.24                  | 24.29                | 25.5                | 0        |  |  |
| 3                | QPSK       | 1       | 14        | 24.40               | 24.33                  | 24.16                |                     |          |  |  |
| 3                | QPSK       | 8       | 0         | 23.31               | 23.29                  | 23.38                |                     |          |  |  |
| 3                | QPSK       | 8       | 4         | 23.47               | 23.37                  | 23.32                | 24.5                | 1        |  |  |
| 3                | QPSK       | 8       | 7         | 23.35               | 23.32                  | 23.41                |                     |          |  |  |
| 3                | QPSK       | 15      | 0         | 23.42               | 23.35                  | 23.38                |                     |          |  |  |
| 3                | 16QAM      | 1       | 0         | 23.70               | 23.62                  | 23.76                |                     |          |  |  |
| 3                | 16QAM      | 1       | 8         | 23.77               | 23.54                  | 23.63                | 24.5                | 1        |  |  |
| 3                | 16QAM      | 1       | 14        | 23.74               | 23.55                  | 23.51                |                     |          |  |  |
| 3                | 16QAM      | 8       | 0         | 22.36               | 22.32                  | 22.33                |                     |          |  |  |
| 3                | 16QAM      | 8       | 4         | 22.47               | 22.38                  | 22.33                | 23.5                | 2        |  |  |
| 3                | 16QAM      | 8       | 7         | 22.44               | 22.22                  | 22.40                |                     |          |  |  |
| 3                | 16QAM      | 15      | 0         | 22.30               | 22.25                  | 22.42                |                     |          |  |  |
| 3                | 64QAM      | 1       | 0         | 22.36               | 22.29                  | 22.19                |                     |          |  |  |
| 3                | 64QAM      | 1       | 5         | 22.42               | 22.25                  | 22.24                | 23.5                | 2        |  |  |
| 3                | 64QAM      | 1       | 14        | 22.47               | 22.22                  | 22.43                |                     |          |  |  |
| 3                | 64QAM      | 8       | 0         | 21.40               | 21.41                  | 21.43                |                     |          |  |  |
| 3                | 64QAM      | 8       | 4         | 21.27               | 21.31                  | 21.10                | 22.5                | 3        |  |  |
| 3                | 64QAM      | 8       | 7         | 21.19               | 21.29                  | 21.41                |                     |          |  |  |
| 3                | 64QAM      | 15      | 0         | 21.43               | 21.44                  | 21.38                |                     |          |  |  |
| Channel          |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)  |            |         |           |                     |                        |                      |                     |          |  |  |
| 1.4              | QPSK       | 1       | 0         | 2067                | 2056                   | 2063                 |                     |          |  |  |
| 1.4              | QPSK       | 1       | 3         | 836.5               | 836.5                  | 846.3                |                     |          |  |  |
| 1.4              | QPSK       | 1       | 3         | 24.38               | 24.03                  | 24.09                | 25.5                | 0        |  |  |
| 1.4              | QPSK       | 1       | 5         | 24.16               | 24.01                  | 24.16                |                     |          |  |  |
| 1.4              | QPSK       | 3       | 3         | 24.14               | 24.13                  | 24.14                |                     |          |  |  |
| 1.4              | QPSK       | 3       | 3         | 24.32               | 24.09                  | 24.20                |                     |          |  |  |
| 1.4              | QPSK       | 3       | 3         | 24.22               | 24.07                  | 24.25                |                     |          |  |  |
| 1.4              | 16QAM      | 6       | 0         | 23.24               | 23.18                  | 23.22                | 24.5                | 1        |  |  |
| 1.4              | 16QAM      | 1       | 0         | 23.34               | 23.27                  | 23.13                |                     |          |  |  |
| 1.4              | 16QAM      | 1       | 3         | 23.42               | 23.36                  | 23.47                |                     |          |  |  |
| 1.4              | 16QAM      | 1       | 5         | 23.40               | 23.43                  | 23.12                | 24.5                | 1        |  |  |
| 1.4              | 16QAM      | 3       | 0         | 23.36               | 23.16                  | 23.18                |                     |          |  |  |
| 1.4              | 16QAM      | 3       | 3         | 23.34               | 23.16                  | 23.29                |                     |          |  |  |
| 1.4              | 16QAM      | 3       | 3         | 23.19               | 23.27                  | 23.10                |                     |          |  |  |
| 1.4              | 16QAM      | 6       | 0         | 22.53               | 22.21                  | 22.33                | 23.5                | 2        |  |  |
| 1.4              | 64QAM      | 1       | 0         | 22.30               | 22.20                  | 22.38                |                     |          |  |  |
| 1.4              | 64QAM      | 1       | 3         | 22.33               | 22.27                  | 22.11                |                     |          |  |  |
| 1.4              | 64QAM      | 1       | 5         | 22.13               | 22.25                  | 22.29                | 23.5                | 2        |  |  |
| 1.4              | 64QAM      | 3       | 0         | 22.42               | 22.23                  | 22.21                |                     |          |  |  |
| 1.4              | 64QAM      | 3       | 3         | 22.10               | 22.25                  | 22.35                |                     |          |  |  |
| 1.4              | 64QAM      | 3       | 3         | 22.35               | 22.19                  | 22.08                |                     |          |  |  |
| 1.4              | 64QAM      | 6       | 0         | 21.28               | 21.17                  | 21.36                | 22.5                | 3        |  |  |

| Band 7 Ant4 DS12 |            |         |           |                        |                           |                         |                           |             |  |  |  |
|------------------|------------|---------|-----------|------------------------|---------------------------|-------------------------|---------------------------|-------------|--|--|--|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low<br>Ch./Freq. | Power Middle<br>Ch./Freq. | Power High<br>Ch./Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |  |
| Channel          |            |         |           | 20650                  | 21100                     | 21350                   |                           |             |  |  |  |
| Frequency (MHz)  |            |         |           | 2507.5                 | 2535                      | 2560                    |                           |             |  |  |  |
| 20               | QPSK       | 1       | 0         | 22.56                  | 22.67                     | 22.35                   | 23.5                      | 0           |  |  |  |
| 20               | QPSK       | 1       | 49        | 22.35                  | 22.46                     | 22.34                   |                           |             |  |  |  |
| 20               | QPSK       | 1       | 99        | 22.38                  | 22.46                     | 22.42                   |                           |             |  |  |  |
| 20               | QPSK       | 50      | 0         | 21.38                  | 21.65                     | 21.42                   | 22.5                      | 1           |  |  |  |
| 20               | QPSK       | 50      | 24        | 21.46                  | 21.49                     | 21.56                   |                           |             |  |  |  |
| 20               | QPSK       | 50      | 50        | 21.45                  | 21.55                     | 21.49                   |                           |             |  |  |  |
| 20               | QPSK       | 100     | 0         | 21.45                  | 21.52                     | 21.40                   | 22.5                      | 1           |  |  |  |
| 20               | 16QAM      | 1       | 0         | 21.71                  | 21.79                     | 21.83                   |                           |             |  |  |  |
| 20               | 16QAM      | 1       | 49        | 21.91                  | 21.97                     | 21.61                   |                           |             |  |  |  |
| 20               | 16QAM      | 1       | 99        | 21.98                  | 21.75                     | 21.63                   | 21.5                      | 2           |  |  |  |
| 20               | 16QAM      | 50      | 0         | 20.40                  | 20.49                     | 20.43                   |                           |             |  |  |  |
| 20               | 16QAM      | 50      | 24        | 20.46                  | 20.45                     | 20.44                   |                           |             |  |  |  |
| 20               | 16QAM      | 50      | 50        | 20.57                  | 20.53                     | 20.63                   | 21.5                      | 2           |  |  |  |
| 20               | 16QAM      | 100     | 0         | 20.50                  | 20.54                     | 20.50                   |                           |             |  |  |  |
| 20               | 64QAM      | 1       | 0         | 20.61                  | 20.55                     | 20.48                   |                           |             |  |  |  |
| 20               | 64QAM      | 1       | 49        | 20.47                  | 20.51                     | 20.77                   | 21.5                      | 2           |  |  |  |
| 20               | 64QAM      | 1       | 99        | 20.48                  | 20.77                     | 20.78                   |                           |             |  |  |  |
| 20               | 64QAM      | 50      | 0         | 19.35                  | 19.43                     | 19.44                   |                           |             |  |  |  |
| 20               | 64QAM      | 50      | 24        | 19.54                  | 19.44                     | 19.60                   | 20.5                      | 3           |  |  |  |
| 20               | 64QAM      | 50      | 50        | 19.49                  | 19.50                     | 19.68                   |                           |             |  |  |  |
| 20               | 64QAM      | 100     | 0         | 19.59                  | 19.48                     | 19.50                   |                           |             |  |  |  |
| Channel          |            |         |           | 20625                  | 21100                     | 21375                   | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |  |
| Frequency (MHz)  |            |         |           | 2507.5                 | 2535                      | 2562.5                  |                           |             |  |  |  |
| 15               | QPSK       | 1       | 0         | 22.34                  | 22.62                     | 22.28                   | 23.5                      | 0           |  |  |  |
| 15               | QPSK       | 1       | 37        | 22.37                  | 22.32                     | 22.56                   |                           |             |  |  |  |
| 15               | QPSK       | 1       | 74        | 22.44                  | 22.45                     | 22.43                   |                           |             |  |  |  |
| 15               | QPSK       | 36      | 0         | 21.47                  | 21.58                     | 21.50                   | 22.5                      | 1           |  |  |  |
| 15               | QPSK       | 36      | 20        | 21.48                  | 21.46                     | 21.51                   |                           |             |  |  |  |
| 15               | QPSK       | 36      | 39        | 21.49                  | 21.51                     | 21.58                   |                           |             |  |  |  |
| 15               | QPSK       | 75      | 0         | 21.56                  | 21.49                     | 21.54                   | 22.5                      | 1           |  |  |  |
| 15               | 16QAM      | 1       | 0         | 21.49                  | 21.79                     | 21.72                   |                           |             |  |  |  |
| 15               | 16QAM      | 1       | 37        | 21.52                  | 21.48                     | 21.49                   |                           |             |  |  |  |
| 15               | 16QAM      | 1       | 74        | 21.59                  | 21.50                     | 21.70                   | 21.5                      | 2           |  |  |  |
| 15               | 16QAM      | 36      | 0         | 20.50                  | 20.40                     | 20.56                   |                           |             |  |  |  |
| 15               | 16QAM      | 36      | 20        | 20.46                  | 20.43                     | 20.59                   |                           |             |  |  |  |
| 15               | 16QAM      | 36      | 39        | 20.57                  | 20.55                     | 20.62                   | 21.5                      | 2           |  |  |  |
| 15               | 16QAM      | 75      | 0         | 20.51                  | 20.46                     | 20.51                   |                           |             |  |  |  |
| 15               | 64QAM      | 1       | 0         | 20.45                  | 20.59                     | 20.73                   |                           |             |  |  |  |
| 15               | 64QAM      | 1       | 37        | 20.58                  | 20.64                     | 20.81                   | 21.5                      | 2           |  |  |  |
| 15               | 64QAM      | 1       | 74        | 20.47                  | 20.75                     | 20.62                   |                           |             |  |  |  |
| 15               | 64QAM      | 36      | 0         | 19.47                  | 19.50                     | 19.53                   |                           |             |  |  |  |
| 15               | 64QAM      | 36      | 20        | 19.45                  | 19.52                     | 19.49                   | 20.5                      | 3           |  |  |  |
| 15               | 64QAM      | 36      | 39        | 19.55                  | 19.56                     | 19.49                   |                           |             |  |  |  |
| 15               | 64QAM      | 75      | 0         | 19.44                  | 19.39                     | 19.50                   |                           |             |  |  |  |
| Channel          |            |         |           | 20900                  | 21100                     | 21400                   | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |  |
| Frequency (MHz)  |            |         |           | 2505                   | 2535                      | 2565                    |                           |             |  |  |  |
| 10               | QPSK       | 1       | 0         | 22.32                  | 22.65                     | 22.40                   | 23.5                      | 0           |  |  |  |
| 10               | QPSK       | 1       | 25        | 22.46                  | 22.51                     | 22.66                   |                           |             |  |  |  |
| 10               | QPSK       | 1       | 49        | 22.43                  | 22.56                     | 22.52                   |                           |             |  |  |  |
| 10               | QPSK       | 25      | 0         | 21.64                  | 21.56                     | 21.63                   | 22.5                      | 1           |  |  |  |
| 10               | QPSK       | 25      | 12        | 21.53                  | 21.67                     | 21.69                   |                           |             |  |  |  |
| 10               | QPSK       | 25      | 25        | 21.57                  | 21.75                     | 21.82                   |                           |             |  |  |  |
| 10               | QPSK       | 50      | 0         | 21.56                  | 21.55                     | 21.64                   | 22.5                      | 1           |  |  |  |
| 10               | 16QAM      | 1       | 0         | 21.59                  | 21.55                     | 21.44                   |                           |             |  |  |  |
| 10               | 16QAM      | 1       | 25        | 21.76                  | 21.65                     | 21.53                   |                           |             |  |  |  |
| 10               | 16QAM      | 1       | 49        | 21.72                  | 21.70                     | 21.68                   | 21.5                      | 2           |  |  |  |
| 10               | 16QAM      | 25      | 0         | 20.58                  | 20.58                     | 20.42                   |                           |             |  |  |  |
| 10               | 16QAM      | 25      | 12        | 20.59                  | 20.46                     | 20.38                   |                           |             |  |  |  |
| 10               | 16QAM      | 25      | 25        | 20.52                  | 20.40                     | 20.60                   | 21.5                      | 2           |  |  |  |
| 10               | 16QAM      | 50      | 0         | 20.59                  | 20.56                     | 20.70                   |                           |             |  |  |  |
| 10               | 64QAM      | 1       | 0         | 20.47                  | 20.55                     | 20.31                   |                           |             |  |  |  |
| 10               | 64QAM      | 1       | 25        | 20.57                  | 20.34                     | 20.54                   | 21.5                      | 2           |  |  |  |
| 10               | 64QAM      | 1       | 49        | 20.45                  | 20.36                     | 20.56                   |                           |             |  |  |  |
| 10               | 64QAM      | 25      | 0         | 19.58                  | 19.46                     | 19.68                   |                           |             |  |  |  |
| 10               | 64QAM      | 25      | 12        | 19.66                  | 19.72                     | 19.76                   | 20.5                      | 3           |  |  |  |
| 10               | 64QAM      | 25      | 25        | 19.65                  | 19.71                     | 19.78                   |                           |             |  |  |  |
| 10               | 64QAM      | 50      | 0         | 19.57                  | 19.43                     | 19.70                   |                           |             |  |  |  |
| Channel          |            |         |           | 20775                  | 21100                     | 21425                   | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |  |
| Frequency (MHz)  |            |         |           | 2502.5                 | 2535                      | 2567.5                  |                           |             |  |  |  |
| 5                | QPSK       | 1       | 0         | 22.45                  | 22.62                     | 22.54                   | 23.5                      | 0           |  |  |  |
| 5                | QPSK       | 1       | 12        | 22.33                  | 22.36                     | 22.47                   |                           |             |  |  |  |
| 5                | QPSK       | 1       | 24        | 22.55                  | 22.62                     | 22.58                   |                           |             |  |  |  |
| 5                | QPSK       | 12      | 0         | 21.51                  | 21.58                     | 21.64                   | 22.5                      | 1           |  |  |  |
| 5                | QPSK       | 12      | 7         | 21.69                  | 21.67                     | 21.77                   |                           |             |  |  |  |
| 5                | QPSK       | 12      | 13        | 21.64                  | 21.65                     | 21.77                   |                           |             |  |  |  |
| 5                | QPSK       | 25      | 0         | 21.56                  | 21.66                     | 21.79                   | 22.5                      | 1           |  |  |  |
| 5                | 16QAM      | 1       | 0         | 21.62                  | 21.66                     | 21.50                   |                           |             |  |  |  |
| 5                | 16QAM      | 1       | 12        | 21.42                  | 21.74                     | 21.69                   |                           |             |  |  |  |
| 5                | 16QAM      | 1       | 24        | 21.74                  | 21.60                     | 21.51                   | 21.5                      | 2           |  |  |  |
| 5                | 16QAM      | 12      | 0         | 20.57                  | 20.43                     | 20.77                   |                           |             |  |  |  |
| 5                | 16QAM      | 12      | 7         | 20.72                  | 20.71                     | 20.75                   |                           |             |  |  |  |
| 5                | 16QAM      | 12      | 13        | 20.74                  | 20.79                     | 20.68                   | 21.5                      | 2           |  |  |  |
| 5                | 16QAM      | 25      | 0         | 20.57                  | 20.58                     | 20.74                   |                           |             |  |  |  |
| 5                | 64QAM      | 1       | 0         | 20.56                  | 20.47                     | 20.74                   |                           |             |  |  |  |
| 5                | 64QAM      | 1       | 12        | 20.69                  | 20.61                     | 20.53                   | 21.5                      | 2           |  |  |  |
| 5                | 64QAM      | 1       | 24        | 20.78                  | 20.74                     | 20.61                   |                           |             |  |  |  |
| 5                | 64QAM      | 12      | 0         | 19.53                  | 19.57                     | 19.56                   |                           |             |  |  |  |
| 5                | 64QAM      | 12      | 7         | 19.56                  | 19.52                     | 19.68                   | 20.5                      | 3           |  |  |  |
| 5                | 64QAM      | 12      | 13        | 19.46                  | 19.72                     | 19.59                   |                           |             |  |  |  |
| 5                | 64QAM      | 25      | 0         | 19.49                  | 19.55                     | 19.82                   |                           |             |  |  |  |

| Band 12 Ant4 DS12 |            |         |           |                                                                                      |                                                                           |                                                             |                                                 |             |      |   |  |
|-------------------|------------|---------|-----------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------|-------------|------|---|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq.                                                             | Power<br>Middle<br>Ch. / Freq.                                            | Power High<br>Ch. / Freq.                                   | Tune-up<br>limit<br>(dBm)                       | MPR<br>(dB) |      |   |  |
| Channel           |            |         |           | 23060                                                                                | 23095                                                                     | 23150                                                       |                                                 |             |      |   |  |
| Frequency (MHz)   |            |         |           | 704                                                                                  | 707.5                                                                     | 711                                                         |                                                 |             |      |   |  |
| 10                | QPSK       | 1       | 0         | 24.58                                                                                | 24.76                                                                     | 24.57                                                       |                                                 |             | 25.5 | 0 |  |
| 10                | QPSK       | 1       | 25        | 24.54                                                                                | 24.54                                                                     | 24.37                                                       |                                                 |             |      |   |  |
| 10                | QPSK       | 1       | 49        | 24.58                                                                                | 24.60                                                                     | 24.61                                                       |                                                 |             |      |   |  |
| 10                | QPSK       | 25      | 0         | 23.57                                                                                | 23.78                                                                     | 23.63                                                       |                                                 |             | 24.5 | 1 |  |
| 10                | QPSK       | 25      | 12        | 23.76                                                                                | 23.61                                                                     | 23.47                                                       |                                                 |             |      |   |  |
| 10                | QPSK       | 25      | 25        | 23.65                                                                                | 23.61                                                                     | 23.55                                                       |                                                 |             |      |   |  |
| 10                | QPSK       | 50      | 0         | 23.70                                                                                | 23.73                                                                     | 23.68                                                       |                                                 |             | 24.5 | 1 |  |
| 10                | 16QAM      | 1       | 0         | 24.13                                                                                | 23.82                                                                     | 23.76                                                       |                                                 |             |      |   |  |
| 10                | 16QAM      | 1       | 25        | 23.76                                                                                | 24.06                                                                     | 23.74                                                       |                                                 |             |      |   |  |
| 10                | 16QAM      | 1       | 49        | 23.75                                                                                | 23.83                                                                     | 24.08                                                       |                                                 |             | 23.5 | 2 |  |
| 10                | 16QAM      | 25      | 0         | 22.66                                                                                | 22.56                                                                     | 22.56                                                       |                                                 |             |      |   |  |
| 10                | 16QAM      | 25      | 12        | 22.81                                                                                | 22.75                                                                     | 22.50                                                       |                                                 |             |      |   |  |
| 10                | 16QAM      | 25      | 25        | 22.69                                                                                | 22.58                                                                     | 22.60                                                       |                                                 |             | 23.5 | 2 |  |
| 10                | 16QAM      | 50      | 0         | 22.70                                                                                | 22.65                                                                     | 22.66                                                       |                                                 |             |      |   |  |
| 10                | 64QAM      | 1       | 0         | 22.71                                                                                | 22.72                                                                     | 22.66                                                       |                                                 |             | 23.5 | 2 |  |
| 10                | 64QAM      | 1       | 25        | 22.59                                                                                | 22.75                                                                     | 22.63                                                       |                                                 |             |      |   |  |
| 10                | 64QAM      | 1       | 49        | 22.61                                                                                | 22.88                                                                     | 22.61                                                       |                                                 |             |      |   |  |
| 10                | 64QAM      | 25      | 0         | 21.69                                                                                | 21.62                                                                     | 21.56                                                       |                                                 |             | 22.5 | 3 |  |
| 10                | 64QAM      | 25      | 12        | 21.79                                                                                | 21.62                                                                     | 21.72                                                       |                                                 |             |      |   |  |
| 10                | 64QAM      | 25      | 25        | 21.64                                                                                | 21.59                                                                     | 21.73                                                       |                                                 |             |      |   |  |
| Channel           |            |         |           | 50 <th>21.71<th>21.56<th>21.49<th></th><th></th><th colspan="2"></th></th></th></th> | 21.71 <th>21.56<th>21.49<th></th><th></th><th colspan="2"></th></th></th> | 21.56 <th>21.49<th></th><th></th><th colspan="2"></th></th> | 21.49 <th></th> <th></th> <th colspan="2"></th> |             |      |   |  |
| Frequency (MHz)   |            |         |           | 703.5 <th>707.5<th>713.5<th></th><th></th><th></th><th></th><th></th></th></th>      | 707.5 <th>713.5<th></th><th></th><th></th><th></th><th></th></th>         | 713.5 <th></th> <th></th> <th></th> <th></th> <th></th>     |                                                 |             |      |   |  |
|                   |            |         |           | 23025 <th>23095<th>23155<th></th><th></th><th></th><th></th><th></th></th></th>      | 23095 <th>23155<th></th><th></th><th></th><th></th><th></th></th>         | 23155 <th></th> <th></th> <th></th> <th></th> <th></th>     |                                                 |             |      |   |  |
| 5                 | QPSK       | 1       | 0         | 24.50                                                                                | 24.75                                                                     | 24.70                                                       |                                                 |             | 25.5 | 0 |  |
| 5                 | QPSK       | 1       | 12        | 24.71                                                                                | 24.72                                                                     | 24.61                                                       |                                                 |             |      |   |  |
| 5                 | QPSK       | 1       | 24        | 24.72                                                                                | 24.74                                                                     | 24.60                                                       |                                                 |             |      |   |  |
| 5                 | QPSK       | 12      | 0         | 23.79                                                                                | 23.81                                                                     | 23.78                                                       |                                                 |             | 24.5 | 1 |  |
| 5                 | QPSK       | 12      | 7         | 23.77                                                                                | 23.83                                                                     | 23.79                                                       |                                                 |             |      |   |  |
| 5                 | QPSK       | 12      | 13        | 23.89                                                                                | 23.80                                                                     | 23.72                                                       |                                                 |             |      |   |  |
| 5                 | QPSK       | 25      | 0         | 23.86                                                                                | 23.75                                                                     | 23.77                                                       |                                                 |             | 24.5 | 1 |  |
| 5                 | 16QAM      | 1       | 0         | 23.63                                                                                | 23.78                                                                     | 23.65                                                       |                                                 |             |      |   |  |
| 5                 | 16QAM      | 1       | 12        | 23.88                                                                                | 23.77                                                                     | 23.83                                                       |                                                 |             |      |   |  |
| 5                 | 16QAM      | 1       | 24        | 23.73                                                                                | 23.87                                                                     | 23.86                                                       |                                                 |             | 23.5 | 2 |  |
| 5                 | 16QAM      | 12      | 0         | 22.86                                                                                | 22.82                                                                     | 22.72                                                       |                                                 |             |      |   |  |
| 5                 | 16QAM      | 12      | 7         | 22.77                                                                                | 22.86                                                                     | 22.98                                                       |                                                 |             |      |   |  |
| 5                 | 16QAM      | 12      | 13        | 22.67                                                                                | 22.79                                                                     | 22.75                                                       |                                                 |             | 23.5 | 2 |  |
| 5                 | 16QAM      | 12      | 25        | 22.85                                                                                | 22.82                                                                     | 22.67                                                       |                                                 |             |      |   |  |
| 5                 | 64QAM      | 1       | 0         | 23.07                                                                                | 22.89                                                                     | 23.02                                                       |                                                 |             |      |   |  |
| 5                 | 64QAM      | 1       | 12        | 22.75                                                                                | 22.90                                                                     | 22.98                                                       |                                                 |             | 22.5 | 3 |  |
| 5                 | 64QAM      | 1       | 24        | 22.81                                                                                | 23.07                                                                     | 23.10                                                       |                                                 |             |      |   |  |
| 5                 | 64QAM      | 12      | 0         | 21.86                                                                                | 21.75                                                                     | 21.69                                                       |                                                 |             |      |   |  |
| 5                 | 64QAM      | 12      | 7         | 22.02                                                                                | 21.74                                                                     | 21.85                                                       |                                                 |             | 22.5 | 3 |  |
| 5                 | 64QAM      | 12      | 13        | 21.83                                                                                | 21.71                                                                     | 21.69                                                       |                                                 |             |      |   |  |
| 5                 | 64QAM      | 25      | 0         | 21.78                                                                                | 21.73                                                                     | 21.66                                                       |                                                 |             |      |   |  |
| Channel           |            |         |           | 23025 <th>23095<th>23165<th></th><th></th><th></th><th></th><th></th></th></th>      | 23095 <th>23165<th></th><th></th><th></th><th></th><th></th></th>         | 23165 <th></th> <th></th> <th></th> <th></th> <th></th>     |                                                 |             |      |   |  |
| Frequency (MHz)   |            |         |           | 700.5 <th>707.5<th>714.5<th></th><th></th><th></th><th></th><th></th></th></th>      | 707.5 <th>714.5<th></th><th></th><th></th><th></th><th></th></th>         | 714.5 <th></th> <th></th> <th></th> <th></th> <th></th>     |                                                 |             |      |   |  |
| 3                 | QPSK       | 1       | 0         | 24.54                                                                                | 24.72                                                                     | 24.55                                                       |                                                 |             | 25.5 | 0 |  |
| 3                 | QPSK       | 1       | 8         | 24.64                                                                                | 24.66                                                                     | 24.50                                                       |                                                 |             |      |   |  |
| 3                 | QPSK       | 1       | 14        | 24.75                                                                                | 24.45                                                                     | 24.58                                                       |                                                 |             |      |   |  |
| 3                 | QPSK       | 8       | 0         | 23.71                                                                                | 23.85                                                                     | 23.67                                                       |                                                 |             | 24.5 | 1 |  |
| 3                 | QPSK       | 8       | 4         | 23.77                                                                                | 23.70                                                                     | 23.63                                                       |                                                 |             |      |   |  |
| 3                 | QPSK       | 8       | 7         | 23.79                                                                                | 23.65                                                                     | 23.68                                                       |                                                 |             |      |   |  |
| 3                 | QPSK       | 15      | 0         | 23.74                                                                                | 23.62                                                                     | 23.55                                                       |                                                 |             | 24.5 | 1 |  |
| 3                 | 16QAM      | 1       | 0         | 23.42                                                                                | 23.79                                                                     | 23.62                                                       |                                                 |             |      |   |  |
| 3                 | 16QAM      | 1       | 8         | 23.58                                                                                | 23.61                                                                     | 23.72                                                       |                                                 |             |      |   |  |
| 3                 | 16QAM      | 1       | 14        | 23.61                                                                                | 23.49                                                                     | 23.78                                                       |                                                 |             | 23.5 | 2 |  |
| 3                 | 16QAM      | 8       | 0         | 22.72                                                                                | 22.63                                                                     | 22.46                                                       |                                                 |             |      |   |  |
| 3                 | 16QAM      | 8       | 4         | 22.85                                                                                | 22.78                                                                     | 22.79                                                       |                                                 |             |      |   |  |
| 3                 | 16QAM      | 15      | 0         | 22.81                                                                                | 22.63                                                                     | 22.64                                                       |                                                 |             | 23.5 | 2 |  |
| 3                 | 16QAM      | 15      | 0         | 22.62                                                                                | 22.81                                                                     | 22.55                                                       |                                                 |             |      |   |  |
| 3                 | 64QAM      | 1       | 0         | 22.61                                                                                | 22.75                                                                     | 22.75                                                       |                                                 |             |      |   |  |
| 3                 | 64QAM      | 1       | 14        | 22.71                                                                                | 22.82                                                                     | 22.87                                                       |                                                 |             | 22.5 | 3 |  |
| 3                 | 64QAM      | 8       | 0         | 21.76                                                                                | 21.67                                                                     | 21.70                                                       |                                                 |             |      |   |  |
| 3                 | 64QAM      | 8       | 4         | 21.84                                                                                | 21.85                                                                     | 21.83                                                       |                                                 |             |      |   |  |
| 3                 | 64QAM      | 8       | 7         | 21.74                                                                                | 21.54                                                                     | 21.72                                                       |                                                 |             | 22.5 | 3 |  |
| 3                 | 64QAM      | 15      | 0         | 21.86                                                                                | 21.62                                                                     | 21.51                                                       |                                                 |             |      |   |  |
| 3                 | 64QAM      | 15      | 0         | 21.69                                                                                | 21.62                                                                     | 21.53                                                       |                                                 |             |      |   |  |
| Channel           |            |         |           | 689.7 <th>707.5<th>715.3<th></th><th></th><th></th><th></th><th></th></th></th>      | 707.5 <th>715.3<th></th><th></th><th></th><th></th><th></th></th>         | 715.3 <th></th> <th></th> <th></th> <th></th> <th></th>     |                                                 |             |      |   |  |
| Frequency (MHz)   |            |         |           | 23025 <th>23095<th>23172<th></th><th></th><th></th><th></th><th></th></th></th>      | 23095 <th>23172<th></th><th></th><th></th><th></th><th></th></th>         | 23172 <th></th> <th></th> <th></th> <th></th> <th></th>     |                                                 |             |      |   |  |
| 1.4               | QPSK       | 1       | 0         | 24.62                                                                                | 24.70                                                                     | 24.42                                                       |                                                 |             | 25.5 | 0 |  |
| 1.4               | QPSK       | 1       | 3         | 24.56                                                                                | 24.57                                                                     | 24.60                                                       |                                                 |             |      |   |  |
| 1.4               | QPSK       | 1       | 5         | 24.48                                                                                | 24.40                                                                     | 24.53                                                       |                                                 |             |      |   |  |
| 1.4               | QPSK       | 3       | 0         | 24.65                                                                                | 24.57                                                                     | 24.42                                                       |                                                 |             | 24.5 | 1 |  |
| 1.4               | QPSK       | 3       | 1         | 24.74                                                                                | 24.60                                                                     | 24.58                                                       |                                                 |             |      |   |  |
| 1.4               | QPSK       | 3       | 24        | 24.64                                                                                | 24.44                                                                     | 24.51                                                       |                                                 |             |      |   |  |
| 1.4               | QPSK       | 6       | 0         | 23.71                                                                                | 23.50                                                                     | 23.53                                                       |                                                 |             | 24.5 | 1 |  |
| 1.4               | 16QAM      | 1       | 0         | 23.94                                                                                | 23.84                                                                     | 23.64                                                       |                                                 |             |      |   |  |
| 1.4               | 16QAM      | 1       | 3         | 23.65                                                                                | 23.86                                                                     | 23.90                                                       |                                                 |             |      |   |  |
| 1.4               | 16QAM      | 1       | 5         | 23.74                                                                                | 23.80                                                                     | 23.81                                                       |                                                 |             | 23.5 | 2 |  |
| 1.4               | 16QAM      | 3       | 0         | 23.81                                                                                | 23.71                                                                     | 23.66                                                       |                                                 |             |      |   |  |
| 1.4               | 16QAM      | 3       | 1         | 23.67                                                                                | 23.83                                                                     | 23.79                                                       |                                                 |             |      |   |  |
| 1.4               | 16QAM      | 3       | 3         | 23.77                                                                                | 23.65                                                                     | 23.62                                                       |                                                 |             | 23.5 | 2 |  |
| 1.4               | 16QAM      | 6       | 0         | 22.67                                                                                | 22.50                                                                     | 22.46                                                       |                                                 |             |      |   |  |
| 1.4               | 64QAM      | 1       | 0         | 22.84                                                                                | 22.69                                                                     | 22.98                                                       |                                                 |             |      |   |  |
| 1.4               | 64QAM      | 1       | 3         | 23.03                                                                                | 23.00                                                                     | 22.71                                                       |                                                 |             | 23.5 | 2 |  |
| 1.4               | 64QAM      | 1       | 5         | 22.76                                                                                | 22.64                                                                     | 22.82                                                       |                                                 |             |      |   |  |
| 1.4               | 64QAM      | 1       | 22        | 22.74                                                                                | 22.59                                                                     | 22.78                                                       |                                                 |             |      |   |  |
| 1.4               | 64QAM      | 3       | 1         | 22.80                                                                                | 22.68                                                                     | 22.67                                                       |                                                 |             | 22.5 | 3 |  |
| 1.4               | 64QAM      | 3       | 3         | 22.58                                                                                | 22.61                                                                     | 22.60                                                       |                                                 |             |      |   |  |
| 1.4               | 64QAM      | 3       | 20        | 21.60                                                                                | 21.59                                                                     | 21.53                                                       |                                                 |             |      |   |  |



| Band 17 Ant4 DS12 |            |         |           |                         |                            |                          |                        |             |  |
|-------------------|------------|---------|-----------|-------------------------|----------------------------|--------------------------|------------------------|-------------|--|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low<br>Ch / Freq. | Power Middle<br>Ch / Freq. | Power High<br>Ch / Freq. | Tune-up limit<br>(dbm) | MPR<br>(db) |  |
| Channel           |            |         |           | 23760                   | 23790                      | 23800                    |                        |             |  |
| Frequency (MHz)   |            |         |           | 706                     | 710                        | 711                      |                        |             |  |
| 10                | QPSK       | 1       | 0         | 24.42                   | 24.74                      | 24.45                    | 25.5                   | 0           |  |
| 10                | QPSK       | 1       | 25        | 24.50                   | 24.45                      | 24.43                    |                        |             |  |
| 10                | QPSK       | 1       | 49        | 24.44                   | 24.51                      | 24.60                    |                        |             |  |
| 10                | QPSK       | 25      | 0         | 23.51                   | 23.67                      | 23.50                    | 24.5                   | 1           |  |
| 10                | QPSK       | 25      | 12        | 23.56                   | 23.53                      | 23.56                    |                        |             |  |
| 10                | QPSK       | 25      | 25        | 23.62                   | 23.61                      | 23.50                    |                        |             |  |
| 10                | QPSK       | 50      | 0         | 23.62                   | 23.66                      | 23.43                    | 24.5                   | 1           |  |
| 10                | 16QAM      | 1       | 0         | 23.63                   | 23.51                      | 23.76                    |                        |             |  |
| 10                | 16QAM      | 1       | 25        | 23.68                   | 23.64                      | 23.51                    |                        |             |  |
| 10                | 16QAM      | 1       | 49        | 23.40                   | 23.70                      | 23.62                    | 23.5                   | 2           |  |
| 10                | 16QAM      | 25      | 0         | 22.59                   | 22.58                      | 22.53                    |                        |             |  |
| 10                | 16QAM      | 25      | 12        | 22.59                   | 22.43                      | 22.56                    |                        |             |  |
| 10                | 16QAM      | 25      | 25        | 22.64                   | 22.73                      | 22.61                    | 23.5                   | 2           |  |
| 10                | 16QAM      | 50      | 0         | 22.57                   | 22.64                      | 22.48                    |                        |             |  |
| 10                | 64QAM      | 1       | 0         | 22.45                   | 22.50                      | 22.54                    |                        |             |  |
| 10                | 64QAM      | 1       | 25        | 22.71                   | 22.57                      | 22.59                    | 23.5                   | 2           |  |
| 10                | 64QAM      | 1       | 49        | 22.52                   | 22.54                      | 22.75                    |                        |             |  |
| 10                | 64QAM      | 25      | 0         | 21.43                   | 21.70                      | 21.49                    |                        |             |  |
| 10                | 64QAM      | 25      | 12        | 21.65                   | 21.60                      | 21.54                    | 22.5                   | 3           |  |
| 10                | 64QAM      | 25      | 25        | 21.66                   | 21.55                      | 21.70                    |                        |             |  |
| 10                | 64QAM      | 50      | 0         | 21.58                   | 21.52                      | 21.53                    |                        |             |  |
| Channel           |            |         |           | 23755                   | 23790                      | 23825                    | Tune-up<br>limit (dbm) |             |  |
| Frequency (MHz)   |            |         |           | 706.5                   | 710                        | 713.5                    |                        |             |  |
| 5                 | QPSK       | 1       | 0         | 24.69                   | 24.67                      | 24.46                    | 25.5                   | 0           |  |
| 5                 | QPSK       | 1       | 12        | 24.39                   | 24.48                      | 24.37                    |                        |             |  |
| 5                 | QPSK       | 1       | 24        | 24.62                   | 24.53                      | 24.41                    |                        |             |  |
| 5                 | QPSK       | 12      | 0         | 23.56                   | 23.63                      | 23.52                    | 24.5                   | 1           |  |
| 5                 | QPSK       | 12      | 7         | 23.64                   | 23.63                      | 23.33                    |                        |             |  |
| 5                 | QPSK       | 12      | 13        | 23.56                   | 23.56                      | 23.68                    |                        |             |  |
| 5                 | QPSK       | 25      | 0         | 23.62                   | 23.53                      | 23.50                    | 24.5                   | 1           |  |
| 5                 | 16QAM      | 1       | 0         | 23.71                   | 23.73                      | 23.66                    |                        |             |  |
| 5                 | 16QAM      | 1       | 12        | 23.54                   | 23.38                      | 23.69                    |                        |             |  |
| 5                 | 16QAM      | 1       | 24        | 23.44                   | 23.51                      | 23.42                    | 23.5                   | 2           |  |
| 5                 | 16QAM      | 12      | 0         | 22.64                   | 22.73                      | 22.66                    |                        |             |  |
| 5                 | 16QAM      | 12      | 7         | 22.63                   | 22.71                      | 22.65                    |                        |             |  |
| 5                 | 16QAM      | 12      | 13        | 22.58                   | 22.69                      | 22.50                    | 23.5                   | 2           |  |
| 5                 | 16QAM      | 25      | 0         | 22.76                   | 22.68                      | 22.60                    |                        |             |  |
| 5                 | 64QAM      | 1       | 0         | 22.57                   | 22.55                      | 22.73                    |                        |             |  |
| 5                 | 64QAM      | 1       | 12        | 22.68                   | 22.61                      | 22.45                    | 23.5                   | 2           |  |
| 5                 | 64QAM      | 1       | 24        | 22.63                   | 22.74                      | 22.82                    |                        |             |  |
| 5                 | 64QAM      | 12      | 0         | 21.68                   | 21.77                      | 21.50                    |                        |             |  |
| 5                 | 64QAM      | 12      | 7         | 21.55                   | 21.81                      | 21.45                    | 22.5                   | 3           |  |
| 5                 | 64QAM      | 12      | 13        | 21.67                   | 21.63                      | 21.78                    |                        |             |  |
| 5                 | 64QAM      | 25      | 0         | 21.59                   | 21.43                      | 21.58                    |                        |             |  |

| Band 26 Ant4 DSI2 |            |         |           |                          |                             |                           |                        |          |  |  |  |
|-------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|----------|--|--|--|
| 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 (db) |  |  |  |
| Channel           |            |         |           | 26765                    | 26865                       | 26965                     |                        |          |  |  |  |
| Frequency (MHz)   |            |         |           | 821.5                    | 831.5                       | 841.5                     |                        |          |  |  |  |
| 15                | QPSK       | 1       | 0         | 24.42                    | 24.48                       | 24.38                     | 25.5                   | 0        |  |  |  |
| 15                | QPSK       | 1       | 37        | 24.36                    | 24.30                       | 24.34                     |                        |          |  |  |  |
| 15                | QPSK       | 1       | 74        | 24.38                    | 24.28                       | 24.23                     |                        |          |  |  |  |
| 15                | QPSK       | 36      | 0         | 23.52                    | 23.54                       | 23.26                     | 24.5                   | 1        |  |  |  |
| 15                | QPSK       | 36      | 20        | 23.30                    | 23.49                       | 23.28                     |                        |          |  |  |  |
| 15                | QPSK       | 36      | 39        | 23.31                    | 23.28                       | 23.36                     |                        |          |  |  |  |
| 15                | QPSK       | 75      | 0         | 23.39                    | 23.49                       | 23.43                     | 24.5                   | 1        |  |  |  |
| 15                | 16QAM      | 1       | 0         | 23.35                    | 23.48                       | 23.38                     |                        |          |  |  |  |
| 15                | 16QAM      | 1       | 37        | 23.24                    | 23.38                       | 23.34                     |                        |          |  |  |  |
| 15                | 16QAM      | 1       | 74        | 23.29                    | 23.46                       | 23.19                     | 24.5                   | 1        |  |  |  |
| 15                | 16QAM      | 36      | 0         | 22.44                    | 22.38                       | 22.28                     |                        |          |  |  |  |
| 15                | 16QAM      | 36      | 20        | 22.40                    | 22.33                       | 22.17                     |                        |          |  |  |  |
| 15                | 16QAM      | 36      | 39        | 22.35                    | 22.38                       | 22.17                     | 23.5                   | 2        |  |  |  |
| 15                | 16QAM      | 75      | 0         | 22.42                    | 22.37                       | 22.28                     |                        |          |  |  |  |
| 15                | 64QAM      | 1       | 0         | 22.32                    | 22.54                       | 22.38                     |                        |          |  |  |  |
| 15                | 64QAM      | 1       | 37        | 22.21                    | 22.35                       | 22.20                     | 23.5                   | 2        |  |  |  |
| 15                | 64QAM      | 1       | 74        | 22.33                    | 22.41                       | 22.31                     |                        |          |  |  |  |
| 15                | 64QAM      | 36      | 0         | 21.43                    | 21.55                       | 21.49                     |                        |          |  |  |  |
| 15                | 64QAM      | 36      | 20        | 21.33                    | 21.32                       | 21.35                     | 22.5                   | 3        |  |  |  |
| 15                | 64QAM      | 36      | 39        | 21.36                    | 21.29                       | 21.28                     |                        |          |  |  |  |
| 15                | 64QAM      | 75      | 0         | 21.32                    | 21.47                       | 21.47                     |                        |          |  |  |  |
| Channel           |            |         |           | 26740                    | 26865                       | 26960                     | Tune-up<br>limit (dbm) |          |  |  |  |
| Frequency (MHz)   |            |         |           | 819                      | 831.5                       | 844                       |                        |          |  |  |  |
| 10                | QPSK       | 1       | 0         | 24.37                    | 24.35                       | 24.35                     | 25.5                   | 0        |  |  |  |
| 10                | QPSK       | 1       | 25        | 24.21                    | 24.21                       | 24.25                     |                        |          |  |  |  |
| 10                | QPSK       | 1       | 49        | 24.25                    | 24.26                       | 24.07                     |                        |          |  |  |  |
| 10                | QPSK       | 25      | 0         | 23.39                    | 23.45                       | 23.11                     | 24.5                   | 1        |  |  |  |
| 10                | QPSK       | 25      | 12        | 23.23                    | 23.44                       | 23.23                     |                        |          |  |  |  |
| 10                | QPSK       | 25      | 25        | 23.12                    | 23.10                       | 23.35                     |                        |          |  |  |  |
| 10                | QPSK       | 50      | 0         | 23.36                    | 23.43                       | 23.32                     | 24.5                   | 1        |  |  |  |
| 10                | 16QAM      | 1       | 0         | 23.35                    | 23.32                       | 23.20                     |                        |          |  |  |  |
| 10                | 16QAM      | 1       | 25        | 23.16                    | 23.16                       | 23.16                     |                        |          |  |  |  |
| 10                | 16QAM      | 1       | 49        | 23.09                    | 23.42                       | 23.07                     | 23.5                   | 2        |  |  |  |
| 10                | 16QAM      | 25      | 0         | 22.40                    | 22.18                       | 22.21                     |                        |          |  |  |  |
| 10                | 16QAM      | 25      | 12        | 22.21                    | 22.28                       | 22.07                     |                        |          |  |  |  |
| 10                | 16QAM      | 25      | 25        | 22.27                    | 22.19                       | 22.09                     | 23.5                   | 2        |  |  |  |
| 10                | 16QAM      | 50      | 0         | 22.33                    | 22.36                       | 22.16                     |                        |          |  |  |  |
| 10                | 64QAM      | 1       | 0         | 22.28                    | 22.39                       | 22.26                     |                        |          |  |  |  |
| 10                | 64QAM      | 1       | 25        | 22.04                    | 22.27                       | 22.15                     | 23.5                   | 2        |  |  |  |
| 10                | 64QAM      | 1       | 49        | 22.13                    | 22.33                       | 22.14                     |                        |          |  |  |  |
| 10                | 64QAM      | 25      | 0         | 21.41                    | 21.38                       | 21.39                     |                        |          |  |  |  |
| 10                | 64QAM      | 25      | 12        | 21.29                    | 21.16                       | 21.20                     | 22.5                   | 3        |  |  |  |
| 10                | 64QAM      | 25      | 25        | 21.26                    | 21.28                       | 21.18                     |                        |          |  |  |  |
| 10                | 64QAM      | 50      | 0         | 21.15                    | 21.43                       | 21.34                     |                        |          |  |  |  |
| Channel           |            |         |           | 26715                    | 26865                       | 27015                     | Tune-up<br>limit (dbm) |          |  |  |  |
| Frequency (MHz)   |            |         |           | 816.5                    | 831.5                       | 846.5                     |                        |          |  |  |  |
| 5                 | QPSK       | 1       | 0         | 24.32                    | 24.39                       | 24.22                     | 25.5                   | 0        |  |  |  |
| 5                 | QPSK       | 1       | 12        | 24.29                    | 24.24                       | 24.41                     |                        |          |  |  |  |
| 5                 | QPSK       | 1       | 24        | 24.25                    | 24.20                       | 24.20                     |                        |          |  |  |  |
| 5                 | QPSK       | 12      | 0         | 23.35                    | 23.54                       | 23.22                     | 24.5                   | 1        |  |  |  |
| 5                 | QPSK       | 12      | 7         | 23.29                    | 23.45                       | 23.32                     |                        |          |  |  |  |
| 5                 | QPSK       | 12      | 13        | 23.16                    | 23.19                       | 23.29                     |                        |          |  |  |  |
| 5                 | QPSK       | 25      | 0         | 23.30                    | 23.37                       | 23.54                     | 24.5                   | 1        |  |  |  |
| 5                 | 16QAM      | 1       | 0         | 23.24                    | 23.32                       | 23.39                     |                        |          |  |  |  |
| 5                 | 16QAM      | 1       | 12        | 23.22                    | 23.34                       | 23.37                     |                        |          |  |  |  |
| 5                 | 16QAM      | 1       | 24        | 23.12                    | 23.33                       | 23.12                     | 23.5                   | 2        |  |  |  |
| 5                 | 16QAM      | 12      | 0         | 22.30                    | 22.41                       | 22.28                     |                        |          |  |  |  |
| 5                 | 16QAM      | 12      | 7         | 22.40                    | 22.33                       | 22.12                     |                        |          |  |  |  |
| 5                 | 16QAM      | 12      | 13        | 22.20                    | 22.25                       | 22.08                     | 23.5                   | 2        |  |  |  |
| 5                 | 16QAM      | 25      | 0         | 22.49                    | 22.30                       | 22.23                     |                        |          |  |  |  |
| 5                 | 64QAM      | 1       | 0         | 22.31                    | 22.51                       | 22.44                     |                        |          |  |  |  |
| 5                 | 64QAM      | 1       | 12        | 22.27                    | 22.31                       | 22.23                     | 23.5                   | 2        |  |  |  |
| 5                 | 64QAM      | 1       | 24        | 22.20                    | 22.36                       | 22.25                     |                        |          |  |  |  |
| 5                 | 64QAM      | 12      | 0         | 21.34                    | 21.43                       | 21.49                     |                        |          |  |  |  |
| 5                 | 64QAM      | 12      | 7         | 21.32                    | 21.32                       | 21.40                     | 22.5                   | 3        |  |  |  |
| 5                 | 64QAM      | 12      | 13        | 21.32                    | 21.33                       | 21.11                     |                        |          |  |  |  |
| 5                 | 64QAM      | 25      | 0         | 21.22                    | 21.40                       | 21.48                     |                        |          |  |  |  |
| Channel           |            |         |           | 26705                    | 26865                       | 27025                     | Tune-up<br>limit (dbm) |          |  |  |  |
| Frequency (MHz)   |            |         |           | 814.7                    | 831.5                       | 848.3                     |                        |          |  |  |  |
| 3                 | QPSK       | 1       | 0         | 24.43                    | 24.33                       | 24.42                     | 25.5                   | 0        |  |  |  |
| 3                 | QPSK       | 1       | 8         | 24.21                    | 24.14                       | 24.27                     |                        |          |  |  |  |
| 3                 | QPSK       | 1       | 14        | 24.39                    | 24.33                       | 24.10                     |                        |          |  |  |  |
| 3                 | QPSK       | 8       | 0         | 23.43                    | 23.41                       | 23.31                     | 24.5                   | 1        |  |  |  |
| 3                 | QPSK       | 8       | 4         | 23.21                    | 23.49                       | 23.12                     |                        |          |  |  |  |
| 3                 | QPSK       | 8       | 7         | 23.21                    | 23.34                       | 23.25                     |                        |          |  |  |  |
| 3                 | QPSK       | 15      | 0         | 23.30                    | 23.30                       | 23.33                     | 24                     |          |  |  |  |
| 3                 | 16QAM      | 1       | 0         | 23.23                    | 23.41                       | 23.32                     | 24.5                   | 1        |  |  |  |
| 3                 | 16QAM      | 1       | 8         | 23.15                    | 23.34                       | 23.39                     |                        |          |  |  |  |
| 3                 | 16QAM      | 1       | 14        | 23.24                    | 23.41                       | 23.22                     |                        |          |  |  |  |
| 3                 | 16QAM      | 8       | 0         | 22.38                    | 22.30                       | 22.20                     | 23.5                   | 2        |  |  |  |
| 3                 | 16QAM      | 8       | 4         | 22.28                    | 22.18                       | 22.07                     |                        |          |  |  |  |
| 3                 | 16QAM      | 8       | 7         | 22.28                    | 22.24                       | 22.17                     |                        |          |  |  |  |
| 3                 | 16QAM      | 15      | 0         | 22.46                    | 22.36                       | 22.31                     | 23.5                   | 2        |  |  |  |
| 3                 | 64QAM      | 1       | 0         | 22.22                    | 22.42                       | 22.40                     |                        |          |  |  |  |
| 3                 | 64QAM      | 1       | 8         | 22.26                    | 22.23                       | 22.15                     |                        |          |  |  |  |
| 3                 | 64QAM      | 1       | 14        | 22.34                    | 22.36                       | 22.22                     | 22.5                   | 3        |  |  |  |
| 3                 | 64QAM      | 8       | 0         | 21.40                    | 21.41                       | 21.55                     |                        |          |  |  |  |
| 3                 | 64QAM      | 8       | 4         | 21.19                    | 21.21                       | 21.22                     |                        |          |  |  |  |
| 3                 | 64QAM      | 8       | 7         | 21.43                    | 21.28                       | 21.24                     |                        |          |  |  |  |
| 3                 | 64QAM      | 15      | 0         | 21.34                    | 21.40                       | 21.45                     |                        |          |  |  |  |
| Channel           |            |         |           | 26697                    | 26865                       | 27033                     | Tune-up<br>limit (dbm) |          |  |  |  |
| Frequency (MHz)   |            |         |           | 814.7                    | 831.5                       | 848.3                     |                        |          |  |  |  |
| 1.4               | QPSK       | 1       | 0         | 24.42                    | 24.46                       | 24.31                     | 25.5                   | 0        |  |  |  |
| 1.4               | QPSK       | 1       | 3         | 24.25                    | 24.29                       | 24.28                     |                        |          |  |  |  |
| 1.4               | QPSK       | 1       | 5         | 24.23                    | 24.42                       | 24.10                     |                        |          |  |  |  |
| 1.4               | QPSK       | 3       | 0         | 24.32                    | 24.43                       | 24.28                     | 24.5                   | 1        |  |  |  |
| 1.4               | QPSK       | 3       | 1         | 24.27                    | 24.41                       | 24.26                     |                        |          |  |  |  |
| 1.4               | QPSK       | 3       | 3         | 24.40                    | 24.38                       | 24.15                     |                        |          |  |  |  |
| 1.4               | QPSK       | 6       | 0         | 23.52                    | 23.34                       | 23.28                     | 24.5                   | 1        |  |  |  |
| 1.4               | 16QAM      | 1       | 0         | 23.33                    | 23.35                       | 23.15                     |                        |          |  |  |  |
| 1.4               | 16QAM      | 1       | 3         | 23.17                    | 23.20                       | 23.16                     |                        |          |  |  |  |
| 1.4               | 16QAM      | 1       | 5         | 23.02                    | 23.21                       | 23.06                     | 24.5                   | 1        |  |  |  |
| 1.4               | 16QAM      | 3       | 0         | 23.23                    | 23.25                       | 23.21                     |                        |          |  |  |  |
| 1.4               | 16QAM      | 3       | 1         | 23.26                    | 23.28                       | 23.26                     |                        |          |  |  |  |
| 1.4               | 16QAM      | 3       | 3         | 23.31                    | 23.18                       | 23.06                     | 23.5                   | 2        |  |  |  |
| 1.4               | 16QAM      | 6       | 0         | 22.47                    | 22.23                       | 22.18                     |                        |          |  |  |  |
| 1.4               | 64QAM      | 1       | 0         | 22.33                    | 22.40                       | 22.42                     |                        |          |  |  |  |
| 1.4               | 64QAM      | 1       | 3         | 22.33                    | 22.27                       | 22.17                     | 23.5                   | 2        |  |  |  |
| 1.4               | 64QAM      | 1       | 5         | 22.26                    | 22.38                       | 22.24                     |                        |          |  |  |  |
| 1.4               | 64QAM      | 3       | 0         | 22.39                    | 22.35                       | 22.38                     |                        |          |  |  |  |
| 1.4               | 64QAM      | 3       | 1         | 22.34                    | 22.45                       | 22.06                     | 22.5                   | 3        |  |  |  |
| 1.4               | 64QAM      | 3       | 3         | 22.42                    | 22.30                       | 22.17                     |                        |          |  |  |  |
| 1.4               | 64QAM      | 6       | 0         | 21.51                    | 21.28                       | 21.18                     |                        |          |  |  |  |



| Band 38 Ant4 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                  |                     |          |  |
| Frequency (MHz)   |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |  |
| 20                | QPSK       | 1       | 0         | 22.63                 | 22.85                    | 22.64                  | 23.5                | 0        |  |
| 20                | QPSK       | 1       | 49        | 22.71                 | 22.57                    | 22.79                  |                     |          |  |
| 20                | QPSK       | 1       | 99        | 22.67                 | 22.55                    | 22.54                  |                     |          |  |
| 20                | QPSK       | 50      | 0         | 21.54                 | 21.74                    | 21.65                  | 22.5                | 1        |  |
| 20                | QPSK       | 50      | 24        | 21.66                 | 21.66                    | 21.70                  |                     |          |  |
| 20                | QPSK       | 50      | 50        | 21.57                 | 21.60                    | 21.70                  |                     |          |  |
| 20                | QPSK       | 100     | 0         | 21.63                 | 21.76                    | 21.68                  | 22.5                | 1        |  |
| 20                | 16QAM      | 1       | 0         | 21.63                 | 21.75                    | 21.69                  |                     |          |  |
| 20                | 16QAM      | 1       | 49        | 21.70                 | 21.73                    | 21.76                  |                     |          |  |
| 20                | 16QAM      | 1       | 99        | 21.67                 | 21.69                    | 21.60                  | 21.5                | 2        |  |
| 20                | 16QAM      | 50      | 0         | 20.54                 | 20.72                    | 20.62                  |                     |          |  |
| 20                | 16QAM      | 50      | 24        | 20.64                 | 20.72                    | 20.81                  |                     |          |  |
| 20                | 16QAM      | 50      | 50        | 20.59                 | 20.80                    | 20.78                  | 21.5                | 2        |  |
| 20                | 16QAM      | 100     | 0         | 20.64                 | 20.62                    | 20.74                  |                     |          |  |
| 20                | 64QAM      | 1       | 0         | 20.84                 | 20.88                    | 20.81                  |                     |          |  |
| 20                | 64QAM      | 1       | 49        | 20.96                 | 20.92                    | 20.88                  | 21.5                | 2        |  |
| 20                | 64QAM      | 1       | 99        | 20.86                 | 20.73                    | 20.71                  |                     |          |  |
| 20                | 64QAM      | 50      | 0         | 19.70                 | 19.71                    | 19.71                  |                     |          |  |
| 20                | 64QAM      | 50      | 24        | 19.83                 | 19.80                    | 19.82                  | 20.5                | 3        |  |
| 20                | 64QAM      | 50      | 50        | 19.66                 | 19.89                    | 19.87                  |                     |          |  |
| 20                | 64QAM      | 100     | 0         | 19.82                 | 19.89                    | 19.94                  |                     |          |  |
| Channel           |            |         |           | 37825                 | 38000                    | 38175                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |          |  |
| 15                | QPSK       | 1       | 0         | 22.48                 | 22.63                    | 22.49                  | 23.5                | 0        |  |
| 15                | QPSK       | 1       | 37        | 22.70                 | 22.69                    | 22.68                  |                     |          |  |
| 15                | QPSK       | 1       | 74        | 22.67                 | 22.63                    | 22.48                  |                     |          |  |
| 15                | QPSK       | 36      | 0         | 21.60                 | 21.66                    | 21.63                  | 22.5                | 1        |  |
| 15                | QPSK       | 36      | 20        | 21.68                 | 21.66                    | 21.63                  |                     |          |  |
| 15                | QPSK       | 36      | 39        | 21.62                 | 21.69                    | 21.66                  |                     |          |  |
| 15                | QPSK       | 75      | 0         | 21.61                 | 21.69                    | 21.64                  | 22.5                | 1        |  |
| 15                | 16QAM      | 1       | 0         | 21.63                 | 21.67                    | 21.63                  |                     |          |  |
| 15                | 16QAM      | 1       | 37        | 21.69                 | 21.81                    | 21.75                  |                     |          |  |
| 15                | 16QAM      | 1       | 74        | 21.64                 | 21.79                    | 21.73                  | 21.5                | 2        |  |
| 15                | 16QAM      | 36      | 0         | 20.54                 | 20.60                    | 20.66                  |                     |          |  |
| 15                | 16QAM      | 36      | 20        | 20.62                 | 20.78                    | 20.65                  |                     |          |  |
| 15                | 16QAM      | 36      | 39        | 20.65                 | 20.73                    | 20.69                  | 21.5                | 2        |  |
| 15                | 16QAM      | 75      | 0         | 20.67                 | 20.67                    | 20.63                  |                     |          |  |
| 15                | 64QAM      | 1       | 0         | 20.79                 | 20.99                    | 20.75                  |                     |          |  |
| 15                | 64QAM      | 1       | 37        | 20.82                 | 20.87                    | 20.67                  | 21.5                | 2        |  |
| 15                | 64QAM      | 1       | 74        | 20.77                 | 20.81                    | 20.64                  |                     |          |  |
| 15                | 64QAM      | 36      | 0         | 19.72                 | 19.78                    | 19.74                  |                     |          |  |
| 15                | 64QAM      | 36      | 20        | 19.90                 | 19.77                    | 19.84                  | 20.5                | 3        |  |
| 15                | 64QAM      | 36      | 39        | 19.83                 | 19.91                    | 19.78                  |                     |          |  |
| 15                | 64QAM      | 75      | 0         | 19.84                 | 19.89                    | 19.76                  |                     |          |  |
| Channel           |            |         |           | 37800                 | 38000                    | 38200                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 2575                  | 2595                     | 2615                   |                     |          |  |
| 10                | QPSK       | 1       | 0         | 22.84                 | 22.52                    | 22.75                  | 23.5                | 0        |  |
| 10                | QPSK       | 1       | 25        | 22.53                 | 22.66                    | 22.69                  |                     |          |  |
| 10                | QPSK       | 1       | 49        | 22.58                 | 22.68                    | 22.70                  |                     |          |  |
| 10                | QPSK       | 25      | 0         | 21.81                 | 21.77                    | 21.72                  | 22.5                | 1        |  |
| 10                | QPSK       | 25      | 12        | 21.81                 | 21.78                    | 21.75                  |                     |          |  |
| 10                | QPSK       | 25      | 25        | 21.81                 | 21.77                    | 21.70                  |                     |          |  |
| 10                | QPSK       | 50      | 0         | 21.79                 | 21.74                    | 21.81                  | 22.5                | 1        |  |
| 10                | 16QAM      | 1       | 0         | 21.75                 | 21.78                    | 21.73                  |                     |          |  |
| 10                | 16QAM      | 1       | 25        | 21.62                 | 21.92                    | 21.67                  |                     |          |  |
| 10                | 16QAM      | 1       | 49        | 21.73                 | 21.76                    | 21.76                  | 21.5                | 2        |  |
| 10                | 16QAM      | 25      | 0         | 20.72                 | 20.86                    | 20.80                  |                     |          |  |
| 10                | 16QAM      | 25      | 12        | 20.82                 | 20.86                    | 20.84                  |                     |          |  |
| 10                | 16QAM      | 25      | 25        | 20.81                 | 20.86                    | 20.79                  | 21.5                | 2        |  |
| 10                | 16QAM      | 50      | 0         | 20.76                 | 20.74                    | 20.69                  |                     |          |  |
| 10                | 64QAM      | 1       | 0         | 20.64                 | 20.75                    | 20.69                  |                     |          |  |
| 10                | 64QAM      | 1       | 25        | 20.69                 | 20.90                    | 20.56                  | 21.5                | 2        |  |
| 10                | 64QAM      | 1       | 49        | 20.81                 | 20.83                    | 20.53                  |                     |          |  |
| 10                | 64QAM      | 25      | 0         | 19.76                 | 19.64                    | 19.74                  |                     |          |  |
| 10                | 64QAM      | 25      | 12        | 19.68                 | 19.81                    | 19.78                  | 20.5                | 3        |  |
| 10                | 64QAM      | 25      | 25        | 19.77                 | 19.73                    | 19.74                  |                     |          |  |
| 10                | 64QAM      | 50      | 0         | 19.72                 | 19.77                    | 19.75                  |                     |          |  |
| Channel           |            |         |           | 37775                 | 38000                    | 38225                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |          |  |
| 5                 | QPSK       | 1       | 0         | 22.71                 | 22.69                    | 22.82                  | 23.5                | 0        |  |
| 5                 | QPSK       | 1       | 12        | 22.76                 | 22.54                    | 22.56                  |                     |          |  |
| 5                 | QPSK       | 1       | 24        | 22.59                 | 22.81                    | 22.53                  |                     |          |  |
| 5                 | QPSK       | 12      | 0         | 21.80                 | 21.77                    | 21.80                  | 22.5                | 1        |  |
| 5                 | QPSK       | 12      | 7         | 21.77                 | 21.73                    | 21.75                  |                     |          |  |
| 5                 | QPSK       | 25      | 0         | 21.76                 | 21.83                    | 21.75                  |                     |          |  |
| 5                 | 16QAM      | 1       | 0         | 21.67                 | 21.75                    | 21.77                  | 22.5                | 1        |  |
| 5                 | 16QAM      | 1       | 12        | 21.51                 | 21.76                    | 21.89                  |                     |          |  |
| 5                 | 16QAM      | 1       | 24        | 21.63                 | 21.79                    | 22.01                  |                     |          |  |
| 5                 | 16QAM      | 12      | 0         | 20.64                 | 20.61                    | 20.84                  | 21.5                | 2        |  |
| 5                 | 16QAM      | 12      | 7         | 20.73                 | 20.76                    | 20.79                  |                     |          |  |
| 5                 | 16QAM      | 12      | 13        | 20.72                 | 20.76                    | 20.85                  |                     |          |  |
| 5                 | 16QAM      | 25      | 0         | 20.70                 | 20.74                    | 20.84                  | 21.5                | 2        |  |
| 5                 | 64QAM      | 1       | 0         | 20.77                 | 20.54                    | 20.58                  |                     |          |  |
| 5                 | 64QAM      | 1       | 12        | 20.77                 | 20.64                    | 20.67                  |                     |          |  |
| 5                 | 64QAM      | 1       | 24        | 20.79                 | 20.85                    | 20.66                  | 20.5                | 3        |  |
| 5                 | 64QAM      | 12      | 0         | 19.75                 | 19.72                    | 19.72                  |                     |          |  |
| 5                 | 64QAM      | 12      | 7         | 19.83                 | 19.79                    | 19.79                  |                     |          |  |
| 5                 | 64QAM      | 12      | 13        | 19.71                 | 19.76                    | 19.85                  | 20.5                |          |  |
| 5                 | 64QAM      | 25      | 0         | 19.72                 | 19.61                    | 19.88                  |                     |          |  |

| Band 41 (2.6G Band) ANT4 DSI2 |                 |         |           |                       |                              |                               |                        |                     |          |
|-------------------------------|-----------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|
| BW [MHz]                      | Modulation      | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Low Ch. / Freq. | Power Middle High Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel                       |                 |         |           | 40240                 | 40500                        | 40770                         | 41090                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)               |                 |         |           | 2555                  | 2581                         | 2608                          | 2640                   |                     |          |
| 20                            | QPSK            | 1       | 0         | 22.53                 | 22.57                        | 22.89                         | 22.68                  | 23.5                | 0        |
| 20                            | QPSK            | 1       | 49        | 22.69                 | 22.76                        | 22.70                         | 22.71                  |                     |          |
| 20                            | QPSK            | 1       | 99        | 22.56                 | 22.52                        | 22.73                         | 22.64                  |                     |          |
| 20                            | QPSK            | 50      | 0         | 21.69                 | 21.72                        | 21.88                         | 21.69                  |                     |          |
| 20                            | QPSK            | 50      | 24        | 21.67                 | 21.80                        | 21.79                         | 21.69                  | 22.5                | 1        |
| 20                            | QPSK            | 50      | 50        | 21.68                 | 21.74                        | 21.80                         | 21.74                  |                     |          |
| 20                            | QPSK            | 100     | 0         | 21.71                 | 21.79                        | 21.85                         | 21.79                  |                     |          |
| 20                            | 16QAM           | 1       | 0         | 21.71                 | 21.84                        | 21.94                         | 21.86                  |                     |          |
| 20                            | 16QAM           | 1       | 49        | 21.77                 | 21.84                        | 21.88                         | 21.86                  | 22.5                | 1        |
| 20                            | 16QAM           | 1       | 99        | 21.61                 | 21.76                        | 21.82                         | 21.77                  |                     |          |
| 20                            | 16QAM           | 50      | 0         | 20.57                 | 20.68                        | 20.86                         | 20.84                  |                     |          |
| 20                            | 16QAM           | 50      | 24        | 20.72                 | 20.87                        | 20.88                         | 20.76                  |                     |          |
| 20                            | 16QAM           | 50      | 50        | 20.76                 | 20.80                        | 20.87                         | 20.84                  | 21.5                | 2        |
| 20                            | 16QAM           | 100     | 0         | 20.71                 | 20.78                        | 20.88                         | 20.81                  |                     |          |
| 20                            | 64QAM           | 1       | 0         | 20.58                 | 20.61                        | 20.79                         | 20.71                  |                     |          |
| 20                            | 64QAM           | 1       | 49        | 20.65                 | 20.70                        | 20.85                         | 20.60                  |                     |          |
| 20                            | 64QAM           | 1       | 99        | 20.59                 | 20.77                        | 20.79                         | 20.64                  | 21.5                | 2        |
| 20                            | 64QAM           | 50      | 0         | 19.61                 | 19.73                        | 19.72                         | 19.68                  |                     |          |
| 20                            | 64QAM           | 50      | 24        | 19.67                 | 19.83                        | 19.84                         | 19.79                  |                     |          |
| 20                            | 64QAM           | 50      | 50        | 19.70                 | 19.75                        | 19.83                         | 19.67                  |                     |          |
| 20                            | 64QAM           | 100     | 0         | 19.82                 | 19.82                        | 19.92                         | 19.73                  | 20.5                | 3        |
| Channel                       | Frequency (MHz) |         |           | 40215                 | 40495                        | 40765                         | 41115                  |                     |          |
|                               |                 |         |           | 2552.5                | 2580.5                       | 2607.5                        | 2642.5                 |                     |          |
|                               |                 |         |           | 2552.5                | 2580.5                       | 2607.5                        | 2642.5                 |                     |          |
| 15                            | QPSK            | 1       | 0         | 22.54                 | 22.56                        | 22.78                         | 22.77                  | 23.5                | 0        |
| 15                            | QPSK            | 1       | 37        | 22.57                 | 22.49                        | 22.75                         | 22.50                  |                     |          |
| 15                            | QPSK            | 1       | 74        | 22.54                 | 22.68                        | 22.77                         | 22.63                  |                     |          |
| 15                            | QPSK            | 38      | 0         | 21.65                 | 21.75                        | 21.81                         | 21.74                  |                     |          |
| 15                            | QPSK            | 36      | 20        | 21.73                 | 21.69                        | 21.90                         | 21.69                  | 22.5                | 1        |
| 15                            | QPSK            | 36      | 39        | 21.68                 | 21.76                        | 21.84                         | 21.75                  |                     |          |
| 15                            | QPSK            | 36      | 75        | 0                     | 21.72                        | 21.81                         | 21.69                  |                     |          |
| 15                            | 16QAM           | 1       | 0         | 21.78                 | 21.79                        | 21.83                         | 21.91                  |                     |          |
| 15                            | 16QAM           | 1       | 37        | 21.74                 | 21.73                        | 21.82                         | 21.65                  | 22.5                | 1        |
| 15                            | 16QAM           | 1       | 74        | 21.71                 | 21.74                        | 21.85                         | 21.76                  |                     |          |
| 15                            | 16QAM           | 38      | 0         | 20.80                 | 20.66                        | 20.85                         | 20.76                  |                     |          |
| 15                            | 16QAM           | 36      | 20        | 20.68                 | 20.72                        | 20.84                         | 20.80                  |                     |          |
| 15                            | 16QAM           | 36      | 39        | 20.63                 | 20.80                        | 20.90                         | 20.76                  | 21.5                | 2        |
| 15                            | 16QAM           | 75      | 0         | 20.73                 | 20.88                        | 20.92                         | 20.76                  |                     |          |
| 15                            | 64QAM           | 1       | 0         | 20.69                 | 20.69                        | 20.91                         | 20.70                  |                     |          |
| 15                            | 64QAM           | 1       | 37        | 20.53                 | 20.52                        | 20.72                         | 20.50                  |                     |          |
| 15                            | 64QAM           | 1       | 74        | 20.67                 | 20.72                        | 20.83                         | 20.72                  | 21.5                | 2        |
| 15                            | 64QAM           | 36      | 0         | 19.55                 | 19.72                        | 19.79                         | 19.79                  |                     |          |
| 15                            | 64QAM           | 36      | 20        | 19.70                 | 19.76                        | 19.89                         | 19.82                  |                     |          |
| 15                            | 64QAM           | 36      | 39        | 19.76                 | 19.74                        | 19.92                         | 19.78                  |                     |          |
| 15                            | 64QAM           | 75      | 0         | 19.72                 | 19.78                        | 19.91                         | 19.81                  | 20.5                | 3        |
| Channel                       | Frequency (MHz) |         |           | 40190                 | 40490                        | 40790                         | 41140                  |                     |          |
|                               |                 |         |           | 2550                  | 2580                         | 2610                          | 2645                   |                     |          |
|                               |                 |         |           | 2550                  | 2580                         | 2610                          | 2645                   |                     |          |
| 10                            | QPSK            | 1       | 0         | 22.85                 | 22.70                        | 22.87                         | 22.63                  | 23.5                | 0        |
| 10                            | QPSK            | 1       | 25        | 22.84                 | 22.75                        | 22.83                         | 22.74                  |                     |          |
| 10                            | QPSK            | 1       | 49        | 22.76                 | 22.87                        | 22.75                         | 22.87                  |                     |          |
| 10                            | QPSK            | 25      | 0         | 21.77                 | 21.81                        | 21.85                         | 21.76                  |                     |          |
| 10                            | QPSK            | 25      | 12        | 21.85                 | 21.96                        | 21.95                         | 21.81                  | 22.5                | 1        |
| 10                            | QPSK            | 25      | 25        | 21.71                 | 21.84                        | 22.02                         | 21.87                  |                     |          |
| 10                            | QPSK            | 50      | 0         | 21.91                 | 21.93                        | 22.00                         | 21.90                  |                     |          |
| 10                            | 16QAM           | 1       | 0         | 21.88                 | 21.89                        | 21.95                         | 22.06                  |                     |          |
| 10                            | 16QAM           | 1       | 25        | 21.94                 | 22.00                        | 21.94                         | 21.75                  | 22.5                | 1        |
| 10                            | 16QAM           | 1       | 49        | 21.77                 | 21.92                        | 21.95                         | 21.92                  |                     |          |
| 10                            | 16QAM           | 25      | 0         | 20.87                 | 20.98                        | 20.94                         | 20.83                  |                     |          |
| 10                            | 16QAM           | 25      | 12        | 20.87                 | 20.95                        | 20.95                         | 21.00                  |                     |          |
| 10                            | 16QAM           | 25      | 25        | 20.92                 | 20.93                        | 21.03                         | 20.90                  | 21.5                | 2        |
| 10                            | 16QAM           | 50      | 0         | 20.92                 | 21.01                        | 21.01                         | 20.93                  |                     |          |
| 10                            | 64QAM           | 1       | 0         | 20.85                 | 20.85                        | 21.01                         | 20.83                  |                     |          |
| 10                            | 64QAM           | 1       | 25        | 20.75                 | 20.78                        | 21.01                         | 20.73                  |                     |          |
| 10                            | 64QAM           | 1       | 49        | 20.73                 | 20.81                        | 20.94                         | 20.76                  | 21.5                | 2        |
| 10                            | 64QAM           | 25      | 0         | 19.83                 | 19.93                        | 19.91                         | 19.89                  |                     |          |
| 10                            | 64QAM           | 25      | 12        | 19.81                 | 20.00                        | 19.91                         | 19.84                  |                     |          |
| 10                            | 64QAM           | 25      | 25        | 19.76                 | 19.99                        | 20.00                         | 19.95                  |                     |          |
| 10                            | 64QAM           | 50      | 0         | 19.79                 | 19.87                        | 19.95                         | 19.77                  | 20.5                | 3        |
| Channel                       | Frequency (MHz) |         |           | 40165                 | 40485                        | 40805                         | 41165                  |                     |          |
|                               |                 |         |           | 2547.5                | 2579.5                       | 2611.5                        | 2647.5                 |                     |          |
|                               |                 |         |           | 2547.5                | 2579.5                       | 2611.5                        | 2647.5                 |                     |          |
| 5                             | QPSK            | 1       | 0         | 22.63                 | 22.60                        | 22.80                         | 22.61                  | 23.5                | 0        |
| 5                             | QPSK            | 1       | 12        | 22.61                 | 22.74                        | 22.67                         | 22.81                  |                     |          |
| 5                             | QPSK            | 1       | 24        | 22.84                 | 22.58                        | 22.58                         | 22.73                  |                     |          |
| 5                             | QPSK            | 12      | 0         | 21.83                 | 21.71                        | 22.01                         | 21.88                  |                     |          |
| 5                             | QPSK            | 12      | 7         | 21.78                 | 21.87                        | 22.06                         | 21.91                  | 22.5                | 1        |
| 5                             | QPSK            | 12      | 13        | 21.76                 | 21.84                        | 21.97                         | 21.85                  |                     |          |
| 5                             | QPSK            | 25      | 0         | 21.78                 | 21.86                        | 21.97                         | 21.90                  |                     |          |
| 5                             | 16QAM           | 1       | 0         | 21.81                 | 21.87                        | 21.81                         | 21.83                  |                     |          |
| 5                             | 16QAM           | 1       | 12        | 21.86                 | 21.95                        | 21.83                         | 21.79                  | 22.5                | 1        |
| 5                             | 16QAM           | 1       | 24        | 21.74                 | 22.14                        | 21.92                         | 21.93                  |                     |          |
| 5                             | 16QAM           | 12      | 0         | 20.80                 | 20.76                        | 20.79                         | 20.80                  |                     |          |
| 5                             | 16QAM           | 12      | 7         | 20.85                 | 20.81                        | 21.02                         | 20.94                  |                     |          |
| 5                             | 16QAM           | 12      | 13        | 20.81                 | 20.87                        | 20.91                         | 20.97                  | 21.5                | 2        |
| 5                             | 16QAM           | 25      | 0         | 20.80                 | 20.96                        | 20.99                         | 20.89                  |                     |          |
| 5                             | 64QAM           | 1       | 0         | 20.90                 | 21.07                        | 20.99                         | 20.92                  |                     |          |
| 5                             | 64QAM           | 1       | 12        | 20.79                 | 20.80                        | 20.98                         | 20.84                  |                     |          |
| 5                             | 64QAM           | 1       | 24        | 20.80                 | 20.87                        | 21.03                         | 20.96                  | 21.5                | 2        |
| 5                             | 64QAM           | 12      | 0         | 19.80                 | 19.85                        | 19.96                         | 19.79                  |                     |          |
| 5                             | 64QAM           | 12      | 7         | 19.85                 | 19.91                        | 20.03                         | 19.94                  |                     |          |
| 5                             | 64QAM           | 12      | 13        | 19.81                 | 19.97                        | 20.02                         | 19.98                  |                     |          |
| 5                             | 64QAM           | 25      | 0         | 19.76                 | 19.81                        | 19.95                         | 19.83                  | 20.5                | 3        |
| Channel                       | Frequency (MHz) |         |           | 40165                 | 40485                        | 40805                         | 41165                  |                     |          |
|                               |                 |         |           | 2547.5                | 2579.5                       | 2611.5                        | 2647.5                 |                     |          |
|                               |                 |         |           | 2547.5                | 2579.5                       | 2611.5                        | 2647.5                 |                     |          |

| Band 42 ANT5 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           |            |         |           | 42190                 | 42590                    | 42990                  |                     |          |      |
| Frequency (MHz)   |            |         |           | 3460                  | 3500                     | 3540                   |                     |          |      |
| 20                | QPSK       | 1       | 0         | 24.33                 | 24.45                    | 24.39                  | 25.5                | 0        |      |
| 20                | QPSK       | 1       | 49        | 24.38                 | 24.42                    | 24.36                  |                     |          |      |
| 20                | QPSK       | 1       | 99        | 24.32                 | 24.41                    | 24.35                  |                     |          |      |
| 20                | QPSK       | 50      | 0         | 23.47                 | 23.54                    | 23.49                  |                     |          |      |
| 20                | QPSK       | 50      | 24        | 23.46                 | 23.47                    | 23.39                  | 24.5                | 1        |      |
| 20                | QPSK       | 50      | 50        | 23.42                 | 23.49                    | 23.42                  |                     |          |      |
| 20                | QPSK       | 100     | 0         | 23.52                 | 23.58                    | 23.57                  |                     |          |      |
| 20                | 16QAM      | 1       | 0         | 23.25                 | 23.31                    | 23.28                  |                     |          |      |
| 20                | 16QAM      | 1       | 49        | 23.17                 | 23.23                    | 23.17                  | 24.5                | 1        |      |
| 20                | 16QAM      | 1       | 99        | 23.19                 | 23.27                    | 23.23                  |                     |          |      |
| 20                | 16QAM      | 50      | 0         | 22.22                 | 22.24                    | 22.19                  |                     |          |      |
| 20                | 16QAM      | 50      | 24        | 22.21                 | 22.23                    | 22.15                  |                     |          |      |
| 20                | 16QAM      | 50      | 50        | 22.21                 | 22.29                    | 22.24                  | 23.5                | 2        |      |
| 20                | 16QAM      | 100     | 0         | 22.23                 | 22.31                    | 22.20                  |                     |          |      |
| 20                | 64QAM      | 1       | 0         | 22.87                 | 22.94                    | 22.83                  |                     |          |      |
| 20                | 64QAM      | 1       | 49        | 22.82                 | 22.85                    | 22.75                  |                     |          |      |
| 20                | 64QAM      | 1       | 99        | 22.83                 | 22.91                    | 22.83                  | 23.5                | 2        |      |
| 20                | 64QAM      | 50      | 0         | 22.10                 | 22.19                    | 22.13                  |                     |          |      |
| 20                | 64QAM      | 50      | 24        | 22.07                 | 22.17                    | 22.12                  |                     |          |      |
| 20                | 64QAM      | 50      | 50        | 22.12                 | 22.21                    | 22.16                  |                     |          |      |
| 20                | 64QAM      | 100     | 0         | 22.26                 | 22.34                    | 22.31                  |                     |          |      |
| Channel           |            |         |           | 42165                 | 42590                    | 43015                  | Tune-up limit (dBm) | MPR (dB) |      |
| Frequency (MHz)   |            |         |           | 3457.5                | 3500                     | 3542.5                 |                     |          |      |
| 15                | QPSK       | 1       | 0         | 24.16                 | 24.27                    | 24.21                  | 25.5                | 0        |      |
| 15                | QPSK       | 1       | 37        | 24.27                 | 24.21                    | 24.16                  |                     |          |      |
| 15                | QPSK       | 1       | 74        | 24.16                 | 24.24                    | 24.16                  |                     |          |      |
| 15                | QPSK       | 36      | 0         | 23.31                 | 23.33                    | 23.31                  |                     |          |      |
| 15                | QPSK       | 36      | 20        | 23.33                 | 23.29                    | 23.25                  | 24.5                | 1        |      |
| 15                | QPSK       | 36      | 39        | 23.26                 | 23.36                    | 23.26                  |                     |          |      |
| 15                | QPSK       | 75      | 0         | 23.40                 | 23.47                    | 23.38                  |                     |          |      |
| 15                | 16QAM      | 1       | 0         | 23.16                 | 23.27                    | 23.24                  |                     |          |      |
| 15                | 16QAM      | 1       | 37        | 23.06                 | 23.20                    | 23.16                  | 24.5                | 1        |      |
| 15                | 16QAM      | 1       | 74        | 23.09                 | 23.21                    | 23.19                  |                     |          |      |
| 15                | 16QAM      | 36      | 0         | 22.13                 | 22.14                    | 22.13                  |                     |          |      |
| 15                | 16QAM      | 36      | 20        | 22.12                 | 22.18                    | 22.10                  |                     |          |      |
| 15                | 16QAM      | 36      | 39        | 22.16                 | 22.24                    | 22.22                  | 23.5                | 2        |      |
| 15                | 16QAM      | 75      | 0         | 22.22                 | 22.21                    | 22.16                  |                     |          |      |
| 15                | 64QAM      | 1       | 0         | 22.85                 | 22.87                    | 22.77                  |                     |          |      |
| 15                | 64QAM      | 1       | 37        | 22.81                 | 22.83                    | 22.70                  |                     |          |      |
| 15                | 64QAM      | 1       | 74        | 22.80                 | 22.87                    | 22.73                  | 23.5                | 2        |      |
| 15                | 64QAM      | 36      | 0         | 21.99                 | 22.11                    | 22.11                  |                     |          |      |
| 15                | 64QAM      | 36      | 20        | 21.96                 | 22.12                    | 22.03                  |                     |          |      |
| 15                | 64QAM      | 36      | 39        | 22.06                 | 22.11                    | 22.08                  |                     |          |      |
| 15                | 64QAM      | 75      | 0         | 22.23                 | 22.26                    | 22.23                  | 22.5                | 3        |      |
| Channel           |            |         |           | 42140                 | 42590                    | 43040                  |                     |          |      |
| Frequency (MHz)   |            |         |           | 3455                  | 3500                     | 3545                   |                     |          |      |
| 10                | QPSK       | 1       | 0         | 24.19                 | 24.28                    | 24.23                  |                     |          | 25.5 |
| 10                | QPSK       | 1       | 25        | 24.18                 | 24.29                    | 24.17                  |                     |          |      |
| 10                | QPSK       | 1       | 49        | 24.18                 | 24.21                    | 24.18                  |                     |          |      |
| 10                | QPSK       | 25      | 0         | 23.29                 | 23.39                    | 23.29                  |                     |          |      |
| 10                | QPSK       | 25      | 12        | 23.27                 | 23.31                    | 23.26                  | 24.5                | 1        |      |
| 10                | QPSK       | 25      | 25        | 23.23                 | 23.33                    | 23.23                  |                     |          |      |
| 10                | QPSK       | 50      | 0         | 23.34                 | 23.47                    | 23.41                  |                     |          |      |
| 10                | 16QAM      | 1       | 0         | 23.16                 | 23.25                    | 23.23                  |                     |          |      |
| 10                | 16QAM      | 1       | 25        | 23.13                 | 23.13                    | 23.15                  | 24.5                | 1        |      |
| 10                | 16QAM      | 1       | 49        | 23.16                 | 23.23                    | 23.14                  |                     |          |      |
| 10                | 16QAM      | 25      | 0         | 22.21                 | 22.14                    | 22.12                  |                     |          |      |
| 10                | 16QAM      | 25      | 12        | 22.14                 | 22.12                    | 22.07                  |                     |          |      |
| 10                | 16QAM      | 25      | 25        | 22.15                 | 22.22                    | 22.18                  | 23.5                | 2        |      |
| 10                | 16QAM      | 50      | 0         | 22.16                 | 22.26                    | 22.10                  |                     |          |      |
| 10                | 64QAM      | 1       | 0         | 22.77                 | 22.92                    | 22.75                  |                     |          |      |
| 10                | 64QAM      | 1       | 25        | 22.73                 | 22.83                    | 22.68                  |                     |          |      |
| 10                | 64QAM      | 1       | 49        | 22.73                 | 22.85                    | 22.78                  | 23.5                | 2        |      |
| 10                | 64QAM      | 25      | 0         | 22.06                 | 22.09                    | 22.09                  |                     |          |      |
| 10                | 64QAM      | 25      | 12        | 21.98                 | 22.12                    | 22.08                  |                     |          |      |
| 10                | 64QAM      | 25      | 25        | 22.06                 | 22.13                    | 22.14                  |                     |          |      |
| 10                | 64QAM      | 50      | 0         | 22.22                 | 22.31                    | 22.24                  | 22.5                | 3        |      |
| Channel           |            |         |           | 42115                 | 42590                    | 43065                  |                     |          |      |
| Frequency (MHz)   |            |         |           | 3452.5                | 3500                     | 3547.5                 |                     |          |      |
| 5                 | QPSK       | 1       | 0         | 24.17                 | 24.34                    | 24.19                  |                     |          | 25.5 |
| 5                 | QPSK       | 1       | 12        | 24.27                 | 24.29                    | 24.17                  |                     |          |      |
| 5                 | QPSK       | 1       | 24        | 24.16                 | 24.27                    | 24.16                  |                     |          |      |
| 5                 | QPSK       | 12      | 0         | 23.29                 | 23.43                    | 23.32                  |                     |          |      |
| 5                 | QPSK       | 12      | 7         | 23.31                 | 23.30                    | 23.27                  | 24.5                | 1        |      |
| 5                 | QPSK       | 12      | 13        | 23.28                 | 23.38                    | 23.30                  |                     |          |      |
| 5                 | QPSK       | 25      | 0         | 23.39                 | 23.38                    | 23.43                  |                     |          |      |
| 5                 | 16QAM      | 1       | 0         | 23.18                 | 23.23                    | 23.21                  |                     |          |      |
| 5                 | 16QAM      | 1       | 12        | 23.15                 | 23.13                    | 23.15                  | 24.5                | 1        |      |
| 5                 | 16QAM      | 1       | 24        | 23.12                 | 23.21                    | 23.15                  |                     |          |      |
| 5                 | 16QAM      | 12      | 0         | 22.15                 | 22.18                    | 22.14                  |                     |          |      |
| 5                 | 16QAM      | 12      | 7         | 22.17                 | 22.18                    | 22.11                  |                     |          |      |
| 5                 | 16QAM      | 12      | 13        | 22.17                 | 22.20                    | 22.23                  | 23.5                | 2        |      |
| 5                 | 16QAM      | 25      | 0         | 22.17                 | 22.27                    | 22.18                  |                     |          |      |
| 5                 | 64QAM      | 1       | 0         | 22.85                 | 22.88                    | 22.78                  |                     |          |      |
| 5                 | 64QAM      | 1       | 12        | 22.73                 | 22.75                    | 22.65                  |                     |          |      |
| 5                 | 64QAM      | 1       | 24        | 22.81                 | 22.81                    | 22.75                  | 23.5                | 2        |      |
| 5                 | 64QAM      | 12      | 0         | 22.00                 | 22.09                    | 22.02                  |                     |          |      |
| 5                 | 64QAM      | 12      | 7         | 22.05                 | 22.08                    | 22.02                  |                     |          |      |
| 5                 | 64QAM      | 12      | 13        | 22.03                 | 22.19                    | 22.14                  |                     |          |      |
| 5                 | 64QAM      | 25      | 0         | 22.18                 | 22.25                    | 22.24                  | 22.5                | 3        |      |

| GSM850 Ant0 DS14 |                           |       |       |                    |                           |       |                    |
|------------------|---------------------------|-------|-------|--------------------|---------------------------|-------|--------------------|
| GSM850           | Burst Average Power (dBm) |       |       | Tuneup Limit (dBm) | Frame-Average Power (dBm) |       | Tuneup Limit (dBm) |
|                  | 128                       | 189   | 251   |                    | 128                       | 189   |                    |
| TX Channel       | 824.2                     | 836.4 | 848.8 | 824.2              | 836.4                     | 848.8 |                    |
| Frequency (MHz)  | 824.2                     | 836.4 | 848.8 | 824.2              | 836.4                     | 848.8 |                    |
| GSM 1 Tx slot    | 32.15                     | 32.10 | 31.97 | 33.50              | 23.15                     | 23.10 | 22.97              |
| GPRS 1 Tx slot   | 32.21                     | 32.04 | 31.89 | 33.50              | 23.21                     | 23.04 | 22.89              |
| GPRS 2 Tx slots  | 29.43                     | 29.46 | 29.27 | 30.50              | 23.43                     | 23.46 | 23.27              |
| GPRS 3 Tx slots  | 27.33                     | 27.74 | 27.67 | 28.50              | 23.07                     | 23.48 | 23.41              |
| GPRS 4 Tx slots  | 26.00                     | 26.32 | 26.30 | 27.50              | 23.00                     | 23.32 | 23.30              |
| EDGE 1 Tx slot   | 25.94                     | 25.96 | 25.85 | 27.50              | 16.94                     | 16.96 | 16.85              |
| EDGE 2 Tx slots  | 23.17                     | 23.11 | 23.14 | 24.50              | 17.17                     | 17.11 | 17.14              |
| EDGE 3 Tx slots  | 21.19                     | 21.24 | 21.16 | 23.00              | 16.93                     | 16.98 | 16.90              |
| EDGE 4 Tx slots  | 19.84                     | 20.12 | 20.03 | 21.50              | 16.84                     | 17.12 | 17.03              |

|                 |  | GSM1900 Ant0 DS14         |       |        |               |                           |       |               |
|-----------------|--|---------------------------|-------|--------|---------------|---------------------------|-------|---------------|
| GSM1900         |  | Burst Average Power (dBm) |       |        | Tune-up Limit | Frame-Average Power (dBm) |       | Tune-up Limit |
| TX Channel      |  | 512                       | 661   | 810    | 1850.2        | 512                       | 661   | 810           |
| Frequency (MHz) |  | 1850.2                    | 1880  | 1909.8 | (dBm)         | 1850.2                    | 1880  | 1909.8        |
| GSM 1 Tx slot   |  | 27.66                     | 27.81 | 27.69  | 28.50         | 18.66                     | 18.81 | 18.69         |
| GPRS 1 Tx slot  |  | 27.69                     | 27.75 | 27.67  | 28.50         | 18.69                     | 18.75 | 18.67         |
| GPRS 2 Tx slots |  | 27.16                     | 27.20 | 27.12  | 27.50         | 21.16                     | 21.20 | 21.12         |
| GPRS 3 Tx slots |  | 25.15                     | 25.26 | 25.09  | 25.50         | 20.89                     | 21.00 | 20.83         |
| GPRS 4 Tx slots |  | 23.17                     | 23.52 | 23.43  | 24.50         | 20.17                     | 20.52 | 20.43         |
| EDGE 1 Tx slot  |  | 24.15                     | 24.44 | 24.38  | 25.50         | 15.15                     | 15.44 | 15.38         |
| EDGE 2 Tx slots |  | 23.04                     | 23.01 | 22.99  | 23.50         | 17.04                     | 17.01 | 16.99         |
| EDGE 3 Tx slots |  | 20.59                     | 20.36 | 20.63  | 21.50         | 16.33                     | 16.10 | 16.37         |
| EDGE 4 Tx slots |  | 20.27                     | 19.93 | 20.18  | 20.50         | 17.27                     | 16.93 | 17.18         |

| WCDMA II Ant0 DS14 |                    |        |       | WCDMA IV Ant0 DS14  |          |        |        | WCDMA V Ant0 DS14   |         |       |       |                     |       |
|--------------------|--------------------|--------|-------|---------------------|----------|--------|--------|---------------------|---------|-------|-------|---------------------|-------|
| 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       | 21.24  | 21.23 | 21.12               | 22.50    | 21.76  | 21.87  | 21.85               | 23.50   | 24.71 | 24.74 | 24.72               | 25.50 |
| 3GPP Rel 99        | RMC 12.2Kbps       | 21.30  | 21.33 | 21.14               | 22.50    | 21.78  | 21.94  | 21.92               | 23.50   | 24.75 | 24.78 | 24.69               | 25.50 |
| 3GPP Rel 6         | HSDPA Subtest-1    | 20.30  | 20.23 | 19.99               | 21.50    | 20.91  | 20.93  | 20.92               | 22.50   | 23.76 | 23.81 | 23.54               | 24.50 |
| 3GPP Rel 6         | HSDPA Subtest-2    | 20.34  | 20.24 | 20.01               | 21.50    | 20.88  | 20.95  | 20.97               | 22.50   | 23.82 | 23.69 | 23.58               | 24.50 |
| 3GPP Rel 6         | HSDPA Subtest-3    | 19.79  | 19.78 | 19.56               | 21.00    | 20.36  | 20.39  | 20.37               | 22.00   | 23.33 | 23.29 | 23.20               | 24.00 |
| 3GPP Rel 6         | HSDPA Subtest-4    | 19.80  | 19.75 | 19.52               | 21.00    | 20.41  | 20.44  | 20.40               | 22.00   | 23.32 | 23.34 | 23.22               | 24.00 |
| 3GPP Rel 8         | DC-HSDPA Subtest-1 | 20.32  | 20.20 | 19.93               | 21.50    | 20.85  | 20.81  | 20.86               | 22.50   | 23.82 | 23.87 | 23.56               | 24.50 |
| 3GPP Rel 8         | DC-HSDPA Subtest-2 | 20.31  | 20.24 | 19.99               | 21.50    | 20.70  | 20.82  | 20.78               | 22.50   | 23.87 | 23.74 | 23.56               | 24.50 |
| 3GPP Rel 8         | DC-HSDPA Subtest-3 | 19.79  | 19.70 | 19.46               | 21.00    | 20.22  | 20.32  | 20.30               | 22.00   | 23.37 | 23.30 | 23.21               | 24.00 |
| 3GPP Rel 8         | DC-HSDPA Subtest-4 | 19.76  | 19.71 | 19.44               | 21.00    | 20.29  | 20.30  | 20.28               | 22.00   | 23.38 | 23.31 | 23.18               | 24.00 |
| 3GPP Rel 6         | HSUPA Subtest-1    | 20.30  | 20.24 | 20.10               | 21.50    | 20.84  | 20.89  | 20.92               | 22.50   | 23.69 | 23.75 | 23.66               | 24.50 |
| 3GPP Rel 6         | HSUPA Subtest-2    | 18.31  | 18.25 | 18.17               | 19.50    | 18.88  | 18.94  | 18.91               | 20.50   | 21.78 | 21.79 | 21.67               | 22.50 |
| 3GPP Rel 6         | HSUPA Subtest-3    | 19.32  | 19.24 | 19.22               | 20.50    | 19.91  | 19.83  | 19.90               | 21.50   | 22.80 | 22.77 | 22.64               | 23.50 |
| 3GPP Rel 6         | HSUPA Subtest-4    | 18.34  | 18.21 | 18.13               | 19.50    | 18.85  | 18.88  | 18.81               | 20.50   | 21.73 | 21.78 | 21.70               | 22.50 |
| 3GPP Rel 6         | HSUPA Subtest-5    | 20.30  | 20.20 | 20.16               | 21.50    | 20.80  | 20.87  | 20.97               | 22.50   | 23.78 | 23.74 | 23.40               | 24.50 |



| Band 2 Ant0 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          |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 20               | QPSK       | 1       | 0         | 19.56                 | 19.66                    | 19.47                  | 20.5                | 0        |  |  |  |  |
| 20               | QPSK       | 1       | 49        | 19.61                 | 19.61                    | 19.41                  |                     |          |  |  |  |  |
| 20               | QPSK       | 1       | 99        | 19.49                 | 19.46                    | 19.31                  |                     |          |  |  |  |  |
| 20               | QPSK       | 50      | 0         | 19.39                 | 19.46                    | 19.28                  | 20.5                | 0        |  |  |  |  |
| 20               | QPSK       | 50      | 24        | 19.47                 | 19.47                    | 19.29                  |                     |          |  |  |  |  |
| 20               | QPSK       | 50      | 50        | 19.24                 | 19.31                    | 19.13                  |                     |          |  |  |  |  |
| 20               | QPSK       | 100     | 0         | 19.25                 | 19.41                    | 19.27                  | 20.5                | 0        |  |  |  |  |
| 20               | 16QAM      | 1       | 0         | 19.32                 | 19.26                    | 19.13                  |                     |          |  |  |  |  |
| 20               | 16QAM      | 1       | 49        | 19.26                 | 19.21                    | 19.10                  |                     |          |  |  |  |  |
| 20               | 16QAM      | 1       | 99        | 19.16                 | 19.08                    | 18.98                  | 20.5                | 0        |  |  |  |  |
| 20               | 16QAM      | 50      | 0         | 19.47                 | 19.41                    | 19.29                  |                     |          |  |  |  |  |
| 20               | 16QAM      | 50      | 24        | 19.47                 | 19.32                    | 19.29                  |                     |          |  |  |  |  |
| 20               | 16QAM      | 50      | 50        | 19.36                 | 19.27                    | 19.15                  | 20.5                | 0        |  |  |  |  |
| 20               | 16QAM      | 100     | 0         | 19.43                 | 19.29                    | 19.26                  |                     |          |  |  |  |  |
| 20               | 64QAM      | 1       | 0         | 19.52                 | 19.57                    | 19.43                  |                     |          |  |  |  |  |
| 20               | 64QAM      | 1       | 49        | 19.50                 | 19.49                    | 19.25                  | 20.5                | 0        |  |  |  |  |
| 20               | 64QAM      | 1       | 99        | 19.23                 | 19.43                    | 19.27                  |                     |          |  |  |  |  |
| 20               | 64QAM      | 50      | 0         | 19.48                 | 19.40                    | 19.30                  |                     |          |  |  |  |  |
| 20               | 64QAM      | 50      | 24        | 19.46                 | 19.29                    | 19.30                  | 20.5                | 0        |  |  |  |  |
| 20               | 64QAM      | 50      | 50        | 19.31                 | 19.25                    | 19.13                  |                     |          |  |  |  |  |
| 20               | 64QAM      | 100     | 0         | 19.42                 | 19.28                    | 19.26                  |                     |          |  |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 15               | QPSK       | 1       | 0         | 18.61                 | 18.50                    | 19.25                  | 20.5                | 0        |  |  |  |  |
| 15               | QPSK       | 1       | 0         | 18.61                 | 18.52                    | 19.35                  |                     |          |  |  |  |  |
| 15               | QPSK       | 1       | 37        | 18.13                 | 18.53                    | 19.34                  |                     |          |  |  |  |  |
| 15               | QPSK       | 1       | 74        | 19.36                 | 19.34                    | 19.19                  | 20.5                | 0        |  |  |  |  |
| 15               | QPSK       | 36      | 0         | 19.29                 | 19.31                    | 19.18                  |                     |          |  |  |  |  |
| 15               | QPSK       | 36      | 20        | 19.13                 | 19.32                    | 19.15                  |                     |          |  |  |  |  |
| 15               | QPSK       | 36      | 39        | 19.16                 | 19.26                    | 19.02                  | 20.5                | 0        |  |  |  |  |
| 15               | QPSK       | 75      | 0         | 19.12                 | 19.29                    | 19.15                  |                     |          |  |  |  |  |
| 15               | 16QAM      | 1       | 0         | 19.18                 | 19.20                    | 19.06                  |                     |          |  |  |  |  |
| 15               | 16QAM      | 1       | 37        | 19.10                 | 19.09                    | 19.02                  | 20.5                | 0        |  |  |  |  |
| 15               | 16QAM      | 1       | 74        | 19.09                 | 19.00                    | 18.89                  |                     |          |  |  |  |  |
| 15               | 16QAM      | 36      | 0         | 19.40                 | 19.30                    | 19.19                  |                     |          |  |  |  |  |
| 15               | 16QAM      | 36      | 20        | 19.35                 | 19.24                    | 19.21                  | 20.5                | 0        |  |  |  |  |
| 15               | 16QAM      | 36      | 39        | 19.29                 | 19.14                    | 19.09                  |                     |          |  |  |  |  |
| 15               | 16QAM      | 75      | 0         | 19.32                 | 19.24                    | 19.13                  |                     |          |  |  |  |  |
| 15               | 64QAM      | 1       | 0         | 19.47                 | 19.52                    | 19.32                  | 20.5                | 0        |  |  |  |  |
| 15               | 64QAM      | 1       | 37        | 19.35                 | 19.43                    | 19.14                  |                     |          |  |  |  |  |
| 15               | 64QAM      | 1       | 74        | 19.21                 | 19.32                    | 19.19                  |                     |          |  |  |  |  |
| 15               | 64QAM      | 36      | 0         | 19.40                 | 19.31                    | 19.22                  | 20.5                | 0        |  |  |  |  |
| 15               | 64QAM      | 36      | 20        | 19.31                 | 19.17                    | 19.25                  |                     |          |  |  |  |  |
| 15               | 64QAM      | 36      | 39        | 19.19                 | 19.18                    | 19.04                  |                     |          |  |  |  |  |
| 15               | 64QAM      | 75      | 0         | 19.30                 | 19.15                    | 19.22                  | 20.5                | 0        |  |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 10               | QPSK       | 1       | 0         | 18.65                 | 18.60                    | 19.05                  | 20.5                | 0        |  |  |  |  |
| 10               | QPSK       | 1       | 0         | 18.66                 | 19.51                    | 19.37                  |                     |          |  |  |  |  |
| 10               | QPSK       | 1       | 25        | 19.52                 | 19.51                    | 19.37                  |                     |          |  |  |  |  |
| 10               | QPSK       | 1       | 49        | 19.35                 | 19.35                    | 19.32                  | 20.5                | 0        |  |  |  |  |
| 10               | QPSK       | 25      | 0         | 19.29                 | 19.42                    | 19.23                  |                     |          |  |  |  |  |
| 10               | QPSK       | 25      | 12        | 19.23                 | 19.32                    | 19.17                  |                     |          |  |  |  |  |
| 10               | QPSK       | 25      | 25        | 19.13                 | 19.22                    | 19.06                  | 20.5                | 0        |  |  |  |  |
| 10               | QPSK       | 50      | 0         | 19.20                 | 19.31                    | 19.21                  |                     |          |  |  |  |  |
| 10               | 16QAM      | 1       | 0         | 19.23                 | 19.17                    | 19.09                  |                     |          |  |  |  |  |
| 10               | 16QAM      | 1       | 25        | 19.17                 | 19.09                    | 19.03                  | 20.5                | 0        |  |  |  |  |
| 10               | 16QAM      | 1       | 49        | 19.05                 | 19.03                    | 18.89                  |                     |          |  |  |  |  |
| 10               | 16QAM      | 25      | 0         | 19.35                 | 19.28                    | 19.25                  |                     |          |  |  |  |  |
| 10               | 16QAM      | 25      | 12        | 19.37                 | 19.17                    | 19.19                  | 20.5                | 0        |  |  |  |  |
| 10               | 16QAM      | 25      | 25        | 19.23                 | 19.22                    | 19.08                  |                     |          |  |  |  |  |
| 10               | 16QAM      | 50      | 0         | 19.33                 | 19.15                    | 19.21                  |                     |          |  |  |  |  |
| 10               | 64QAM      | 1       | 0         | 19.44                 | 19.45                    | 19.33                  | 20.5                | 0        |  |  |  |  |
| 10               | 64QAM      | 1       | 25        | 19.43                 | 19.44                    | 19.14                  |                     |          |  |  |  |  |
| 10               | 64QAM      | 1       | 49        | 19.20                 | 19.32                    | 19.23                  |                     |          |  |  |  |  |
| 10               | 64QAM      | 25      | 0         | 19.33                 | 19.30                    | 19.21                  | 20.5                | 0        |  |  |  |  |
| 10               | 64QAM      | 25      | 12        | 19.39                 | 19.14                    | 19.18                  |                     |          |  |  |  |  |
| 10               | 64QAM      | 25      | 25        | 19.17                 | 19.17                    | 19.00                  |                     |          |  |  |  |  |
| 10               | 64QAM      | 50      | 0         | 19.36                 | 19.21                    | 19.11                  | 20.5                | 0        |  |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 5                | QPSK       | 1       | 0         | 18.65                 | 18.58                    | 19.35                  | 20.5                | 0        |  |  |  |  |
| 5                | QPSK       | 1       | 12        | 19.54                 | 19.46                    | 19.34                  |                     |          |  |  |  |  |
| 5                | QPSK       | 1       | 24        | 19.41                 | 19.38                    | 19.22                  |                     |          |  |  |  |  |
| 5                | QPSK       | 12      | 0         | 19.29                 | 19.34                    | 19.34                  | 20.5                | 0        |  |  |  |  |
| 5                | QPSK       | 12      | 7         | 19.23                 | 19.30                    | 19.18                  |                     |          |  |  |  |  |
| 5                | QPSK       | 12      | 13        | 19.14                 | 19.21                    | 19.02                  |                     |          |  |  |  |  |
| 5                | QPSK       | 25      | 0         | 19.18                 | 19.27                    | 19.20                  | 20.5                | 0        |  |  |  |  |
| 5                | 16QAM      | 1       | 0         | 19.20                 | 19.16                    | 18.98                  |                     |          |  |  |  |  |
| 5                | 16QAM      | 1       | 12        | 19.17                 | 19.06                    | 18.99                  |                     |          |  |  |  |  |
| 5                | 16QAM      | 1       | 24        | 19.12                 | 19.17                    | 18.86                  | 20.5                | 0        |  |  |  |  |
| 5                | 16QAM      | 12      | 0         | 19.41                 | 19.34                    | 19.17                  |                     |          |  |  |  |  |
| 5                | 16QAM      | 12      | 7         | 19.43                 | 19.25                    | 19.14                  |                     |          |  |  |  |  |
| 5                | 16QAM      | 12      | 13        | 19.23                 | 19.22                    | 19.00                  | 20.5                | 0        |  |  |  |  |
| 5                | 16QAM      | 25      | 0         | 19.34                 | 19.24                    | 19.12                  |                     |          |  |  |  |  |
| 5                | 64QAM      | 1       | 0         | 19.44                 | 19.52                    | 19.37                  |                     |          |  |  |  |  |
| 5                | 64QAM      | 1       | 12        | 19.42                 | 19.34                    | 19.25                  | 20.5                | 0        |  |  |  |  |
| 5                | 64QAM      | 1       | 24        | 19.28                 | 19.33                    | 19.22                  |                     |          |  |  |  |  |
| 5                | 64QAM      | 12      | 0         | 19.41                 | 19.28                    | 19.15                  |                     |          |  |  |  |  |
| 5                | 64QAM      | 12      | 7         | 19.30                 | 19.21                    | 19.16                  | 20.5                | 0        |  |  |  |  |
| 5                | 64QAM      | 12      | 13        | 19.17                 | 19.20                    | 19.02                  |                     |          |  |  |  |  |
| 5                | 64QAM      | 25      | 0         | 19.28                 | 19.21                    | 19.11                  |                     |          |  |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 3                | QPSK       | 1       | 0         | 19.51                 | 19.60                    | 19.08                  | 20.5                | 0        |  |  |  |  |
| 3                | QPSK       | 1       | 8         | 19.56                 | 19.48                    | 19.34                  |                     |          |  |  |  |  |
| 3                | QPSK       | 1       | 14        | 19.41                 | 19.39                    | 19.24                  |                     |          |  |  |  |  |
| 3                | QPSK       | 8       | 0         | 19.35                 | 19.33                    | 19.20                  | 20.5                | 0        |  |  |  |  |
| 3                | QPSK       | 8       | 4         | 19.17                 | 19.34                    | 19.21                  |                     |          |  |  |  |  |
| 3                | QPSK       | 8       | 7         | 19.18                 | 19.21                    | 19.08                  |                     |          |  |  |  |  |
| 3                | QPSK       | 15      | 0         | 19.17                 | 19.30                    | 19.12                  | 20.5                | 0        |  |  |  |  |
| 3                | 16QAM      | 1       | 0         | 19.20                 | 19.16                    | 19.00                  |                     |          |  |  |  |  |
| 3                | 16QAM      | 1       | 8         | 19.14                 | 19.09                    | 19.06                  |                     |          |  |  |  |  |
| 3                | 16QAM      | 1       | 14        | 19.00                 | 19.02                    | 18.97                  | 20.5                | 0        |  |  |  |  |
| 3                | 16QAM      | 8       | 0         | 19.39                 | 19.29                    | 19.18                  |                     |          |  |  |  |  |
| 3                | 16QAM      | 8       | 4         | 19.42                 | 19.24                    | 19.23                  |                     |          |  |  |  |  |
| 3                | 16QAM      | 8       | 7         | 19.29                 | 19.17                    | 19.11                  | 20.5                | 0        |  |  |  |  |
| 3                | 16QAM      | 15      | 0         | 19.37                 | 19.23                    | 19.21                  |                     |          |  |  |  |  |
| 3                | 64QAM      | 1       | 0         | 19.43                 | 19.47                    | 19.37                  |                     |          |  |  |  |  |
| 3                | 64QAM      | 1       | 8         | 19.38                 | 19.36                    | 19.18                  | 20.5                | 0        |  |  |  |  |
| 3                | 64QAM      | 1       | 14        | 19.15                 | 19.29                    | 19.17                  |                     |          |  |  |  |  |
| 3                | 64QAM      | 8       | 0         | 19.35                 | 19.33                    | 19.19                  |                     |          |  |  |  |  |
| 3                | 64QAM      | 8       | 4         | 19.36                 | 19.24                    | 19.18                  | 20.5                | 0        |  |  |  |  |
| 3                | 64QAM      | 8       | 7         | 19.23                 | 19.11                    | 19.00                  |                     |          |  |  |  |  |
| 3                | 64QAM      | 15      | 0         | 19.34                 | 19.22                    | 19.20                  |                     |          |  |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 1.4              | QPSK       | 1       | 0         | 19.42                 | 19.56                    | 19.36                  | 20.5                | 0        |  |  |  |  |
| 1.4              | QPSK       | 1       | 3         | 19.46                 | 19.49                    | 19.30                  |                     |          |  |  |  |  |
| 1.4              | QPSK       | 1       | 5         | 19.37                 | 19.38                    | 19.23                  |                     |          |  |  |  |  |
| 1.4              | QPSK       | 3       | 0         | 19.30                 | 19.33                    | 19.18                  | 20.5                | 0        |  |  |  |  |
| 1.4              | QPSK       | 3       | 1         | 19.22                 | 19.29                    | 19.14                  |                     |          |  |  |  |  |
| 1.4              | QPSK       | 3       | 3         | 19.20                 | 19.15                    | 19.04                  |                     |          |  |  |  |  |
| 1.4              | QPSK       | 5       | 0         | 19.13                 | 19.21                    | 19.19                  | 20.5                | 0        |  |  |  |  |
| 1.4              | 16QAM      | 1       | 0         | 19.20                 | 19.20                    | 19.01                  |                     |          |  |  |  |  |
| 1.4              | 16QAM      | 1       | 3         | 19.16                 | 19.07                    | 19.01                  |                     |          |  |  |  |  |
| 1.4              | 16QAM      | 1       | 5         | 19.05                 | 19.02                    | 18.90                  | 20.5                | 0        |  |  |  |  |
| 1.4              | 16QAM      | 3       | 0         | 19.35                 | 19.27                    | 19.19                  |                     |          |  |  |  |  |
| 1.4              | 16QAM      | 3       | 1         | 19.38                 | 19.26                    | 19.18                  |                     |          |  |  |  |  |
| 1.4              | 16QAM      | 3       | 3         | 19.24                 | 19.16                    | 19.09                  | 20.5                | 0        |  |  |  |  |
| 1.4              | 16QAM      | 6       | 0         | 19.35                 | 19.14                    | 19.16                  |                     |          |  |  |  |  |
| 1.4              | 64QAM      | 1       | 0         | 19.41                 | 19.43                    | 19.33                  |                     |          |  |  |  |  |
| 1.4              | 64QAM      | 1       | 3         | 19.43                 | 19.37                    | 19.13                  | 20.5                | 0        |  |  |  |  |
| 1.4              | 64QAM      | 1       | 5         | 19.23                 | 19.32                    | 19.17                  |                     |          |  |  |  |  |
| 1.4              | 64QAM      | 3       | 0         | 19.42                 | 19.26                    | 19.19                  |                     |          |  |  |  |  |
| 1.4              | 64QAM      | 3       | 1         | 19.32                 | 19.16                    | 19.26                  | 20.5                | 0        |  |  |  |  |
| 1.4              | 64QAM      | 3       | 3         | 19.19                 | 19.17                    | 19.18                  |                     |          |  |  |  |  |
| 1.4              | 64QAM      | 6       | 0         | 19.35                 | 19.16                    | 19.17                  |                     |          |  |  |  |  |



| Band 7 Ant0 DS14 |            |         |           |                          |                                |                           |                        |             |  |  |  |
|------------------|------------|---------|-----------|--------------------------|--------------------------------|---------------------------|------------------------|-------------|--|--|--|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit (dBm) | MPR<br>(dB) |  |  |  |
| Channel          |            |         |           | 20650                    | 21100                          | 21350                     |                        |             |  |  |  |
| Frequency (MHz)  |            |         |           | 2507.5                   | 2535                           | 2560                      |                        |             |  |  |  |
| 20               | QPSK       | 1       | 0         | 19.98                    | 20.19                          | 20.14                     | 21                     | 0           |  |  |  |
| 20               | QPSK       | 1       | 49        | 19.96                    | 19.93                          | 19.93                     |                        |             |  |  |  |
| 20               | QPSK       | 1       | 99        | 20.16                    | 20.03                          | 19.90                     |                        |             |  |  |  |
| 20               | QPSK       | 50      | 0         | 19.97                    | 20.17                          | 19.85                     | 21                     | 0           |  |  |  |
| 20               | QPSK       | 50      | 24        | 19.92                    | 19.84                          | 19.86                     |                        |             |  |  |  |
| 20               | QPSK       | 50      | 50        | 19.91                    | 19.91                          | 19.93                     |                        |             |  |  |  |
| 20               | QPSK       | 100     | 0         | 19.90                    | 20.12                          | 19.87                     | 21                     | 0           |  |  |  |
| 20               | 16QAM      | 1       | 0         | 19.95                    | 19.99                          | 20.00                     |                        |             |  |  |  |
| 20               | 16QAM      | 1       | 49        | 20.03                    | 20.08                          | 19.96                     |                        |             |  |  |  |
| 20               | 16QAM      | 1       | 99        | 19.98                    | 20.11                          | 19.92                     | 21                     | 0           |  |  |  |
| 20               | 16QAM      | 50      | 0         | 19.92                    | 19.84                          | 19.82                     |                        |             |  |  |  |
| 20               | 16QAM      | 50      | 24        | 19.94                    | 19.84                          | 19.87                     |                        |             |  |  |  |
| 20               | 16QAM      | 50      | 50        | 19.93                    | 19.96                          | 19.95                     | 21                     | 0           |  |  |  |
| 20               | 16QAM      | 100     | 0         | 19.92                    | 19.85                          | 19.87                     |                        |             |  |  |  |
| 20               | 64QAM      | 1       | 0         | 19.60                    | 19.63                          | 19.61                     |                        |             |  |  |  |
| 20               | 64QAM      | 1       | 49        | 19.71                    | 19.74                          | 19.75                     | 21                     | 0           |  |  |  |
| 20               | 64QAM      | 1       | 99        | 19.79                    | 19.80                          | 19.74                     |                        |             |  |  |  |
| 20               | 64QAM      | 50      | 0         | 19.79                    | 19.81                          | 19.83                     |                        |             |  |  |  |
| 20               | 64QAM      | 50      | 24        | 19.93                    | 19.85                          | 19.88                     | 21                     | 0           |  |  |  |
| 20               | 64QAM      | 50      | 50        | 19.91                    | 19.94                          | 19.96                     |                        |             |  |  |  |
| 20               | 64QAM      | 100     | 0         | 19.93                    | 19.85                          | 19.87                     |                        |             |  |  |  |
| Channel          |            |         |           | 20625                    | 21100                          | 21375                     | Tune-up<br>limit (dBm) | MPR<br>(dB) |  |  |  |
| Frequency (MHz)  |            |         |           | 2507.5                   | 2535                           | 2562.5                    |                        |             |  |  |  |
| 15               | QPSK       | 1       | 0         | 19.89                    | 20.08                          | 20.01                     | 21                     | 0           |  |  |  |
| 15               | QPSK       | 1       | 37        | 19.90                    | 19.80                          | 19.86                     |                        |             |  |  |  |
| 15               | QPSK       | 1       | 74        | 20.09                    | 19.94                          | 19.74                     |                        |             |  |  |  |
| 15               | QPSK       | 36      | 0         | 19.89                    | 20.12                          | 19.78                     | 21                     | 0           |  |  |  |
| 15               | QPSK       | 36      | 20        | 19.84                    | 19.74                          | 19.77                     |                        |             |  |  |  |
| 15               | QPSK       | 36      | 39        | 19.80                    | 19.82                          | 19.82                     |                        |             |  |  |  |
| 15               | QPSK       | 75      | 0         | 19.78                    | 20.08                          | 19.83                     | 21                     | 0           |  |  |  |
| 15               | 16QAM      | 1       | 0         | 19.84                    | 19.84                          | 19.91                     |                        |             |  |  |  |
| 15               | 16QAM      | 1       | 37        | 19.88                    | 19.92                          | 19.90                     |                        |             |  |  |  |
| 15               | 16QAM      | 1       | 74        | 19.83                    | 20.05                          | 19.79                     | 21                     | 0           |  |  |  |
| 15               | 16QAM      | 36      | 0         | 19.68                    | 19.75                          | 19.67                     |                        |             |  |  |  |
| 15               | 16QAM      | 36      | 20        | 19.86                    | 19.74                          | 19.73                     |                        |             |  |  |  |
| 15               | 16QAM      | 36      | 39        | 19.89                    | 19.82                          | 19.83                     | 21                     | 0           |  |  |  |
| 15               | 16QAM      | 75      | 0         | 19.86                    | 19.80                          | 19.75                     |                        |             |  |  |  |
| 15               | 64QAM      | 1       | 0         | 19.51                    | 19.54                          | 19.46                     |                        |             |  |  |  |
| 15               | 64QAM      | 1       | 37        | 19.63                    | 19.69                          | 19.67                     | 21                     | 0           |  |  |  |
| 15               | 64QAM      | 1       | 74        | 19.66                    | 19.71                          | 19.64                     |                        |             |  |  |  |
| 15               | 64QAM      | 36      | 0         | 19.69                    | 19.71                          | 19.68                     |                        |             |  |  |  |
| 15               | 64QAM      | 36      | 20        | 19.81                    | 19.76                          | 19.84                     | 21                     | 0           |  |  |  |
| 15               | 64QAM      | 36      | 39        | 19.81                    | 19.76                          | 19.84                     |                        |             |  |  |  |
| 15               | 64QAM      | 75      | 0         | 19.83                    | 19.73                          | 19.79                     |                        |             |  |  |  |
| Channel          |            |         |           | 20630                    | 21100                          | 21400                     | Tune-up<br>limit (dBm) | MPR<br>(dB) |  |  |  |
| Frequency (MHz)  |            |         |           | 2505                     | 2535                           | 2565                      |                        |             |  |  |  |
| 10               | QPSK       | 1       | 0         | 19.90                    | 20.04                          | 19.99                     | 21                     | 0           |  |  |  |
| 10               | QPSK       | 1       | 25        | 19.90                    | 19.79                          | 19.84                     |                        |             |  |  |  |
| 10               | QPSK       | 1       | 49        | 20.01                    | 19.93                          | 19.79                     |                        |             |  |  |  |
| 10               | QPSK       | 25      | 0         | 19.85                    | 20.06                          | 19.78                     | 21                     | 0           |  |  |  |
| 10               | QPSK       | 25      | 12        | 19.78                    | 19.75                          | 19.73                     |                        |             |  |  |  |
| 10               | QPSK       | 25      | 25        | 19.79                    | 19.84                          | 19.81                     |                        |             |  |  |  |
| 10               | QPSK       | 50      | 0         | 19.78                    | 19.97                          | 19.75                     | 21                     | 0           |  |  |  |
| 10               | 16QAM      | 1       | 0         | 19.84                    | 19.84                          | 19.93                     |                        |             |  |  |  |
| 10               | 16QAM      | 1       | 25        | 19.94                    | 20.02                          | 19.84                     |                        |             |  |  |  |
| 10               | 16QAM      | 1       | 49        | 19.93                    | 20.00                          | 19.81                     | 21                     | 0           |  |  |  |
| 10               | 16QAM      | 25      | 0         | 19.66                    | 19.70                          | 19.66                     |                        |             |  |  |  |
| 10               | 16QAM      | 25      | 12        | 19.88                    | 19.73                          | 19.78                     |                        |             |  |  |  |
| 10               | 16QAM      | 25      | 25        | 19.86                    | 19.90                          | 19.85                     | 21                     | 0           |  |  |  |
| 10               | 16QAM      | 50      | 0         | 19.81                    | 19.71                          | 19.74                     |                        |             |  |  |  |
| 10               | 64QAM      | 1       | 0         | 19.44                    | 19.52                          | 19.48                     |                        |             |  |  |  |
| 10               | 64QAM      | 1       | 25        | 19.62                    | 19.61                          | 19.70                     | 21                     | 0           |  |  |  |
| 10               | 64QAM      | 1       | 49        | 19.74                    | 19.66                          | 19.66                     |                        |             |  |  |  |
| 10               | 64QAM      | 25      | 0         | 19.67                    | 19.69                          | 19.75                     |                        |             |  |  |  |
| 10               | 64QAM      | 25      | 12        | 19.78                    | 19.79                          | 19.78                     | 21                     | 0           |  |  |  |
| 10               | 64QAM      | 25      | 25        | 19.81                    | 19.79                          | 19.90                     |                        |             |  |  |  |
| 10               | 64QAM      | 50      | 0         | 19.77                    | 19.80                          | 19.81                     |                        |             |  |  |  |
| Channel          |            |         |           | 3                        | 21100                          | 21425                     | Tune-up<br>limit (dBm) | MPR<br>(dB) |  |  |  |
| Frequency (MHz)  |            |         |           | 2502.5                   | 2535                           | 2567.5                    |                        |             |  |  |  |
| 5                | QPSK       | 1       | 0         | 19.83                    | 20.03                          | 20.00                     | 21                     | 0           |  |  |  |
| 5                | QPSK       | 1       | 12        | 19.85                    | 19.75                          | 19.83                     |                        |             |  |  |  |
| 5                | QPSK       | 1       | 24        | 20.11                    | 19.88                          | 19.85                     |                        |             |  |  |  |
| 5                | QPSK       | 12      | 0         | 19.88                    | 20.12                          | 19.77                     | 21                     | 0           |  |  |  |
| 5                | QPSK       | 12      | 7         | 19.79                    | 19.76                          | 19.73                     |                        |             |  |  |  |
| 5                | QPSK       | 12      | 13        | 19.79                    | 19.78                          | 19.78                     |                        |             |  |  |  |
| 5                | QPSK       | 25      | 0         | 19.81                    | 20.04                          | 19.75                     | 21                     | 0           |  |  |  |
| 5                | 16QAM      | 1       | 0         | 19.88                    | 19.86                          | 19.89                     |                        |             |  |  |  |
| 5                | 16QAM      | 1       | 12        | 19.90                    | 19.97                          | 19.85                     |                        |             |  |  |  |
| 5                | 16QAM      | 1       | 24        | 19.92                    | 20.00                          | 19.78                     | 21                     | 0           |  |  |  |
| 5                | 16QAM      | 12      | 0         | 19.74                    | 19.76                          | 19.69                     |                        |             |  |  |  |
| 5                | 16QAM      | 12      | 7         | 19.81                    | 19.75                          | 19.82                     |                        |             |  |  |  |
| 5                | 16QAM      | 12      | 13        | 19.82                    | 19.88                          | 19.87                     | 21                     | 0           |  |  |  |
| 5                | 16QAM      | 25      | 0         | 19.83                    | 19.81                          | 19.75                     |                        |             |  |  |  |
| 5                | 64QAM      | 1       | 0         | 19.54                    | 19.55                          | 19.49                     |                        |             |  |  |  |
| 5                | 64QAM      | 1       | 12        | 19.58                    | 19.61                          | 19.66                     | 21                     | 0           |  |  |  |
| 5                | 64QAM      | 1       | 24        | 19.68                    | 19.75                          | 19.60                     |                        |             |  |  |  |
| 5                | 64QAM      | 12      | 0         | 19.65                    | 19.69                          | 19.78                     |                        |             |  |  |  |
| 5                | 64QAM      | 12      | 7         | 19.77                    | 19.76                          | 19.76                     | 21                     | 0           |  |  |  |
| 5                | 64QAM      | 12      | 13        | 19.76                    | 19.84                          | 19.91                     |                        |             |  |  |  |
| 5                | 64QAM      | 25      | 0         | 19.84                    | 19.71                          | 19.76                     |                        |             |  |  |  |

| Band 12 Ant0 DS14 |            |         |           |                          |                                |                           |                           |             |  |  |  |
|-------------------|------------|---------|-----------|--------------------------|--------------------------------|---------------------------|---------------------------|-------------|--|--|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |  |
| Channel           |            |         |           | 23060                    | 23065                          | 23130                     |                           |             |  |  |  |
| Frequency (MHz)   |            |         |           | 704                      | 707.5                          | 711                       |                           |             |  |  |  |
| 10                | QPSK       | 1       | 0         | 24.57                    | 24.69                          | 24.64                     | 25.5                      | 0           |  |  |  |
| 10                | QPSK       | 1       | 25        | 24.61                    | 24.64                          | 24.51                     |                           |             |  |  |  |
| 10                | QPSK       | 1       | 49        | 24.67                    | 24.65                          | 24.61                     |                           |             |  |  |  |
| 10                | QPSK       | 25      | 0         | 23.69                    | 23.89                          | 23.68                     | 24.5                      | 1           |  |  |  |
| 10                | QPSK       | 25      | 12        | 23.74                    | 23.71                          | 23.80                     |                           |             |  |  |  |
| 10                | QPSK       | 25      | 25        | 23.53                    | 23.86                          | 23.81                     |                           |             |  |  |  |
| 10                | QPSK       | 50      | 0         | 23.83                    | 23.86                          | 23.80                     | 24.5                      | 1           |  |  |  |
| 10                | 16QAM      | 1       | 0         | 23.75                    | 23.73                          | 23.73                     |                           |             |  |  |  |
| 10                | 16QAM      | 1       | 25        | 23.85                    | 23.79                          | 23.61                     |                           |             |  |  |  |
| 10                | 16QAM      | 1       | 49        | 23.77                    | 23.73                          | 23.72                     | 23.5                      | 2           |  |  |  |
| 10                | 16QAM      | 25      | 0         | 22.92                    | 22.72                          | 22.69                     |                           |             |  |  |  |
| 10                | 16QAM      | 25      | 12        | 22.89                    | 22.69                          | 22.71                     |                           |             |  |  |  |
| 10                | 16QAM      | 25      | 25        | 22.90                    | 22.85                          | 22.92                     | 23.5                      | 2           |  |  |  |
| 10                | 16QAM      | 50      | 0         | 22.92                    | 22.86                          | 22.74                     |                           |             |  |  |  |
| 10                | 64QAM      | 1       | 0         | 22.87                    | 22.60                          | 22.66                     |                           |             |  |  |  |
| 10                | 64QAM      | 1       | 25        | 22.61                    | 22.57                          | 22.77                     | 23.5                      | 2           |  |  |  |
| 10                | 64QAM      | 1       | 49        | 22.64                    | 22.70                          | 22.92                     |                           |             |  |  |  |
| 10                | 64QAM      | 25      | 0         | 21.85                    | 21.68                          | 21.75                     |                           |             |  |  |  |
| 10                | 64QAM      | 25      | 12        | 21.87                    | 21.75                          | 21.68                     | 22.5                      | 3           |  |  |  |
| 10                | 64QAM      | 25      | 25        | 21.88                    | 21.62                          | 21.77                     |                           |             |  |  |  |
| 10                | 64QAM      | 50      | 0         | 21.90                    | 21.80                          | 21.63                     |                           |             |  |  |  |
| Channel           |            |         |           | 23035                    | 23095                          | 23165                     | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |  |
| Frequency (MHz)   |            |         |           | 700.5                    | 707.5                          | 713.5                     |                           |             |  |  |  |
| 5                 | QPSK       | 1       | 0         | 24.67                    | 24.62                          | 24.64                     | 25.5                      | 0           |  |  |  |
| 5                 | QPSK       | 1       | 24        | 24.68                    | 24.58                          | 24.54                     |                           |             |  |  |  |
| 5                 | QPSK       | 1       | 24        | 24.61                    | 24.52                          | 24.60                     |                           |             |  |  |  |
| 5                 | QPSK       | 12      | 0         | 23.60                    | 23.61                          | 23.64                     | 24.5                      | 1           |  |  |  |
| 5                 | QPSK       | 12      | 7         | 23.71                    | 23.71                          | 23.71                     |                           |             |  |  |  |
| 5                 | QPSK       | 12      | 13        | 23.64                    | 23.60                          | 23.66                     |                           |             |  |  |  |
| 5                 | QPSK       | 25      | 0         | 23.77                    | 23.63                          | 23.69                     | 24.5                      | 1           |  |  |  |
| 5                 | 16QAM      | 1       | 0         | 23.62                    | 23.70                          | 23.62                     |                           |             |  |  |  |
| 5                 | 16QAM      | 1       | 12        | 23.48                    | 23.75                          | 23.71                     |                           |             |  |  |  |
| 5                 | 16QAM      | 1       | 24        | 23.61                    | 23.68                          | 23.54                     | 23.5                      | 2           |  |  |  |
| 5                 | 16QAM      | 12      | 0         | 22.84                    | 22.64                          | 22.62                     |                           |             |  |  |  |
| 5                 | 16QAM      | 12      | 7         | 22.89                    | 22.69                          | 22.80                     |                           |             |  |  |  |
| 5                 | 16QAM      | 12      | 13        | 22.61                    | 22.64                          | 22.65                     | 23.5                      | 2           |  |  |  |
| 5                 | 16QAM      | 25      | 0         | 22.73                    | 22.62                          | 22.68                     |                           |             |  |  |  |
| 5                 | 16QAM      | 1       | 0         | 22.73                    | 22.64                          | 22.65                     |                           |             |  |  |  |
| 5                 | 64QAM      | 1       | 12        | 22.76                    | 22.94                          | 22.88                     | 22.5                      | 3           |  |  |  |
| 5                 | 64QAM      | 1       | 24        | 22.70                    | 22.76                          | 22.75                     |                           |             |  |  |  |
| 5                 | 64QAM      | 12      | 0         | 21.79                    | 21.71                          | 21.64                     |                           |             |  |  |  |
| 5                 | 64QAM      | 12      | 7         | 21.81                    | 21.67                          | 21.74                     | 22.5                      | 3           |  |  |  |
| 5                 | 64QAM      | 12      | 13        | 21.56                    | 21.67                          | 21.62                     |                           |             |  |  |  |
| 5                 | 64QAM      | 25      | 0         | 21.60                    | 21.64                          | 21.73                     |                           |             |  |  |  |
| Channel           |            |         |           | 23025                    | 23095                          | 23165                     | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |  |
| Frequency (MHz)   |            |         |           | 700.5                    | 707.5                          | 714.5                     |                           |             |  |  |  |
| 3                 | QPSK       | 1       | 0         | 24.57                    | 24.66                          | 24.46                     | 25.5                      | 0           |  |  |  |
| 3                 | QPSK       | 1       | 8         | 24.44                    | 24.65                          | 24.63                     |                           |             |  |  |  |
| 3                 | QPSK       | 1       | 14        | 24.56                    | 24.63                          | 24.61                     |                           |             |  |  |  |
| 3                 | QPSK       | 8       | 0         | 23.80                    | 23.98                          | 23.76                     | 24.5                      | 1           |  |  |  |
| 3                 | QPSK       | 8       | 4         | 23.76                    | 23.81                          | 23.75                     |                           |             |  |  |  |
| 3                 | QPSK       | 8       | 7         | 23.66                    | 23.83                          | 23.71                     |                           |             |  |  |  |
| 3                 | QPSK       | 15      | 0         | 23.74                    | 23.77                          | 23.71                     | 24.5                      | 1           |  |  |  |
| 3                 | 16QAM      | 1       | 0         | 23.53                    | 23.67                          | 23.54                     |                           |             |  |  |  |
| 3                 | 16QAM      | 1       | 8         | 23.79                    | 23.83                          | 23.66                     |                           |             |  |  |  |
| 3                 | 16QAM      | 1       | 14        | 23.76                    | 23.64                          | 23.68                     | 23.5                      | 2           |  |  |  |
| 3                 | 16QAM      | 8       | 0         | 22.93                    | 22.96                          | 22.76                     |                           |             |  |  |  |
| 3                 | 16QAM      | 8       | 4         | 22.88                    | 22.85                          | 22.96                     |                           |             |  |  |  |
| 3                 | 16QAM      | 8       | 7         | 22.79                    | 22.72                          | 22.71                     | 23.5                      | 2           |  |  |  |
| 3                 | 16QAM      | 15      | 0         | 22.79                    | 22.98                          | 22.73                     |                           |             |  |  |  |
| 3                 | 64QAM      | 1       | 0         | 22.85                    | 22.79                          | 22.92                     |                           |             |  |  |  |
| 3                 | 64QAM      | 1       | 23        | 22.81                    | 22.82                          | 22.82                     | 22.5                      | 2           |  |  |  |
| 3                 | 64QAM      | 1       | 14        | 23.00                    | 23.12                          | 22.90                     |                           |             |  |  |  |
| 3                 | 64QAM      | 8       | 0         | 21.92                    | 21.68                          | 21.77                     |                           |             |  |  |  |
| 3                 | 64QAM      | 8       | 4         | 21.83                    | 21.68                          | 21.76                     | 22.5                      | 3           |  |  |  |
| 3                 | 64QAM      | 8       | 7         | 22.01                    | 21.73                          | 21.87                     |                           |             |  |  |  |
| 3                 | 64QAM      | 15      | 0         | 21.75                    | 21.80                          | 21.71                     |                           |             |  |  |  |
| Channel           |            |         |           | 23070                    | 23095                          | 23170                     | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |  |
| Frequency (MHz)   |            |         |           | 697.5                    | 707.5                          | 715.5                     |                           |             |  |  |  |
| 1.4               | QPSK       | 1       | 0         | 24.51                    | 24.61                          | 24.39                     | 25.5                      | 0           |  |  |  |
| 1.4               | QPSK       | 1       | 3         | 24.47                    | 24.65                          | 24.51                     |                           |             |  |  |  |
| 1.4               | QPSK       | 1       | 5         | 24.33                    | 24.40                          | 24.33                     |                           |             |  |  |  |
| 1.4               | QPSK       | 3       | 1         | 24.42                    | 24.58                          | 24.52                     | 24.5                      | 1           |  |  |  |
| 1.4               | QPSK       | 3       | 1         | 24.52                    | 24.51                          | 24.42                     |                           |             |  |  |  |
| 1.4               | QPSK       | 3       | 1         | 24.46                    | 24.36                          | 24.41                     |                           |             |  |  |  |
| 1.4               | QPSK       | 6       | 0         | 23.49                    | 23.72                          | 23.54                     | 24.5                      | 1           |  |  |  |
| 1.4               | 16QAM      | 1       | 0         | 23.65                    | 23.62                          | 23.61                     |                           |             |  |  |  |
| 1.4               | 16QAM      | 1       | 3         | 23.54                    | 23.71                          | 23.62                     |                           |             |  |  |  |
| 1.4               | 16QAM      | 1       | 5         | 23.56                    | 23.84                          | 23.68                     | 24.5                      | 1           |  |  |  |
| 1.4               | 16QAM      | 3       | 0         | 23.52                    | 23.84                          | 23.50                     |                           |             |  |  |  |
| 1.4               | 16QAM      | 3       | 1         | 23.45                    | 23.71                          | 23.56                     |                           |             |  |  |  |
| 1.4               | 16QAM      | 3       | 3         | 23.50                    | 23.73                          | 23.40                     | 23.5                      | 2           |  |  |  |
| 1.4               | 16QAM      | 6       | 0         | 22.48                    | 22.51                          | 22.42                     |                           |             |  |  |  |
| 1.4               | 64QAM      | 1       | 0         | 22.92                    | 22.75                          | 22.86                     |                           |             |  |  |  |
| 1.4               | 64QAM      | 1       | 3         | 22.93                    | 22.67                          | 22.95                     | 23.5                      | 2           |  |  |  |
| 1.4               | 64QAM      | 1       | 5         | 22.83                    | 22.73                          | 22.84                     |                           |             |  |  |  |
| 1.4               | 64QAM      | 3       | 0         | 22.68                    | 22.75                          | 22.53                     |                           |             |  |  |  |
| 1.4               | 64QAM      | 3       | 1         | 22.86                    | 22.72                          | 22.71                     | 22.5                      | 3           |  |  |  |
| 1.4               | 64QAM      | 3       | 3         | 22.52                    | 22.70                          | 22.54                     |                           |             |  |  |  |
| 1.4               | 64QAM      | 6       | 0         | 21.48                    | 21.58                          | 21.51                     |                           |             |  |  |  |



| Band 17 Ant0 DS14 |            |         |           |                        |                              |                         |                           |             |  |
|-------------------|------------|---------|-----------|------------------------|------------------------------|-------------------------|---------------------------|-------------|--|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low<br>Ch / Freq | Power<br>Middle<br>Ch / Freq | Power High<br>Ch / Freq | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Channel           |            |         |           | 23760                  | 23790                        | 23800                   |                           |             |  |
| Frequency (MHz)   |            |         |           | 706                    | 710                          | 710                     |                           |             |  |
| 10                | QPSK       | 1       | 0         | 24.50                  | 24.68                        | 24.42                   | 25.5                      | 0           |  |
| 10                | QPSK       | 1       | 25        | 24.45                  | 24.57                        | 24.65                   |                           |             |  |
| 10                | QPSK       | 1       | 49        | 24.33                  | 24.40                        | 24.62                   |                           |             |  |
| 10                | QPSK       | 25      | 0         | 23.59                  | 23.92                        | 23.68                   |                           |             |  |
| 10                | QPSK       | 25      | 12        | 23.77                  | 23.69                        | 23.70                   | 24.5                      | 1           |  |
| 10                | QPSK       | 25      | 25        | 23.67                  | 23.63                        | 23.70                   |                           |             |  |
| 10                | QPSK       | 50      | 0         | 23.79                  | 23.90                        | 23.58                   |                           |             |  |
| 10                | 16QAM      | 1       | 0         | 23.85                  | 23.77                        | 23.81                   |                           |             |  |
| 10                | 16QAM      | 1       | 25        | 23.82                  | 23.86                        | 23.84                   | 24.5                      | 1           |  |
| 10                | 16QAM      | 1       | 49        | 23.72                  | 23.84                        | 23.63                   |                           |             |  |
| 10                | 16QAM      | 25      | 0         | 22.86                  | 22.59                        | 22.77                   |                           |             |  |
| 10                | 16QAM      | 25      | 12        | 22.79                  | 22.68                        | 22.77                   |                           |             |  |
| 10                | 16QAM      | 25      | 25        | 22.78                  | 22.59                        | 22.72                   | 23.5                      | 2           |  |
| 10                | 16QAM      | 50      | 0         | 22.70                  | 22.65                        | 22.74                   |                           |             |  |
| 10                | 64QAM      | 1       | 0         | 22.85                  | 22.76                        | 22.80                   |                           |             |  |
| 10                | 64QAM      | 1       | 25        | 22.81                  | 23.14                        | 22.90                   |                           |             |  |
| 10                | 64QAM      | 1       | 49        | 22.93                  | 22.75                        | 22.87                   | 23.5                      | 2           |  |
| 10                | 64QAM      | 25      | 0         | 21.59                  | 21.64                        | 21.66                   |                           |             |  |
| 10                | 64QAM      | 25      | 12        | 21.86                  | 21.72                        | 21.72                   |                           |             |  |
| 10                | 64QAM      | 25      | 25        | 21.78                  | 21.79                        | 21.74                   |                           |             |  |
| 10                | 64QAM      | 50      | 0         | 21.72                  | 21.68                        | 21.61                   | 22.5                      | 3           |  |
| Channel           |            |         |           | 23755                  | 23790                        | 23825                   |                           |             |  |
| Frequency (MHz)   |            |         |           | 706.5                  | 710                          | 713.5                   |                           |             |  |
| 5                 | QPSK       | 1       | 0         | 24.67                  | 24.67                        | 24.56                   | 25.5                      | 0           |  |
| 5                 | QPSK       | 1       | 12        | 24.39                  | 24.59                        | 24.58                   |                           |             |  |
| 5                 | QPSK       | 1       | 24        | 24.62                  | 24.56                        | 24.66                   |                           |             |  |
| 5                 | QPSK       | 12      | 0         | 23.62                  | 23.77                        | 23.70                   |                           |             |  |
| 5                 | QPSK       | 12      | 7         | 23.66                  | 23.64                        | 23.67                   | 24.5                      | 1           |  |
| 5                 | QPSK       | 12      | 13        | 23.73                  | 23.70                        | 23.74                   |                           |             |  |
| 5                 | QPSK       | 25      | 0         | 23.64                  | 23.70                        | 23.60                   |                           |             |  |
| 5                 | 16QAM      | 1       | 0         | 23.88                  | 23.75                        | 23.70                   |                           |             |  |
| 5                 | 16QAM      | 1       | 12        | 23.87                  | 23.75                        | 24.14                   | 24.5                      | 1           |  |
| 5                 | 16QAM      | 1       | 24        | 23.84                  | 24.16                        | 23.98                   |                           |             |  |
| 5                 | 16QAM      | 12      | 0         | 22.80                  | 22.77                        | 22.67                   |                           |             |  |
| 5                 | 16QAM      | 12      | 7         | 22.85                  | 22.57                        | 22.83                   |                           |             |  |
| 5                 | 16QAM      | 12      | 13        | 22.70                  | 22.72                        | 22.78                   | 23.5                      | 2           |  |
| 5                 | 16QAM      | 25      | 0         | 22.70                  | 22.57                        | 22.77                   |                           |             |  |
| 5                 | 64QAM      | 1       | 0         | 22.80                  | 22.83                        | 22.71                   |                           |             |  |
| 5                 | 64QAM      | 1       | 12        | 22.69                  | 22.76                        | 22.73                   |                           |             |  |
| 5                 | 64QAM      | 1       | 24        | 22.70                  | 22.55                        | 22.64                   | 23.5                      | 2           |  |
| 5                 | 64QAM      | 12      | 0         | 21.80                  | 21.75                        | 21.62                   |                           |             |  |
| 5                 | 64QAM      | 12      | 7         | 21.62                  | 21.72                        | 21.89                   |                           |             |  |
| 5                 | 64QAM      | 12      | 13        | 21.66                  | 21.54                        | 21.63                   |                           |             |  |
| 5                 | 64QAM      | 25      | 0         | 21.57                  | 21.61                        | 21.66                   | 22.5                      | 3           |  |

| Band 26 Ant0 DS14 |            |         |           |                          |                             |                           |                           |             |  |
|-------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------------------|-------------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dbm) | MPR<br>(dB) |  |
| Channel           |            |         |           | 26765                    | 26865                       | 26965                     |                           |             |  |
| Frequency (MHz)   |            |         |           | 811.5                    | 831.5                       | 841.5                     |                           |             |  |
| 15                | QPSK       | 1       | 0         | 24.34                    | 24.44                       | 24.31                     | 25.5                      | 0           |  |
| 15                | QPSK       | 1       | 37        | 24.39                    | 24.37                       | 24.29                     |                           |             |  |
| 15                | QPSK       | 1       | 74        | 24.37                    | 24.33                       | 24.18                     |                           |             |  |
| 15                | QPSK       | 36      | 0         | 23.44                    | 23.50                       | 23.37                     |                           |             |  |
| 15                | QPSK       | 36      | 20        | 23.42                    | 23.46                       | 23.44                     | 24.5                      | 1           |  |
| 15                | QPSK       | 36      | 39        | 23.46                    | 23.46                       | 23.36                     |                           |             |  |
| 15                | QPSK       | 75      | 0         | 23.42                    | 23.52                       | 23.31                     |                           |             |  |
| 15                | 16QAM      | 1       | 0         | 23.77                    | 23.67                       | 23.64                     |                           |             |  |
| 15                | 16QAM      | 1       | 37        | 23.70                    | 23.66                       | 23.58                     | 24.5                      | 1           |  |
| 15                | 16QAM      | 1       | 74        | 23.75                    | 23.66                       | 23.48                     |                           |             |  |
| 15                | 16QAM      | 36      | 0         | 22.45                    | 22.43                       | 22.36                     |                           |             |  |
| 15                | 16QAM      | 36      | 20        | 22.50                    | 22.46                       | 22.41                     |                           |             |  |
| 15                | 16QAM      | 36      | 39        | 22.46                    | 22.47                       | 22.39                     | 23.5                      | 2           |  |
| 15                | 16QAM      | 75      | 0         | 22.52                    | 22.41                       | 22.38                     |                           |             |  |
| 15                | 64QAM      | 1       | 0         | 22.80                    | 22.55                       | 22.50                     |                           |             |  |
| 15                | 64QAM      | 1       | 37        | 22.65                    | 22.60                       | 22.50                     |                           |             |  |
| 15                | 64QAM      | 1       | 74        | 22.56                    | 22.54                       | 22.37                     | 23.5                      | 2           |  |
| 15                | 64QAM      | 36      | 0         | 21.48                    | 21.44                       | 21.37                     |                           |             |  |
| 15                | 64QAM      | 36      | 20        | 21.51                    | 21.47                       | 21.40                     |                           |             |  |
| 15                | 64QAM      | 36      | 39        | 21.50                    | 21.47                       | 21.38                     |                           |             |  |
| 15                | 64QAM      | 75      | 0         | 21.52                    | 21.42                       | 21.34                     | 22.5                      | 3           |  |
| Channel           |            |         |           | 26740                    | 26865                       | 26960                     |                           |             |  |
| Frequency (MHz)   |            |         |           | 819                      | 831.5                       | 844                       |                           |             |  |
| 10                | QPSK       | 1       | 0         | 24.35                    | 24.33                       | 24.20                     | 25.5                      | 0           |  |
| 10                | QPSK       | 1       | 25        | 24.33                    | 24.25                       | 24.17                     |                           |             |  |
| 10                | QPSK       | 1       | 49        | 24.27                    | 24.20                       | 24.12                     |                           |             |  |
| 10                | QPSK       | 25      | 0         | 23.45                    | 23.37                       | 23.31                     |                           |             |  |
| 10                | QPSK       | 25      | 12        | 23.45                    | 23.36                       | 23.32                     | 24.5                      | 1           |  |
| 10                | QPSK       | 25      | 25        | 23.42                    | 23.40                       | 23.33                     |                           |             |  |
| 10                | QPSK       | 50      | 0         | 23.46                    | 23.34                       | 23.30                     |                           |             |  |
| 10                | 16QAM      | 1       | 0         | 23.60                    | 23.66                       | 23.61                     |                           |             |  |
| 10                | 16QAM      | 1       | 25        | 23.62                    | 23.63                       | 23.53                     | 24.5                      | 1           |  |
| 10                | 16QAM      | 1       | 49        | 23.63                    | 23.61                       | 23.49                     |                           |             |  |
| 10                | 16QAM      | 25      | 0         | 22.50                    | 22.39                       | 22.31                     |                           |             |  |
| 10                | 16QAM      | 25      | 12        | 22.47                    | 22.40                       | 22.35                     |                           |             |  |
| 10                | 16QAM      | 25      | 25        | 22.42                    | 22.43                       | 22.35                     | 23.5                      | 2           |  |
| 10                | 16QAM      | 50      | 0         | 22.47                    | 22.37                       | 22.29                     |                           |             |  |
| 10                | 64QAM      | 1       | 0         | 22.57                    | 22.60                       | 22.46                     |                           |             |  |
| 10                | 64QAM      | 1       | 25        | 22.56                    | 22.46                       | 22.38                     |                           |             |  |
| 10                | 64QAM      | 1       | 49        | 22.50                    | 22.50                       | 22.39                     | 23.5                      | 2           |  |
| 10                | 64QAM      | 25      | 0         | 21.49                    | 21.39                       | 21.31                     |                           |             |  |
| 10                | 64QAM      | 25      | 12        | 21.47                    | 21.35                       | 21.29                     |                           |             |  |
| 10                | 64QAM      | 25      | 25        | 21.40                    | 21.41                       | 21.31                     |                           |             |  |
| 10                | 64QAM      | 50      | 0         | 21.44                    | 21.36                       | 21.31                     | 22.5                      | 3           |  |
| Channel           |            |         |           | 26715                    | 26865                       | 27015                     |                           |             |  |
| Frequency (MHz)   |            |         |           | 816.5                    | 831.5                       | 846.5                     |                           |             |  |
| 5                 | QPSK       | 1       | 0         | 24.33                    | 24.37                       | 24.22                     | 25.5                      | 0           |  |
| 5                 | QPSK       | 1       | 12        | 24.38                    | 24.32                       | 24.20                     |                           |             |  |
| 5                 | QPSK       | 1       | 24        | 24.32                    | 24.27                       | 24.09                     |                           |             |  |
| 5                 | QPSK       | 12      | 0         | 23.46                    | 23.34                       | 23.29                     |                           |             |  |
| 5                 | QPSK       | 12      | 7         | 23.48                    | 23.42                       | 23.26                     | 24.5                      | 1           |  |
| 5                 | QPSK       | 12      | 13        | 23.43                    | 23.36                       | 23.24                     |                           |             |  |
| 5                 | QPSK       | 25      | 0         | 23.46                    | 23.33                       | 23.26                     |                           |             |  |
| 5                 | 16QAM      | 1       | 0         | 23.60                    | 23.58                       | 23.52                     |                           |             |  |
| 5                 | 16QAM      | 1       | 12        | 23.64                    | 23.67                       | 23.54                     | 24.5                      | 1           |  |
| 5                 | 16QAM      | 1       | 24        | 23.66                    | 23.58                       | 23.50                     |                           |             |  |
| 5                 | 16QAM      | 12      | 0         | 22.50                    | 22.37                       | 22.31                     |                           |             |  |
| 5                 | 16QAM      | 12      | 7         | 22.51                    | 22.43                       | 22.30                     |                           |             |  |
| 5                 | 16QAM      | 12      | 13        | 22.47                    | 22.41                       | 22.27                     | 23.5                      | 2           |  |
| 5                 | 16QAM      | 25      | 0         | 22.49                    | 22.34                       | 22.28                     |                           |             |  |
| 5                 | 64QAM      | 1       | 0         | 22.58                    | 22.51                       | 22.45                     |                           |             |  |
| 5                 | 64QAM      | 1       | 12        | 22.56                    | 22.42                       | 22.39                     |                           |             |  |
| 5                 | 64QAM      | 1       | 24        | 22.54                    | 22.49                       | 22.36                     | 23.5                      | 2           |  |
| 5                 | 64QAM      | 12      | 0         | 21.53                    | 21.36                       | 21.33                     |                           |             |  |
| 5                 | 64QAM      | 12      | 7         | 21.48                    | 21.43                       | 21.29                     |                           |             |  |
| 5                 | 64QAM      | 12      | 13        | 21.45                    | 21.41                       | 21.29                     |                           |             |  |
| 5                 | 64QAM      | 25      | 0         | 21.39                    | 21.30                       | 21.27                     | 22.5                      | 3           |  |
| Channel           |            |         |           | 26705                    | 26865                       | 27025                     |                           |             |  |
| Frequency (MHz)   |            |         |           | 815.5                    | 831.5                       | 847.5                     |                           |             |  |
| 3                 | QPSK       | 1       | 0         | 24.29                    | 24.34                       | 24.14                     | 25.5                      | 0           |  |
| 3                 | QPSK       | 1       | 8         | 24.33                    | 24.31                       | 24.20                     |                           |             |  |
| 3                 | QPSK       | 1       | 14        | 24.37                    | 24.27                       | 23.89                     |                           |             |  |
| 3                 | QPSK       | 8       | 0         | 23.40                    | 23.29                       | 23.27                     |                           |             |  |
| 3                 | QPSK       | 8       | 4         | 23.42                    | 23.45                       | 23.31                     | 24.5                      | 1           |  |
| 3                 | QPSK       | 8       | 7         | 23.45                    | 23.37                       | 23.24                     |                           |             |  |
| 3                 | QPSK       | 15      | 0         | 23.44                    | 23.40                       | 23.26                     |                           |             |  |
| 3                 | 16QAM      | 1       | 0         | 23.53                    | 23.60                       | 23.52                     |                           |             |  |
| 3                 | 16QAM      | 1       | 8         | 23.61                    | 23.67                       | 23.54                     | 24.5                      | 1           |  |
| 3                 | 16QAM      | 1       | 14        | 23.70                    | 23.61                       | 23.55                     |                           |             |  |
| 3                 | 16QAM      | 8       | 0         | 22.50                    | 22.37                       | 22.33                     |                           |             |  |
| 3                 | 16QAM      | 8       | 4         | 22.55                    | 22.51                       | 22.35                     |                           |             |  |
| 3                 | 16QAM      | 8       | 7         | 22.49                    | 22.42                       | 22.28                     | 23.5                      | 2           |  |
| 3                 | 16QAM      | 15      | 0         | 22.50                    | 22.43                       | 22.30                     |                           |             |  |
| 3                 | 64QAM      | 1       | 0         | 22.56                    | 22.48                       | 22.39                     |                           |             |  |
| 3                 | 64QAM      | 1       | 8         | 22.62                    | 22.56                       | 22.44                     |                           |             |  |
| 3                 | 64QAM      | 1       | 14        | 22.55                    | 22.57                       | 22.41                     | 23.5                      | 2           |  |
| 3                 | 64QAM      | 8       | 0         | 21.51                    | 21.36                       | 21.31                     |                           |             |  |
| 3                 | 64QAM      | 8       | 4         | 21.50                    | 21.44                       | 21.31                     |                           |             |  |
| 3                 | 64QAM      | 8       | 7         | 21.50                    | 21.44                       | 21.08                     |                           |             |  |
| 3                 | 64QAM      | 15      | 0         | 21.48                    | 21.38                       | 21.25                     | 22.5                      | 3           |  |
| Channel           |            |         |           | 26718                    | 26865                       | 27033                     |                           |             |  |
| Frequency (MHz)   |            |         |           | 814.7                    | 831.5                       | 848.3                     |                           |             |  |
| 1.4               | QPSK       | 1       | 0         | 24.15                    | 24.30                       | 24.04                     | 25.5                      | 0           |  |
| 1.4               | QPSK       | 1       | 3         | 24.33                    | 24.38                       | 24.16                     |                           |             |  |
| 1.4               | QPSK       | 1       | 5         | 24.33                    | 24.20                       | 24.03                     |                           |             |  |
| 1.4               | QPSK       | 3       | 0         | 24.27                    | 24.22                       | 24.07                     |                           |             |  |
| 1.4               | QPSK       | 3       | 1         | 24.31                    | 24.29                       | 24.15                     | 24.5                      | 1           |  |
| 1.4               | QPSK       | 3       | 3         | 24.30                    | 24.22                       | 24.07                     |                           |             |  |
| 1.4               | QPSK       | 6       | 0         | 23.37                    | 23.54                       | 23.19                     |                           |             |  |
| 1.4               | 16QAM      | 1       | 0         | 23.49                    | 23.52                       | 23.41                     |                           |             |  |
| 1.4               | 16QAM      | 1       | 3         | 23.61                    | 23.64                       | 23.48                     | 24.5                      | 1           |  |
| 1.4               | 16QAM      | 1       | 5         | 23.59                    | 23.56                       | 23.40                     |                           |             |  |
| 1.4               | 16QAM      | 3       | 0         | 23.35                    | 23.33                       | 23.18                     |                           |             |  |
| 1.4               | 16QAM      | 3       | 1         | 23.40                    | 23.36                       | 23.26                     |                           |             |  |
| 1.4               | 16QAM      | 3       | 3         | 23.40                    | 23.29                       | 23.14                     | 23.5                      | 2           |  |
| 1.4               | 16QAM      | 6       | 0         | 22.50                    | 22.41                       | 22.25                     |                           |             |  |
| 1.4               | 64QAM      | 1       | 0         | 22.47                    | 22.40                       | 22.30                     |                           |             |  |
| 1.4               | 64QAM      | 1       | 3         | 22.56                    | 22.45                       | 22.38                     |                           |             |  |
| 1.4               | 64QAM      | 1       | 5         | 22.49                    | 22.39                       | 22.23                     | 23.5                      | 2           |  |
| 1.4               | 64QAM      | 3       | 0         | 22.40                    | 22.30                       | 22.24                     |                           |             |  |
| 1.4               | 64QAM      | 3       | 1         | 22.43                    | 22.32                       | 22.28                     |                           |             |  |
| 1.4               | 64QAM      | 3       | 3         | 22.41                    | 22.31                       | 22.21                     |                           |             |  |
| 1.4               | 64QAM      | 6       | 0         | 21.40                    | 21.37                       | 21.19                     | 22.5                      | 3           |  |



| Band 38 Ant0 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                  | 22                  | 0        |  |
| Frequency (MHz)   |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |  |
| 20                | QPSK       | 1       | 0         | 20.60                 | 20.69                    | 20.59                  | 22                  | 0        |  |
| 20                | QPSK       | 1       | 49        | 20.60                 | 20.63                    | 20.63                  |                     |          |  |
| 20                | QPSK       | 1       | 99        | 20.59                 | 20.55                    | 20.55                  | 22                  | 0        |  |
| 20                | QPSK       | 50      | 0         | 20.40                 | 20.48                    | 20.39                  |                     |          |  |
| 20                | QPSK       | 50      | 24        | 20.15                 | 20.32                    | 20.44                  | 22                  | 0        |  |
| 20                | QPSK       | 50      | 50        | 20.35                 | 20.37                    | 20.44                  |                     |          |  |
| 20                | QPSK       | 100     | 0         | 20.33                 | 20.42                    | 20.38                  | 22                  | 0        |  |
| 20                | 16QAM      | 1       | 0         | 20.30                 | 20.32                    | 20.32                  |                     |          |  |
| 20                | 16QAM      | 1       | 49        | 20.33                 | 20.40                    | 20.37                  | 22                  | 0        |  |
| 20                | 16QAM      | 1       | 99        | 20.21                 | 20.17                    | 20.21                  |                     |          |  |
| 20                | 16QAM      | 50      | 0         | 20.39                 | 20.40                    | 20.41                  | 22                  | 0        |  |
| 20                | 16QAM      | 50      | 24        | 20.44                 | 20.40                    | 20.44                  |                     |          |  |
| 20                | 16QAM      | 50      | 50        | 20.34                 | 20.35                    | 20.42                  | 22                  | 0        |  |
| 20                | 16QAM      | 100     | 0         | 20.41                 | 20.33                    | 20.41                  |                     |          |  |
| 20                | 64QAM      | 1       | 0         | 20.48                 | 20.61                    | 20.58                  | 22                  | 0        |  |
| 20                | 64QAM      | 1       | 49        | 20.39                 | 20.52                    | 20.53                  |                     |          |  |
| 20                | 64QAM      | 1       | 99        | 20.28                 | 20.38                    | 20.33                  | 22                  | 0        |  |
| 20                | 64QAM      | 50      | 0         | 20.31                 | 20.37                    | 20.33                  |                     |          |  |
| 20                | 64QAM      | 50      | 24        | 20.39                 | 20.40                    | 20.46                  | 22                  | 0        |  |
| 20                | 64QAM      | 50      | 50        | 20.36                 | 20.43                    | 20.41                  |                     |          |  |
| 20                | 64QAM      | 100     | 0         | 20.38                 | 20.37                    | 20.29                  | 22                  | 0        |  |
| Channel           |            |         |           | 37825                 | 38000                    | 38175                  |                     |          |  |
| Frequency (MHz)   |            |         |           | 2577.5                | 2595                     | 2612.5                 | 22                  | 0        |  |
| 15                | QPSK       | 1       | 0         | 20.39                 | 20.45                    | 20.40                  |                     | 0        |  |
| 15                | QPSK       | 1       | 37        | 20.42                 | 20.45                    | 20.46                  | 22                  | 0        |  |
| 15                | QPSK       | 1       | 74        | 20.38                 | 20.34                    | 20.38                  |                     |          |  |
| 15                | QPSK       | 36      | 0         | 20.22                 | 20.25                    | 20.20                  | 22                  | 0        |  |
| 15                | QPSK       | 36      | 20        | 20.10                 | 20.15                    | 20.23                  |                     |          |  |
| 15                | QPSK       | 36      | 39        | 20.10                 | 20.12                    | 20.20                  | 22                  | 0        |  |
| 15                | QPSK       | 75      | 0         | 20.15                 | 20.27                    | 20.22                  |                     |          |  |
| 15                | 16QAM      | 1       | 0         | 20.12                 | 20.10                    | 20.15                  | 22                  | 0        |  |
| 15                | 16QAM      | 1       | 37        | 20.18                 | 20.19                    | 20.15                  |                     |          |  |
| 15                | 16QAM      | 1       | 74        | 20.02                 | 20.08                    | 20.00                  | 22                  | 0        |  |
| 15                | 16QAM      | 36      | 0         | 20.16                 | 20.19                    | 20.23                  |                     |          |  |
| 15                | 16QAM      | 36      | 20        | 20.22                 | 20.17                    | 20.24                  | 22                  | 0        |  |
| 15                | 16QAM      | 36      | 39        | 20.13                 | 20.14                    | 20.22                  |                     |          |  |
| 15                | 16QAM      | 75      | 0         | 20.23                 | 20.11                    | 20.24                  | 22                  | 0        |  |
| 15                | 64QAM      | 1       | 0         | 20.23                 | 20.41                    | 20.40                  |                     |          |  |
| 15                | 64QAM      | 1       | 37        | 20.23                 | 20.30                    | 20.30                  | 22                  | 0        |  |
| 15                | 64QAM      | 1       | 74        | 20.12                 | 20.17                    | 20.11                  |                     |          |  |
| 15                | 64QAM      | 36      | 0         | 20.14                 | 20.22                    | 20.12                  | 22                  | 0        |  |
| 15                | 64QAM      | 36      | 20        | 20.20                 | 20.17                    | 20.29                  |                     |          |  |
| 15                | 64QAM      | 36      | 39        | 20.12                 | 20.25                    | 20.20                  | 22                  | 0        |  |
| 15                | 64QAM      | 75      | 0         | 20.23                 | 20.22                    | 20.11                  |                     |          |  |
| Channel           |            |         |           | 37800                 | 38000                    | 38200                  | 22                  | 0        |  |
| Frequency (MHz)   |            |         |           | 2575                  | 2595                     | 2615                   |                     |          |  |
| 10                | QPSK       | 1       | 0         | 20.40                 | 20.48                    | 20.36                  | 22                  | 0        |  |
| 10                | QPSK       | 1       | 25        | 20.39                 | 20.45                    | 20.39                  |                     |          |  |
| 10                | QPSK       | 1       | 49        | 20.35                 | 20.35                    | 20.36                  | 22                  | 0        |  |
| 10                | QPSK       | 25      | 0         | 20.23                 | 20.25                    | 20.21                  |                     |          |  |
| 10                | QPSK       | 25      | 12        | 20.11                 | 20.13                    | 20.20                  | 22                  | 0        |  |
| 10                | QPSK       | 25      | 25        | 20.14                 | 20.20                    | 20.21                  |                     |          |  |
| 10                | QPSK       | 50      | 0         | 20.10                 | 20.18                    | 20.20                  | 22                  | 0        |  |
| 10                | 16QAM      | 1       | 0         | 20.09                 | 20.16                    | 20.13                  |                     |          |  |
| 10                | 16QAM      | 1       | 25        | 20.09                 | 20.15                    | 20.20                  | 22                  | 0        |  |
| 10                | 16QAM      | 1       | 49        | 20.02                 | 20.05                    | 20.01                  |                     |          |  |
| 10                | 16QAM      | 25      | 0         | 20.22                 | 20.24                    | 20.19                  | 22                  | 0        |  |
| 10                | 16QAM      | 25      | 12        | 20.25                 | 20.16                    | 20.28                  |                     |          |  |
| 10                | 16QAM      | 25      | 25        | 20.17                 | 20.20                    | 20.25                  | 22                  | 0        |  |
| 10                | 16QAM      | 50      | 0         | 20.26                 | 20.18                    | 20.24                  |                     |          |  |
| 10                | 64QAM      | 1       | 0         | 20.26                 | 20.38                    | 20.40                  | 22                  | 0        |  |
| 10                | 64QAM      | 1       | 25        | 20.21                 | 20.36                    | 20.33                  |                     |          |  |
| 10                | 64QAM      | 1       | 49        | 20.11                 | 20.15                    | 20.13                  | 22                  | 0        |  |
| 10                | 64QAM      | 25      | 0         | 20.07                 | 20.17                    | 20.16                  |                     |          |  |
| 10                | 64QAM      | 25      | 12        | 20.24                 | 20.23                    | 20.26                  | 22                  | 0        |  |
| 10                | 64QAM      | 25      | 25        | 20.18                 | 20.19                    | 20.23                  |                     |          |  |
| 10                | 64QAM      | 50      | 0         | 20.16                 | 20.15                    | 20.10                  | 22                  | 0        |  |
| Channel           |            |         |           | 37775                 | 38000                    | 38225                  |                     |          |  |
| Frequency (MHz)   |            |         |           | 2572.5                | 2595                     | 2617.5                 | 22                  | 0        |  |
| 5                 | QPSK       | 1       | 0         | 20.37                 | 20.53                    | 20.42                  |                     | 0        |  |
| 5                 | QPSK       | 1       | 12        | 20.43                 | 20.41                    | 20.50                  | 22                  | 0        |  |
| 5                 | QPSK       | 1       | 24        | 20.43                 | 20.38                    | 20.40                  |                     |          |  |
| 5                 | QPSK       | 12      | 0         | 20.12                 | 20.28                    | 20.19                  | 22                  | 0        |  |
| 5                 | QPSK       | 12      | 7         | 20.01                 | 20.18                    | 20.33                  |                     |          |  |
| 5                 | QPSK       | 12      | 13        | 20.05                 | 20.19                    | 20.15                  | 22                  | 0        |  |
| 5                 | QPSK       | 25      | 0         | 20.12                 | 20.17                    | 20.18                  |                     |          |  |
| 5                 | 16QAM      | 1       | 0         | 20.09                 | 20.12                    | 20.20                  | 22                  | 0        |  |
| 5                 | 16QAM      | 1       | 12        | 20.08                 | 20.15                    | 20.08                  |                     |          |  |
| 5                 | 16QAM      | 1       | 24        | 20.03                 | 20.03                    | 20.08                  | 22                  | 0        |  |
| 5                 | 16QAM      | 12      | 0         | 20.18                 | 20.17                    | 20.17                  |                     |          |  |
| 5                 | 16QAM      | 12      | 7         | 20.17                 | 20.25                    | 20.16                  | 22                  | 0        |  |
| 5                 | 16QAM      | 12      | 13        | 20.18                 | 20.11                    | 20.28                  |                     |          |  |
| 5                 | 16QAM      | 25      | 0         | 20.17                 | 20.17                    | 20.19                  | 22                  | 0        |  |
| 5                 | 64QAM      | 1       | 0         | 20.29                 | 20.40                    | 20.37                  |                     |          |  |
| 5                 | 64QAM      | 1       | 12        | 20.24                 | 20.25                    | 20.25                  | 22                  | 0        |  |
| 5                 | 64QAM      | 1       | 24        | 20.15                 | 20.23                    | 20.10                  |                     |          |  |
| 5                 | 64QAM      | 12      | 0         | 20.15                 | 20.18                    | 20.05                  | 22                  | 0        |  |
| 5                 | 64QAM      | 12      | 7         | 20.09                 | 20.27                    | 20.16                  |                     |          |  |
| 5                 | 64QAM      | 12      | 13        | 20.06                 | 20.24                    | 20.27                  | 22                  | 0        |  |
| 5                 | 64QAM      | 25      | 0         | 20.11                 | 20.17                    | 20.04                  |                     |          |  |

| Band 41 (2.6G Band) Ant0 DS14 |            |         |           |                       |                              |                               |                        |                     |          |
|-------------------------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|
| BW [MHz]                      | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Low Ch. / Freq. | Power Middle High Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel                       |            |         |           | 40240                 | 40500                        | 40770                         | 41090                  | 23                  | 0        |
| Frequency (MHz)               |            |         |           | 2555                  | 2581                         | 2608                          | 2640                   |                     |          |
| 20                            | QPSK       | 1       | 0         | 21.69                 | 21.73                        | 21.86                         | 21.79                  | 23                  | 0        |
| 20                            | QPSK       | 1       | 49        | 21.68                 | 21.73                        | 21.70                         | 21.72                  |                     |          |
| 20                            | QPSK       | 1       | 99        | 21.71                 | 21.70                        | 21.78                         | 21.72                  |                     |          |
| 20                            | QPSK       | 50      | 0         | 21.54                 | 21.61                        | 21.82                         | 21.63                  |                     |          |
| 20                            | QPSK       | 50      | 24        | 21.51                 | 21.58                        | 21.57                         | 21.54                  | 23                  | 0        |
| 20                            | QPSK       | 50      | 50        | 21.44                 | 21.57                        | 21.66                         | 21.47                  |                     |          |
| 20                            | QPSK       | 100     | 0         | 21.52                 | 21.46                        | 21.79                         | 21.51                  |                     |          |
| 20                            | 16QAM      | 1       | 0         | 21.57                 | 21.45                        | 21.75                         | 21.56                  |                     |          |
| 20                            | 16QAM      | 1       | 49        | 21.41                 | 21.56                        | 21.44                         | 21.62                  | 23                  | 0        |
| 20                            | 16QAM      | 1       | 99        | 21.46                 | 21.43                        | 21.60                         | 21.56                  |                     |          |
| 20                            | 16QAM      | 50      | 0         | 21.47                 | 21.42                        | 21.74                         | 21.66                  |                     |          |
| 20                            | 16QAM      | 50      | 24        | 21.39                 | 21.61                        | 21.44                         | 21.55                  |                     |          |
| 20                            | 16QAM      | 50      | 50        | 21.54                 | 21.37                        | 21.65                         | 21.65                  | 23                  | 0        |
| 20                            | 16QAM      | 100     | 0         | 21.45                 | 21.58                        | 21.49                         | 21.58                  |                     |          |
| 20                            | 64QAM      | 1       | 0         | 21.43                 | 21.42                        | 21.74                         | 21.39                  |                     |          |
| 20                            | 64QAM      | 1       | 49        | 21.39                 | 21.51                        | 21.26                         | 21.58                  |                     |          |
| 20                            | 64QAM      | 1       | 99        | 21.42                 | 21.42                        | 21.51                         | 21.39                  | 23                  | 0        |
| 20                            | 64QAM      | 50      | 0         | 21.32                 | 21.32                        | 21.62                         | 21.61                  |                     |          |
| 20                            | 64QAM      | 50      | 24        | 21.35                 | 21.44                        | 21.41                         | 21.52                  |                     |          |
| 20                            | 64QAM      | 50      | 50        | 21.44                 | 21.23                        | 21.57                         | 21.55                  |                     |          |
| 20                            | 64QAM      | 100     | 0         | 20.99                 | 20.88                        | 20.87                         | 21.05                  | 22.5                | 0.5      |
| Channel                       |            |         |           | 40215                 | 40495                        | 40765                         | 41115                  |                     |          |
| Frequency (MHz)               |            |         |           | 2552.5                | 2580.5                       | 2609.5                        | 2642.5                 |                     |          |
| 15                            | QPSK       | 1       | 0         | 21.52                 | 21.57                        | 21.74                         | 21.67                  |                     |          |
| 15                            | QPSK       | 1       | 37        | 21.52                 | 21.55                        | 21.61                         | 21.56                  | 23                  | 0        |
| 15                            | QPSK       | 1       | 74        | 21.50                 | 21.58                        | 21.65                         | 21.53                  |                     |          |
| 15                            | QPSK       | 38      | 0         | 21.37                 | 21.55                        | 21.58                         | 21.44                  |                     |          |
| 15                            | QPSK       | 38      | 20        | 21.41                 | 21.51                        | 21.45                         | 21.33                  |                     |          |
| 15                            | QPSK       | 38      | 39        | 21.34                 | 21.51                        | 21.53                         | 21.35                  | 23                  | 0        |
| 15                            | QPSK       | 75      | 0         | 21.44                 | 21.38                        | 21.41                         | 21.35                  |                     |          |
| 15                            | 16QAM      | 1       | 0         | 21.37                 | 21.55                        | 21.58                         | 21.44                  |                     |          |
| 15                            | 16QAM      | 1       | 37        | 21.41                 | 21.51                        | 21.45                         | 21.33                  |                     |          |
| 15                            | 16QAM      | 1       | 74        | 21.34                 | 21.51                        | 21.53                         | 21.35                  | 23                  | 0        |
| 15                            | 16QAM      | 38      | 0         | 21.27                 | 21.34                        | 21.56                         | 21.50                  |                     |          |
| 15                            | 16QAM      | 38      | 20        | 21.26                 | 21.41                        | 21.31                         | 21.40                  |                     |          |
| 15                            | 16QAM      | 38      | 39        | 21.31                 | 21.35                        | 21.57                         | 21.52                  |                     |          |
| 15                            | 16QAM      | 75      | 0         | 21.29                 | 21.44                        | 21.30                         | 21.38                  | 23                  | 0        |
| 15                            | 64QAM      | 1       | 0         | 21.34                 | 21.38                        | 21.51                         | 21.30                  |                     |          |
| 15                            | 64QAM      | 1       | 37        | 21.29                 | 21.34                        | 21.45                         | 21.50                  |                     |          |
| 15                            | 64QAM      | 1       | 74        | 21.34                 | 21.28                        | 21.27                         | 21.33                  |                     |          |
| 15                            | 64QAM      | 38      | 0         | 21.40                 | 21.37                        | 21.69                         | 21.38                  | 22.5                | 0.5      |
| 15                            | 64QAM      | 38      | 20        | 21.27                 | 21.44                        | 21.42                         | 21.39                  |                     |          |
| 15                            | 64QAM      | 38      | 39        | 21.38                 | 21.38                        | 21.44                         | 21.28                  |                     |          |
| 15                            | 64QAM      | 75      | 0         | 20.75                 | 20.75                        | 20.76                         | 20.85                  |                     |          |
| Channel                       |            |         |           | 40190                 | 40490                        | 40790                         | 41140                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)               |            |         |           | 2550                  | 2580                         | 2610                          | 2645                   | 23                  | 0        |
| 10                            | QPSK       | 1       | 0         | 21.50                 | 21.57                        | 21.70                         | 21.64                  |                     |          |
| 10                            | QPSK       | 1       | 25        | 21.56                 | 21.59                        | 21.64                         | 21.48                  |                     |          |
| 10                            | QPSK       | 1       | 49        | 21.60                 | 21.61                        | 21.71                         | 21.61                  |                     |          |
| 10                            | QPSK       | 25      | 0         | 21.31                 | 21.54                        | 21.66                         | 21.43                  | 23                  | 0        |
| 10                            | QPSK       | 25      | 12        | 21.43                 | 21.42                        | 21.36                         | 21.34                  |                     |          |
| 10                            | QPSK       | 25      | 25        | 21.35                 | 21.46                        | 21.56                         | 21.32                  |                     |          |
| 10                            | QPSK       | 50      | 0         | 21.31                 | 21.38                        | 21.46                         | 21.26                  |                     |          |
| 10                            | 16QAM      | 1       | 0         | 21.41                 | 21.25                        | 21.51                         | 21.32                  | 23                  | 0        |
| 10                            | 16QAM      | 1       | 25        | 21.35                 | 21.35                        | 21.25                         | 21.53                  |                     |          |
| 10                            | 16QAM      | 1       | 49        | 21.35                 | 21.32                        | 21.40                         | 21.49                  |                     |          |
| 10                            | 16QAM      | 25      | 0         | 21.31                 | 21.34                        | 21.55                         | 21.45                  |                     |          |
| 10                            | 16QAM      | 25      | 12        | 21.27                 | 21.55                        | 21.29                         | 21.32                  | 23                  | 0        |
| 10                            | 16QAM      | 25      | 25        | 21.33                 | 21.28                        | 21.54                         | 21.46                  |                     |          |
| 10                            | 16QAM      | 50      | 0         | 21.38                 | 21.51                        | 21.37                         | 21.52                  |                     |          |
| 10                            | 64QAM      | 1       | 0         | 21.36                 | 21.31                        | 21.50                         | 21.36                  |                     |          |
| 10                            | 64QAM      | 1       | 25        | 21.26                 | 21.37                        | 21.25                         | 21.35                  | 23                  | 0        |
| 10                            | 64QAM      | 1       | 49        | 21.28                 | 21.29                        | 21.42                         | 21.31                  |                     |          |
| 10                            | 64QAM      | 25      | 0         | 21.16                 | 21.14                        | 21.47                         | 21.37                  |                     |          |
| 10                            | 64QAM      | 25      | 12        | 21.22                 | 21.26                        | 21.35                         | 21.33                  |                     |          |
| 10                            | 64QAM      | 25      | 25        | 21.20                 | 21.16                        | 21.33                         | 21.33                  | 22.5                | 0.5      |
| 10                            | 64QAM      | 50      | 0         | 20.81                 | 20.80                        | 20.78                         | 20.99                  |                     |          |
| Channel                       |            |         |           | 40165                 | 40485                        | 40805                         | 41165                  |                     |          |
| Frequency (MHz)               |            |         |           | 2547.5                | 2579.5                       | 2611.5                        | 2647.5                 |                     |          |
| 5                             | QPSK       | 1       | 0         | 21.59                 | 21.68                        | 21.68                         | 21.55                  | 23                  | 0        |
| 5                             | QPSK       | 1       | 12        | 21.51                 | 21.59                        | 21.57                         | 21.50                  |                     |          |
| 5                             | QPSK       | 1       | 24        | 21.62                 | 21.59                        | 21.55                         | 21.63                  |                     |          |
| 5                             | QPSK       | 12      | 0         | 21.29                 | 21.43                        | 21.62                         | 21.48                  |                     |          |
| 5                             | QPSK       | 12      | 7         | 21.43                 | 21.36                        | 21.37                         | 21.39                  | 23                  | 0        |
| 5                             | QPSK       | 12      | 13        | 21.26                 | 21.34                        | 21.50                         | 21.40                  |                     |          |
| 5                             | QPSK       | 25      | 0         | 21.29                 | 21.37                        | 21.34                         | 21.29                  |                     |          |
| 5                             | 16QAM      | 1       | 0         | 21.43                 | 21.36                        | 21.54                         | 21.40                  |                     |          |
| 5                             | 16QAM      | 1       | 12        | 21.27                 | 21.51                        | 21.45                         | 21.51                  | 23                  | 0        |
| 5                             | 16QAM      | 1       | 24        | 21.37                 | 21.27                        | 21.35                         | 21.36                  |                     |          |
| 5                             | 16QAM      | 12      | 0         | 21.42                 | 21.53                        | 21.64                         | 21.42                  |                     |          |
| 5                             | 16QAM      | 12      | 7         | 21.39                 | 21.52                        | 21.38                         | 21.39                  |                     |          |
| 5                             | 16QAM      | 12      | 13        | 21.30                 | 21.43                        | 21.61                         | 21.38                  | 23                  | 0        |
| 5                             | 16QAM      | 25      | 0         | 21.38                 | 21.46                        | 21.32                         | 21.42                  |                     |          |
| 5                             | 64QAM      | 1       | 0         | 21.28                 | 21.35                        | 21.51                         | 21.30                  |                     |          |
| 5                             | 64QAM      | 1       | 12        | 21.31                 | 21.26                        | 21.36                         | 21.37                  |                     |          |
| 5                             | 64QAM      | 1       | 24        | 21.27                 | 21.33                        | 21.33                         | 21.30                  | 23                  | 0        |
| 5                             | 64QAM      | 12      | 0         | 21.13                 | 21.20                        | 21.38                         | 21.41                  |                     |          |
| 5                             | 64QAM      | 12      | 7         | 21.28                 | 21.25                        | 21.27                         | 21.30                  |                     |          |
| 5                             | 64QAM      | 12      | 13        | 21.38                 | 21.07                        | 21.41                         | 21.40                  |                     |          |
| 5                             | 64QAM      | 25      | 0         | 20.94                 | 20.77                        | 20.78                         | 20.83                  | 22.5                | 0.5      |

|                 |  | GSM850 Ant4 DS4           |       |       |               |                           |       |               |
|-----------------|--|---------------------------|-------|-------|---------------|---------------------------|-------|---------------|
| GSM850          |  | Burst Average Power (dBm) |       |       | Tune-up Limit | Frame-Average Power (dBm) |       | Tune-up Limit |
| 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   |  | 32.14                     | 32.27 | 32.11 | 33.50         | 23.14                     | 23.27 | 23.11         |
| GPRS 1 Tx slot  |  | 32.19                     | 32.24 | 31.97 | 33.50         | 23.19                     | 23.24 | 22.97         |
| GPRS 2 Tx slots |  | 29.66                     | 29.59 | 29.46 | 30.50         | 23.66                     | 23.59 | 23.46         |
| GPRS 3 Tx slots |  | 27.64                     | 27.44 | 27.85 | 28.50         | 23.38                     | 23.18 | 23.59         |
| GPRS 4 Tx slots |  | 26.48                     | 26.54 | 26.45 | 27.50         | 23.48                     | 23.54 | 23.45         |
| EDGE 1 Tx slot  |  | 26.11                     | 26.00 | 25.97 | 27.50         | 17.11                     | 17.00 | 16.97         |
| EDGE 2 Tx slots |  | 23.36                     | 23.54 | 23.16 | 24.50         | 17.36                     | 17.54 | 17.16         |
| EDGE 3 Tx slots |  | 21.47                     | 21.55 | 21.29 | 23.00         | 17.21                     | 17.29 | 17.03         |
| EDGE 4 Tx slots |  | 20.09                     | 20.40 | 20.13 | 21.50         | 17.09                     | 17.40 | 17.13         |

|                 |                           | GSM1900 Ant4 DS4 |        |               |                           |        |        |               |
|-----------------|---------------------------|------------------|--------|---------------|---------------------------|--------|--------|---------------|
| GSM1900         | Burst Average Power (dBm) |                  |        | Tune-up Limit | Frame-Average Power (dBm) |        |        | Tune-up Limit |
| TX Channel      | 512                       | 661              | 810    | 512           | 661                       | 810    | 512    |               |
| Frequency (MHz) | 1850.2                    | 1880             | 1909.8 | 1850.2        | 1880                      | 1909.8 | 1850.2 |               |
| GSM 1 Tx slot   | 27.98                     | 27.90            | 27.83  | 29.50         | 18.98                     | 18.90  | 18.83  |               |
| GPRS 1 Tx slot  | 28.02                     | 27.92            | 27.86  | 29.50         | 19.02                     | 18.92  | 18.86  |               |
| GPRS 2 Tx slots | 26.42                     | 26.50            | 26.34  | 27.50         | 20.42                     | 20.50  | 20.34  |               |
| GPRS 3 Tx slots | 24.35                     | 24.51            | 24.29  | 25.50         | 20.09                     | 20.25  | 20.03  |               |
| GPRS 4 Tx slots | 23.17                     | 23.17            | 23.15  | 24.50         | 20.16                     | 20.17  | 20.15  |               |
| EDGE 1 Tx slot  | 24.39                     | 24.60            | 24.44  | 25.50         | 15.39                     | 15.60  | 15.44  |               |
| EDGE 2 Tx slots | 22.31                     | 22.16            | 22.03  | 24.00         | 16.31                     | 16.16  | 16.03  |               |
| EDGE 3 Tx slots | 19.76                     | 19.56            | 19.49  | 21.00         | 15.50                     | 15.30  | 15.23  |               |
| EDGE 4 Tx slots | 19.37                     | 19.40            | 19.11  | 20.50         | 16.37                     | 16.40  | 16.11  |               |

| WCDMA II Ant4 DS4 |                    |        |       | WCDMA IV Ant4 DS4   |          |        |        | WCDMA V Ant4 DS4    |         |       |       |                     |       |
|-------------------|--------------------|--------|-------|---------------------|----------|--------|--------|---------------------|---------|-------|-------|---------------------|-------|
| 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       | 21.39  | 21.24 | 21.11               | 22.50    | 22.45  | 22.44  | 22.41               | 23.50   | 24.70 | 24.72 | 24.71               | 25.50 |
| 3GPP Rel 99       | RMC 12.2Kbps       | 21.34  | 21.42 | 21.13               | 22.50    | 22.48  | 22.51  | 22.47               | 23.50   | 24.71 | 24.73 | 24.68               | 25.50 |
| 3GPP Rel 6        | HSDPA Subtest-1    | 20.42  | 20.46 | 20.24               | 21.50    | 21.53  | 21.63  | 21.58               | 22.50   | 23.82 | 23.80 | 23.72               | 24.50 |
| 3GPP Rel 6        | HSDPA Subtest-2    | 20.41  | 20.37 | 20.16               | 21.50    | 21.67  | 21.66  | 21.61               | 22.50   | 23.78 | 23.79 | 23.71               | 24.50 |
| 3GPP Rel 6        | HSDPA Subtest-3    | 19.82  | 19.87 | 19.71               | 21.00    | 21.17  | 21.19  | 20.87               | 22.00   | 23.28 | 23.32 | 23.16               | 24.00 |
| 3GPP Rel 6        | HSDPA Subtest-4    | 19.85  | 19.90 | 19.62               | 21.00    | 21.11  | 21.19  | 21.24               | 22.00   | 23.28 | 23.25 | 23.21               | 24.00 |
| 3GPP Rel 8        | DC-HSDPA Subtest-1 | 20.24  | 20.49 | 20.01               | 21.50    | 21.77  | 21.68  | 21.69               | 22.50   | 23.81 | 23.88 | 23.70               | 24.50 |
| 3GPP Rel 8        | DC-HSDPA Subtest-2 | 20.17  | 20.47 | 20.24               | 21.50    | 21.58  | 21.71  | 21.66               | 22.50   | 23.80 | 23.76 | 23.60               | 24.50 |
| 3GPP Rel 8        | DC-HSDPA Subtest-3 | 19.86  | 19.84 | 19.70               | 21.00    | 21.06  | 21.04  | 20.92               | 22.00   | 23.27 | 23.22 | 23.27               | 24.00 |
| 3GPP Rel 8        | DC-HSDPA Subtest-4 | 20.06  | 19.86 | 19.69               | 21.00    | 21.09  | 21.36  | 21.22               | 22.00   | 23.29 | 23.00 | 23.23               | 24.00 |
| 3GPP Rel 6        | HSUPA Subtest-1    | 20.23  | 20.41 | 20.09               | 21.50    | 21.67  | 21.73  | 21.59               | 22.50   | 23.74 | 23.72 | 23.62               | 24.50 |
| 3GPP Rel 6        | HSUPA Subtest-2    | 18.34  | 18.37 | 18.15               | 19.50    | 19.58  | 19.63  | 19.68               | 20.50   | 21.74 | 21.70 | 21.64               | 22.50 |
| 3GPP Rel 6        | HSUPA Subtest-3    | 19.19  | 19.44 | 19.12               | 20.50    | 20.60  | 20.59  | 20.77               | 21.50   | 22.71 | 22.73 | 22.65               | 23.50 |
| 3GPP Rel 6        | HSUPA Subtest-4    | 18.42  | 18.37 | 18.35               | 19.50    | 19.70  | 19.70  | 19.64               | 20.50   | 21.72 | 21.77 | 21.67               | 22.50 |
| 3GPP Rel 6        | HSUPA Subtest-5    | 20.24  | 20.35 | 20.08               | 21.50    | 21.58  | 21.63  | 21.66               | 22.50   | 23.70 | 23.65 | 23.60               | 24.50 |



| Band 2 Ant4 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          |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |
| 20               | QPSK       | 1       | 0         | 20.07                 | 20.22                    | 20.08                  | 21                  | 0        |  |  |  |  |  |  |
| 20               | QPSK       | 1       | 49        | 20.04                 | 19.97                    | 19.98                  |                     |          |  |  |  |  |  |  |
| 20               | QPSK       | 1       | 99        | 19.92                 | 19.93                    | 19.89                  |                     |          |  |  |  |  |  |  |
| 20               | QPSK       | 50      | 0         | 20.12                 | 20.19                    | 20.03                  |                     |          |  |  |  |  |  |  |
| 20               | QPSK       | 50      | 24        | 20.15                 | 20.04                    | 20.04                  | 21                  | 0        |  |  |  |  |  |  |
| 20               | QPSK       | 50      | 50        | 20.07                 | 20.01                    | 19.91                  |                     |          |  |  |  |  |  |  |
| 20               | QPSK       | 100     | 0         | 20.16                 | 20.17                    | 20.02                  |                     |          |  |  |  |  |  |  |
| 20               | 16QAM      | 1       | 0         | 20.16                 | 20.11                    | 20.14                  |                     |          |  |  |  |  |  |  |
| 20               | 16QAM      | 1       | 49        | 20.18                 | 20.12                    | 20.21                  | 21                  | 0        |  |  |  |  |  |  |
| 20               | 16QAM      | 1       | 99        | 20.17                 | 20.21                    | 20.11                  |                     |          |  |  |  |  |  |  |
| 20               | 16QAM      | 50      | 0         | 20.21                 | 20.13                    | 20.04                  |                     |          |  |  |  |  |  |  |
| 20               | 16QAM      | 50      | 24        | 20.20                 | 20.03                    | 20.06                  |                     |          |  |  |  |  |  |  |
| 20               | 16QAM      | 50      | 50        | 20.07                 | 20.01                    | 19.91                  | 21                  | 0        |  |  |  |  |  |  |
| 20               | 16QAM      | 100     | 0         | 20.16                 | 20.02                    | 20.05                  |                     |          |  |  |  |  |  |  |
| 20               | 64QAM      | 1       | 0         | 20.10                 | 20.21                    | 20.20                  |                     |          |  |  |  |  |  |  |
| 20               | 64QAM      | 1       | 49        | 20.14                 | 20.19                    | 20.04                  |                     |          |  |  |  |  |  |  |
| 20               | 64QAM      | 1       | 99        | 20.13                 | 20.09                    | 19.94                  | 21                  | 0        |  |  |  |  |  |  |
| 20               | 64QAM      | 50      | 0         | 20.20                 | 20.11                    | 20.05                  |                     |          |  |  |  |  |  |  |
| 20               | 64QAM      | 50      | 24        | 20.18                 | 20.04                    | 20.05                  |                     |          |  |  |  |  |  |  |
| 20               | 64QAM      | 50      | 50        | 20.02                 | 19.98                    | 19.92                  |                     |          |  |  |  |  |  |  |
| 20               | 64QAM      | 100     | 0         | 20.19                 | 20.03                    | 20.05                  | 20.5                | 0.5      |  |  |  |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |
| 15               | QPSK       | 1       | 0         | 19.85                 | 19.80                    | 19.92                  | 21                  | 0        |  |  |  |  |  |  |
| 15               | QPSK       | 1       | 37        | 19.97                 | 19.87                    | 19.81                  |                     |          |  |  |  |  |  |  |
| 15               | QPSK       | 1       | 74        | 19.83                 | 19.90                    | 19.74                  |                     |          |  |  |  |  |  |  |
| 15               | QPSK       | 36      | 0         | 19.92                 | 20.09                    | 20.04                  |                     |          |  |  |  |  |  |  |
| 15               | QPSK       | 36      | 20        | 19.95                 | 19.85                    | 20.00                  | 21                  | 0        |  |  |  |  |  |  |
| 15               | QPSK       | 36      | 39        | 20.00                 | 20.01                    | 19.88                  |                     |          |  |  |  |  |  |  |
| 15               | QPSK       | 75      | 0         | 19.97                 | 20.16                    | 19.94                  |                     |          |  |  |  |  |  |  |
| 15               | 16QAM      | 1       | 0         | 20.08                 | 20.05                    | 19.97                  |                     |          |  |  |  |  |  |  |
| 15               | 16QAM      | 1       | 37        | 20.08                 | 20.05                    | 20.19                  | 21                  | 0        |  |  |  |  |  |  |
| 15               | 16QAM      | 1       | 74        | 20.16                 | 20.11                    | 19.89                  |                     |          |  |  |  |  |  |  |
| 15               | 16QAM      | 36      | 0         | 20.08                 | 20.06                    | 20.03                  |                     |          |  |  |  |  |  |  |
| 15               | 16QAM      | 36      | 20        | 20.03                 | 19.97                    | 19.99                  |                     |          |  |  |  |  |  |  |
| 15               | 16QAM      | 36      | 39        | 19.90                 | 19.82                    | 19.82                  | 21                  | 0        |  |  |  |  |  |  |
| 15               | 16QAM      | 75      | 0         | 19.99                 | 19.82                    | 19.98                  |                     |          |  |  |  |  |  |  |
| 15               | 64QAM      | 1       | 0         | 20.11                 | 20.09                    | 20.00                  |                     |          |  |  |  |  |  |  |
| 15               | 64QAM      | 1       | 37        | 20.06                 | 20.04                    | 20.01                  |                     |          |  |  |  |  |  |  |
| 15               | 64QAM      | 1       | 74        | 20.12                 | 20.04                    | 19.80                  | 20.5                | 0.5      |  |  |  |  |  |  |
| 15               | 64QAM      | 36      | 0         | 20.17                 | 20.09                    | 19.91                  |                     |          |  |  |  |  |  |  |
| 15               | 64QAM      | 36      | 20        | 19.99                 | 19.92                    | 20.01                  |                     |          |  |  |  |  |  |  |
| 15               | 64QAM      | 36      | 39        | 20.01                 | 19.82                    | 19.86                  |                     |          |  |  |  |  |  |  |
| 15               | 64QAM      | 75      | 0         | 20.09                 | 19.94                    | 19.92                  | 20.5                | 0.5      |  |  |  |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |
| 10               | QPSK       | 1       | 0         | 19.85                 | 19.80                    | 19.90                  | 21                  | 0        |  |  |  |  |  |  |
| 10               | QPSK       | 1       | 25        | 19.94                 | 19.84                    | 19.80                  |                     |          |  |  |  |  |  |  |
| 10               | QPSK       | 1       | 49        | 19.85                 | 19.72                    | 19.84                  |                     |          |  |  |  |  |  |  |
| 10               | QPSK       | 25      | 0         | 19.82                 | 20.16                    | 19.85                  |                     |          |  |  |  |  |  |  |
| 10               | QPSK       | 25      | 12        | 20.14                 | 19.85                    | 20.02                  | 21                  | 0        |  |  |  |  |  |  |
| 10               | QPSK       | 25      | 25        | 20.04                 | 20.00                    | 19.91                  |                     |          |  |  |  |  |  |  |
| 10               | QPSK       | 50      | 0         | 19.98                 | 20.04                    | 20.03                  |                     |          |  |  |  |  |  |  |
| 10               | 16QAM      | 1       | 0         | 20.03                 | 20.05                    | 20.09                  |                     |          |  |  |  |  |  |  |
| 10               | 16QAM      | 1       | 25        | 19.96                 | 20.11                    | 20.10                  | 21                  | 0        |  |  |  |  |  |  |
| 10               | 16QAM      | 1       | 49        | 20.00                 | 20.15                    | 20.07                  |                     |          |  |  |  |  |  |  |
| 10               | 16QAM      | 25      | 0         | 20.14                 | 20.12                    | 20.01                  |                     |          |  |  |  |  |  |  |
| 10               | 16QAM      | 25      | 12        | 20.02                 | 19.92                    | 19.94                  |                     |          |  |  |  |  |  |  |
| 10               | 16QAM      | 25      | 25        | 20.06                 | 19.80                    | 19.79                  | 21                  | 0        |  |  |  |  |  |  |
| 10               | 16QAM      | 50      | 0         | 20.06                 | 20.02                    | 20.02                  |                     |          |  |  |  |  |  |  |
| 10               | 64QAM      | 1       | 0         | 20.12                 | 20.18                    | 20.17                  |                     |          |  |  |  |  |  |  |
| 10               | 64QAM      | 1       | 25        | 20.11                 | 20.05                    | 19.89                  |                     |          |  |  |  |  |  |  |
| 10               | 64QAM      | 1       | 49        | 19.96                 | 20.05                    | 19.91                  | 20.5                | 0.5      |  |  |  |  |  |  |
| 10               | 64QAM      | 25      | 0         | 20.01                 | 20.09                    | 19.86                  |                     |          |  |  |  |  |  |  |
| 10               | 64QAM      | 25      | 12        | 19.97                 | 19.85                    | 19.98                  |                     |          |  |  |  |  |  |  |
| 10               | 64QAM      | 25      | 25        | 19.82                 | 19.96                    | 19.79                  |                     |          |  |  |  |  |  |  |
| 10               | 64QAM      | 50      | 0         | 20.08                 | 19.96                    | 19.86                  | 20.5                | 0.5      |  |  |  |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |
| 5                | QPSK       | 1       | 0         | 20.07                 | 20.07                    | 19.96                  | 21                  | 0        |  |  |  |  |  |  |
| 5                | QPSK       | 1       | 12        | 19.83                 | 19.98                    | 19.93                  |                     |          |  |  |  |  |  |  |
| 5                | QPSK       | 1       | 24        | 19.76                 | 19.72                    | 19.70                  |                     |          |  |  |  |  |  |  |
| 5                | QPSK       | 1       | 49        | 19.85                 | 19.72                    | 19.84                  |                     |          |  |  |  |  |  |  |
| 5                | QPSK       | 12      | 7         | 19.99                 | 19.95                    | 19.87                  | 21                  | 0        |  |  |  |  |  |  |
| 5                | QPSK       | 12      | 13        | 19.87                 | 19.81                    | 19.91                  |                     |          |  |  |  |  |  |  |
| 5                | QPSK       | 25      | 0         | 20.06                 | 19.99                    | 19.92                  |                     |          |  |  |  |  |  |  |
| 5                | 16QAM      | 1       | 0         | 20.04                 | 19.92                    | 20.06                  |                     |          |  |  |  |  |  |  |
| 5                | 16QAM      | 1       | 12        | 20.00                 | 19.88                    | 20.02                  | 21                  | 0        |  |  |  |  |  |  |
| 5                | 16QAM      | 1       | 24        | 20.18                 | 20.15                    | 19.97                  |                     |          |  |  |  |  |  |  |
| 5                | 16QAM      | 12      | 7         | 20.21                 | 19.95                    | 20.09                  |                     |          |  |  |  |  |  |  |
| 5                | 16QAM      | 12      | 13        | 20.01                 | 20.01                    | 19.84                  |                     |          |  |  |  |  |  |  |
| 5                | 16QAM      | 25      | 0         | 20.00                 | 19.87                    | 19.94                  | 21                  | 0        |  |  |  |  |  |  |
| 5                | 64QAM      | 1       | 0         | 20.03                 | 20.05                    | 20.07                  |                     |          |  |  |  |  |  |  |
| 5                | 64QAM      | 1       | 12        | 19.96                 | 20.14                    | 19.93                  |                     |          |  |  |  |  |  |  |
| 5                | 64QAM      | 1       | 24        | 20.01                 | 20.02                    | 19.84                  |                     |          |  |  |  |  |  |  |
| 5                | 64QAM      | 12      | 0         | 20.12                 | 20.04                    | 20.04                  | 20.5                | 0.5      |  |  |  |  |  |  |
| 5                | 64QAM      | 12      | 7         | 20.04                 | 19.86                    | 20.04                  |                     |          |  |  |  |  |  |  |
| 5                | 64QAM      | 12      | 13        | 20.05                 | 19.83                    | 19.78                  |                     |          |  |  |  |  |  |  |
| 5                | 64QAM      | 25      | 0         | 20.05                 | 19.95                    | 19.83                  |                     |          |  |  |  |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |
| 3                | QPSK       | 1       | 0         | 20.07                 | 20.05                    | 19.92                  | 21                  | 0        |  |  |  |  |  |  |
| 3                | QPSK       | 1       | 8         | 19.96                 | 19.84                    | 19.88                  |                     |          |  |  |  |  |  |  |
| 3                | QPSK       | 1       | 14        | 19.71                 | 19.72                    | 19.91                  |                     |          |  |  |  |  |  |  |
| 3                | QPSK       | 8       | 0         | 20.13                 | 20.20                    | 20.04                  |                     |          |  |  |  |  |  |  |
| 3                | QPSK       | 8       | 4         | 20.05                 | 19.86                    | 19.90                  | 21                  | 0        |  |  |  |  |  |  |
| 3                | QPSK       | 8       | 7         | 19.88                 | 19.87                    | 19.88                  |                     |          |  |  |  |  |  |  |
| 3                | QPSK       | 15      | 0         | 19.95                 | 20.04                    | 20.01                  |                     |          |  |  |  |  |  |  |
| 3                | 16QAM      | 1       | 0         | 19.97                 | 19.90                    | 19.98                  |                     |          |  |  |  |  |  |  |
| 3                | 16QAM      | 1       | 8         | 20.17                 | 19.96                    | 20.16                  | 21                  | 0        |  |  |  |  |  |  |
| 3                | 16QAM      | 1       | 14        | 20.15                 | 20.14                    | 20.00                  |                     |          |  |  |  |  |  |  |
| 3                | 16QAM      | 8       | 0         | 20.07                 | 20.05                    | 19.91                  |                     |          |  |  |  |  |  |  |
| 3                | 16QAM      | 8       | 4         | 20.15                 | 19.91                    | 20.04                  |                     |          |  |  |  |  |  |  |
| 3                | 16QAM      | 8       | 7         | 19.87                 | 19.98                    | 19.77                  | 21                  | 0        |  |  |  |  |  |  |
| 3                | 16QAM      | 15      | 0         | 20.09                 | 20.03                    | 20.02                  |                     |          |  |  |  |  |  |  |
| 3                | 64QAM      | 1       | 0         | 20.12                 | 20.12                    | 20.11                  |                     |          |  |  |  |  |  |  |
| 3                | 64QAM      | 1       | 8         | 19.86                 | 20.18                    | 20.02                  |                     |          |  |  |  |  |  |  |
| 3                | 64QAM      | 1       | 14        | 20.06                 | 19.90                    | 19.91                  | 21                  | 0        |  |  |  |  |  |  |
| 3                | 64QAM      | 8       | 0         | 20.17                 | 20.03                    | 20.03                  |                     |          |  |  |  |  |  |  |
| 3                | 64QAM      | 8       | 4         | 20.12                 | 20.00                    | 20.01                  |                     |          |  |  |  |  |  |  |
| 3                | 64QAM      | 8       | 7         | 19.92                 | 19.99                    | 19.81                  |                     |          |  |  |  |  |  |  |
| 3                | 64QAM      | 15      | 0         | 20.15                 | 19.82                    | 20.04                  | 20.5                | 0.5      |  |  |  |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |
| 1.4              | QPSK       | 1       | 0         | 19.807                | 19.80                    | 19.93                  | 21                  | 0        |  |  |  |  |  |  |
| 1.4              | QPSK       | 1       | 8         | 19.85                 | 19.88                    | 19.82                  |                     |          |  |  |  |  |  |  |
| 1.4              | QPSK       | 1       | 5         | 19.90                 | 19.83                    | 19.73                  |                     |          |  |  |  |  |  |  |
| 1.4              | QPSK       | 3       | 0         | 19.91                 | 20.05                    | 20.05                  |                     |          |  |  |  |  |  |  |
| 1.4              | QPSK       | 3       | 1         | 19.94                 | 19.95                    | 20.04                  | 21                  | 0        |  |  |  |  |  |  |
| 1.4              | QPSK       | 3       | 3         | 19.86                 | 19.86                    | 19.84                  |                     |          |  |  |  |  |  |  |
| 1.4              | QPSK       | 6       | 0         | 20.03                 | 20.03                    | 19.99                  |                     |          |  |  |  |  |  |  |
| 1.4              | 16QAM      | 1       | 0         | 20.04                 | 19.97                    | 20.05                  |                     |          |  |  |  |  |  |  |
| 1.4              | 16QAM      | 1       | 3         | 20.13                 | 20.05                    | 20.13                  | 20.5                | 0.5      |  |  |  |  |  |  |
| 1.4              | 16QAM      | 1       | 5         | 20.08                 | 20.04                    | 19.92                  |                     |          |  |  |  |  |  |  |
| 1.4              | 16QAM      | 3       | 0         | 20.01                 | 20.11                    | 19.90                  |                     |          |  |  |  |  |  |  |
| 1.4              | 16QAM      | 3       | 1         | 20.12                 | 19.95                    | 20.06                  |                     |          |  |  |  |  |  |  |
| 1.4              | 16QAM      | 3       | 3         | 20.04                 | 19.94                    | 19.75                  | 21                  | 0        |  |  |  |  |  |  |
| 1.4              | 16QAM      | 6       | 0         | 20.10                 | 19.91                    | 20.02                  |                     |          |  |  |  |  |  |  |
| 1.4              | 64QAM      | 1       | 0         | 20.04                 | 19.99                    | 20.00                  |                     |          |  |  |  |  |  |  |
| 1.4              | 64QAM      | 1       | 3         | 20.12                 | 20.11                    | 19.91                  |                     |          |  |  |  |  |  |  |
| 1.4              | 64QAM      | 1       | 5         | 20.07                 | 20.05                    | 19.75                  | 21                  | 0        |  |  |  |  |  |  |
| 1.4              | 64QAM      | 3       | 0         | 20.14                 | 19.93                    | 20.02                  |                     |          |  |  |  |  |  |  |
| 1.4              | 64QAM      | 3       | 1         | 19.97                 | 19.97                    | 19.96                  |                     |          |  |  |  |  |  |  |
| 1.4              | 64QAM      | 3       | 3         | 19.99                 | 19.82                    | 19.90                  |                     |          |  |  |  |  |  |  |
| 1.4              | 64QAM      | 6       | 0         | 20.15                 | 19.93                    | 19.90                  | 20.5                | 0.5      |  |  |  |  |  |  |
| Channel          |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |
| Frequency (MHz)  |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |



| Band 7 Ant4 DS14 |            |         |           |                          |                                |                           |                        |             |  |  |
|------------------|------------|---------|-----------|--------------------------|--------------------------------|---------------------------|------------------------|-------------|--|--|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit (dBm) | MPR<br>(dB) |  |  |
| Channel          |            |         |           | 20650                    | 21100                          | 21350                     |                        |             |  |  |
| Frequency (MHz)  |            |         |           | 20650                    | 2075                           | 20650                     |                        |             |  |  |
| 20               | QPSK       | 1       | 0         | 19.53                    | 19.77                          | 19.45                     | 20.5                   | 0           |  |  |
| 20               | QPSK       | 1       | 49        | 19.54                    | 19.56                          | 19.59                     |                        |             |  |  |
| 20               | QPSK       | 1       | 99        | 19.57                    | 19.60                          | 19.64                     |                        |             |  |  |
| 20               | QPSK       | 50      | 0         | 19.59                    | 19.74                          | 19.63                     | 20.5                   | 0           |  |  |
| 20               | QPSK       | 50      | 24        | 19.72                    | 19.66                          | 19.72                     |                        |             |  |  |
| 20               | QPSK       | 50      | 50        | 19.71                    | 19.67                          | 19.64                     |                        |             |  |  |
| 20               | QPSK       | 100     | 0         | 19.65                    | 19.70                          | 19.67                     | 20.5                   | 0           |  |  |
| 20               | 16QAM      | 1       | 0         | 19.73                    | 19.68                          | 19.72                     |                        |             |  |  |
| 20               | 16QAM      | 1       | 49        | 19.63                    | 19.62                          | 19.68                     |                        |             |  |  |
| 20               | 16QAM      | 1       | 99        | 19.66                    | 19.57                          | 19.62                     | 20.5                   | 0           |  |  |
| 20               | 16QAM      | 50      | 0         | 19.62                    | 19.64                          | 19.65                     |                        |             |  |  |
| 20               | 16QAM      | 50      | 24        | 19.73                    | 19.69                          | 19.73                     |                        |             |  |  |
| 20               | 16QAM      | 50      | 50        | 19.74                    | 19.76                          | 19.59                     | 20.5                   | 0           |  |  |
| 20               | 16QAM      | 100     | 0         | 19.73                    | 19.67                          | 19.73                     |                        |             |  |  |
| 20               | 64QAM      | 1       | 0         | 19.62                    | 19.60                          | 19.71                     |                        |             |  |  |
| 20               | 64QAM      | 1       | 49        | 19.76                    | 19.65                          | 19.63                     | 20.5                   | 0           |  |  |
| 20               | 64QAM      | 1       | 99        | 19.62                    | 19.61                          | 19.60                     |                        |             |  |  |
| 20               | 64QAM      | 50      | 0         | 19.61                    | 19.60                          | 19.63                     |                        |             |  |  |
| 20               | 64QAM      | 50      | 24        | 19.73                    | 19.66                          | 19.71                     | 20.5                   | 0           |  |  |
| 20               | 64QAM      | 50      | 50        | 19.74                    | 19.74                          | 19.70                     |                        |             |  |  |
| 20               | 64QAM      | 100     | 0         | 19.74                    | 19.65                          | 19.72                     |                        |             |  |  |
| Channel          |            |         |           | 20825                    | 21100                          | 21375                     | Tune-up<br>limit (dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz)  |            |         |           | 20825                    | 2075                           | 20825                     |                        |             |  |  |
| 15               | QPSK       | 1       | 0         | 19.33                    | 19.69                          | 19.40                     | 20.5                   | 0           |  |  |
| 15               | QPSK       | 1       | 37        | 19.35                    | 19.35                          | 19.40                     |                        |             |  |  |
| 15               | QPSK       | 1       | 74        | 19.39                    | 19.46                          | 19.59                     |                        |             |  |  |
| 15               | QPSK       | 36      | 0         | 19.39                    | 19.74                          | 19.55                     | 20.5                   | 0           |  |  |
| 15               | QPSK       | 36      | 20        | 19.68                    | 19.50                          | 19.70                     |                        |             |  |  |
| 15               | QPSK       | 36      | 39        | 19.71                    | 19.50                          | 19.62                     |                        |             |  |  |
| 15               | QPSK       | 75      | 0         | 19.63                    | 19.63                          | 19.60                     | 20.5                   | 0           |  |  |
| 15               | 16QAM      | 1       | 0         | 19.74                    | 19.56                          | 19.65                     |                        |             |  |  |
| 15               | 16QAM      | 1       | 37        | 19.62                    | 19.52                          | 19.63                     |                        |             |  |  |
| 15               | 16QAM      | 1       | 74        | 19.63                    | 19.40                          | 19.64                     | 20.5                   | 0           |  |  |
| 15               | 16QAM      | 36      | 0         | 19.55                    | 19.53                          | 19.56                     |                        |             |  |  |
| 15               | 16QAM      | 36      | 20        | 19.71                    | 19.52                          | 19.58                     |                        |             |  |  |
| 15               | 16QAM      | 36      | 39        | 19.64                    | 19.73                          | 19.56                     | 20.5                   | 0           |  |  |
| 15               | 16QAM      | 75      | 0         | 19.54                    | 19.56                          | 19.55                     |                        |             |  |  |
| 15               | 16QAM      | 1       | 0         | 19.54                    | 19.49                          | 19.66                     |                        |             |  |  |
| 15               | 64QAM      | 1       | 37        | 19.74                    | 19.45                          | 19.57                     | 20.5                   | 0           |  |  |
| 15               | 64QAM      | 1       | 74        | 19.49                    | 19.55                          | 19.46                     |                        |             |  |  |
| 15               | 64QAM      | 36      | 0         | 19.51                    | 19.47                          | 19.48                     |                        |             |  |  |
| 15               | 64QAM      | 36      | 20        | 19.54                    | 19.57                          | 19.62                     | 20.5                   | 0           |  |  |
| 15               | 64QAM      | 36      | 39        | 19.53                    | 19.58                          | 19.61                     |                        |             |  |  |
| 15               | 64QAM      | 75      | 0         | 19.60                    | 19.63                          | 19.69                     |                        |             |  |  |
| Channel          |            |         |           | 20900                    | 21100                          | 21400                     | Tune-up<br>limit (dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz)  |            |         |           | 20900                    | 2095                           | 2095                      |                        |             |  |  |
| 10               | QPSK       | 1       | 0         | 19.42                    | 19.59                          | 19.36                     | 20.5                   | 0           |  |  |
| 10               | QPSK       | 1       | 25        | 19.52                    | 19.57                          | 19.60                     |                        |             |  |  |
| 10               | QPSK       | 1       | 49        | 19.58                    | 19.62                          | 19.62                     |                        |             |  |  |
| 10               | QPSK       | 25      | 0         | 19.43                    | 19.66                          | 19.63                     | 20.5                   | 0           |  |  |
| 10               | QPSK       | 25      | 12        | 19.66                    | 19.50                          | 19.61                     |                        |             |  |  |
| 10               | QPSK       | 25      | 25        | 19.61                    | 19.50                          | 19.65                     |                        |             |  |  |
| 10               | QPSK       | 50      | 0         | 19.55                    | 19.64                          | 19.50                     | 20.5                   | 0           |  |  |
| 10               | 16QAM      | 1       | 0         | 19.69                    | 19.67                          | 19.62                     |                        |             |  |  |
| 10               | 16QAM      | 1       | 25        | 19.62                    | 19.42                          | 19.60                     |                        |             |  |  |
| 10               | 16QAM      | 1       | 49        | 19.57                    | 19.47                          | 19.46                     | 20.5                   | 0           |  |  |
| 10               | 16QAM      | 25      | 0         | 19.46                    | 19.53                          | 19.59                     |                        |             |  |  |
| 10               | 16QAM      | 25      | 12        | 19.57                    | 19.65                          | 19.69                     |                        |             |  |  |
| 10               | 16QAM      | 25      | 25        | 19.66                    | 19.61                          | 19.41                     | 20.5                   | 0           |  |  |
| 10               | 16QAM      | 50      | 0         | 19.51                    | 19.63                          | 19.54                     |                        |             |  |  |
| 10               | 64QAM      | 1       | 0         | 19.59                    | 19.40                          | 19.56                     |                        |             |  |  |
| 10               | 64QAM      | 1       | 25        | 19.56                    | 19.54                          | 19.53                     | 20.5                   | 0           |  |  |
| 10               | 64QAM      | 1       | 49        | 19.52                    | 19.46                          | 19.51                     |                        |             |  |  |
| 10               | 64QAM      | 25      | 0         | 19.46                    | 19.51                          | 19.63                     |                        |             |  |  |
| 10               | 64QAM      | 25      | 12        | 19.67                    | 19.52                          | 19.73                     | 20.5                   | 0           |  |  |
| 10               | 64QAM      | 25      | 25        | 19.62                    | 19.62                          | 19.58                     |                        |             |  |  |
| 10               | 64QAM      | 50      | 0         | 19.64                    | 19.49                          | 19.60                     |                        |             |  |  |
| Channel          |            |         |           | 20975                    | 21100                          | 21425                     | Tune-up<br>limit (dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz)  |            |         |           | 20975                    | 20925                          | 20975                     |                        |             |  |  |
| 5                | QPSK       | 1       | 0         | 19.49                    | 19.58                          | 19.23                     | 20.5                   | 0           |  |  |
| 5                | QPSK       | 1       | 12        | 19.54                    | 19.42                          | 19.47                     |                        |             |  |  |
| 5                | QPSK       | 1       | 24        | 19.52                    | 19.46                          | 19.52                     |                        |             |  |  |
| 5                | QPSK       | 12      | 0         | 19.42                    | 19.62                          | 19.56                     | 20.5                   | 0           |  |  |
| 5                | QPSK       | 12      | 7         | 19.66                    | 19.66                          | 19.50                     |                        |             |  |  |
| 5                | QPSK       | 12      | 13        | 19.59                    | 19.46                          | 19.63                     |                        |             |  |  |
| 5                | QPSK       | 25      | 0         | 19.44                    | 19.63                          | 19.59                     | 20.5                   | 0           |  |  |
| 5                | 16QAM      | 1       | 0         | 19.66                    | 19.65                          | 19.69                     |                        |             |  |  |
| 5                | 16QAM      | 1       | 12        | 19.56                    | 19.57                          | 19.54                     |                        |             |  |  |
| 5                | 16QAM      | 1       | 24        | 19.49                    | 19.47                          | 19.44                     | 20.5                   | 0           |  |  |
| 5                | 16QAM      | 12      | 0         | 19.61                    | 19.62                          | 19.43                     |                        |             |  |  |
| 5                | 16QAM      | 12      | 7         | 19.66                    | 19.55                          | 19.62                     |                        |             |  |  |
| 5                | 16QAM      | 12      | 13        | 19.54                    | 19.66                          | 19.40                     | 20.5                   | 0           |  |  |
| 5                | 16QAM      | 25      | 0         | 19.57                    | 19.47                          | 19.73                     |                        |             |  |  |
| 5                | 64QAM      | 1       | 0         | 19.62                    | 19.41                          | 19.73                     |                        |             |  |  |
| 5                | 64QAM      | 1       | 12        | 19.55                    | 19.47                          | 19.61                     | 20.5                   | 0           |  |  |
| 5                | 64QAM      | 1       | 24        | 19.55                    | 19.62                          | 19.39                     |                        |             |  |  |
| 5                | 64QAM      | 12      | 0         | 19.55                    | 19.51                          | 19.53                     |                        |             |  |  |
| 5                | 64QAM      | 12      | 7         | 19.52                    | 19.59                          | 19.62                     | 20.5                   | 0           |  |  |
| 5                | 64QAM      | 12      | 13        | 19.66                    | 19.71                          | 19.54                     |                        |             |  |  |
| 5                | 64QAM      | 25      | 0         | 19.54                    | 19.47                          | 19.60                     |                        |             |  |  |

| Band 12 Ant4 DS14 |            |         |           |             |       |              |       |             |       |                     |          |  |
|-------------------|------------|---------|-----------|-------------|-------|--------------|-------|-------------|-------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low   |       | Power Middle |       | Power High  |       | Tune-up limit (dBm) | MPR (dB) |  |
|                   |            |         |           | Ch. / Freq. | 23600 | Ch. / Freq.  | 23695 | Ch. / Freq. | 23730 |                     |          |  |
| Channel           |            |         |           | 707.5       |       | 707.5        |       | 711.5       |       | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 707.5       |       | 707.5        |       | 711.5       |       |                     |          |  |
| 10                | QPSK       | 1       | 0         | 24.58       | 24.76 | 24.57        |       |             |       | 25.5                | 0        |  |
| 10                | QPSK       | 1       | 25        | 24.54       | 24.54 | 24.37        |       |             |       |                     |          |  |
| 10                | QPSK       | 1       | 49        | 24.58       | 24.60 | 24.61        |       |             |       |                     |          |  |
| 10                | QPSK       | 25      | 0         | 23.57       | 23.78 | 23.63        |       |             |       | 24.5                | 1        |  |
| 10                | QPSK       | 25      | 12        | 23.76       | 23.61 | 23.47        |       |             |       |                     |          |  |
| 10                | QPSK       | 25      | 25        | 23.65       | 23.61 | 23.55        |       |             |       |                     |          |  |
| 10                | QPSK       | 50      | 0         | 23.70       | 23.73 | 23.68        |       |             |       | 24.5                | 1        |  |
| 10                | 16QAM      | 1       | 0         | 24.13       | 23.82 | 23.76        |       |             |       |                     |          |  |
| 10                | 16QAM      | 1       | 25        | 23.76       | 24.06 | 23.74        |       |             |       |                     |          |  |
| 10                | 16QAM      | 1       | 49        | 23.75       | 23.83 | 24.08        |       |             |       | 23.5                | 2        |  |
| 10                | 16QAM      | 25      | 0         | 22.66       | 22.56 | 22.56        |       |             |       |                     |          |  |
| 10                | 16QAM      | 25      | 12        | 22.81       | 22.75 | 22.50        |       |             |       |                     |          |  |
| 10                | 16QAM      | 25      | 25        | 22.69       | 22.58 | 22.60        |       |             |       | 23.5                | 2        |  |
| 10                | 16QAM      | 50      | 0         | 22.70       | 22.65 | 22.66        |       |             |       |                     |          |  |
| 10                | 64QAM      | 1       | 0         | 22.71       | 22.72 | 22.66        |       |             |       | 23.5                | 2        |  |
| 10                | 64QAM      | 1       | 25        | 22.59       | 22.75 | 22.63        |       |             |       |                     |          |  |
| 10                | 64QAM      | 1       | 49        | 22.61       | 22.68 | 22.61        |       |             |       |                     |          |  |
| 10                | 64QAM      | 25      | 0         | 21.69       | 21.62 | 21.56        |       |             |       | 22.5                | 3        |  |
| 10                | 64QAM      | 25      | 12        | 21.79       | 21.62 | 21.72        |       |             |       |                     |          |  |
| 10                | 64QAM      | 25      | 25        | 21.64       | 21.59 | 21.73        |       |             |       |                     |          |  |
| 10                | 64QAM      | 50      | 0         | 21.71       | 21.56 | 21.49        |       |             |       | 23.5                | 2        |  |
| Channel           |            |         |           | 23035       |       | 23095        |       | 23155       |       |                     |          |  |
| Frequency (MHz)   |            |         |           | 23035       |       | 2307.5       |       | 2313.5      |       |                     |          |  |
| 5                 | QPSK       | 1       | 0         | 24.50       | 24.75 | 24.70        |       |             |       | 25.5                | 0        |  |
| 5                 | QPSK       | 1       | 12        | 24.71       | 24.68 | 24.61        |       |             |       |                     |          |  |
| 5                 | QPSK       | 1       | 24        | 24.72       | 24.74 | 24.66        |       |             |       |                     |          |  |
| 5                 | QPSK       | 12      | 0         | 23.79       | 23.81 | 23.78        |       |             |       | 24.5                | 1        |  |
| 5                 | QPSK       | 12      | 7         | 23.77       | 23.83 | 23.79        |       |             |       |                     |          |  |
| 5                 | QPSK       | 12      | 13        | 23.89       | 23.80 | 23.72        |       |             |       |                     |          |  |
| 5                 | QPSK       | 25      | 0         | 23.68       | 23.75 | 23.77        |       |             |       | 24.5                | 1        |  |
| 5                 | 16QAM      | 1       | 0         | 23.63       | 23.76 | 23.65        |       |             |       |                     |          |  |
| 5                 | 16QAM      | 1       | 12        | 23.86       | 23.77 | 23.83        |       |             |       |                     |          |  |
| 5                 | 16QAM      | 1       | 24        | 23.73       | 23.87 | 23.86        |       |             |       | 23.5                | 2        |  |
| 5                 | 16QAM      | 12      | 0         | 22.86       | 22.82 | 22.72        |       |             |       |                     |          |  |
| 5                 | 16QAM      | 12      | 7         | 22.77       | 22.86 | 22.98        |       |             |       |                     |          |  |
| 5                 | 16QAM      | 12      | 13        | 22.67       | 22.79 | 22.75        |       |             |       | 23.5                | 2        |  |
| 5                 | 16QAM      | 25      | 0         | 22.85       | 22.82 | 22.67        |       |             |       |                     |          |  |
| 5                 | 16QAM      | 1       | 0         | 23.07       | 22.89 | 23.02        |       |             |       |                     |          |  |
| 5                 | 64QAM      | 1       | 12        | 22.75       | 22.90 | 22.98        |       |             |       | 22.5                | 3        |  |
| 5                 | 64QAM      | 1       | 24        | 22.81       | 23.07 | 23.10        |       |             |       |                     |          |  |
| 5                 | 64QAM      | 12      | 0         | 21.86       | 21.75 | 21.69        |       |             |       |                     |          |  |
| 5                 | 64QAM      | 12      | 7         | 22.02       | 21.74 | 21.85        |       |             |       | 22.5                | 3        |  |
| 5                 | 64QAM      | 12      | 13        | 21.71       | 21.69 | 21.63        |       |             |       |                     |          |  |
| 5                 | 64QAM      | 25      | 0         | 21.78       | 21.73 | 21.66        |       |             |       |                     |          |  |
| Channel           |            |         |           | 23025       |       | 23095        |       | 23165       |       |                     |          |  |
| Frequency (MHz)   |            |         |           | 700.5       |       | 707.5        |       | 714.5       |       |                     |          |  |
| 3                 | QPSK       | 1       | 0         | 24.54       | 24.72 | 24.55        |       |             |       | 25.5                | 0        |  |
| 3                 | QPSK       | 1       | 8         | 24.64       | 24.66 | 24.50        |       |             |       |                     |          |  |
| 3                 | QPSK       | 1       | 14        | 24.75       | 24.65 | 24.58        |       |             |       |                     |          |  |
| 3                 | QPSK       | 8       | 0         | 23.71       | 23.65 | 23.67        |       |             |       | 24.5                | 1        |  |
| 3                 | QPSK       | 8       | 4         | 23.77       | 23.70 | 23.63        |       |             |       |                     |          |  |
| 3                 | QPSK       | 8       | 7         | 23.79       | 23.65 | 23.68        |       |             |       |                     |          |  |
| 3                 | QPSK       | 15      | 0         | 23.74       | 23.62 | 23.55        |       |             |       | 24.5                | 1        |  |
| 3                 | 16QAM      | 1       | 0         | 23.42       | 23.79 | 23.62        |       |             |       |                     |          |  |
| 3                 | 16QAM      | 1       | 8         | 23.58       | 23.61 | 23.72        |       |             |       |                     |          |  |
| 3                 | 16QAM      | 1       | 14        | 23.67       | 23.59 | 23.78        |       |             |       | 23.5                | 2        |  |
| 3                 | 16QAM      | 8       | 0         | 22.72       | 22.63 | 22.46        |       |             |       |                     |          |  |
| 3                 | 16QAM      | 8       | 4         | 22.85       | 22.78 | 22.79        |       |             |       |                     |          |  |
| 3                 | 16QAM      | 15      | 0         | 22.81       | 22.83 | 22.64        |       |             |       | 23.5                | 2        |  |
| 3                 | 64QAM      | 1       | 0         | 22.62       | 22.81 | 22.55        |       |             |       |                     |          |  |
| 3                 | 64QAM      | 1       | 14        | 23.67       | 23.59 | 23.78        |       |             |       |                     |          |  |
| 3                 | 64QAM      | 1       | 14        | 22.71       | 22.82 | 22.87        |       |             |       | 22.5                | 3        |  |
| 3                 | 64QAM      | 8       | 0         | 21.76       | 21.67 | 21.70        |       |             |       |                     |          |  |
| 3                 | 64QAM      | 8       | 4         | 21.84       | 21.85 | 21.83        |       |             |       |                     |          |  |
| 3                 | 64QAM      | 8       | 7         | 21.74       | 21.54 | 21.72        |       |             |       | 23.5                | 2        |  |
| 3                 | 64QAM      | 15      | 0         | 21.86       | 21.62 | 21.51        |       |             |       |                     |          |  |
| 3                 | 64QAM      | 15      | 0         | 22.75       | 22.69 | 22.73        |       |             |       |                     |          |  |
| Channel           |            |         |           | 692.7       |       | 707.5        |       | 715.3       |       |                     |          |  |
| Frequency (MHz)   |            |         |           | 692.7       |       | 707.5        |       | 715.3       |       |                     |          |  |
| 1.4               | QPSK       | 1       | 0         | 24.62       | 24.70 | 24.42        |       |             |       | 25.5                | 0        |  |
| 1.4               | QPSK       | 1       | 3         | 24.56       | 24.57 | 24.60        |       |             |       |                     |          |  |
| 1.4               | QPSK       | 1       | 5         | 24.48       | 24.40 | 24.53        |       |             |       |                     |          |  |
| 1.4               | QPSK       | 3       | 0         | 24.65       | 24.57 | 24.42        |       |             |       | 24.5                | 1        |  |
| 1.4               | QPSK       | 3       | 1         | 24.74       | 24.60 | 24.58        |       |             |       |                     |          |  |
| 1.4               | QPSK       | 3       | 3         | 24.61       | 24.44 | 24.53        |       |             |       |                     |          |  |
| 1.4               | QPSK       | 6       | 0         | 23.71       | 23.50 | 23.53        |       |             |       | 23.5                | 2        |  |
| 1.4               | 16QAM      | 1       | 0         | 23.94       | 23.84 | 23.84        |       |             |       |                     |          |  |
| 1.4               | 16QAM      | 1       | 3         | 23.65       | 23.86 | 23.90        |       |             |       |                     |          |  |
| 1.4               | 16QAM      | 1       | 5         | 23.74       | 23.80 | 23.81        |       |             |       | 23.5                | 1        |  |
| 1.4               | 16QAM      | 3       | 0         | 23.81       | 23.71 | 23.66        |       |             |       |                     |          |  |
| 1.4               | 16QAM      | 3       | 1         | 23.67       | 23.83 | 23.79        |       |             |       |                     |          |  |
| 1.4               | 16QAM      | 3       | 3         | 23.77       | 23.65 | 23.60        |       |             |       | 23.5                | 2        |  |
| 1.4               | 16QAM      | 6       | 0         | 22.67       | 22.50 | 22.46        |       |             |       |                     |          |  |
| 1.4               | 64QAM      | 1       | 0         | 22.84       | 22.69 | 22.98        |       |             |       |                     |          |  |
| 1.4               | 64QAM      | 1       | 3         | 23.03       | 23.00 | 22.71        |       |             |       | 22.5                | 2        |  |
| 1.4               | 64QAM      | 1       | 5         | 22.76       | 22.64 | 22.82        |       |             |       |                     |          |  |
| 1.4               | 64QAM      | 3       | 0         | 22.74       | 22.59 | 22.78        |       |             |       |                     |          |  |
| 1.4               | 64QAM      | 3       | 1         | 22.80       | 22.68 | 22.67        |       |             |       | 22.5                | 3        |  |
| 1.4               | 64QAM      | 3       | 3         | 22.58       | 22.61 | 22.60        |       |             |       |                     |          |  |
| 1.4               | 64QAM      | 6       | 0         | 21.60       | 21.59 | 21.53        |       |             |       |                     |          |  |



| Band 17 Ant4 DS14 |            |         |           |                          |                             |                           |                           |             |  |
|-------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------------------|-------------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dbm)    | MPR<br>(db) |  |
| Channel           |            |         |           | 23760                    | 23790                       | 23800                     |                           |             |  |
| Frequency (MHz)   |            |         |           | 710                      | 710                         | 711                       |                           |             |  |
| 10                | QPSK       | 1       | 0         | 24.42                    | 24.74                       | 24.45                     | 25.5                      | 0           |  |
| 10                | QPSK       | 1       | 25        | 24.50                    | 24.45                       | 24.43                     |                           |             |  |
| 10                | QPSK       | 1       | 49        | 24.44                    | 24.51                       | 24.60                     |                           |             |  |
| 10                | QPSK       | 25      | 0         | 23.51                    | 23.67                       | 23.50                     | 24.5                      | 1           |  |
| 10                | QPSK       | 25      | 12        | 23.56                    | 23.53                       | 23.56                     |                           |             |  |
| 10                | QPSK       | 25      | 25        | 23.62                    | 23.61                       | 23.50                     |                           |             |  |
| 10                | QPSK       | 50      | 0         | 23.62                    | 23.66                       | 23.43                     | 24.5                      | 1           |  |
| 10                | 16QAM      | 1       | 0         | 23.63                    | 23.51                       | 23.76                     |                           |             |  |
| 10                | 16QAM      | 1       | 25        | 23.68                    | 23.64                       | 23.51                     |                           |             |  |
| 10                | 16QAM      | 1       | 49        | 23.40                    | 23.70                       | 23.62                     | 23.5                      | 2           |  |
| 10                | 16QAM      | 25      | 0         | 22.59                    | 22.58                       | 22.53                     |                           |             |  |
| 10                | 16QAM      | 25      | 12        | 22.59                    | 22.43                       | 22.56                     |                           |             |  |
| 10                | 16QAM      | 25      | 25        | 22.64                    | 22.73                       | 22.61                     | 23.5                      | 2           |  |
| 10                | 16QAM      | 50      | 0         | 22.57                    | 22.64                       | 22.48                     |                           |             |  |
| 10                | 64QAM      | 1       | 0         | 22.45                    | 22.50                       | 22.54                     |                           |             |  |
| 10                | 64QAM      | 1       | 25        | 22.71                    | 22.57                       | 22.59                     | 23.5                      | 2           |  |
| 10                | 64QAM      | 1       | 49        | 22.52                    | 22.54                       | 22.75                     |                           |             |  |
| 10                | 64QAM      | 25      | 0         | 21.43                    | 21.70                       | 21.49                     |                           |             |  |
| 10                | 64QAM      | 25      | 12        | 21.65                    | 21.60                       | 21.54                     | 22.5                      | 3           |  |
| 10                | 64QAM      | 25      | 25        | 21.66                    | 21.55                       | 21.70                     |                           |             |  |
| 10                | 64QAM      | 50      | 0         | 21.58                    | 21.52                       | 21.53                     |                           |             |  |
| Channel           |            |         |           | 23765                    | 23790                       | 23825                     | Tune-up<br>limit<br>(dbm) | MPR<br>(db) |  |
| Frequency (MHz)   |            |         |           | 706.5                    | 710                         | 713.5                     |                           |             |  |
| 5                 | QPSK       | 1       | 0         | 24.69                    | 24.67                       | 24.46                     | 25.5                      | 0           |  |
| 5                 | QPSK       | 1       | 12        | 24.39                    | 24.48                       | 24.37                     |                           |             |  |
| 5                 | QPSK       | 1       | 24        | 24.62                    | 24.53                       | 24.41                     |                           |             |  |
| 5                 | QPSK       | 12      | 0         | 23.56                    | 23.63                       | 23.52                     | 24.5                      | 1           |  |
| 5                 | QPSK       | 12      | 7         | 23.64                    | 23.63                       | 23.33                     |                           |             |  |
| 5                 | QPSK       | 12      | 13        | 23.56                    | 23.56                       | 23.68                     |                           |             |  |
| 5                 | QPSK       | 25      | 0         | 23.62                    | 23.53                       | 23.50                     | 24.5                      | 1           |  |
| 5                 | 16QAM      | 1       | 0         | 23.71                    | 23.73                       | 23.66                     |                           |             |  |
| 5                 | 16QAM      | 1       | 12        | 23.54                    | 23.38                       | 23.69                     |                           |             |  |
| 5                 | 16QAM      | 1       | 24        | 23.44                    | 23.51                       | 23.42                     | 23.5                      | 2           |  |
| 5                 | 16QAM      | 12      | 0         | 22.64                    | 22.73                       | 22.66                     |                           |             |  |
| 5                 | 16QAM      | 12      | 7         | 22.63                    | 22.71                       | 22.65                     |                           |             |  |
| 5                 | 16QAM      | 12      | 13        | 22.58                    | 22.69                       | 22.50                     | 23.5                      | 2           |  |
| 5                 | 16QAM      | 25      | 0         | 22.76                    | 22.68                       | 22.60                     |                           |             |  |
| 5                 | 64QAM      | 1       | 0         | 22.57                    | 22.55                       | 22.73                     |                           |             |  |
| 5                 | 64QAM      | 1       | 12        | 22.68                    | 22.61                       | 22.45                     | 23.5                      | 2           |  |
| 5                 | 64QAM      | 1       | 24        | 22.63                    | 22.76                       | 22.82                     |                           |             |  |
| 5                 | 64QAM      | 12      | 0         | 21.68                    | 21.77                       | 21.50                     |                           |             |  |
| 5                 | 64QAM      | 12      | 7         | 21.55                    | 21.81                       | 21.45                     | 22.5                      | 3           |  |
| 5                 | 64QAM      | 12      | 13        | 21.67                    | 21.63                       | 21.78                     |                           |             |  |
| 5                 | 64QAM      | 25      | 0         | 21.59                    | 21.43                       | 21.58                     |                           |             |  |

| Band 26 Ant4 DS14 |            |         |           |                          |                             |                           |                        |             |  |  |
|-------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|--|--|
| 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           |            |         |           | 26765                    | 26865                       | 26965                     |                        |             |  |  |
| Frequency (MHz)   |            |         |           | 821.5                    | 831.5                       | 841.5                     |                        |             |  |  |
| 15                | QPSK       | 1       | 0         | 24.42                    | 24.48                       | 24.38                     | 25.5                   | 0           |  |  |
| 15                | QPSK       | 1       | 37        | 24.36                    | 24.30                       | 24.34                     |                        |             |  |  |
| 15                | QPSK       | 1       | 74        | 24.38                    | 24.28                       | 24.23                     |                        |             |  |  |
| 15                | QPSK       | 36      | 0         | 23.52                    | 23.54                       | 23.26                     | 24.5                   | 1           |  |  |
| 15                | QPSK       | 36      | 20        | 23.30                    | 23.49                       | 23.28                     |                        |             |  |  |
| 15                | QPSK       | 36      | 39        | 23.31                    | 23.28                       | 23.36                     |                        |             |  |  |
| 15                | QPSK       | 75      | 0         | 23.39                    | 23.49                       | 23.43                     | 24.5                   | 1           |  |  |
| 15                | 16QAM      | 1       | 0         | 23.35                    | 23.48                       | 23.38                     |                        |             |  |  |
| 15                | 16QAM      | 1       | 37        | 23.24                    | 23.38                       | 23.34                     |                        |             |  |  |
| 15                | 16QAM      | 1       | 74        | 23.29                    | 23.46                       | 23.19                     | 23.5                   | 2           |  |  |
| 15                | 16QAM      | 36      | 0         | 22.44                    | 22.36                       | 22.28                     |                        |             |  |  |
| 15                | 16QAM      | 36      | 20        | 22.40                    | 22.33                       | 22.17                     |                        |             |  |  |
| 15                | 16QAM      | 36      | 39        | 22.35                    | 22.38                       | 22.17                     | 23.5                   | 2           |  |  |
| 15                | 16QAM      | 75      | 0         | 22.42                    | 22.37                       | 22.28                     |                        |             |  |  |
| 15                | 64QAM      | 1       | 0         | 22.32                    | 22.54                       | 22.38                     |                        |             |  |  |
| 15                | 64QAM      | 1       | 37        | 22.21                    | 22.35                       | 22.20                     | 23.5                   | 2           |  |  |
| 15                | 64QAM      | 1       | 74        | 22.33                    | 22.41                       | 22.31                     |                        |             |  |  |
| 15                | 64QAM      | 36      | 0         | 21.43                    | 21.55                       | 21.49                     |                        |             |  |  |
| 15                | 64QAM      | 36      | 20        | 21.33                    | 21.32                       | 21.35                     | 22.5                   | 3           |  |  |
| 15                | 64QAM      | 36      | 39        | 21.36                    | 21.29                       | 21.28                     |                        |             |  |  |
| 15                | 64QAM      | 75      | 0         | 21.32                    | 21.47                       | 21.47                     |                        |             |  |  |
| Channel           |            |         |           | 26740                    | 26865                       | 26960                     | Tune-up<br>limit (dbm) | MPR<br>(db) |  |  |
| Frequency (MHz)   |            |         |           | 819                      | 831.5                       | 844                       |                        |             |  |  |
| 10                | QPSK       | 1       | 0         | 24.37                    | 24.35                       | 24.35                     | 25.5                   | 0           |  |  |
| 10                | QPSK       | 1       | 25        | 24.21                    | 24.21                       | 24.25                     |                        |             |  |  |
| 10                | QPSK       | 1       | 49        | 24.25                    | 24.26                       | 24.07                     |                        |             |  |  |
| 10                | QPSK       | 25      | 0         | 23.39                    | 23.45                       | 23.11                     | 24.5                   | 1           |  |  |
| 10                | QPSK       | 25      | 12        | 23.23                    | 23.44                       | 23.23                     |                        |             |  |  |
| 10                | QPSK       | 25      | 25        | 23.12                    | 23.10                       | 23.35                     |                        |             |  |  |
| 10                | QPSK       | 50      | 0         | 23.36                    | 23.43                       | 23.32                     | 24.5                   | 1           |  |  |
| 10                | 16QAM      | 1       | 0         | 23.35                    | 23.32                       | 23.20                     |                        |             |  |  |
| 10                | 16QAM      | 1       | 25        | 23.16                    | 23.16                       | 23.16                     |                        |             |  |  |
| 10                | 16QAM      | 1       | 49        | 23.09                    | 23.42                       | 23.07                     | 23.5                   | 2           |  |  |
| 10                | 16QAM      | 25      | 0         | 22.40                    | 22.18                       | 22.21                     |                        |             |  |  |
| 10                | 16QAM      | 25      | 12        | 22.21                    | 22.28                       | 22.07                     |                        |             |  |  |
| 10                | 16QAM      | 25      | 25        | 22.27                    | 22.19                       | 22.09                     | 23.5                   | 2           |  |  |
| 10                | 16QAM      | 50      | 0         | 22.33                    | 22.36                       | 22.16                     |                        |             |  |  |
| 10                | 64QAM      | 1       | 0         | 22.28                    | 22.39                       | 22.26                     |                        |             |  |  |
| 10                | 64QAM      | 1       | 25        | 22.04                    | 22.27                       | 22.15                     | 23.5                   | 2           |  |  |
| 10                | 64QAM      | 1       | 49        | 22.13                    | 22.33                       | 22.14                     |                        |             |  |  |
| 10                | 64QAM      | 25      | 0         | 21.41                    | 21.38                       | 21.39                     |                        |             |  |  |
| 10                | 64QAM      | 25      | 12        | 21.29                    | 21.16                       | 21.20                     | 22.5                   | 3           |  |  |
| 10                | 64QAM      | 25      | 25        | 21.26                    | 21.28                       | 21.18                     |                        |             |  |  |
| 10                | 64QAM      | 50      | 0         | 21.15                    | 21.43                       | 21.34                     |                        |             |  |  |
| Channel           |            |         |           | 26715                    | 26865                       | 27015                     | Tune-up<br>limit (dbm) | MPR<br>(db) |  |  |
| Frequency (MHz)   |            |         |           | 816.5                    | 831.5                       | 846.5                     |                        |             |  |  |
| 5                 | QPSK       | 1       | 0         | 24.32                    | 24.39                       | 24.22                     | 25.5                   | 0           |  |  |
| 5                 | QPSK       | 1       | 12        | 24.29                    | 24.24                       | 24.41                     |                        |             |  |  |
| 5                 | QPSK       | 1       | 24        | 24.25                    | 24.20                       | 24.20                     |                        |             |  |  |
| 5                 | QPSK       | 12      | 0         | 23.35                    | 23.54                       | 23.22                     | 24.5                   | 1           |  |  |
| 5                 | QPSK       | 12      | 7         | 23.29                    | 23.45                       | 23.32                     |                        |             |  |  |
| 5                 | QPSK       | 12      | 13        | 23.16                    | 23.19                       | 23.29                     |                        |             |  |  |
| 5                 | QPSK       | 25      | 0         | 23.30                    | 23.37                       | 23.54                     | 24.5                   | 1           |  |  |
| 5                 | 16QAM      | 1       | 0         | 23.24                    | 23.32                       | 23.39                     |                        |             |  |  |
| 5                 | 16QAM      | 1       | 12        | 23.22                    | 23.34                       | 23.37                     |                        |             |  |  |
| 5                 | 16QAM      | 1       | 24        | 23.12                    | 23.33                       | 23.12                     | 23.5                   | 2           |  |  |
| 5                 | 16QAM      | 12      | 0         | 22.30                    | 22.41                       | 22.28                     |                        |             |  |  |
| 5                 | 16QAM      | 12      | 7         | 22.40                    | 22.33                       | 22.12                     |                        |             |  |  |
| 5                 | 16QAM      | 12      | 13        | 22.20                    | 22.25                       | 22.08                     | 23.5                   | 2           |  |  |
| 5                 | 16QAM      | 25      | 0         | 22.49                    | 22.30                       | 22.23                     |                        |             |  |  |
| 5                 | 64QAM      | 1       | 0         | 22.31                    | 22.51                       | 22.44                     |                        |             |  |  |
| 5                 | 64QAM      | 1       | 12        | 22.27                    | 22.31                       | 22.23                     | 23.5                   | 2           |  |  |
| 5                 | 64QAM      | 1       | 24        | 22.20                    | 22.36                       | 22.25                     |                        |             |  |  |
| 5                 | 64QAM      | 12      | 0         | 21.34                    | 21.43                       | 21.49                     |                        |             |  |  |
| 5                 | 64QAM      | 12      | 7         | 21.32                    | 21.32                       | 21.40                     | 22.5                   | 3           |  |  |
| 5                 | 64QAM      | 12      | 13        | 21.32                    | 21.33                       | 21.11                     |                        |             |  |  |
| 5                 | 64QAM      | 25      | 0         | 21.22                    | 21.40                       | 21.48                     |                        |             |  |  |
| Channel           |            |         |           | 26705                    | 26865                       | 27025                     | Tune-up<br>limit (dbm) | MPR<br>(db) |  |  |
| Frequency (MHz)   |            |         |           | 815.5                    | 831.5                       | 847.5                     |                        |             |  |  |
| 3                 | QPSK       | 1       | 0         | 24.41                    | 24.33                       | 24.40                     | 25.5                   | 0           |  |  |
| 3                 | QPSK       | 1       | 8         | 24.21                    | 24.14                       | 24.37                     |                        |             |  |  |
| 3                 | QPSK       | 1       | 14        | 24.39                    | 24.33                       | 24.10                     |                        |             |  |  |
| 3                 | QPSK       | 8       | 0         | 23.43                    | 23.41                       | 23.31                     | 24.5                   | 1           |  |  |
| 3                 | QPSK       | 8       | 4         | 23.21                    | 23.49                       | 23.12                     |                        |             |  |  |
| 3                 | QPSK       | 8       | 7         | 23.21                    | 23.34                       | 23.25                     |                        |             |  |  |
| 3                 | QPSK       | 15      | 0         | 23.30                    | 23.30                       | 23.33                     | 24.5                   | 1           |  |  |
| 3                 | 16QAM      | 1       | 0         | 23.23                    | 23.41                       | 23.32                     |                        |             |  |  |
| 3                 | 16QAM      | 1       | 8         | 23.13                    | 23.34                       | 23.39                     |                        |             |  |  |
| 3                 | 16QAM      | 1       | 14        | 23.24                    | 23.41                       | 23.22                     | 23.5                   | 2           |  |  |
| 3                 | 16QAM      | 8       | 0         | 22.38                    | 22.30                       | 22.20                     |                        |             |  |  |
| 3                 | 16QAM      | 8       | 4         | 22.28                    | 22.18                       | 22.07                     |                        |             |  |  |
| 3                 | 16QAM      | 8       | 7         | 22.28                    | 22.24                       | 22.17                     | 23.5                   | 2           |  |  |
| 3                 | 16QAM      | 15      | 0         | 22.46                    | 22.36                       | 22.31                     |                        |             |  |  |
| 3                 | 64QAM      | 1       | 0         | 22.22                    | 22.42                       | 22.40                     |                        |             |  |  |
| 3                 | 64QAM      | 1       | 8         | 22.26                    | 22.23                       | 22.13                     | 23.5                   | 2           |  |  |
| 3                 | 64QAM      | 1       | 14        | 22.34                    | 22.36                       | 22.22                     |                        |             |  |  |
| 3                 | 64QAM      | 8       | 0         | 21.40                    | 21.41                       | 21.55                     |                        |             |  |  |
| 3                 | 64QAM      | 8       | 4         | 21.19                    | 21.21                       | 21.22                     | 22.5                   | 3           |  |  |
| 3                 | 64QAM      | 8       | 7         | 21.43                    | 21.28                       | 21.24                     |                        |             |  |  |
| 3                 | 64QAM      | 15      | 0         | 21.34                    | 21.40                       | 21.45                     |                        |             |  |  |
| Channel           |            |         |           | 26697                    | 26865                       | 27033                     | Tune-up<br>limit (dbm) | MPR<br>(db) |  |  |
| Frequency (MHz)   |            |         |           | 814.7                    | 831.5                       | 848.3                     |                        |             |  |  |
| 1.4               | QPSK       | 1       | 0         | 24.40                    | 24.37                       | 24.31                     | 25.5                   | 0           |  |  |
| 1.4               | QPSK       | 1       | 3         | 24.25                    | 24.29                       | 24.28                     |                        |             |  |  |
| 1.4               | QPSK       | 1       | 5         | 24.23                    | 24.37                       | 24.10                     |                        |             |  |  |
| 1.4               | QPSK       | 3       | 0         | 24.32                    | 24.38                       | 24.20                     | 24.5                   | 1           |  |  |
| 1.4               | QPSK       | 3       | 1         | 24.27                    | 24.41                       | 24.26                     |                        |             |  |  |
| 1.4               | QPSK       | 3       | 3         | 24.40                    | 24.38                       | 24.15                     |                        |             |  |  |
| 1.4               | QPSK       | 6       | 0         | 23.52                    | 23.34                       | 23.28                     | 24.5                   | 1           |  |  |
| 1.4               | 16QAM      | 1       | 0         | 23.33                    | 23.35                       | 23.15                     |                        |             |  |  |
| 1.4               | 16QAM      | 1       | 3         | 23.17                    | 23.20                       | 23.16                     |                        |             |  |  |
| 1.4               | 16QAM      | 1       | 5         | 23.02                    | 23.21                       | 23.06                     | 24.5                   | 1           |  |  |
| 1.4               | 16QAM      | 3       | 0         | 23.23                    | 23.25                       | 23.21                     |                        |             |  |  |
| 1.4               | 16QAM      | 3       | 1         | 23.26                    | 23.28                       | 23.26                     |                        |             |  |  |
| 1.4               | 16QAM      | 3       | 3         | 23.31                    | 23.18                       | 23.06                     | 23.5                   | 2           |  |  |
| 1.4               | 16QAM      | 6       | 0         | 22.47                    | 22.23                       | 22.18                     |                        |             |  |  |
| 1.4               | 64QAM      | 1       | 0         | 22.33                    | 22.40                       | 22.42                     |                        |             |  |  |
| 1.4               | 64QAM      | 1       | 3         | 22.33                    | 22.27                       | 22.17                     | 23.5                   | 2           |  |  |
| 1.4               | 64QAM      | 1       | 5         | 22.26                    | 22.38                       | 22.24                     |                        |             |  |  |
| 1.4               | 64QAM      | 3       | 0         | 22.39                    | 22.35                       | 22.38                     |                        |             |  |  |
| 1.4               | 64QAM      | 3       | 1         | 22.34                    | 22.45                       | 22.26                     | 22.5                   | 3           |  |  |
| 1.4               | 64QAM      | 3       | 3         | 22.42                    | 22.30                       | 22.17                     |                        |             |  |  |
| 1.4               | 64QAM      | 6       | 0         | 21.51                    | 21.28                       | 21.18                     |                        |             |  |  |

| Band 38 Ant4 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)   |            |         |           | 2580                  | 2595                     | 2610                   |                     |                     |          |
| 20                | QPSK       | 1       | 0         | 21.21                 | 21.47                    | 21.19                  | 22                  | 0                   |          |
| 20                | QPSK       | 1       | 49        | 21.27                 | 21.15                    | 21.43                  |                     |                     |          |
| 20                | QPSK       | 1       | 99        | 21.27                 | 21.10                    | 21.13                  |                     |                     |          |
| 20                | QPSK       | 50      | 0         | 20.99                 | 21.29                    | 21.06                  |                     |                     |          |
| 20                | QPSK       | 50      | 24        | 21.16                 | 20.99                    | 21.21                  | 22                  | 0                   |          |
| 20                | QPSK       | 50      | 50        | 21.09                 | 20.92                    | 20.91                  |                     |                     |          |
| 20                | QPSK       | 100     | 0         | 20.81                 | 20.91                    | 20.84                  |                     |                     |          |
| 20                | 16QAM      | 1       | 0         | 20.96                 | 21.30                    | 21.03                  |                     |                     |          |
| 20                | 16QAM      | 1       | 49        | 21.10                 | 20.95                    | 21.28                  | 22                  | 0                   |          |
| 20                | 16QAM      | 1       | 99        | 21.09                 | 20.89                    | 20.87                  |                     |                     |          |
| 20                | 16QAM      | 50      | 0         | 20.39                 | 20.84                    | 20.50                  |                     |                     |          |
| 20                | 16QAM      | 50      | 24        | 20.56                 | 20.79                    | 20.65                  |                     |                     |          |
| 20                | 16QAM      | 50      | 50        | 20.66                 | 20.48                    | 20.38                  | 21.5                | 0.5                 |          |
| 20                | 16QAM      | 100     | 0         | 20.57                 | 20.40                    | 20.39                  |                     |                     |          |
| 20                | 64QAM      | 1       | 0         | 20.45                 | 20.82                    | 20.49                  |                     |                     |          |
| 20                | 64QAM      | 1       | 49        | 20.60                 | 20.80                    | 20.70                  |                     |                     |          |
| 20                | 64QAM      | 1       | 99        | 20.58                 | 20.41                    | 20.42                  | 21.5                | 0.5                 |          |
| 20                | 64QAM      | 50      | 0         | 19.49                 | 19.81                    | 19.48                  |                     |                     |          |
| 20                | 64QAM      | 50      | 24        | 19.48                 | 19.76                    | 19.75                  |                     |                     |          |
| 20                | 64QAM      | 50      | 50        | 19.71                 | 19.58                    | 19.44                  |                     |                     |          |
| 20                | 64QAM      | 100     | 0         | 19.51                 | 19.39                    | 19.38                  | 20.5                | 1.5                 |          |
| Channel           |            |         |           | 37825                 | 38000                    | 38175                  |                     |                     |          |
| Frequency (MHz)   |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |                     |          |
| 15                | QPSK       | 1       | 0         | 21.00                 | 21.27                    | 20.93                  | 22                  | 0                   |          |
| 15                | QPSK       | 1       | 37        | 21.17                 | 21.01                    | 21.21                  |                     |                     |          |
| 15                | QPSK       | 1       | 74        | 21.06                 | 20.81                    | 21.01                  |                     |                     |          |
| 15                | QPSK       | 36      | 0         | 20.72                 | 21.05                    | 20.83                  |                     |                     |          |
| 15                | QPSK       | 36      | 20        | 20.91                 | 20.70                    | 21.09                  | 22                  | 0                   |          |
| 15                | QPSK       | 36      | 39        | 20.90                 | 20.82                    | 20.78                  |                     |                     |          |
| 15                | QPSK       | 75      | 0         | 20.63                 | 20.64                    | 20.56                  |                     |                     |          |
| 15                | 16QAM      | 1       | 0         | 20.67                 | 21.06                    | 20.91                  |                     |                     |          |
| 15                | 16QAM      | 1       | 37        | 20.90                 | 20.85                    | 21.04                  | 22                  | 0                   |          |
| 15                | 16QAM      | 1       | 74        | 20.84                 | 20.64                    | 20.68                  |                     |                     |          |
| 15                | 16QAM      | 36      | 0         | 20.11                 | 20.58                    | 20.30                  |                     |                     |          |
| 15                | 16QAM      | 36      | 20        | 20.44                 | 20.60                    | 20.39                  |                     |                     |          |
| 15                | 16QAM      | 36      | 39        | 20.40                 | 20.35                    | 20.14                  | 21.5                | 0.5                 |          |
| 15                | 16QAM      | 75      | 0         | 20.40                 | 20.14                    | 20.12                  |                     |                     |          |
| 15                | 64QAM      | 1       | 0         | 20.34                 | 20.66                    | 20.23                  |                     |                     |          |
| 15                | 64QAM      | 1       | 37        | 20.40                 | 20.67                    | 20.41                  |                     |                     |          |
| 15                | 64QAM      | 1       | 74        | 20.37                 | 20.26                    | 20.24                  | 20.5                | 1.5                 |          |
| 15                | 64QAM      | 36      | 0         | 19.38                 | 19.68                    | 19.21                  |                     |                     |          |
| 15                | 64QAM      | 36      | 20        | 19.35                 | 19.48                    | 19.45                  |                     |                     |          |
| 15                | 64QAM      | 36      | 39        | 19.48                 | 19.36                    | 19.26                  |                     |                     |          |
| 15                | 64QAM      | 75      | 0         | 19.24                 | 19.28                    | 19.27                  | Channel             | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 37800                 | 38000                    | 38200                  |                     |                     |          |
| Frequency (MHz)   |            |         |           | 2575                  | 2595                     | 2615                   | 22                  | 0                   |          |
| 10                | QPSK       | 1       | 0         | 21.03                 | 21.29                    | 20.96                  |                     |                     |          |
| 10                | QPSK       | 1       | 25        | 21.03                 | 21.02                    | 21.30                  |                     |                     |          |
| 10                | QPSK       | 1       | 49        | 21.02                 | 20.81                    | 20.90                  |                     |                     |          |
| 10                | QPSK       | 25      | 0         | 20.71                 | 21.14                    | 20.91                  | 22                  | 0                   |          |
| 10                | QPSK       | 25      | 12        | 20.95                 | 20.87                    | 21.04                  |                     |                     |          |
| 10                | QPSK       | 25      | 25        | 20.87                 | 20.70                    | 20.72                  |                     |                     |          |
| 10                | QPSK       | 50      | 0         | 20.57                 | 20.64                    | 20.62                  |                     |                     |          |
| 10                | 16QAM      | 1       | 0         | 20.83                 | 21.13                    | 20.77                  | 22                  | 0                   |          |
| 10                | 16QAM      | 1       | 25        | 21.00                 | 20.76                    | 21.02                  |                     |                     |          |
| 10                | 16QAM      | 1       | 49        | 20.90                 | 20.68                    | 20.64                  |                     |                     |          |
| 10                | 16QAM      | 25      | 0         | 20.52                 | 20.71                    | 20.33                  |                     |                     |          |
| 10                | 16QAM      | 25      | 12        | 20.28                 | 20.60                    | 20.37                  | 21.5                | 0.5                 |          |
| 10                | 16QAM      | 25      | 25        | 20.50                 | 20.35                    | 20.33                  |                     |                     |          |
| 10                | 16QAM      | 50      | 0         | 20.29                 | 20.24                    | 20.10                  |                     |                     |          |
| 10                | 64QAM      | 1       | 0         | 20.29                 | 20.60                    | 20.36                  |                     |                     |          |
| 10                | 64QAM      | 1       | 25        | 20.37                 | 20.58                    | 20.46                  | 21.5                | 0.5                 |          |
| 10                | 64QAM      | 1       | 49        | 20.47                 | 20.26                    | 20.28                  |                     |                     |          |
| 10                | 64QAM      | 25      | 0         | 19.21                 | 19.61                    | 19.21                  |                     |                     |          |
| 10                | 64QAM      | 25      | 12        | 19.20                 | 19.48                    | 19.48                  |                     |                     |          |
| 10                | 64QAM      | 25      | 25        | 19.59                 | 19.43                    | 19.32                  | 20.5                | 1.5                 |          |
| 10                | 64QAM      | 50      | 0         | 19.32                 | 19.11                    | 19.09                  |                     |                     |          |
| Channel           |            |         |           | 37775                 | 38000                    | 38225                  |                     |                     |          |
| Frequency (MHz)   |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |                     |          |
| 5                 | QPSK       | 1       | 0         | 21.04                 | 21.28                    | 20.96                  | 22                  | 0                   |          |
| 5                 | QPSK       | 1       | 12        | 21.16                 | 21.01                    | 21.14                  |                     |                     |          |
| 5                 | QPSK       | 1       | 24        | 21.02                 | 20.98                    | 21.00                  |                     |                     |          |
| 5                 | QPSK       | 12      | 0         | 20.77                 | 21.07                    | 20.81                  |                     |                     |          |
| 5                 | QPSK       | 12      | 7         | 20.91                 | 20.84                    | 20.95                  | 22                  | 0                   |          |
| 5                 | QPSK       | 12      | 13        | 20.94                 | 20.68                    | 20.80                  |                     |                     |          |
| 5                 | QPSK       | 25      | 0         | 20.56                 | 20.81                    | 20.59                  |                     |                     |          |
| 5                 | 16QAM      | 1       | 0         | 20.81                 | 21.01                    | 20.73                  |                     |                     |          |
| 5                 | 16QAM      | 1       | 12        | 20.85                 | 20.71                    | 20.58                  | 22                  | 0                   |          |
| 5                 | 16QAM      | 1       | 24        | 20.62                 | 20.69                    | 20.65                  |                     |                     |          |
| 5                 | 16QAM      | 12      | 0         | 20.15                 | 20.56                    | 20.37                  |                     |                     |          |
| 5                 | 16QAM      | 12      | 7         | 20.35                 | 20.42                    | 20.38                  |                     |                     |          |
| 5                 | 16QAM      | 12      | 13        | 20.39                 | 20.22                    | 20.13                  | 21.5                | 0.5                 |          |
| 5                 | 16QAM      | 25      | 0         | 20.38                 | 20.19                    | 20.17                  |                     |                     |          |
| 5                 | 64QAM      | 1       | 0         | 20.52                 | 20.70                    | 20.36                  |                     |                     |          |
| 5                 | 64QAM      | 1       | 12        | 20.32                 | 20.61                    | 20.51                  |                     |                     |          |
| 5                 | 64QAM      | 1       | 24        | 20.38                 | 20.26                    | 20.30                  | 20.5                | 1.5                 |          |
| 5                 | 64QAM      | 12      | 0         | 19.27                 | 19.58                    | 19.24                  |                     |                     |          |
| 5                 | 64QAM      | 12      | 7         | 19.25                 | 19.54                    | 19.52                  |                     |                     |          |
| 5                 | 64QAM      | 12      | 13        | 19.54                 | 19.38                    | 19.25                  |                     |                     |          |
| 5                 | 64QAM      | 25      | 0         | 19.27                 | 19.19                    | 19.21                  |                     |                     |          |

| Band 41 (2.6G Band) Ant4 DS14 |            |         |           |                       |                              |                               |                        |                     |                     |
|-------------------------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|---------------------|
| BW [MHz]                      | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Low Ch. / Freq. | Power Middle High Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |
| Channel                       |            |         |           | 40240                 | 40500                        | 40770                         | 41090                  | Tune-up limit (dBm) | MPR (dB)            |
| Frequency (MHz)               |            |         |           | 2555                  | 2581                         | 2608                          | 2640                   |                     |                     |
| 20                            | QPSK       | 1       | 0         | 21.23                 | 21.30                        | 21.62                         | 21.52                  | 22                  | 0                   |
| 20                            | QPSK       | 1       | 49        | 21.46                 | 21.59                        | 21.50                         | 21.37                  |                     |                     |
| 20                            | QPSK       | 1       | 99        | 21.27                 | 21.32                        | 21.50                         | 21.42                  |                     |                     |
| 20                            | QPSK       | 50      | 0         | 20.47                 | 20.47                        | 20.68                         | 20.44                  |                     |                     |
| 20                            | QPSK       | 50      | 24        | 20.37                 | 20.57                        | 20.51                         | 20.53                  | 22                  | 0                   |
| 20                            | QPSK       | 50      | 50        | 20.41                 | 20.54                        | 20.58                         | 20.54                  |                     |                     |
| 20                            | QPSK       | 100     | 0         | 20.55                 | 20.56                        | 20.69                         | 20.53                  |                     |                     |
| 20                            | 16QAM      | 1       | 0         | 20.48                 | 20.60                        | 20.71                         | 20.55                  |                     |                     |
| 20                            | 16QAM      | 1       | 49        | 20.54                 | 20.60                        | 20.68                         | 20.65                  | 22                  | 0                   |
| 20                            | 16QAM      | 1       | 99        | 20.35                 | 20.60                        | 20.48                         | 20.52                  |                     |                     |
| 20                            | 16QAM      | 50      | 0         | 19.86                 | 19.84                        | 20.25                         | 20.01                  |                     |                     |
| 20                            | 16QAM      | 50      | 24        | 19.81                 | 20.13                        | 19.94                         | 20.06                  |                     |                     |
| 20                            | 16QAM      | 50      | 50        | 19.81                 | 20.06                        | 20.08                         | 20.09                  | 21.5                | 0.5                 |
| 20                            | 16QAM      | 100     | 0         | 20.13                 | 20.06                        | 20.10                         | 20.04                  |                     |                     |
| 20                            | 64QAM      | 1       | 0         | 19.93                 | 19.89                        | 20.27                         | 20.02                  |                     |                     |
| 20                            | 64QAM      | 1       | 49        | 19.92                 | 20.11                        | 19.99                         | 19.98                  |                     |                     |
| 20                            | 64QAM      | 1       | 99        | 19.80                 | 19.93                        | 20.05                         | 20.03                  | 21.5                | 0.5                 |
| 20                            | 64QAM      | 50      | 0         | 18.91                 | 18.86                        | 19.19                         | 19.02                  |                     |                     |
| 20                            | 64QAM      | 50      | 24        | 18.77                 | 19.10                        | 18.93                         | 19.03                  |                     |                     |
| 20                            | 64QAM      | 50      | 50        | 18.86                 | 19.05                        | 19.11                         | 19.15                  |                     |                     |
| 20                            | 64QAM      | 100     | 0         | 19.18                 | 19.06                        | 19.12                         | 19.05                  | Channel             | Tune-up limit (dBm) |
| Frequency (MHz)               |            |         |           | 2552.5                | 2580.5                       | 2609.5                        | 2642.5                 |                     |                     |
| 15                            | QPSK       | 1       | 0         | 21.05                 | 21.13                        | 21.35                         | 21.28                  | 22                  | 0                   |
| 15                            | QPSK       | 1       | 37        | 21.22                 | 21.34                        | 21.27                         | 21.19                  |                     |                     |
| 15                            | QPSK       | 1       | 74        | 21.09                 | 21.10                        | 21.26                         | 21.15                  |                     |                     |
| 15                            | QPSK       | 36      | 0         | 20.20                 | 20.29                        | 20.55                         | 20.25                  |                     |                     |
| 15                            | QPSK       | 36      | 20        | 20.13                 | 20.36                        | 20.29                         | 20.36                  | 22                  | 0                   |
| 15                            | QPSK       | 36      | 39        | 20.21                 | 20.30                        | 20.39                         | 20.37                  |                     |                     |
| 15                            | QPSK       | 75      | 0         | 20.37                 | 20.41                        | 20.43                         | 20.28                  |                     |                     |
| 15                            | 16QAM      | 1       | 0         | 20.28                 | 20.35                        | 20.49                         | 20.28                  |                     |                     |
| 15                            | 16QAM      | 1       | 37        | 20.28                 | 20.34                        | 20.51                         | 20.47                  | 22                  | 0                   |
| 15                            | 16QAM      | 1       | 74        | 20.10                 | 20.42                        | 20.22                         | 20.38                  |                     |                     |
| 15                            | 16QAM      | 36      | 0         | 19.66                 | 19.60                        | 20.02                         | 19.87                  |                     |                     |
| 15                            | 16QAM      | 36      | 20        | 19.67                 | 19.90                        | 19.69                         | 19.83                  |                     |                     |
| 15                            | 16QAM      | 36      | 39        | 19.57                 | 19.81                        | 19.90                         | 19.93                  | 21.5                | 0.5                 |
| 15                            | 16QAM      | 75      | 0         | 19.97                 | 19.83                        | 19.89                         | 19.86                  |                     |                     |
| 15                            | 64QAM      | 1       | 0         | 19.69                 | 19.69                        | 20.03                         | 19.87                  | 21.5                | 0.5                 |
| 15                            | 64QAM      | 1       | 37        | 19.74                 | 19.94                        | 19.77                         | 19.81                  |                     |                     |
| 15                            | 64QAM      | 1       | 74        | 19.63                 | 19.67                        | 19.91                         | 19.84                  | 20.5                | 1.5                 |
| 15                            | 64QAM      | 36      | 0         | 18.72                 | 18.69                        | 18.96                         | 18.84                  |                     |                     |
| 15                            | 64QAM      | 36      | 20        | 18.55                 | 18.87                        | 18.70                         | 18.84                  |                     |                     |
| 15                            | 64QAM      | 36      | 39        | 18.70                 | 18.78                        | 18.85                         | 19.02                  |                     |                     |
| 15                            | 64QAM      | 75      | 0         | 18.93                 | 18.83                        | 18.87                         | 18.81                  | Channel             | Tune-up limit (dBm) |
| Frequency (MHz)               |            |         |           | 40190                 | 40490                        | 40790                         | 41140                  |                     |                     |
| 10                            | QPSK       | 1       | 0         | 20.98                 | 21.05                        | 21.39                         | 21.34                  | 22                  | 0                   |
| 10                            | QPSK       | 1       | 25        | 21.31                 | 21.42                        | 21.32                         | 21.15                  |                     |                     |
| 10                            | QPSK       | 1       | 49        | 21.13                 | 21.07                        | 21.35                         | 21.19                  |                     |                     |
| 10                            | QPSK       | 25      | 0         | 20.24                 | 20.31                        | 20.43                         | 20.24                  |                     |                     |
| 10                            | QPSK       | 25      | 12        | 20.21                 | 20.38                        | 20.36                         | 20.31                  | 22                  | 0                   |
| 10                            | QPSK       | 25      | 25        | 20.15                 | 20.36                        | 20.42                         | 20.29                  |                     |                     |
| 10                            | QPSK       | 50      | 0         | 20.34                 | 20.35                        | 20.45                         | 20.32                  |                     |                     |
| 10                            | 16QAM      | 1       | 0         | 20.26                 | 20.40                        | 20.50                         | 20.40                  |                     |                     |
| 10                            | 16QAM      | 1       | 25        | 20.31                 | 20.37                        | 20.50                         | 20.45                  | 22                  | 0                   |
| 10                            | 16QAM      | 1       | 49        | 20.17                 | 20.45                        | 20.27                         | 20.31                  |                     |                     |
| 10                            | 16QAM      | 25      | 0         | 19.61                 | 19.64                        | 20.09                         | 19.84                  |                     |                     |
| 10                            | 16QAM      | 25      | 12        | 19.63                 | 19.93                        | 19.78                         | 19.87                  |                     |                     |
| 10                            | 16QAM      | 25      | 25        | 19.65                 | 19.90                        | 19.86                         | 19.92                  | 21.5                | 0.5                 |
| 10                            | 16QAM      | 50      | 0         | 19.92                 | 19.82                        | 19.88                         | 19.82                  |                     |                     |
| 10                            | 64QAM      | 1       | 0         | 19.74                 | 19.66                        | 20.04                         | 19.86                  |                     |                     |
| 10                            | 64QAM      | 1       | 25        | 19.71                 | 19.95                        | 19.75                         | 19.77                  |                     |                     |
| 10                            | 64QAM      | 1       | 49        | 19.62                 | 19.68                        | 19.82                         | 19.86                  | 21.5                | 0.5                 |
| 10                            | 64QAM      | 25      | 0         | 18.76                 | 18.64                        | 18.95                         | 18.88                  |                     |                     |
| 10                            | 64QAM      | 25      | 12        | 18.52                 | 18.85                        | 18.69                         | 18.87                  |                     |                     |
| 10                            | 64QAM      | 25      | 25        | 18.70                 | 18.89                        | 18.91                         | 18.92                  |                     |                     |
| 10                            | 64QAM      | 50      | 0         | 19.02                 | 18.87                        | 18.96                         | 18.90                  | Channel             | Tune-up limit (dBm) |
| Frequency (MHz)               |            |         |           | 40165                 | 40485                        | 40805                         | 41165                  |                     |                     |
| 5                             | QPSK       | 1       | 0         | 21.03                 | 21.15                        | 21.38                         | 21.34                  | 22                  | 0                   |
| 5                             | QPSK       | 1       | 12        | 21.22                 | 21.43                        | 21.25                         | 21.19                  |                     |                     |
| 5                             | QPSK       | 1       | 24        | 21.05                 | 21.10                        | 21.30                         | 21.21                  |                     |                     |
| 5                             | QPSK       | 12      | 0         | 20.29                 | 20.28                        | 20.44                         | 20.19                  |                     |                     |
| 5                             | QPSK       | 12      | 7         | 20.15                 | 20.37                        | 20.30                         | 20.20                  | 22                  | 0                   |
| 5                             | QPSK       | 12      | 13        | 20.16                 | 20.40                        | 20.33                         | 20.32                  |                     |                     |
| 5                             | QPSK       | 25      | 0         | 20.38                 | 20.34                        | 20.47                         | 20.30                  |                     |                     |
| 5                             | 16QAM      | 1       | 0         | 20.30                 | 20.35                        | 20.50                         | 20.39                  |                     |                     |
| 5                             | 16QAM      | 1       | 12        | 20.34                 | 20.43                        | 20.50                         | 20.41                  | 22                  | 0                   |
| 5                             | 16QAM      | 1       | 24        | 20.11                 | 20.42                        | 20.31                         | 20.33                  |                     |                     |
| 5                             | 16QAM      | 12      | 0         | 19.61                 | 19.59                        | 20.05                         | 19.84                  |                     |                     |
| 5                             | 16QAM      | 12      | 7         | 19.56                 | 19.87                        | 19.70                         | 19.82                  |                     |                     |
| 5                             | 16QAM      | 12      | 13        | 19.65                 | 19.86                        | 19.89                         | 19.85                  | 21.5                | 0.5                 |
| 5                             | 16QAM      | 25      | 0         | 19.92                 | 19.91                        | 19.93                         | 19.86                  |                     |                     |
| 5                             | 64QAM      | 1       | 0         | 19.77                 | 19.74                        | 20.02                         | 19.85                  |                     |                     |
| 5                             | 64QAM      | 1       | 12        | 19.73                 | 19.90                        | 19.80                         | 19.75                  |                     |                     |
| 5                             | 64QAM      | 1       | 24        | 19.62                 | 19.79                        | 19.83                         | 19.80                  | 21.5                | 0.5                 |
| 5                             | 64QAM      | 12      | 0         | 18.76                 | 18.64                        | 19.01                         | 18.82                  |                     |                     |
| 5                             | 64QAM      | 12      | 7         | 18.52                 | 18.94                        | 18.76                         | 18.80                  |                     |                     |
| 5                             | 64QAM      | 12      | 13        | 18.63                 | 18.85                        | 18.96                         | 18.91                  |                     |                     |
| 5                             | 64QAM      | 25      | 0         | 18.96                 | 18.84                        | 18.93                         | 18.79                  | 20.5                | 1.5                 |

| Band 42 Ant5 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           |            |         |           | 42190                 | 42590                    | 42990                  |                     |          |  |
| Frequency (MHz)   |            |         |           | 3460                  | 3500                     | 3540                   |                     |          |  |
| 20                | QPSK       | 1       | 0         | 21.66                 | 21.76                    | 21.72                  |                     | 22.5     |  |
| 20                | QPSK       | 1       | 49        | 21.58                 | 21.64                    | 21.54                  |                     |          |  |
| 20                | QPSK       | 1       | 99        | 21.52                 | 21.60                    | 21.50                  |                     |          |  |
| 20                | QPSK       | 50      | 0         | 21.67                 | 21.70                    | 21.67                  | 22.5                | 0        |  |
| 20                | QPSK       | 50      | 24        | 21.68                 | 21.69                    | 21.59                  |                     |          |  |
| 20                | QPSK       | 50      | 50        | 21.67                 | 21.73                    | 21.68                  |                     |          |  |
| 20                | QPSK       | 100     | 0         | 21.63                 | 21.64                    | 21.58                  | 22.5                | 0        |  |
| 20                | 16QAM      | 1       | 0         | 21.60                 | 21.63                    | 21.59                  |                     |          |  |
| 20                | 16QAM      | 1       | 49        | 21.55                 | 21.58                    | 21.47                  |                     |          |  |
| 20                | 16QAM      | 1       | 99        | 21.45                 | 21.54                    | 21.52                  | 22.5                | 0        |  |
| 20                | 16QAM      | 50      | 0         | 21.62                 | 21.71                    | 21.64                  |                     |          |  |
| 20                | 16QAM      | 50      | 24        | 21.63                 | 21.70                    | 21.68                  |                     |          |  |
| 20                | 16QAM      | 50      | 50        | 21.71                 | 21.75                    | 21.65                  | 22.5                | 0        |  |
| 20                | 16QAM      | 100     | 0         | 21.71                 | 21.70                    | 21.71                  |                     |          |  |
| 20                | 64QAM      | 1       | 0         | 21.19                 | 21.21                    | 21.15                  |                     |          |  |
| 20                | 64QAM      | 1       | 49        | 21.19                 | 21.24                    | 21.16                  | 22.5                | 0        |  |
| 20                | 64QAM      | 1       | 99        | 21.15                 | 21.24                    | 21.21                  |                     |          |  |
| 20                | 64QAM      | 50      | 0         | 21.19                 | 21.29                    | 21.19                  |                     |          |  |
| 20                | 64QAM      | 50      | 24        | 21.22                 | 21.26                    | 21.17                  | 22.5                | 0        |  |
| 20                | 64QAM      | 50      | 50        | 21.23                 | 21.30                    | 21.21                  |                     |          |  |
| 20                | 64QAM      | 100     | 0         | 21.27                 | 21.30                    | 21.21                  |                     |          |  |
| Channel           |            |         |           | 42165                 | 42590                    | 43015                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3457.5                | 3500                     | 3542.5                 |                     |          |  |
| 15                | QPSK       | 1       | 0         | 21.63                 | 21.72                    | 21.63                  |                     | 22.5     |  |
| 15                | QPSK       | 1       | 37        | 21.50                 | 21.58                    | 21.45                  |                     |          |  |
| 15                | QPSK       | 1       | 74        | 21.49                 | 21.52                    | 21.41                  |                     |          |  |
| 15                | QPSK       | 36      | 0         | 21.64                 | 21.60                    | 21.56                  | 22.5                | 0        |  |
| 15                | QPSK       | 36      | 20        | 21.64                 | 21.62                    | 21.56                  |                     |          |  |
| 15                | QPSK       | 36      | 39        | 21.62                 | 21.71                    | 21.65                  |                     |          |  |
| 15                | QPSK       | 75      | 0         | 21.60                 | 21.54                    | 21.51                  | 22.5                | 0        |  |
| 15                | 16QAM      | 1       | 0         | 21.59                 | 21.58                    | 21.52                  |                     |          |  |
| 15                | 16QAM      | 1       | 37        | 21.49                 | 21.50                    | 21.45                  |                     |          |  |
| 15                | 16QAM      | 1       | 74        | 21.42                 | 21.44                    | 21.46                  | 22.5                | 0        |  |
| 15                | 16QAM      | 36      | 0         | 21.57                 | 21.69                    | 21.56                  |                     |          |  |
| 15                | 16QAM      | 36      | 20        | 21.56                 | 21.60                    | 21.62                  |                     |          |  |
| 15                | 16QAM      | 36      | 39        | 21.64                 | 21.66                    | 21.57                  | 22.5                | 0        |  |
| 15                | 16QAM      | 75      | 0         | 21.67                 | 21.75                    | 21.66                  |                     |          |  |
| 15                | 64QAM      | 1       | 0         | 21.15                 | 21.14                    | 21.09                  |                     |          |  |
| 15                | 64QAM      | 1       | 37        | 21.11                 | 21.14                    | 21.07                  | 22.5                | 0        |  |
| 15                | 64QAM      | 1       | 74        | 21.10                 | 21.16                    | 21.15                  |                     |          |  |
| 15                | 64QAM      | 36      | 0         | 21.15                 | 21.20                    | 21.13                  |                     |          |  |
| 15                | 64QAM      | 36      | 20        | 21.15                 | 21.17                    | 21.13                  | 22.5                | 0        |  |
| 15                | 64QAM      | 36      | 39        | 21.22                 | 21.25                    | 21.16                  |                     |          |  |
| 15                | 64QAM      | 75      | 0         | 21.20                 | 21.27                    | 21.12                  |                     |          |  |
| Channel           |            |         |           | 42140                 | 42590                    | 43040                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3455                  | 3500                     | 3545                   |                     |          |  |
| 10                | QPSK       | 1       | 0         | 21.64                 | 21.67                    | 21.71                  |                     | 22.5     |  |
| 10                | QPSK       | 1       | 25        | 21.52                 | 21.59                    | 21.46                  |                     |          |  |
| 10                | QPSK       | 1       | 49        | 21.47                 | 21.51                    | 21.42                  |                     |          |  |
| 10                | QPSK       | 25      | 0         | 21.62                 | 21.62                    | 21.58                  | 22.5                | 0        |  |
| 10                | QPSK       | 25      | 12        | 21.62                 | 21.65                    | 21.51                  |                     |          |  |
| 10                | QPSK       | 25      | 25        | 21.66                 | 21.70                    | 21.61                  |                     |          |  |
| 10                | QPSK       | 50      | 0         | 21.53                 | 21.57                    | 21.54                  | 22.5                | 0        |  |
| 10                | 16QAM      | 1       | 0         | 21.50                 | 21.54                    | 21.56                  |                     |          |  |
| 10                | 16QAM      | 1       | 25        | 21.47                 | 21.49                    | 21.41                  |                     |          |  |
| 10                | 16QAM      | 1       | 49        | 21.39                 | 21.44                    | 21.41                  | 22.5                | 0        |  |
| 10                | 16QAM      | 25      | 0         | 21.55                 | 21.68                    | 21.54                  |                     |          |  |
| 10                | 16QAM      | 25      | 12        | 21.57                 | 21.60                    | 21.61                  |                     |          |  |
| 10                | 16QAM      | 25      | 25        | 21.67                 | 21.65                    | 21.63                  | 22.5                | 0        |  |
| 10                | 16QAM      | 50      | 0         | 21.66                 | 21.70                    | 21.66                  |                     |          |  |
| 10                | 64QAM      | 1       | 0         | 21.09                 | 21.18                    | 21.12                  |                     |          |  |
| 10                | 64QAM      | 1       | 25        | 21.13                 | 21.16                    | 21.15                  | 22.5                | 0        |  |
| 10                | 64QAM      | 1       | 49        | 21.09                 | 21.14                    | 21.12                  |                     |          |  |
| 10                | 64QAM      | 25      | 0         | 21.11                 | 21.25                    | 21.15                  |                     |          |  |
| 10                | 64QAM      | 25      | 12        | 21.15                 | 21.21                    | 21.07                  | 22.5                | 0        |  |
| 10                | 64QAM      | 25      | 25        | 21.22                 | 21.25                    | 21.15                  |                     |          |  |
| 10                | 64QAM      | 50      | 0         | 21.23                 | 21.21                    | 21.11                  |                     |          |  |
| Channel           |            |         |           | 42115                 | 42590                    | 43065                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3452.5                | 3500                     | 3547.5                 |                     |          |  |
| 5                 | QPSK       | 1       | 0         | 21.59                 | 21.68                    | 21.64                  |                     | 22.5     |  |
| 5                 | QPSK       | 1       | 12        | 21.47                 | 21.60                    | 21.49                  |                     |          |  |
| 5                 | QPSK       | 1       | 24        | 21.47                 | 21.58                    | 21.49                  |                     |          |  |
| 5                 | QPSK       | 12      | 0         | 21.65                 | 21.65                    | 21.60                  | 22.5                | 0        |  |
| 5                 | QPSK       | 12      | 7         | 21.64                 | 21.67                    | 21.54                  |                     |          |  |
| 5                 | QPSK       | 12      | 13        | 21.60                 | 21.64                    | 21.59                  |                     |          |  |
| 5                 | QPSK       | 25      | 0         | 21.59                 | 21.57                    | 21.48                  | 22.5                | 0        |  |
| 5                 | 16QAM      | 1       | 0         | 21.56                 | 21.52                    | 21.56                  |                     |          |  |
| 5                 | 16QAM      | 1       | 12        | 21.47                 | 21.47                    | 21.41                  |                     |          |  |
| 5                 | 16QAM      | 1       | 24        | 21.37                 | 21.48                    | 21.43                  | 22.5                | 0        |  |
| 5                 | 16QAM      | 12      | 0         | 21.51                 | 21.67                    | 21.62                  |                     |          |  |
| 5                 | 16QAM      | 12      | 7         | 21.59                 | 21.60                    | 21.59                  |                     |          |  |
| 5                 | 16QAM      | 12      | 13        | 21.64                 | 21.71                    | 21.55                  | 22.5                | 0        |  |
| 5                 | 16QAM      | 25      | 0         | 21.61                 | 21.68                    | 21.67                  |                     |          |  |
| 5                 | 64QAM      | 1       | 0         | 21.16                 | 21.10                    | 21.05                  |                     |          |  |
| 5                 | 64QAM      | 1       | 12        | 21.08                 | 21.16                    | 21.08                  | 22.5                | 0        |  |
| 5                 | 64QAM      | 1       | 24        | 21.05                 | 21.20                    | 21.20                  |                     |          |  |
| 5                 | 64QAM      | 12      | 0         | 21.08                 | 21.20                    | 21.18                  |                     |          |  |
| 5                 | 64QAM      | 12      | 7         | 21.18                 | 21.24                    | 21.08                  | 22.5                | 0        |  |
| 5                 | 64QAM      | 12      | 13        | 21.13                 | 21.28                    | 21.11                  |                     |          |  |
| 5                 | 64QAM      | 25      | 0         | 21.17                 | 21.21                    | 21.18                  |                     |          |  |





### Reduced power level for WWAN-ENDC

| Band 2 DSI1     |            |         |           |                       |                          |                        |                              |          |  |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|------------------------------|----------|--|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm)          | MPR (dB) |  |  |  |
| Channel         |            |         |           | 18700                 | 18900                    | 19100                  |                              |          |  |  |  |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                              |          |  |  |  |
| 20              | QPSK       | 1       | 0         | 15.50                 | 15.51                    | 15.42                  | 16.5                         | 0        |  |  |  |
| 20              | QPSK       | 1       | 48        | 15.37                 | 15.42                    | 15.34                  |                              |          |  |  |  |
| 20              | QPSK       | 1       | 96        | 15.23                 | 15.41                    | 15.36                  |                              |          |  |  |  |
| 20              | QPSK       | 50      | 0         | 15.30                 | 15.46                    | 15.44                  | 16.5                         | 0        |  |  |  |
| 20              | QPSK       | 50      | 24        | 15.40                 | 15.42                    | 15.25                  |                              |          |  |  |  |
| 20              | QPSK       | 50      | 50        | 15.17                 | 15.39                    | 15.31                  |                              |          |  |  |  |
| 20              | QPSK       | 100     | 0         | 15.27                 | 15.42                    | 15.23                  | 16.5                         | 0        |  |  |  |
| 20              | 16QAM      | 1       | 0         | 15.32                 | 15.38                    | 15.20                  |                              |          |  |  |  |
| 20              | 16QAM      | 1       | 48        | 15.37                 | 15.37                    | 15.25                  |                              |          |  |  |  |
| 20              | 16QAM      | 1       | 96        | 15.30                 | 15.31                    | 15.11                  | 16.5                         | 0        |  |  |  |
| 20              | 16QAM      | 50      | 0         | 15.29                 | 15.29                    | 15.29                  |                              |          |  |  |  |
| 20              | 16QAM      | 50      | 24        | 15.19                 | 15.31                    | 15.29                  |                              |          |  |  |  |
| 20              | 16QAM      | 50      | 50        | 15.17                 | 15.26                    | 15.23                  | 16.5                         | 0        |  |  |  |
| 20              | 16QAM      | 100     | 0         | 15.31                 | 15.32                    | 15.30                  |                              |          |  |  |  |
| 20              | 64QAM      | 1       | 0         | 15.19                 | 15.31                    | 15.16                  | 16.5                         | 0        |  |  |  |
| 20              | 64QAM      | 1       | 48        | 15.05                 | 15.23                    | 15.05                  |                              |          |  |  |  |
| 20              | 64QAM      | 1       | 96        | 15.35                 | 15.34                    | 15.33                  |                              |          |  |  |  |
| 20              | 64QAM      | 50      | 0         | 15.18                 | 15.29                    | 15.07                  | 16.5                         | 0        |  |  |  |
| 20              | 64QAM      | 50      | 24        | 15.21                 | 15.42                    | 15.20                  |                              |          |  |  |  |
| 20              | 64QAM      | 50      | 50        | 15.30                 | 15.32                    | 15.24                  |                              |          |  |  |  |
| 20              | 64QAM      | 100     | 0         | 15.33                 | 15.36                    | 15.32                  | Tune-up limit (dBm) MPR (dB) |          |  |  |  |
| Channel         |            |         |           | 1897.5                | 18900                    | 19125                  |                              |          |  |  |  |
| Frequency (MHz) |            |         |           | 1896.5                | 18900                    | 1902.5                 |                              |          |  |  |  |
| 15              | QPSK       | 1       | 0         | 15.31                 | 15.33                    | 15.28                  | 16.5                         | 0        |  |  |  |
| 15              | QPSK       | 1       | 37        | 15.21                 | 15.40                    | 15.23                  |                              |          |  |  |  |
| 15              | QPSK       | 1       | 74        | 15.18                 | 15.27                    | 15.15                  |                              |          |  |  |  |
| 15              | QPSK       | 36      | 0         | 15.16                 | 15.33                    | 15.34                  | 16.5                         | 0        |  |  |  |
| 15              | QPSK       | 36      | 20        | 15.23                 | 15.21                    | 15.18                  |                              |          |  |  |  |
| 15              | QPSK       | 36      | 39        | 15.04                 | 15.27                    | 15.28                  |                              |          |  |  |  |
| 15              | QPSK       | 75      | 0         | 15.22                 | 15.31                    | 15.11                  | 16.5                         | 0        |  |  |  |
| 15              | 16QAM      | 1       | 0         | 15.19                 | 15.19                    | 15.21                  |                              |          |  |  |  |
| 15              | 16QAM      | 1       | 37        | 15.27                 | 15.27                    | 15.00                  |                              |          |  |  |  |
| 15              | 16QAM      | 1       | 74        | 15.21                 | 15.15                    | 15.10                  | 16.5                         | 0        |  |  |  |
| 15              | 16QAM      | 36      | 0         | 15.24                 | 15.08                    | 15.22                  |                              |          |  |  |  |
| 15              | 16QAM      | 36      | 20        | 15.03                 | 15.11                    | 15.09                  |                              |          |  |  |  |
| 15              | 16QAM      | 36      | 39        | 15.08                 | 15.22                    | 15.19                  | 16.5                         | 0        |  |  |  |
| 15              | 16QAM      | 75      | 0         | 15.30                 | 15.32                    | 15.13                  |                              |          |  |  |  |
| 15              | 64QAM      | 1       | 0         | 15.19                 | 15.13                    | 15.04                  |                              |          |  |  |  |
| 15              | 64QAM      | 1       | 37        | 15.21                 | 15.14                    | 15.21                  | 16.5                         | 0        |  |  |  |
| 15              | 64QAM      | 1       | 74        | 15.14                 | 15.33                    | 15.28                  |                              |          |  |  |  |
| 15              | 64QAM      | 36      | 0         | 15.10                 | 15.29                    | 15.29                  |                              |          |  |  |  |
| 15              | 64QAM      | 36      | 20        | 15.16                 | 15.25                    | 15.12                  | 16.5                         | 0        |  |  |  |
| 15              | 64QAM      | 36      | 39        | 15.24                 | 15.34                    | 15.02                  |                              |          |  |  |  |
| 15              | 64QAM      | 75      | 0         | 15.13                 | 15.22                    | 15.26                  | Tune-up limit (dBm) MPR (dB) |          |  |  |  |
| Channel         |            |         |           | 1896.5                | 18900                    | 1902.5                 |                              |          |  |  |  |
| Frequency (MHz) |            |         |           | 1895                  | 18900                    | 1905                   |                              |          |  |  |  |
| 10              | QPSK       | 1       | 0         | 15.48                 | 15.45                    | 15.36                  | 16.5                         | 0        |  |  |  |
| 10              | QPSK       | 1       | 25        | 15.21                 | 15.41                    | 15.28                  |                              |          |  |  |  |
| 10              | QPSK       | 1       | 49        | 15.09                 | 15.33                    | 15.23                  |                              |          |  |  |  |
| 10              | QPSK       | 25      | 0         | 15.18                 | 15.38                    | 15.45                  | 16.5                         | 0        |  |  |  |
| 10              | QPSK       | 25      | 12        | 15.23                 | 15.22                    | 15.24                  |                              |          |  |  |  |
| 10              | QPSK       | 25      | 25        | 15.06                 | 15.28                    | 15.19                  |                              |          |  |  |  |
| 10              | QPSK       | 50      | 0         | 15.07                 | 15.25                    | 15.11                  | 16.5                         | 0        |  |  |  |
| 10              | 16QAM      | 1       | 0         | 15.28                 | 15.17                    | 15.15                  |                              |          |  |  |  |
| 10              | 16QAM      | 1       | 25        | 15.20                 | 15.17                    | 15.05                  |                              |          |  |  |  |
| 10              | 16QAM      | 1       | 49        | 15.25                 | 15.24                    | 15.10                  | 16.5                         | 0        |  |  |  |
| 10              | 16QAM      | 25      | 0         | 15.17                 | 15.13                    | 15.28                  |                              |          |  |  |  |
| 10              | 16QAM      | 25      | 12        | 15.11                 | 15.18                    | 15.09                  |                              |          |  |  |  |
| 10              | 16QAM      | 25      | 25        | 15.01                 | 15.04                    | 15.02                  | 16.5                         | 0        |  |  |  |
| 10              | 16QAM      | 50      | 0         | 15.11                 | 15.16                    | 15.12                  |                              |          |  |  |  |
| 10              | 64QAM      | 1       | 0         | 15.04                 | 15.15                    | 15.17                  |                              |          |  |  |  |
| 10              | 64QAM      | 1       | 25        | 15.16                 | 15.03                    | 15.21                  | 16.5                         | 0        |  |  |  |
| 10              | 64QAM      | 1       | 49        | 15.21                 | 15.32                    | 15.13                  |                              |          |  |  |  |
| 10              | 64QAM      | 25      | 0         | 15.01                 | 15.30                    | 15.04                  |                              |          |  |  |  |
| 10              | 64QAM      | 25      | 12        | 15.12                 | 15.35                    | 15.17                  | 16.5                         | 0        |  |  |  |
| 10              | 64QAM      | 25      | 25        | 15.08                 | 15.15                    | 15.11                  |                              |          |  |  |  |
| 10              | 64QAM      | 50      | 0         | 15.11                 | 15.23                    | 15.31                  | Tune-up limit (dBm) MPR (dB) |          |  |  |  |
| Channel         |            |         |           | 1892.5                | 18900                    | 1917.5                 |                              |          |  |  |  |
| Frequency (MHz) |            |         |           | 1892.5                | 18900                    | 1907.5                 |                              |          |  |  |  |
| 5               | QPSK       | 1       | 0         | 15.42                 | 15.33                    | 15.25                  | 16.5                         | 0        |  |  |  |
| 5               | QPSK       | 1       | 12        | 15.21                 | 15.39                    | 15.35                  |                              |          |  |  |  |
| 5               | QPSK       | 1       | 24        | 15.10                 | 15.30                    | 15.36                  |                              |          |  |  |  |
| 5               | QPSK       | 12      | 0         | 15.10                 | 15.27                    | 15.28                  | 16.5                         | 0        |  |  |  |
| 5               | QPSK       | 12      | 7         | 15.35                 | 15.41                    | 15.21                  |                              |          |  |  |  |
| 5               | QPSK       | 12      | 13        | 15.21                 | 15.39                    | 15.13                  |                              |          |  |  |  |
| 5               | QPSK       | 25      | 0         | 15.07                 | 15.25                    | 15.07                  | 16.5                         | 0        |  |  |  |
| 5               | 16QAM      | 1       | 0         | 15.15                 | 15.38                    | 15.15                  |                              |          |  |  |  |
| 5               | 16QAM      | 1       | 12        | 15.30                 | 15.18                    | 15.12                  |                              |          |  |  |  |
| 5               | 16QAM      | 1       | 24        | 15.13                 | 15.31                    | 15.32                  | 16.5                         | 0        |  |  |  |
| 5               | 16QAM      | 12      | 0         | 15.09                 | 15.25                    | 15.11                  |                              |          |  |  |  |
| 5               | 16QAM      | 12      | 7         | 15.05                 | 15.29                    | 15.26                  |                              |          |  |  |  |
| 5               | 16QAM      | 12      | 13        | 15.23                 | 15.23                    | 15.17                  | 16.5                         | 0        |  |  |  |
| 5               | 16QAM      | 25      | 0         | 15.29                 | 15.16                    | 15.10                  |                              |          |  |  |  |
| 5               | 64QAM      | 1       | 0         | 15.15                 | 15.23                    | 15.09                  |                              |          |  |  |  |
| 5               | 64QAM      | 1       | 12        | 15.02                 | 15.18                    | 15.23                  | 16.5                         | 0        |  |  |  |
| 5               | 64QAM      | 1       | 24        | 15.37                 | 15.23                    | 15.31                  |                              |          |  |  |  |
| 5               | 64QAM      | 12      | 0         | 15.21                 | 15.30                    | 15.32                  |                              |          |  |  |  |
| 5               | 64QAM      | 12      | 7         | 15.13                 | 15.42                    | 15.01                  | 16.5                         | 0        |  |  |  |
| 5               | 64QAM      | 12      | 13        | 15.14                 | 15.25                    | 15.03                  |                              |          |  |  |  |
| 5               | 64QAM      | 25      | 0         | 15.29                 | 15.23                    | 15.19                  | Tune-up limit (dBm) MPR (dB) |          |  |  |  |
| Channel         |            |         |           | 1891.5                | 18900                    | 1918.5                 |                              |          |  |  |  |
| Frequency (MHz) |            |         |           | 1891.5                | 18900                    | 1908.5                 |                              |          |  |  |  |
| 3               | QPSK       | 1       | 0         | 15.42                 | 15.36                    | 15.34                  | 16.5                         | 0        |  |  |  |
| 3               | QPSK       | 1       | 8         | 15.22                 | 15.40                    | 15.20                  |                              |          |  |  |  |
| 3               | QPSK       | 1       | 14        | 15.22                 | 15.39                    | 15.26                  |                              |          |  |  |  |
| 3               | QPSK       | 8       | 0         | 15.09                 | 15.37                    | 15.45                  | 16.5                         | 0        |  |  |  |
| 3               | QPSK       | 8       | 4         | 15.32                 | 15.30                    | 15.13                  |                              |          |  |  |  |
| 3               | QPSK       | 8       | 7         | 15.23                 | 15.33                    | 15.20                  |                              |          |  |  |  |
| 3               | QPSK       | 15      | 0         | 15.15                 | 15.32                    | 15.02                  | 16.5                         | 0        |  |  |  |
| 3               | 16QAM      | 1       | 0         | 15.22                 | 15.18                    | 15.19                  |                              |          |  |  |  |
| 3               | 16QAM      | 1       | 8         | 15.26                 | 15.35                    | 15.20                  |                              |          |  |  |  |
| 3               | 16QAM      | 1       | 14        | 15.19                 | 15.30                    | 15.27                  | 16.5                         | 0        |  |  |  |
| 3               | 16QAM      | 8       | 0         | 15.14                 | 15.21                    | 15.24                  |                              |          |  |  |  |
| 3               | 16QAM      | 8       | 4         | 15.17                 | 15.17                    | 15.08                  |                              |          |  |  |  |
| 3               | 16QAM      | 8       | 7         | 15.12                 | 15.27                    | 15.16                  | 16.5                         | 0        |  |  |  |
| 3               | 16QAM      | 15      | 0         | 15.31                 | 15.19                    | 15.20                  |                              |          |  |  |  |
| 3               | 64QAM      | 1       | 0         | 15.15                 | 15.16                    | 15.08                  |                              |          |  |  |  |
| 3               | 64QAM      | 1       | 8         | 15.32                 | 15.10                    | 15.32                  | 16.5                         | 0        |  |  |  |
| 3               | 64QAM      | 1       | 14        | 15.13                 | 15.30                    | 15.22                  |                              |          |  |  |  |
| 3               | 64QAM      | 8       | 0         | 15.13                 | 15.08                    | 15.18                  |                              |          |  |  |  |
| 3               | 64QAM      | 8       | 4         | 15.19                 | 15.27                    | 15.05                  | 16.5                         | 0        |  |  |  |
| 3               | 64QAM      | 8       | 7         | 15.27                 | 15.19                    | 15.25                  |                              |          |  |  |  |
| 3               | 64QAM      | 15      | 0         | 15.32                 | 15.32                    | 15.10                  |                              |          |  |  |  |
| Channel         |            |         |           | 1890.7                | 18900                    | 19193                  |                              |          |  |  |  |
| Frequency (MHz) |            |         |           | 1890.7                | 18900                    | 1909.3                 |                              |          |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 15.29                 | 15.48                    | 15.26                  | 16.5                         | 0        |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 15.37                 | 15.24                    | 15.27                  |                              |          |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 15.20                 | 15.39                    | 15.38                  |                              |          |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 15.13                 | 15.41                    | 15.30                  | 16.5                         | 0        |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 15.33                 | 15.25                    | 15.04                  |                              |          |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 15.00                 | 15.22                    | 15.29                  |                              |          |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 15.17                 | 15.40                    | 15.12                  | 16.5                         | 0        |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 15.25                 | 15.18                    | 15.11                  |                              |          |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 15.33                 | 15.25                    | 15.03                  | 16.5                         | 0        |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 15.29                 | 15.19                    | 15.10                  |                              |          |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 15.25                 | 15.08                    | 15.07                  |                              |          |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 15.11                 | 15.26                    | 15.23                  | 16.5                         | 0        |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 15.13                 | 15.10                    | 15.13                  |                              |          |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 15.27                 | 15.26                    | 15.19                  |                              |          |  |  |  |
| 1.4             | 64QAM      | 1       | 0         | 15.02                 | 15.30                    | 15.07                  | 16.5                         | 0        |  |  |  |
| 1.4             | 64QAM      | 1       | 3         | 15.00                 | 15.20                    | 15.26                  |                              |          |  |  |  |
| 1.4             | 64QAM      | 1       | 5         | 15.15                 | 15.24                    | 15.22                  |                              |          |  |  |  |
| 1.4             | 64QAM      | 3       | 0         | 15.05                 | 15.17                    | 15.03                  | 16.5                         | 0        |  |  |  |
| 1.4             | 64QAM      | 3       | 1         | 15.09                 | 15.32                    | 15.25                  |                              |          |  |  |  |
| 1.4             | 64QAM      | 3       | 3         | 15.09                 | 15.22                    | 15.08                  |                              |          |  |  |  |
| 1.4             | 64QAM      | 6       | 0         | 15.26                 | 15.14                    | 15.19                  | 16.5                         | 0        |  |  |  |



| Band 26 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         |            |         |           | 26765                 | 26865                    | 26965                  |                     |          |  |
| Frequency (MHz) |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |          |  |
| 15              | QPSK       | 1       | 0         | 21.43                 | 21.58                    | 21.43                  | 22.5                | 0        |  |
| 15              | QPSK       | 1       | 37        | 21.29                 | 21.34                    | 21.29                  |                     |          |  |
| 15              | QPSK       | 1       | 74        | 21.15                 | 21.30                    | 21.33                  |                     |          |  |
| 15              | QPSK       | 36      | 0         | 21.42                 | 21.53                    | 21.52                  | 22.5                | 0        |  |
| 15              | QPSK       | 36      | 20        | 21.50                 | 21.51                    | 21.29                  |                     |          |  |
| 15              | QPSK       | 36      | 39        | 21.19                 | 21.36                    | 21.36                  |                     |          |  |
| 15              | QPSK       | 75      | 0         | 21.35                 | 21.48                    | 21.25                  | 22.5                | 0        |  |
| 15              | 16QAM      | 1       | 0         | 21.34                 | 21.40                    | 21.19                  |                     |          |  |
| 15              | 16QAM      | 1       | 37        | 21.38                 | 21.33                    | 21.15                  |                     |          |  |
| 15              | 16QAM      | 1       | 74        | 21.29                 | 21.37                    | 21.18                  | 22.5                | 0        |  |
| 15              | 16QAM      | 36      | 0         | 21.28                 | 21.35                    | 21.38                  |                     |          |  |
| 15              | 16QAM      | 36      | 20        | 21.29                 | 21.37                    | 21.32                  |                     |          |  |
| 15              | 16QAM      | 36      | 39        | 21.08                 | 21.32                    | 21.18                  | 22.5                | 0        |  |
| 15              | 16QAM      | 75      | 0         | 21.30                 | 21.27                    | 21.20                  |                     |          |  |
| 15              | 64QAM      | 1       | 0         | 21.10                 | 21.28                    | 21.27                  | 22.5                | 0        |  |
| 15              | 64QAM      | 1       | 37        | 20.99                 | 21.19                    | 20.98                  |                     |          |  |
| 15              | 64QAM      | 1       | 74        | 21.39                 | 21.32                    | 21.22                  |                     |          |  |
| 15              | 64QAM      | 36      | 0         | 21.27                 | 21.31                    | 21.08                  | 22.5                | 0        |  |
| 15              | 64QAM      | 36      | 20        | 21.23                 | 21.35                    | 21.13                  |                     |          |  |
| 15              | 64QAM      | 36      | 39        | 21.27                 | 21.21                    | 21.14                  |                     |          |  |
| 15              | 64QAM      | 75      | 0         | 21.37                 | 21.41                    | 21.23                  | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 26740                 | 26855                    | 26960                  |                     |          |  |
| Frequency (MHz) |            |         |           | 819                   | 831.5                    | 844                    |                     |          |  |
| 10              | QPSK       | 1       | 0         | 21.32                 | 21.32                    | 21.25                  | 22.5                | 0        |  |
| 10              | QPSK       | 1       | 25        | 21.24                 | 21.20                    | 21.18                  |                     |          |  |
| 10              | QPSK       | 1       | 49        | 21.10                 | 21.30                    | 21.37                  |                     |          |  |
| 10              | QPSK       | 25      | 0         | 21.18                 | 21.31                    | 21.32                  | 22.5                | 0        |  |
| 10              | QPSK       | 25      | 12        | 21.25                 | 21.38                    | 21.08                  |                     |          |  |
| 10              | QPSK       | 25      | 25        | 21.10                 | 21.27                    | 21.10                  |                     |          |  |
| 10              | QPSK       | 50      | 0         | 21.25                 | 21.28                    | 21.20                  | 22.5                | 0        |  |
| 10              | 16QAM      | 1       | 0         | 21.14                 | 21.20                    | 21.14                  |                     |          |  |
| 10              | 16QAM      | 1       | 25        | 21.18                 | 21.20                    | 21.00                  |                     |          |  |
| 10              | 16QAM      | 1       | 49        | 21.28                 | 21.19                    | 21.07                  | 22.5                | 0        |  |
| 10              | 16QAM      | 25      | 0         | 21.10                 | 21.30                    | 21.18                  |                     |          |  |
| 10              | 16QAM      | 25      | 12        | 21.05                 | 21.31                    | 21.01                  |                     |          |  |
| 10              | 16QAM      | 25      | 25        | 21.17                 | 21.15                    | 21.03                  | 22.5                | 0        |  |
| 10              | 16QAM      | 50      | 0         | 21.30                 | 21.18                    | 21.25                  |                     |          |  |
| 10              | 64QAM      | 1       | 0         | 21.09                 | 21.17                    | 20.97                  |                     |          |  |
| 10              | 64QAM      | 1       | 25        | 20.87                 | 21.14                    | 20.99                  | 22.5                | 0        |  |
| 10              | 64QAM      | 1       | 49        | 21.21                 | 21.24                    | 21.30                  |                     |          |  |
| 10              | 64QAM      | 25      | 0         | 21.09                 | 21.22                    | 21.06                  |                     |          |  |
| 10              | 64QAM      | 25      | 12        | 21.09                 | 21.23                    | 21.01                  | 22.5                | 0        |  |
| 10              | 64QAM      | 25      | 25        | 21.16                 | 21.22                    | 21.19                  |                     |          |  |
| 10              | 64QAM      | 50      | 0         | 21.15                 | 21.26                    | 21.14                  |                     |          |  |
| Channel         |            |         |           | 26715                 | 26865                    | 27015                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 816.5                 | 831.5                    | 846.5                  |                     |          |  |
| 5               | QPSK       | 1       | 0         | 21.30                 | 21.39                    | 21.34                  | 22.5                | 0        |  |
| 5               | QPSK       | 1       | 12        | 21.37                 | 21.38                    | 21.34                  |                     |          |  |
| 5               | QPSK       | 1       | 24        | 21.11                 | 21.23                    | 21.30                  |                     |          |  |
| 5               | QPSK       | 12      | 0         | 21.22                 | 21.33                    | 21.44                  | 22.5                | 0        |  |
| 5               | QPSK       | 12      | 7         | 21.40                 | 21.37                    | 21.04                  |                     |          |  |
| 5               | QPSK       | 12      | 13        | 21.09                 | 21.32                    | 21.13                  |                     |          |  |
| 5               | QPSK       | 25      | 0         | 21.06                 | 21.36                    | 21.07                  | 22.5                | 0        |  |
| 5               | 16QAM      | 1       | 0         | 21.11                 | 21.30                    | 21.11                  |                     |          |  |
| 5               | 16QAM      | 1       | 12        | 21.22                 | 21.30                    | 20.97                  |                     |          |  |
| 5               | 16QAM      | 1       | 24        | 21.21                 | 21.26                    | 20.99                  | 22.5                | 0        |  |
| 5               | 16QAM      | 12      | 0         | 21.13                 | 21.16                    | 21.18                  |                     |          |  |
| 5               | 16QAM      | 12      | 7         | 21.12                 | 21.28                    | 21.10                  |                     |          |  |
| 5               | 16QAM      | 12      | 13        | 21.15                 | 21.15                    | 21.11                  | 22.5                | 0        |  |
| 5               | 16QAM      | 25      | 0         | 21.12                 | 21.24                    | 21.26                  |                     |          |  |
| 5               | 64QAM      | 1       | 0         | 21.02                 | 21.11                    | 21.12                  |                     |          |  |
| 5               | 64QAM      | 1       | 12        | 21.02                 | 21.24                    | 20.86                  | 22.5                | 0        |  |
| 5               | 64QAM      | 1       | 24        | 21.30                 | 21.13                    | 21.17                  |                     |          |  |
| 5               | 64QAM      | 12      | 0         | 21.15                 | 21.07                    | 20.98                  |                     |          |  |
| 5               | 64QAM      | 12      | 7         | 21.17                 | 21.30                    | 21.01                  | 22.5                | 0        |  |
| 5               | 64QAM      | 12      | 13        | 21.25                 | 21.21                    | 21.21                  |                     |          |  |
| 5               | 64QAM      | 25      | 0         | 21.13                 | 21.31                    | 21.24                  |                     |          |  |
| Channel         |            |         |           | 26705                 | 26865                    | 27025                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 815.5                 | 831.5                    | 847.5                  |                     |          |  |
| 3               | QPSK       | 1       | 0         | 21.40                 | 21.39                    | 21.42                  | 22.5                | 0        |  |
| 3               | QPSK       | 1       | 8         | 21.27                 | 21.41                    | 21.23                  |                     |          |  |
| 3               | QPSK       | 1       | 14        | 21.18                 | 21.36                    | 21.22                  |                     |          |  |
| 3               | QPSK       | 8       | 0         | 21.08                 | 21.39                    | 21.44                  | 22.5                | 0        |  |
| 3               | QPSK       | 8       | 4         | 21.25                 | 21.39                    | 21.26                  |                     |          |  |
| 3               | QPSK       | 8       | 7         | 21.11                 | 21.23                    | 21.09                  |                     |          |  |
| 3               | QPSK       | 15      | 0         | 21.05                 | 21.26                    | 21.08                  | 22.5                | 0        |  |
| 3               | 16QAM      | 1       | 0         | 21.20                 | 21.38                    | 21.08                  |                     |          |  |
| 3               | 16QAM      | 1       | 8         | 21.27                 | 21.17                    | 21.01                  |                     |          |  |
| 3               | 16QAM      | 1       | 14        | 21.21                 | 21.12                    | 21.04                  | 22.5                | 0        |  |
| 3               | 16QAM      | 8       | 0         | 21.09                 | 21.25                    | 21.25                  |                     |          |  |
| 3               | 16QAM      | 8       | 4         | 21.09                 | 21.16                    | 21.14                  |                     |          |  |
| 3               | 16QAM      | 8       | 7         | 21.06                 | 21.20                    | 21.01                  | 22.5                | 0        |  |
| 3               | 16QAM      | 15      | 0         | 21.16                 | 21.26                    | 21.27                  |                     |          |  |
| 3               | 64QAM      | 1       | 0         | 21.15                 | 21.29                    | 21.03                  |                     |          |  |
| 3               | 64QAM      | 1       | 8         | 20.98                 | 21.04                    | 21.02                  | 22.5                | 0        |  |
| 3               | 64QAM      | 1       | 14        | 21.31                 | 21.26                    | 21.17                  |                     |          |  |
| 3               | 64QAM      | 8       | 0         | 20.99                 | 21.19                    | 20.94                  |                     |          |  |
| 3               | 64QAM      | 8       | 4         | 21.21                 | 21.36                    | 21.09                  | 22.5                | 0        |  |
| 3               | 64QAM      | 8       | 7         | 21.19                 | 21.15                    | 21.05                  |                     |          |  |
| 3               | 64QAM      | 15      | 0         | 21.21                 | 21.38                    | 21.13                  |                     |          |  |
| Channel         |            |         |           | 26697                 | 26865                    | 27033                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 814.7                 | 831.5                    | 848.3                  |                     |          |  |
| 1.4             | QPSK       | 1       | 0         | 21.45                 | 21.51                    | 21.25                  | 22.5                | 0        |  |
| 1.4             | QPSK       | 1       | 3         | 21.34                 | 21.31                    | 21.13                  |                     |          |  |
| 1.4             | QPSK       | 1       | 5         | 21.14                 | 21.31                    | 21.23                  |                     |          |  |
| 1.4             | QPSK       | 3       | 0         | 21.09                 | 21.40                    | 21.27                  | 22.5                | 0        |  |
| 1.4             | QPSK       | 3       | 1         | 21.25                 | 21.40                    | 21.07                  |                     |          |  |
| 1.4             | QPSK       | 3       | 3         | 20.96                 | 21.36                    | 21.26                  |                     |          |  |
| 1.4             | QPSK       | 6       | 0         | 21.21                 | 21.42                    | 21.09                  | 22.5                | 0        |  |
| 1.4             | 16QAM      | 1       | 0         | 21.23                 | 21.24                    | 21.06                  |                     |          |  |
| 1.4             | 16QAM      | 1       | 3         | 21.16                 | 21.29                    | 21.03                  |                     |          |  |
| 1.4             | 16QAM      | 1       | 5         | 21.10                 | 21.18                    | 21.05                  | 22.5                | 0        |  |
| 1.4             | 16QAM      | 3       | 0         | 21.13                 | 21.12                    | 21.26                  |                     |          |  |
| 1.4             | 16QAM      | 3       | 1         | 21.02                 | 21.16                    | 21.30                  |                     |          |  |
| 1.4             | 16QAM      | 3       | 3         | 21.01                 | 21.07                    | 21.07                  | 22.5                | 0        |  |
| 1.4             | 16QAM      | 6       | 0         | 21.18                 | 21.18                    | 21.25                  |                     |          |  |
| 1.4             | 64QAM      | 1       | 0         | 21.18                 | 21.27                    | 21.17                  |                     |          |  |
| 1.4             | 64QAM      | 1       | 3         | 20.99                 | 21.14                    | 20.91                  | 22.5                | 0        |  |
| 1.4             | 64QAM      | 1       | 5         | 21.37                 | 21.18                    | 21.25                  |                     |          |  |
| 1.4             | 64QAM      | 3       | 0         | 20.98                 | 21.22                    | 21.00                  |                     |          |  |
| 1.4             | 64QAM      | 3       | 1         | 21.01                 | 21.32                    | 21.07                  | 22.5                | 0        |  |
| 1.4             | 64QAM      | 3       | 3         | 21.31                 | 21.18                    | 21.15                  |                     |          |  |
| 1.4             | 64QAM      | 6       | 0         | 21.34                 | 21.36                    | 21.12                  |                     |          |  |



| Band 38 DS11    |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 20              | QPSK       | 1       | 0         | 16.85                 | 17.21                    | 16.83                  | 17.5                | 0        |  |
| 20              | QPSK       | 1       | 49        | 16.77                 | 16.79                    | 16.85                  |                     |          |  |
| 20              | QPSK       | 1       | 99        | 16.89                 | 16.92                    | 16.84                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 16.50                 | 17.01                    | 16.77                  |                     |          |  |
| 20              | QPSK       | 50      | 24        | 16.81                 | 16.94                    | 16.79                  | 17.5                | 0        |  |
| 20              | QPSK       | 50      | 50        | 16.89                 | 16.93                    | 16.93                  |                     |          |  |
| 20              | QPSK       | 100     | 0         | 16.84                 | 16.99                    | 16.87                  |                     |          |  |
| 20              | 16QAM      | 1       | 0         | 17.02                 | 16.98                    | 16.91                  |                     |          |  |
| 20              | 16QAM      | 1       | 49        | 16.81                 | 16.89                    | 16.88                  | 17.5                | 0        |  |
| 20              | 16QAM      | 1       | 99        | 16.96                 | 16.97                    | 16.90                  |                     |          |  |
| 20              | 16QAM      | 50      | 0         | 16.76                 | 16.96                    | 16.87                  |                     |          |  |
| 20              | 16QAM      | 50      | 24        | 16.86                 | 16.97                    | 16.90                  |                     |          |  |
| 20              | 16QAM      | 50      | 50        | 17.09                 | 17.09                    | 16.89                  | 17.5                | 0        |  |
| 20              | 16QAM      | 100     | 0         | 16.91                 | 17.00                    | 16.72                  |                     |          |  |
| 20              | 16QAM      | 100     | 0         | 16.54                 | 16.92                    | 16.88                  |                     |          |  |
| 20              | 16QAM      | 1       | 49        | 16.78                 | 16.74                    | 16.82                  |                     |          |  |
| 20              | 16QAM      | 1       | 99        | 16.93                 | 16.77                    | 16.81                  | 17.5                | 0        |  |
| 20              | 16QAM      | 50      | 0         | 16.89                 | 16.83                    | 16.84                  |                     |          |  |
| 20              | 16QAM      | 50      | 24        | 16.90                 | 16.96                    | 16.98                  |                     |          |  |
| 20              | 16QAM      | 50      | 50        | 16.89                 | 16.83                    | 16.86                  |                     |          |  |
| 20              | 16QAM      | 100     | 0         | 16.93                 | 16.87                    | 16.92                  | 17.5                | 0        |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 15              | QPSK       | 1       | 0         | 16.72                 | 17.09                    | 16.82                  | 17.5                | 0        |  |
| 15              | QPSK       | 1       | 27        | 16.88                 | 16.75                    | 16.86                  |                     |          |  |
| 15              | QPSK       | 1       | 74        | 16.74                 | 16.81                    | 16.75                  |                     |          |  |
| 15              | QPSK       | 36      | 0         | 16.82                 | 16.91                    | 16.78                  |                     |          |  |
| 15              | QPSK       | 36      | 39        | 16.94                 | 16.89                    | 16.84                  | 17.5                | 0        |  |
| 15              | QPSK       | 75      | 0         | 16.92                 | 16.98                    | 16.95                  |                     |          |  |
| 15              | 16QAM      | 1       | 0         | 16.99                 | 17.02                    | 16.87                  |                     |          |  |
| 15              | 16QAM      | 1       | 27        | 16.77                 | 16.96                    | 16.74                  |                     |          |  |
| 15              | 16QAM      | 1       | 74        | 16.80                 | 16.71                    | 16.96                  | 17.5                | 0        |  |
| 15              | 16QAM      | 36      | 0         | 16.80                 | 16.97                    | 16.87                  |                     |          |  |
| 15              | 16QAM      | 36      | 20        | 16.86                 | 16.97                    | 16.85                  |                     |          |  |
| 15              | 16QAM      | 75      | 0         | 17.03                 | 16.97                    | 16.96                  |                     |          |  |
| 15              | 16QAM      | 75      | 0         | 17.03                 | 16.97                    | 16.96                  | 17.5                | 0        |  |
| 15              | 16QAM      | 1       | 0         | 16.59                 | 16.84                    | 16.84                  |                     |          |  |
| 15              | 16QAM      | 1       | 27        | 16.83                 | 16.83                    | 16.86                  |                     |          |  |
| 15              | 16QAM      | 1       | 74        | 16.78                 | 16.83                    | 16.70                  |                     |          |  |
| 15              | 16QAM      | 36      | 0         | 16.78                 | 16.81                    | 16.75                  | 17.5                | 0        |  |
| 15              | 16QAM      | 36      | 20        | 16.80                 | 16.83                    | 16.82                  |                     |          |  |
| 15              | 16QAM      | 36      | 39        | 16.81                 | 17.01                    | 16.84                  |                     |          |  |
| 15              | 16QAM      | 75      | 0         | 16.86                 | 16.93                    | 16.91                  |                     |          |  |
| 15              | 16QAM      | 75      | 0         | 16.86                 | 16.93                    | 16.91                  | 17.5                | 0        |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 10              | QPSK       | 1       | 0         | 16.74                 | 17.02                    | 16.81                  | 17.5                | 0        |  |
| 10              | QPSK       | 1       | 25        | 16.87                 | 16.90                    | 16.78                  |                     |          |  |
| 10              | QPSK       | 1       | 49        | 16.79                 | 16.91                    | 16.75                  |                     |          |  |
| 10              | QPSK       | 25      | 0         | 16.83                 | 16.90                    | 16.86                  |                     |          |  |
| 10              | QPSK       | 25      | 12        | 16.95                 | 16.94                    | 16.88                  | 17.5                | 0        |  |
| 10              | QPSK       | 25      | 25        | 16.93                 | 17.04                    | 16.89                  |                     |          |  |
| 10              | QPSK       | 50      | 0         | 16.86                 | 16.96                    | 16.83                  |                     |          |  |
| 10              | 16QAM      | 1       | 0         | 17.01                 | 16.95                    | 17.02                  |                     |          |  |
| 10              | 16QAM      | 1       | 25        | 16.87                 | 16.86                    | 16.83                  | 17.5                | 0        |  |
| 10              | 16QAM      | 1       | 49        | 16.84                 | 16.79                    | 16.92                  |                     |          |  |
| 10              | 16QAM      | 25      | 0         | 16.84                 | 16.79                    | 16.91                  |                     |          |  |
| 10              | 16QAM      | 25      | 12        | 16.96                 | 16.95                    | 16.86                  |                     |          |  |
| 10              | 16QAM      | 25      | 25        | 16.89                 | 16.95                    | 16.94                  | 17.5                | 0        |  |
| 10              | 16QAM      | 50      | 0         | 17.01                 | 17.00                    | 16.96                  |                     |          |  |
| 10              | 16QAM      | 1       | 0         | 16.56                 | 16.96                    | 16.66                  |                     |          |  |
| 10              | 16QAM      | 1       | 25        | 16.85                 | 16.81                    | 16.72                  |                     |          |  |
| 10              | 16QAM      | 1       | 49        | 16.78                 | 16.71                    | 16.71                  | 17.5                | 0        |  |
| 10              | 16QAM      | 25      | 0         | 16.87                 | 16.90                    | 16.79                  |                     |          |  |
| 10              | 16QAM      | 25      | 12        | 16.99                 | 16.88                    | 17.03                  |                     |          |  |
| 10              | 16QAM      | 25      | 25        | 17.01                 | 16.91                    | 16.94                  |                     |          |  |
| 10              | 16QAM      | 50      | 0         | 16.94                 | 16.78                    | 17.01                  | 17.5                | 0        |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 5               | QPSK       | 1       | 0         | 16.71                 | 17.01                    | 16.93                  | 17.5                | 0        |  |
| 5               | QPSK       | 1       | 12        | 16.89                 | 16.79                    | 16.97                  |                     |          |  |
| 5               | QPSK       | 1       | 24        | 16.84                 | 16.86                    | 16.85                  |                     |          |  |
| 5               | QPSK       | 12      | 0         | 16.84                 | 17.00                    | 16.85                  |                     |          |  |
| 5               | QPSK       | 12      | 7         | 16.85                 | 16.99                    | 16.81                  | 17.5                | 0        |  |
| 5               | QPSK       | 12      | 13        | 16.89                 | 17.00                    | 16.96                  |                     |          |  |
| 5               | QPSK       | 25      | 0         | 16.98                 | 16.92                    | 16.84                  |                     |          |  |
| 5               | 16QAM      | 1       | 0         | 16.88                 | 16.87                    | 16.87                  |                     |          |  |
| 5               | 16QAM      | 1       | 12        | 16.87                 | 17.01                    | 16.83                  | 17.5                | 0        |  |
| 5               | 16QAM      | 1       | 24        | 16.84                 | 16.82                    | 16.89                  |                     |          |  |
| 5               | 16QAM      | 12      | 0         | 16.83                 | 16.87                    | 16.98                  |                     |          |  |
| 5               | 16QAM      | 12      | 7         | 17.00                 | 16.98                    | 16.94                  |                     |          |  |
| 5               | 16QAM      | 12      | 13        | 16.96                 | 17.00                    | 17.01                  | 17.5                | 0        |  |
| 5               | 16QAM      | 25      | 0         | 17.03                 | 17.05                    | 16.84                  |                     |          |  |
| 5               | 16QAM      | 1       | 0         | 16.58                 | 16.95                    | 16.74                  |                     |          |  |
| 5               | 16QAM      | 1       | 12        | 16.73                 | 16.70                    | 16.84                  |                     |          |  |
| 5               | 16QAM      | 1       | 24        | 16.88                 | 16.86                    | 16.83                  | 17.5                | 0        |  |
| 5               | 16QAM      | 12      | 0         | 16.88                 | 16.83                    | 16.92                  |                     |          |  |
| 5               | 16QAM      | 12      | 7         | 16.85                 | 16.85                    | 17.02                  |                     |          |  |
| 5               | 16QAM      | 12      | 13        | 16.80                 | 16.83                    | 16.93                  |                     |          |  |
| 5               | 16QAM      | 25      | 0         | 16.86                 | 16.94                    | 16.97                  | 17.5                | 0        |  |



# Uplink CA Power

| Ant 0 Full Power                    |             |            | DSI1&2  |           |         |           |               |           |                      |                     |  |  |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------|----------------------|---------------------|--|--|
| CA_7C                               |             |            |         |           |         |           |               |           |                      |                     |  |  |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |           |                      |                     |  |  |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | total RB Size | MPR Level | Measured Power (dBm) | Tune up Power (dBm) |  |  |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |           |                      |                     |  |  |
| 20850                               | 21048       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 24.25                | 25.50               |  |  |
| 21100                               | 21298       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 24.27                | 25.50               |  |  |
| 21350                               | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0         | 24.29                | 25.50               |  |  |
| 20850                               | 21048       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 23.46                | 24.50               |  |  |
| 21100                               | 21298       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 23.34                | 24.50               |  |  |
| 21350                               | 21152       | QPSK       | 50      | 0         | 1       | 49        | 2             | 0         | 23.34                | 24.50               |  |  |

| Ant 0 Full Power                    |             |            | DSI1&2  |           |         |           |               |           |                      |                     |  |  |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------|----------------------|---------------------|--|--|
| CA_38C                              |             |            |         |           |         |           |               |           |                      |                     |  |  |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |           |                      |                     |  |  |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | total RB Size | MPR Level | Measured Power (dBm) | Tune up Power (dBm) |  |  |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |           |                      |                     |  |  |
| 37850                               | 38048       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 24.03                | 25.50               |  |  |
| 37901                               | 38099       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 23.93                | 25.50               |  |  |
| 38150                               | 37952       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0         | 23.95                | 25.50               |  |  |
| 37850                               | 38048       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 23.24                | 24.50               |  |  |
| 37901                               | 38099       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 23.11                | 24.50               |  |  |
| 38150                               | 37952       | QPSK       | 50      | 0         | 1       | 49        | 2             | 0         | 23.24                | 24.50               |  |  |

| Ant 4 Full Power                    |             |            | DSI2    |           |         |           |               |          |                      |                     |  |  |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|----------|----------------------|---------------------|--|--|
| CA_7C                               |             |            |         |           |         |           |               |          |                      |                     |  |  |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |          |                      |                     |  |  |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | total RB Size | MPR Leve | Measured Power (dBm) | Tune up Power (dBm) |  |  |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |          |                      |                     |  |  |
| 20850                               | 21048       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0        | 22.50                | 23.50               |  |  |
| 21100                               | 21298       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0        | 22.58                | 23.50               |  |  |
| 21350                               | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0        | 22.50                | 23.50               |  |  |
| 20850                               | 21048       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0        | 21.64                | 22.50               |  |  |
| 21100                               | 21298       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0        | 21.50                | 22.50               |  |  |
| 21350                               | 21152       | QPSK       | 50      | 0         | 1       | 49        | 2             | 0        | 21.56                | 22.50               |  |  |

| Ant 4 Full Power                    |             |            | DSI2    |           |         |           |               |          |                      |                     |  |  |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|----------|----------------------|---------------------|--|--|
| CA_38C                              |             |            |         |           |         |           |               |          |                      |                     |  |  |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |          |                      |                     |  |  |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | total RB Size | MPR Leve | Measured Power (dBm) | Tune up Power (dBm) |  |  |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |          |                      |                     |  |  |
| 37850                               | 38048       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0        | 22.80                | 23.50               |  |  |
| 37901                               | 38099       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0        | 22.82                | 23.50               |  |  |
| 38150                               | 37952       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0        | 22.71                | 23.50               |  |  |
| 37850                               | 38048       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0        | 21.65                | 22.50               |  |  |
| 37901                               | 38099       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0        | 21.66                | 22.50               |  |  |
| 38150                               | 37952       | QPSK       | 50      | 0         | 1       | 49        | 2             | 0        | 21.59                | 22.50               |  |  |

| Ant 0 Down Power                    |             |            | DSI4    |           |         |           |               |          |                      |                     |  |  |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|----------|----------------------|---------------------|--|--|
| CA_7C                               |             |            |         |           |         |           |               |          |                      |                     |  |  |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |          |                      |                     |  |  |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | total RB Size | MPR Leve | Measured Power (dBm) | Tune up Power (dBm) |  |  |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |          |                      |                     |  |  |
| 20850                               | 21048       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0        | 20.13                | 21.00               |  |  |
| 21100                               | 21298       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0        | 20.18                | 21.00               |  |  |
| 21350                               | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0        | 19.99                | 21.00               |  |  |
| 20850                               | 21048       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0        | 19.99                | 21.00               |  |  |
| 21100                               | 21298       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0        | 20.01                | 21.00               |  |  |
| 21350                               | 21152       | QPSK       | 50      | 0         | 1       | 49        | 2             | 0        | 20.00                | 21.00               |  |  |

| Ant 0 Down Power                    |             |            | DSI4    |           |         |           |               |          |                      |                     |  |  |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|----------|----------------------|---------------------|--|--|
| CA_38C                              |             |            |         |           |         |           |               |          |                      |                     |  |  |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |          |                      |                     |  |  |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | total RB Size | MPR Leve | Measured Power (dBm) | Tune up Power (dBm) |  |  |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |          |                      |                     |  |  |
| 37850                               | 38048       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0        | 20.59                | 22.00               |  |  |
| 37901                               | 38099       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0        | 20.61                | 22.00               |  |  |
| 38150                               | 37952       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0        | 20.56                | 22.00               |  |  |
| 37850                               | 38048       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0        | 20.48                | 22.00               |  |  |
| 37901                               | 38099       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0        | 20.51                | 22.00               |  |  |
| 38150                               | 37952       | QPSK       | 50      | 0         | 1       | 49        | 2             | 0        | 20.50                | 22.00               |  |  |

| Ant 4 Down Power                    |             |            | DSI1    |           |         |           |               |           |                      |                     |  |  |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------|----------------------|---------------------|--|--|
| CA_7C                               |             |            |         |           |         |           |               |           |                      |                     |  |  |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |           |                      |                     |  |  |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | total RB Size | MPR Level | Measured Power (dBm) | Tune up Power (dBm) |  |  |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |           |                      |                     |  |  |
| 20850                               | 21048       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 18.27                | 19.00               |  |  |
| 21100                               | 21298       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 18.22                | 19.00               |  |  |
| 21350                               | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0         | 18.18                | 19.00               |  |  |
| 20850                               | 21048       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 18.14                | 19.00               |  |  |
| 21100                               | 21298       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 18.11                | 19.00               |  |  |
| 21350                               | 21152       | QPSK       | 50      | 0         | 1       | 49        | 2             | 0         | 18.14                | 19.00               |  |  |

| Ant 4 Down Power                    |             |            | DSI1    |           |         |           |               |           |                      |                     |  |  |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------|----------------------|---------------------|--|--|
| CA_38C                              |             |            |         |           |         |           |               |           |                      |                     |  |  |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |           |                      |                     |  |  |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | total RB Size | MPR Level | Measured Power (dBm) | Tune up Power (dBm) |  |  |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |           |                      |                     |  |  |
| 37850                               | 38048       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 19.86                | 20.50               |  |  |
| 37901                               | 38099       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 19.92                | 20.50               |  |  |
| 38150                               | 37952       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0         | 19.90                | 20.50               |  |  |
| 37850                               | 38048       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 19.85                | 20.50               |  |  |
| 37901                               | 38099       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 19.88                | 20.50               |  |  |
| 38150                               | 37952       | QPSK       | 50      | 0         | 1       | 49        | 2             | 0         | 19.78                | 20.50               |  |  |

| Ant 4 Down Power                    |             |            | DS14    |           |         |           |               |          |                      |                     |  |  |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|----------|----------------------|---------------------|--|--|
| CA_7C                               |             |            |         |           |         |           |               |          |                      |                     |  |  |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |          |                      |                     |  |  |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | total RB Size | MPR Leve | Measured Power (dBm) | Tune up Power (dBm) |  |  |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |          |                      |                     |  |  |
| 20850                               | 21048       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0        | 19.58                | 20.50               |  |  |
| 21100                               | 21298       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0        | 19.69                | 20.50               |  |  |
| 21350                               | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0        | 19.64                | 20.50               |  |  |
| 20850                               | 21048       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0        | 19.65                | 20.50               |  |  |
| 21100                               | 21298       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0        | 19.67                | 20.50               |  |  |
| 21350                               | 21152       | QPSK       | 50      | 0         | 1       | 49        | 2             | 0        | 19.66                | 20.50               |  |  |



| Ant 0 Full Power                    |             |            | DS11&2  |           |         |           |               |           |                      |                     |  |  |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------|----------------------|---------------------|--|--|
| CA_41C                              |             |            |         |           |         |           |               |           |                      |                     |  |  |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |           |                      |                     |  |  |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | total RB Size | MPR Level | Measured Power (dBm) | Tune up Power (dBm) |  |  |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |           |                      |                     |  |  |
| 40240                               | 40438       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 24.07                | 25.50               |  |  |
| 40500                               | 40698       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 24.06                | 25.50               |  |  |
| 40770                               | 40968       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 24.15                | 25.50               |  |  |
| 41090                               | 40892       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 24.15                | 25.50               |  |  |
| 40240                               | 40438       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 23.11                | 24.50               |  |  |
| 40500                               | 40698       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 23.28                | 24.50               |  |  |
| 40770                               | 40968       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 23.26                | 24.50               |  |  |
| 41090                               | 40892       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 23.20                | 24.50               |  |  |

| Ant 4 Full Power                    |             |            | DS12    |           |         |           |               |           |                      |                     |  |  |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------|----------------------|---------------------|--|--|
| CA_41C                              |             |            |         |           |         |           |               |           |                      |                     |  |  |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |           |                      |                     |  |  |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | total RB Size | MPR Level | Measured Power (dBm) | Tune up Power (dBm) |  |  |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |           |                      |                     |  |  |
| 40240                               | 40438       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 22.70                | 23.50               |  |  |
| 40500                               | 40698       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 22.88                | 23.50               |  |  |
| 40770                               | 40968       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 22.76                | 23.50               |  |  |
| 41090                               | 40892       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 22.79                | 23.50               |  |  |
| 40240                               | 40438       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 21.75                | 22.50               |  |  |
| 40500                               | 40698       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 21.75                | 22.50               |  |  |
| 40770                               | 40968       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 21.84                | 22.50               |  |  |
| 41090                               | 40892       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 21.81                | 22.50               |  |  |

| Ant 0 Down Power                    |             |            | DS14    |           |         |           |               |           |                      |                     |  |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------|----------------------|---------------------|--|
| CA_41C                              |             |            |         |           |         |           |               |           |                      |                     |  |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |           |                      |                     |  |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | total RB Size | MPR Level | Measured Power (dBm) | Tune up Power (dBm) |  |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |           |                      |                     |  |
| 40240                               | 40438       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 21.62                | 23.00               |  |
| 40500                               | 40698       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 21.63                | 23.00               |  |
| 40770                               | 40968       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 21.64                | 23.00               |  |
| 41090                               | 40892       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 21.47                | 23.00               |  |
| 40240                               | 40438       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 21.48                | 23.00               |  |
| 40500                               | 40698       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 21.40                | 23.00               |  |
| 40770                               | 40968       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 21.39                | 23.00               |  |
| 41090                               | 40892       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 21.44                | 23.00               |  |

| Ant 4 Down Power                    |             |            | DS11    |           |         |           |               |           |                      |                     |  |  |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------|----------------------|---------------------|--|--|
| CA_41C                              |             |            |         |           |         |           |               |           |                      |                     |  |  |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |           |                      |                     |  |  |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | total RB Size | MPR Level | Measured Power (dBm) | Tune up Power (dBm) |  |  |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |           |                      |                     |  |  |
| 40240                               | 40438       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 20.76                | 21.50               |  |  |
| 40500                               | 40698       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 20.78                | 21.50               |  |  |
| 40770                               | 40968       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 20.84                | 21.50               |  |  |
| 41090                               | 40892       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 20.90                | 21.50               |  |  |
| 40240                               | 40438       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 20.83                | 21.50               |  |  |
| 40500                               | 40698       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 20.72                | 21.50               |  |  |
| 40770                               | 40968       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 20.89                | 21.50               |  |  |
| 41090                               | 40892       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 20.84                | 21.50               |  |  |

| Ant 4 Down Power                    |             |            | DS14    |           |         |           |               |           |                      |                     |  |  |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------|----------------------|---------------------|--|--|
| CA_41C                              |             |            |         |           |         |           |               |           |                      |                     |  |  |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |           |                      |                     |  |  |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | total RB Size | MPR Level | Measured Power (dBm) | Tune up Power (dBm) |  |  |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |           |                      |                     |  |  |
| 40240                               | 40438       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 21.55                | 22.00               |  |  |
| 40500                               | 40698       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 21.41                | 22.00               |  |  |
| 40770                               | 40968       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 21.44                | 22.00               |  |  |
| 41090                               | 40892       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 21.41                | 22.00               |  |  |
| 40240                               | 40438       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 20.63                | 22.00               |  |  |
| 40500                               | 40698       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 20.67                | 22.00               |  |  |
| 40770                               | 40968       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 20.58                | 22.00               |  |  |
| 41090                               | 40892       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 20.57                | 22.00               |  |  |

| Ant 5 Full Power                    |             |            | DS12    |           |         |           |               |         |                       |                     |  |  |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|---------|-----------------------|---------------------|--|--|
| CA_42C                              |             |            |         |           |         |           |               |         |                       |                     |  |  |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |         |                       |                     |  |  |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | MPR Lev | Measure d Power (dBm) | Tune up Power (dBm) |  |  |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |         |                       |                     |  |  |
| 42190                               | 42388       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0       | 24.19                 | 25.50               |  |  |
| 42590                               | 42788       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0       | 24.38                 | 25.50               |  |  |
| 42990                               | 42792       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0       | 24.3                  | 25.50               |  |  |
| 42190                               | 42388       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0       | 23.16                 | 24.50               |  |  |
| 42590                               | 42788       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0       | 23.25                 | 24.50               |  |  |
| 42990                               | 42792       | QPSK       | 50      | 0         | 1       | 49        | 2             | 0       | 23.33                 | 24.50               |  |  |

| Ant 5 Down Power                    |             |            | DS11    |           |         |           |               |         |                     |                     |  |  |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|---------|---------------------|---------------------|--|--|
| CA_42C                              |             |            |         |           |         |           |               |         |                     |                     |  |  |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |         |                     |                     |  |  |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | MPR Lev | Measure Power (dBm) | Tune up Power (dBm) |  |  |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |         |                     |                     |  |  |
| 42190                               | 42388       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0       | 20.10               | 21.50               |  |  |
| 42590                               | 42788       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0       | 20.16               | 21.50               |  |  |
| 42990                               | 42792       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0       | 20.05               | 21.50               |  |  |
| 42190                               | 42388       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0       | 20.00               | 21.50               |  |  |
| 42590                               | 42788       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0       | 20.13               | 21.50               |  |  |
| 42990                               | 42792       | QPSK       | 50      | 0         | 1       | 49        | 2             | 0       | 20.08               | 21.50               |  |  |

| Ant 5 Down Power                    |             | DS14       |         |           |         |           |               |           |                      |                     |  |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------|----------------------|---------------------|--|
| CA_42C                              |             |            |         |           |         |           |               |           |                      |                     |  |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |           |                      |                     |  |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | total RB Size | MPR Level | Measured Power (dBm) | Tune up Power (dBm) |  |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |           |                      |                     |  |
| 42190                               | 42388       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 21.38                | 22.50               |  |
| 42590                               | 42788       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0         | 21.42                | 22.50               |  |
| 42990                               | 42792       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0         | 21.4                 | 22.50               |  |
| 42190                               | 42388       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 21.16                | 22.50               |  |
| 42590                               | 42788       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0         | 21.25                | 22.50               |  |
| 42990                               | 42792       | QPSK       | 50      | 0         | 1       | 49        | 2             | 0         | 21.33                | 22.50               |  |

# DL CA Power

## 2CA DL

| CA List    | 4*4MIMO    | PCC     |      |        |       |         |      | SCC |         |         |        |        |         | Power             |                   |
|------------|------------|---------|------|--------|-------|---------|------|-----|---------|---------|--------|--------|---------|-------------------|-------------------|
|            |            | LTE     | BW   | BW     | UL    | UL      | Mod. | UL# | UL      | LTE     | BW     | DL     | DL      | With CA           | Without CA        |
|            |            | Band    | Ant  | (MHz)  | Freq  | Channel |      | RB  | Offset  | Band    | (MHz)  | Freq   | Channel | Tx Power<br>(dBm) | Tx Power<br>(dBm) |
|            |            |         |      |        | (MHz) |         |      |     |         |         |        | (MHz)  |         |                   |                   |
| CA_2C      |            | Band 2  | Ant0 | 20M    | 1880  | 18900   | QPSK | 1   | 0       | Band 2  | 20M    | 1979.8 | 1098    | 23.17             | 23.31             |
|            |            | Band 2  | Ant4 | 20M    | 1880  | 18900   | QPSK | 1   | 0       | Band 2  | 20M    | 1979.8 | 1098    | 22.33             | 22.53             |
| CA_7A_42A  | Band 42    | Band 7  | Ant0 | 20M    | 2535  | 21100   | QPSK | 1   | 0       | Band 42 | 20M    | 3575   | 43340   | 24.20             | 24.39             |
|            | Band 42    | Band 7  | Ant4 | 20M    | 2535  | 21100   | QPSK | 1   | 0       | Band 42 | 20M    | 3575   | 43340   | 22.51             | 22.67             |
|            | Band 42    | Band 42 | Ant5 | 20M    | 3575  | 43340   | QPSK | 1   | 0       | Band 7  | 20M    | 2655   | 3100    | 24.28             | 24.45             |
|            |            | Band 38 | Ant0 | 20M    | 2595  | 38000   | QPSK | 1   | 0       | Band 38 | 20M    | 2614.8 | 38198   | 23.96             | 24.13             |
| CA_38C     |            | Band 38 | Ant4 | 20M    | 2595  | 38000   | QPSK | 1   | 0       | Band 38 | 20M    | 2614.8 | 38198   | 22.69             | 22.85             |
|            | Band 41    | Band 5  | Ant0 | 10M    | 836.5 | 20525   | QPSK | 1   | 0       | Band 41 | 20M    | 2608   | 40770   | 24.16             | 24.35             |
| CA_5A_41A  | Band 41    | Band 5  | Ant4 | 10M    | 836.5 | 20525   | QPSK | 1   | 0       | Band 41 | 20M    | 2608   | 40770   | 24.25             | 24.41             |
|            | Band 41    | Band 41 | Ant0 | 20M    | 2608  | 40770   | QPSK | 1   | 0       | Band 5  | 10M    | 881.5  | 2525    | 23.98             | 24.17             |
|            | Band 41    | Band 41 | Ant4 | 20M    | 2608  | 40770   | QPSK | 1   | 0       | Band 5  | 10M    | 881.5  | 2525    | 22.73             | 22.89             |
|            | Band 41/42 | Band 41 | Ant0 | 20M    | 2608  | 40770   | QPSK | 1   | 0       | Band 42 | 20M    | 3575   | 43340   | 24.00             | 24.17             |
| CA_41A_42A | Band 41/42 | Band 41 | Ant4 | 20M    | 2608  | 40770   | QPSK | 1   | 0       | Band 42 | 20M    | 3575   | 43340   | 22.74             | 22.89             |
|            | Band 41/42 | Band 42 | Ant5 | 20M    | 3575  | 43340   | QPSK | 1   | 0       | Band 41 | 20M    | 2608   | 40770   | 24.32             | 24.45             |
| CA_7A-26A  |            | Band 7  | Ant0 | 20M    | 2535  | 21100   | QPSK | 1   | 0       | Band 26 | 15M    | 876.5  | 8865    | 24.22             | 24.39             |
|            |            | Band 7  | Ant4 | 20M    | 2535  | 21100   | QPSK | 1   | 0       | Band 26 | 15M    | 876.5  | 8865    | 22.47             | 22.67             |
|            | Band 26    | Ant0    | 15M  | 831.5  | 26865 | QPSK    | 1    | 0   | Band 7  | 20M     | 2655   | 3100   | 24.27   | 24.44             |                   |
|            | Band 26    | Ant4    | 15M  | 831.5  | 26865 | QPSK    | 1    | 0   | Band 7  | 20M     | 2655   | 3100   | 24.28   | 24.48             |                   |
| CA_4A-17A  | Band 4     | Ant0    | 10M  | 1732.5 | 20175 | QPSK    | 1    | 0   | Band 17 | 10M     | 740    | 5790   | 23.51   | 23.67             |                   |
|            | Band 4     | Ant4    | 10M  | 1732.5 | 20175 | QPSK    | 1    | 0   | Band 17 | 10M     | 740    | 5790   | 23.32   | 23.46             |                   |
|            | Band 17    | Ant0    | 10M  | 710    | 23790 | QPSK    | 1    | 0   | Band 4  | 10M     | 2132.5 | 2175   | 24.54   | 24.68             |                   |
|            | Band 17    | Ant4    | 10M  | 710    | 23790 | QPSK    | 1    | 0   | Band 4  | 10M     | 2132.5 | 2175   | 24.60   | 24.74             |                   |
| CA_4A-5A   | Band 4     | Ant0    | 20M  | 1732.5 | 20175 | QPSK    | 1    | 0   | Band 5  | 10M     | 881.5  | 2525   | 23.53   | 23.67             |                   |
|            | Band 4     | Ant4    | 20M  | 1732.5 | 20175 | QPSK    | 1    | 0   | Band 5  | 10M     | 881.5  | 2525   | 23.28   | 23.46             |                   |
|            | Band 5     | Ant0    | 10M  | 836.5  | 20525 | QPSK    | 1    | 0   | Band 4  | 20M     | 2132.5 | 2175   | 24.15   | 24.35             |                   |
|            | Band 5     | Ant4    | 10M  | 836.5  | 20525 | QPSK    | 1    | 0   | Band 4  | 20M     | 2132.5 | 2175   | 24.21   | 24.41             |                   |
| CA_4A-7A   | Band 4     | Ant0    | 20M  | 1732.5 | 20175 | QPSK    | 1    | 0   | Band 7  | 20M     | 2655   | 3100   | 23.51   | 23.67             |                   |
|            | Band 4     | Ant4    | 20M  | 1732.5 | 20175 | QPSK    | 1    | 0   | Band 7  | 20M     | 2655   | 3100   | 23.30   | 23.46             |                   |
|            | Band 7     | Ant0    | 20M  | 2535   | 21100 | QPSK    | 1    | 0   | Band 4  | 20M     | 2132.5 | 2175   | 24.23   | 24.39             |                   |
|            | Band 7     | Ant4    | 20M  | 2535   | 21100 | QPSK    | 1    | 0   | Band 4  | 20M     | 2132.5 | 2175   | 22.54   | 22.67             |                   |

## 3CA DL

| 3CA List       | 4*4MIMO | PCC        |      |       |               |         | SCC1    |       |               |         | SCC2    |       |               |         | Power              |                    |
|----------------|---------|------------|------|-------|---------------|---------|---------|-------|---------------|---------|---------|-------|---------------|---------|--------------------|--------------------|
|                |         | LTE        | BW   | BW    | UL            | UL      | LTE     | BW    | DL            | DL      | LTE     | BW    | DL            | DL      | With CA            | Without CA         |
|                |         | Band       | Ant  | (MHz) | Freq<br>(MHz) | Channel | Band    | (MHz) | Freq<br>(MHz) | Channel | Band    | (MHz) | Freq<br>(MHz) | Channel | Tx. Power<br>(dBm) | Tx. Power<br>(dBm) |
|                |         |            |      |       |               |         |         |       |               |         |         |       |               |         |                    |                    |
| CA_2A_4A_12A   |         | Band 2     | Ant0 | 20M   | 1880          | 18900   | Band 4  | 20M   | 2132.5        | 2175    | Band 12 | 10M   | 737.5         | 5095    | 23.11              | 23.31              |
|                |         | Band 2     | Ant4 | 20M   | 1880          | 18900   | Band 4  | 20M   | 2132.5        | 2175    | Band 12 | 10M   | 737.5         | 5095    | 22.38              | 22.53              |
|                |         | Band 4     | Ant0 | 20M   | 1732.5        | 20175   | Band 2  | 20M   | 1960          | 900     | Band 12 | 10M   | 737.5         | 5095    | 23.46              | 23.67              |
|                |         | Band 4     | Ant4 | 20M   | 1732.5        | 20175   | Band 2  | 20M   | 1960          | 900     | Band 12 | 10M   | 737.5         | 5095    | 23.27              | 23.46              |
|                |         | Band 12    | Ant0 | 10M   | 707.5         | 23095   | Band 2  | 20M   | 1960          | 900     | Band 4  | 20M   | 2132.5        | 2175    | 24.54              | 24.69              |
|                |         | Band 12    | Ant4 | 10M   | 707.5         | 23095   | Band 2  | 20M   | 1960          | 900     | Band 4  | 20M   | 2132.5        | 2175    | 24.62              | 24.76              |
| CA_2A_4A_5A    |         | Band 2     | Ant0 | 20M   | 1880          | 18900   | Band 4  | 20M   | 2132.5        | 2175    | Band 5  | 10M   | 881.5         | 2525    | 23.11              | 23.31              |
|                |         | Band 2     | Ant4 | 20M   | 1880          | 18900   | Band 4  | 20M   | 2132.5        | 2175    | Band 5  | 10M   | 881.5         | 2525    | 22.33              | 22.53              |
|                |         | Band 4     | Ant0 | 20M   | 1732.5        | 20175   | Band 2  | 20M   | 1960          | 900     | Band 5  | 10M   | 881.5         | 2525    | 23.52              | 23.67              |
|                |         | Band 4     | Ant4 | 20M   | 1732.5        | 20175   | Band 2  | 20M   | 1960          | 900     | Band 5  | 10M   | 881.5         | 2525    | 23.31              | 23.46              |
|                |         | Band 5     | Ant0 | 10M   | 836.5         | 20525   | Band 2  | 20M   | 1960          | 900     | Band 4  | 20M   | 2132.5        | 2175    | 24.19              | 24.35              |
|                |         | Band 5     | Ant4 | 10M   | 836.5         | 20525   | Band 2  | 20M   | 1960          | 900     | Band 4  | 20M   | 2132.5        | 2175    | 24.28              | 24.41              |
| CA_2A_7A_7A    |         | Band 2     | Ant0 | 20M   | 1880          | 18900   | Band 7  | 20M   | 2655          | 3100    | Band 7  | 5M    | 2687.5        | 3425    | 23.17              | 23.31              |
|                |         | Band 2     | Ant4 | 20M   | 1880          | 18900   | Band 7  | 20M   | 2655          | 3100    | Band 7  | 5M    | 2687.5        | 3425    | 22.36              | 22.53              |
|                |         | Band 7     | Ant0 | 20M   | 2535          | 21100   | Band 7  | 5M    | 2687.5        | 3425    | Band 2  | 20M   | 1960          | 900     | 24.23              | 24.39              |
|                |         | Band 7     | Ant4 | 20M   | 2535          | 21100   | Band 7  | 5M    | 2687.5        | 3425    | Band 2  | 20M   | 1960          | 900     | 22.51              | 22.67              |
|                |         | Band 7     | Ant0 | 20M   | 2535          | 21100   | Band 7  | 5M    | 2687.5        | 3425    | Band 2  | 20M   | 1960          | 900     | 24.20              | 24.39              |
|                |         | Band 7     | Ant4 | 20M   | 2535          | 21100   | Band 7  | 5M    | 2687.5        | 3425    | Band 2  | 20M   | 1960          | 900     | 22.52              | 22.67              |
| CA_2A_7C       |         | Band 2     | Ant0 | 20M   | 1880          | 18900   | Band 7  | 20M   | 2655          | 3100    | Band 7  | 20M   | 2674.8        | 3298    | 23.16              | 23.31              |
|                |         | Band 2     | Ant4 | 20M   | 1880          | 18900   | Band 7  | 20M   | 2655          | 3100    | Band 7  | 20M   | 2674.8        | 3298    | 22.35              | 22.53              |
|                |         | Band 7     | Ant0 | 20M   | 2535          | 21100   | Band 7  | 20M   | 2674.8        | 3298    | Band 2  | 20M   | 1960          | 900     | 24.18              | 24.39              |
|                |         | Band 7     | Ant4 | 20M   | 2535          | 21100   | Band 7  | 20M   | 2674.8        | 3298    | Band 2  | 20M   | 1960          | 900     | 22.50              | 22.67              |
|                |         | Band 7     | Ant0 | 20M   | 2535          | 21100   | Band 7  | 20M   | 2674.8        | 3298    | Band 2  | 20M   | 1960          | 900     | 24.23              | 24.39              |
|                |         | Band 7     | Ant4 | 20M   | 2535          | 21100   | Band 7  | 20M   | 2674.8        | 3298    | Band 2  | 20M   | 1960          | 900     | 22.49              | 22.67              |
| CA_5A_7A_7A    |         | Band 5     | Ant0 | 10M   | 836.5         | 20525   | Band 7  | 20M   | 2655          | 3100    | Band 7  | 5M    | 2687.5        | 3425    | 24.18              | 24.35              |
|                |         | Band 5     | Ant4 | 10M   | 836.5         | 20525   | Band 7  | 20M   | 2655          | 3100    | Band 7  | 5M    | 2687.5        | 3425    | 24.21              | 24.41              |
|                |         | Band 7     | Ant0 | 20M   | 2535          | 21100   | Band 7  | 5M    | 2687.5        | 3425    | Band 5  | 10M   | 881.5         | 2525    | 24.23              | 24.39              |
|                |         | Band 7     | Ant4 | 20M   | 2535          | 21100   | Band 7  | 5M    | 2687.5        | 3425    | Band 5  | 10M   | 881.5         | 2525    | 22.51              | 22.67              |
|                |         | Band 7     | Ant0 | 20M   | 2535          | 21100   | Band 7  | 5M    | 2687.5        | 3425    | Band 5  | 10M   | 881.5         | 2525    | 24.23              | 24.39              |
|                |         | Band 7     | Ant4 | 20M   | 2535          | 21100   | Band 7  | 5M    | 2687.5        | 3425    | Band 5  | 10M   | 881.5         | 2525    | 22.47              | 22.67              |
| CA_5A_7C       |         | Band 5     | Ant0 | 10M   | 836.5         | 20525   | Band 7  | 20M   | 2655          | 3100    | Band 7  | 20M   | 2674.8        | 3298    | 24.22              | 24.35              |
|                |         | Band 5     | Ant4 | 10M   | 836.5         | 20525   | Band 7  | 20M   | 2655          | 3100    | Band 7  | 20M   | 2674.8        | 3298    | 24.22              | 24.41              |
|                |         | Band 7     | Ant0 | 20M   | 2535          | 21100   | Band 7  | 20M   | 2674.8        | 3298    | Band 5  | 10M   | 881.5         | 2525    | 24.18              | 24.39              |
|                |         | Band 7     | Ant4 | 20M   | 2535          | 21100   | Band 7  | 20M   | 2674.8        | 3298    | Band 5  | 10M   | 881.5         | 2525    | 22.49              | 22.67              |
|                |         | Band 7     | Ant0 | 20M   | 2535          | 21100   | Band 7  | 20M   | 2674.8        | 3298    | Band 5  | 10M   | 881.5         | 2525    | 24.24              | 24.39              |
|                |         | Band 7     | Ant4 | 20M   | 2535          | 21100   | Band 7  | 20M   | 2674.8        | 3298    | Band 5  | 10M   | 881.5         | 2525    | 22.51              | 22.67              |
| CA_41A_41A_41A |         | Band 41    | Ant0 | 20M   | 2608          | 40770   | Band 41 | 5M    | 2647.5        | 41165   | Band 41 | 20M   | 2555          | 40240   | 24.01              | 24.17              |
|                |         | Band 41    | Ant4 | 20M   | 2608          | 40770   | Band 41 | 5M    | 2647.5        | 41165   | Band 41 | 20M   | 2555          | 40240   | 22.69              | 22.89              |
|                |         | Band 41    | Ant0 | 20M   | 2608          | 40770   | Band 41 | 5M    | 2647.5        | 41165   | Band 41 | 20M   | 2555          | 40240   | 23.99              | 24.17              |
|                |         | Band 41    | Ant4 | 20M   | 2608          | 40770   | Band 41 | 5M    | 2647.5        | 41165   | Band 41 | 20M   | 2555          | 40240   | 22.73              | 22.89              |
| CA_4A_7C       |         | Band 4     | Ant0 | 20M   | 1732.5        | 20175   | Band 7  | 20M   | 2655          | 3100    | Band 7  | 20M   | 2674.8        | 3298    | 23.50              | 23.67              |
|                |         | Band 4     | Ant4 | 20M   | 1732.5        | 20175   | Band 7  | 20M   | 2655          | 3100    | Band 7  | 20M   | 2674.8        | 3298    | 23.30              | 23.46              |
|                |         | Band 4     | Ant0 | 20M   | 1732.5        | 20175   | Band 7  | 20M   | 2655          | 3100    | Band 7  | 20M   | 2674.8        | 3298    | 23.52              | 23.67              |
|                |         | Band 4     | Ant4 | 20M   | 1732.5        | 20175   | Band 7  | 20M   | 2655          | 3100    | Band 7  | 20M   | 2674.8        | 3298    | 23.29              | 23.46              |
|                |         | Band 7     | Ant0 | 20M   | 2535          | 21100   | Band 7  | 20M   | 2674.8        | 3298    | Band 4  | 20M   | 2132.5        | 2175    | 24.20              | 24.39              |
|                |         | Band 7     | Ant4 | 20M   | 2535          | 21100   | Band 7  | 20M   | 2674.8        | 3298    | Band 4  | 20M   | 2132.5        | 2175    | 22.54              | 22.67              |
| CA_41D         |         | Band 7     | Ant0 | 20M   | 2535          | 21100   | Band 7  | 20M   | 2674.8        | 3298    | Band 4  | 20M   | 2132.5        | 2175    | 24.18              | 24.39              |
|                |         | Band 7     | Ant4 | 20M   | 2535          | 21100   | Band 7  | 20M   | 2674.8        | 3298    | Band 4  | 20M   | 2132.5        | 2175    | 22.46              | 22.67              |
|                |         | Band 41    | Ant0 | 20M   | 2608          | 40770   | Band 41 | 20M   | 2627.8        | 40968   | Band 41 | 20M   | 2647.6        | 41166   | 24.03              | 24.17              |
|                |         | Band 41    | Ant4 | 20M   | 2608          | 40770   | Band 41 | 20M   | 2627.8        | 40968   | Band 41 | 20M   | 2647.6        | 41166   | 22.74              | 22.89              |
|                |         | Band 41/42 | Ant0 | 20M   | 2608          | 40770   | Band 42 | 20M   | 3575          | 43340   | Band 42 | 20M   | 3594.8        | 43538   | 23.96              | 24.17              |
|                |         | Band 41/42 | Ant4 | 20M   | 2608          | 40770   | Band 42 | 20M   | 3575          | 43340   | Band 42 | 20M   | 3594.8        | 43538   | 22.72              | 22.89              |
| CA_41A_42C     |         | Band 41/42 | Ant0 | 20M   | 2608          | 40770   | Band 42 | 20M   | 3575          | 43340   | Band 42 | 20M   | 3594.8        | 43538   | 24.01              | 24.17              |
|                |         | Band 41/42 | Ant4 | 20M   | 2608          | 40770   | Band 42 | 20M   | 3575          | 43340   | Band 42 | 20M   | 3594.8        | 43538   | 22.70              | 22.89              |
|                |         | Band 41/42 | Ant5 | 20M   | 3575          | 43340   | Band 42 | 20M   | 3594.8        | 43538   | Band 41 | 20M   | 2608          | 40770   | 24.27              | 24.45              |
|                |         | Band 41/42 | Ant5 | 20M   | 3575          | 43340   | Band 42 | 20M   | 3594.8        | 43538   | Band 41 | 20M   | 2608          | 40770   | 24.25              | 24.45              |
|                |         | Band 41/42 | Ant0 | 20M   | 2608          | 40770   | Band 41 | 20M   | 2627.8        | 40968   | Band 42 | 20M   | 3575          | 43340   | 23.97              | 24.17              |
|                |         | Band 41/42 | Ant4 | 20M   | 2608          | 40770   | Band 41 | 20M   | 2627.8        | 40968   | Band 42 | 20M   | 3575          | 43340   | 22.75              | 22.89              |
| CA_41C_42A     |         | Band 41/42 | Ant0 | 20M   | 2608          | 40770   | Band 41 | 20M   | 2627.8        | 40968   | Band 42 | 20M   | 3575          | 43340   | 24.03              | 24.17              |
|                |         | Band 41/42 | Ant4 | 20M   | 2608          | 40770   | Band 41 | 20M   | 2627.8        | 40968   | Band 42 | 20M   | 3575          | 43340   | 22.76              | 22.89              |
|                |         | Band 41/42 | Ant5 | 20M   | 3575          | 43340   | Band 41 | 20M   | 2608          | 40770   | Band 41 | 20M   | 2627.8        | 40968   | 24.29              | 24.45              |
|                |         | Band 41/42 | Ant5 | 20M   | 3575          | 43340   | Band 41 | 20M   | 2608          | 40770   | Band 41 | 20M   | 2627.8        | 40968   | 24.24              | 24.45              |
|                |         | Band 41/42 | Ant0 | 20M   | 2608          | 40770   | Band 41 | 20M   | 2627.8        | 40968   | Band 42 | 20M   | 3575          | 43340   | 24.03              | 24.17              |
|                |         | Band 41/42 | Ant4 | 20M   | 2608          | 40770   | Band 41 | 20M   | 2627.8        | 40968   | Band 42 | 20M   | 3575          | 43340   | 22.76              | 22.89              |





4CA DL

| Configure  | 4*4MIMO    | PCC     |      |       |             |         |  | SCC1    |       |             |         | SCC2    |       |             |         | SCC3    |       |             |         | Power           |                 |
|------------|------------|---------|------|-------|-------------|---------|--|---------|-------|-------------|---------|---------|-------|-------------|---------|---------|-------|-------------|---------|-----------------|-----------------|
|            |            | LTE     | BW   | BW    | UL          | UL      |  | LTE     | BW    | DL          | DL      | LTE     | BW    | DL          | DL      | LTE     | BW    | DL          | DL      | With CA         | Without CA      |
|            |            | Band    | Ant  | (MHz) | Freq. (MHz) | Channel |  | Band    | (MHz) | Freq. (MHz) | Channel | Band    | (MHz) | Freq. (MHz) | Channel | Band    | (MHz) | Freq. (MHz) | Channel | Tx. Power (dBm) | Tx. Power (dBm) |
|            |            |         |      |       |             |         |  |         |       |             |         |         |       |             |         |         |       |             |         |                 |                 |
| CA_41C-42C | Band 41/42 | Band 41 | Ant0 | 20M   | 2608        | 40770   |  | Band 41 | 20M   | 2627.8      | 40968   | Band 42 | 20M   | 3575        | 43340   | Band 42 | 20M   | 3594.8      | 43538   | 24.02           | 24.17           |
|            | Band 41/42 | Band 41 | Ant4 | 20M   | 2608        | 40770   |  | Band 41 | 20M   | 2627.8      | 40968   | Band 42 | 20M   | 3575        | 43340   | Band 42 | 20M   | 3594.8      | 43538   | 22.75           | 22.89           |
|            | Band 41/42 | Band 41 | Ant0 | 20M   | 2608        | 40770   |  | Band 41 | 20M   | 2627.8      | 40968   | Band 42 | 20M   | 3575        | 43340   | Band 42 | 20M   | 3594.8      | 43538   | 24.03           | 24.17           |
|            | Band 41/42 | Band 41 | Ant4 | 20M   | 2608        | 40770   |  | Band 41 | 20M   | 2627.8      | 40968   | Band 42 | 20M   | 3575        | 43340   | Band 42 | 20M   | 3594.8      | 43538   | 22.70           | 22.89           |
|            | Band 41/42 | Band 42 | Ant5 | 20M   | 3575        | 43340   |  | Band 42 | 20M   | 3594.8      | 43538   | Band 41 | 20M   | 2608        | 40770   | Band 41 | 20M   | 2627.8      | 40968   | 24.26           | 24.45           |
|            | Band 41/42 | Band 42 | Ant5 | 20M   | 3575        | 43340   |  | Band 42 | 20M   | 3594.8      | 43538   | Band 41 | 20M   | 2608        | 40770   | Band 41 | 20M   | 2627.8      | 40968   | 24.30           | 24.45           |

# Full Power level/Default Power level for 5G NR

| Par270 n77 ANT3 Default DFT-30 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| 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                        |            |         |           | 650000                | 656000                   | 662000                 |                     |          |  |
| Frequency (MHz)                |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |
| 100                            | PI/2 BPSK  | 1       | 1         | 25.24                 | 25.28                    | 25.38                  |                     |          |  |
| 100                            | PI/2 BPSK  | 1       | 137       | 25.30                 | 25.39                    | 25.34                  | 25.5                | 0.0      |  |
| 100                            | PI/2 BPSK  | 1       | 271       | 25.33                 | 25.31                    | 25.41                  |                     |          |  |
| 100                            | PI/2 BPSK  | 135     | 0         | 25.33                 | 25.31                    | 25.19                  | 25.5                | 0.0      |  |
| 100                            | PI/2 BPSK  | 135     | 69        | 25.38                 | 25.35                    | 25.28                  | 25.5                | 0.0      |  |
| 100                            | PI/2 BPSK  | 135     | 138       | 25.19                 | 25.31                    | 25.40                  |                     |          |  |
| 100                            | PI/2 BPSK  | 270     | 0         | 25.30                 | 25.38                    | 25.40                  | 25.5                | 0.0      |  |
| 100                            | QPSK       | 1       | 1         | 25.35                 | 25.43                    | 25.41                  |                     |          |  |
| 100                            | QPSK       | 1       | 137       | 25.34                 | 25.40                    | 25.36                  | 25.5                | 0.0      |  |
| 100                            | QPSK       | 1       | 271       | 25.23                 | 25.26                    | 25.19                  |                     |          |  |
| 100                            | QPSK       | 135     | 0         | 25.33                 | 25.24                    | 25.17                  | 25.5                | 0.0      |  |
| 100                            | QPSK       | 135     | 69        | 25.35                 | 25.37                    | 25.34                  | 25.5                | 0.0      |  |
| 100                            | QPSK       | 135     | 138       | 25.30                 | 25.33                    | 25.29                  | 25.5                | 0.0      |  |
| 100                            | QPSK       | 270     | 0         | 25.32                 | 25.35                    | 25.23                  |                     |          |  |
| 100                            | 16QAM      | 1       | 1         | 25.32                 | 25.34                    | 25.34                  | 25.5                | 0.0      |  |
| 100                            | 64QAM      | 1       | 1         | 24.27                 | 24.33                    | 24.36                  | 24.5                | 1.0      |  |
| 100                            | 256QAM     | 1       | 1         | 22.58                 | 22.47                    | 22.38                  | 22.5                | 3.0      |  |
| Channel                        |            |         |           | 649334                | 656000                   | 662668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                |            |         |           | 3740.01               | 3840                     | 3940.02                |                     |          |  |
| 80                             | QPSK       | 1       | 1         | 25.15                 | 25.37                    | 25.19                  | 25.5                | 0.0      |  |
| Channel                        |            |         |           | 648668                | 656000                   | 663334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                |            |         |           | 3730.02               | 3840                     | 3950.01                |                     |          |  |
| 60                             | QPSK       | 1       | 1         | 25.11                 | 25.22                    | 25.04                  | 25.5                | 0.0      |  |
| Channel                        |            |         |           | 648334                | 656000                   | 663668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                |            |         |           | 3725.01               | 3840                     | 3955.02                |                     |          |  |
| 50                             | QPSK       | 1       | 1         | 25.11                 | 25.28                    | 25.17                  | 25.5                | 0.0      |  |
| Channel                        |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |
| 40                             | QPSK       | 1       | 1         | 25.20                 | 25.26                    | 25.03                  | 25.5                | 0.0      |  |
| Channel                        |            |         |           | 647668                | 656000                   | 664334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                |            |         |           | 3715.02               | 3840                     | 3965.01                |                     |          |  |
| 30                             | QPSK       | 1       | 1         | 25.10                 | 25.39                    | 25.18                  | 25.5                | 0.0      |  |
| Channel                        |            |         |           | 647334                | 656000                   | 664668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                |            |         |           | 3710.01               | 3840                     | 3970.02                |                     |          |  |
| 20                             | QPSK       | 1       | 1         | 25.28                 | 25.41                    | 25.18                  | 25.5                | 0.0      |  |

| Part27Q n77 ANT3 Default DFT-30 |            |         |           |                       |                          |                        |                     |          |  |
|---------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| 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                         |            |         |           | 633334                | 633334                   | 633334                 |                     |          |  |
| Frequency (MHz)                 |            |         |           |                       | 3500.01                  |                        |                     |          |  |
| 100                             | PI/2 BPSK  | 1       | 1         |                       | 25.04                    |                        |                     |          |  |
| 100                             | PI/2 BPSK  | 1       | 137       |                       | 25.17                    |                        | 25.5                | 0.0      |  |
| 100                             | PI/2 BPSK  | 1       | 271       |                       | 25.06                    |                        |                     |          |  |
| 100                             | PI/2 BPSK  | 135     | 0         |                       | 24.63                    |                        | 25.5                | 0.0      |  |
| 100                             | PI/2 BPSK  | 135     | 69        |                       | 25.09                    |                        | 25.5                | 0.0      |  |
| 100                             | PI/2 BPSK  | 135     | 138       |                       | 24.67                    |                        | 25.5                | 0.0      |  |
| 100                             | PI/2 BPSK  | 270     | 0         |                       | 24.56                    |                        |                     |          |  |
| 100                             | QPSK       | 1       | 1         |                       | 25.38                    |                        |                     |          |  |
| 100                             | QPSK       | 1       | 137       |                       | 25.12                    |                        | 25.5                | 0.0      |  |
| 100                             | QPSK       | 1       | 271       |                       | 25.30                    |                        |                     |          |  |
| 100                             | QPSK       | 135     | 0         |                       | 24.08                    |                        | 25.5                | 0.0      |  |
| 100                             | QPSK       | 135     | 69        |                       | 25.11                    |                        | 25.5                | 0.0      |  |
| 100                             | QPSK       | 135     | 138       |                       | 24.20                    |                        | 25.5                | 0.0      |  |
| 100                             | QPSK       | 270     | 0         |                       | 24.08                    |                        |                     |          |  |
| 100                             | 16QAM      | 1       | 1         |                       | 25.34                    |                        | 25.5                | 0.0      |  |
| 100                             | 64QAM      | 1       | 1         |                       | 22.78                    |                        | 24.5                | 1.0      |  |
| 100                             | 256QAM     | 1       | 1         |                       | 21.49                    |                        | 22.5                | 3.0      |  |
| Channel                         |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                 |            |         |           | 3490.02               | 3500.01                  | 3510                   |                     |          |  |
| 80                              | QPSK       | 1       | 109       | 25.27                 | 25.31                    | 25.26                  | 25.5                | 0.0      |  |
| Channel                         |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                 |            |         |           | 3480                  | 3500.01                  | 3520.02                |                     |          |  |
| 60                              | QPSK       | 1       | 81        | 25.23                 | 25.27                    | 25.19                  | 25.5                | 0.0      |  |
| Channel                         |            |         |           | 631668                | 633334                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                 |            |         |           | 3475.02               | 3500.01                  | 3525                   |                     |          |  |
| 50                              | QPSK       | 1       | 67        | 25.14                 | 25.33                    | 25.29                  | 25.5                | 0.0      |  |
| Channel                         |            |         |           | 631334                | 633334                   | 635334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                 |            |         |           | 3470.01               | 3500.01                  | 3530.01                |                     |          |  |
| 40                              | QPSK       | 1       | 53        | 25.24                 | 25.16                    | 25.17                  | 25.5                | 0.0      |  |
| Channel                         |            |         |           | 631000                | 633334                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                 |            |         |           | 3465                  | 3500.01                  | 3535.02                |                     |          |  |
| 30                              | QPSK       | 1       | 39        | 25.12                 | 25.31                    | 25.23                  | 25.5                | 0.0      |  |
| Channel                         |            |         |           | 630668                | 633334                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                 |            |         |           | 3460.02               | 3500.01                  | 3540                   |                     |          |  |
| 20                              | QPSK       | 1       | 26        | 25.24                 | 25.28                    | 25.30                  | 25.5                | 0.0      |  |

| Part270 n78 ANT3 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                  |            |         |           | 649334                | 650000                   | 650668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)          |            |         |           | 3740.01               | 3750                     | 3760.02                |                     |          |  |
| 100                      | PI/2 BPSK  | 1       | 1         | 24.96                 | 24.88                    | 24.88                  | 25.5                | 0.0      |  |
| Channel                  |            |         |           | 648668                | 650000                   | 651334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)          |            |         |           | 3730.02               | 3750                     | 3770.01                |                     |          |  |
| 60                       | QPSK       | 1       | 1         | 24.89                 | 24.89                    | 24.96                  | 25.5                | 0.0      |  |
| Channel                  |            |         |           | 648334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)          |            |         |           | 3725.01               | 3750                     | 3775.02                |                     |          |  |
| 50                       | QPSK       | 1       | 1         | 25.01                 | 25.03                    | 24.86                  | 25.5                | 0.0      |  |
| Channel                  |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)          |            |         |           | 3720                  | 3750                     | 3780                   |                     |          |  |
| 40                       | QPSK       | 1       | 1         | 24.86                 | 25.11                    | 24.97                  | 25.5                | 0.0      |  |
| Channel                  |            |         |           | 647668                | 650000                   | 652334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)          |            |         |           | 3715.02               | 3750                     | 3785.01                |                     |          |  |
| 30                       | QPSK       | 1       | 1         | 24.97                 | 24.89                    | 24.79                  | 25.5                | 0.0      |  |
| Channel                  |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)          |            |         |           | 3710.01               | 3750                     | 3790.02                |                     |          |  |
| 20                       | QPSK       | 1       | 1         | 24.98                 | 25.06                    | 24.88                  | 25.5                | 0.0      |  |

| Part27Q 78 ANT3 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                 |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3490.02               | 3500.01                  | 3510                   |                     |          |  |
| 100                     | PI/2 BPSK  | 1       | 1         | 25.26                 | 25.29                    | 25.19                  | 25.5                | 0.0      |  |
| Channel                 |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3480                  | 3500.01                  | 3520.02                |                     |          |  |
| 60                      | QPSK       | 1       | 81        | 25.13                 | 25.26                    | 25.14                  | 25.5                | 0.0      |  |
| Channel                 |            |         |           | 631668                | 633334                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3475.02               | 3500.01                  | 3525                   |                     |          |  |
| 50                      | QPSK       | 1       | 67        | 25.12                 | 25.16                    | 25.08                  | 25.5                | 0.0      |  |
| Channel                 |            |         |           | 631334                | 633334                   | 635334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3470.01               | 3500.01                  | 3530.01                |                     |          |  |
| 40                      | QPSK       | 1       | 53        | 25.19                 | 25.12                    | 25.17                  | 25.5                | 0.0      |  |
| Channel                 |            |         |           | 631000                | 633334                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3465                  | 3500.01                  | 3535.02                |                     |          |  |
| 30                      | QPSK       | 1       | 39        | 25.15                 | 25.10                    | 25.03                  | 25.5                | 0.0      |  |
| Channel                 |            |         |           | 630668                | 633334                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3460.02               | 3500.01                  | 3540                   |                     |          |  |
| 20                      | QPSK       | 1       | 26        | 25.16                 | 25.20                    | 25.05                  | 25.5                | 0.0      |  |

| Par270 n77 ANT5 Default DFT-30 |            |         |           |                      |                         |                       |                     |          |  |
|--------------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| 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                        |            |         |           | 650000               | 656000                  | 662000                |                     |          |  |
| Frequency (MHz)                |            |         |           | 3750                 | 3840                    | 3930                  |                     |          |  |
| 100                            | PI/2 BPSK  | 1       | 1         | 24.00                | 24.02                   | 24.06                 | 25.5                | 0.0      |  |
| 100                            | PI/2 BPSK  | 1       | 137       | 24.18                | 24.24                   | 24.17                 |                     |          |  |
| 100                            | PI/2 BPSK  | 1       | 271       | 24.15                | 24.20                   | 24.17                 |                     |          |  |
| 100                            | PI/2 BPSK  | 135     | 0         | 24.14                | 24.08                   | 23.97                 |                     |          |  |
| 100                            | PI/2 BPSK  | 135     | 69        | 24.12                | 24.17                   | 24.23                 | 25.5                | 0.0      |  |
| 100                            | PI/2 BPSK  | 135     | 138       | 24.05                | 24.13                   | 24.05                 | 25.5                | 0.0      |  |
| 100                            | PI/2 BPSK  | 270     | 0         | 23.95                | 24.07                   | 23.98                 |                     |          |  |
| 100                            | QPSK       | 1       | 1         | 24.13                | 24.25                   | 24.20                 | 25.5                | 0.0      |  |
| 100                            | QPSK       | 1       | 137       | 24.21                | 24.21                   | 24.16                 |                     |          |  |
| 100                            | QPSK       | 1       | 271       | 24.14                | 24.23                   | 24.22                 |                     |          |  |
| 100                            | QPSK       | 135     | 0         | 23.95                | 24.02                   | 24.06                 |                     | 0.0      |  |
| 100                            | QPSK       | 135     | 69        | 24.07                | 24.17                   | 24.10                 | 25.5                | 0.0      |  |
| 100                            | QPSK       | 135     | 138       | 24.14                | 24.15                   | 24.06                 | 25.5                | 0.0      |  |
| 100                            | QPSK       | 270     | 0         | 24.06                | 24.09                   | 24.06                 |                     |          |  |
| 100                            | 16QAM      | 1       | 1         | 24.22                | 24.17                   | 24.21                 | 25.5                | 0.0      |  |
| 100                            | 64QAM      | 1       | 1         | 23.43                | 23.32                   | 23.43                 | 24.5                | 1.0      |  |
| 100                            | 256QAM     | 1       | 1         | 21.09                | 21.07                   | 21.00                 | 22.5                | 3.0      |  |
| Channel                        |            |         |           | 649334               | 656000                  | 662668                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                |            |         |           | 3740.01              | 3840                    | 3940.02               |                     |          |  |
| 80                             | QPSK       | 1       | 1         | 24.10                | 24.06                   | 24.00                 | 25.5                | 0.0      |  |
| Channel                        |            |         |           | 648668               | 656000                  | 663334                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                |            |         |           | 3730.02              | 3840                    | 3950.01               |                     |          |  |
| 60                             | QPSK       | 1       | 1         | 23.92                | 24.14                   | 23.90                 | 25.5                | 0.0      |  |
| Channel                        |            |         |           | 648334               | 656000                  | 663668                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                |            |         |           | 3725.01              | 3840                    | 3955.02               |                     |          |  |
| 50                             | QPSK       | 1       | 1         | 23.94                | 24.10                   | 24.10                 | 25.5                | 0.0      |  |
| Channel                        |            |         |           | 648000               | 656000                  | 664000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                |            |         |           | 3720                 | 3840                    | 3960                  |                     |          |  |
| 40                             | QPSK       | 1       | 1         | 23.95                | 24.11                   | 24.10                 | 25.5                | 0.0      |  |
| Channel                        |            |         |           | 647668               | 656000                  | 664334                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                |            |         |           | 3715.02              | 3840                    | 3965.01               |                     |          |  |
| 30                             | QPSK       | 1       | 1         | 24.14                | 24.17                   | 24.02                 | 25.5                | 0.0      |  |
| Channel                        |            |         |           | 647334               | 656000                  | 664668                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                |            |         |           | 3710.01              | 3840                    | 3970.02               |                     |          |  |
| 20                             | QPSK       | 1       | 1         | 23.96                | 24.24                   | 24.08                 | 25.5                | 0.0      |  |

| Part27Q n77 ANT5 Default DFT-30 |            |         |           |                      |                         |                       |                     |          |  |
|---------------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| 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                         |            |         |           | 632000               | 633334                  | 635000                |                     |          |  |
| Frequency (MHz)                 |            |         |           | 3500.01              | 3500.01                 | 3500.01               |                     |          |  |
| 100                             | PI/2 BPSK  | 1       | 1         | 23.63                | 23.63                   | 23.63                 | 25.5                | 0.0      |  |
| 100                             | PI/2 BPSK  | 1       | 137       | 23.61                | 23.61                   | 23.61                 |                     |          |  |
| 100                             | PI/2 BPSK  | 1       | 271       | 23.81                | 23.81                   | 23.81                 |                     |          |  |
| 100                             | PI/2 BPSK  | 135     | 0         | 23.09                | 23.09                   | 23.09                 |                     | 0.0      |  |
| 100                             | PI/2 BPSK  | 135     | 69        | 23.77                | 23.77                   | 23.77                 | 25.5                | 0.0      |  |
| 100                             | PI/2 BPSK  | 135     | 138       | 23.25                | 23.25                   | 23.25                 | 25.5                | 0.0      |  |
| 100                             | PI/2 BPSK  | 270     | 0         | 23.23                | 23.23                   | 23.23                 |                     |          |  |
| 100                             | QPSK       | 1       | 1         | 23.94                | 23.94                   | 23.94                 | 25.5                | 0.0      |  |
| 100                             | QPSK       | 1       | 137       | 23.74                | 23.74                   | 23.74                 |                     |          |  |
| 100                             | QPSK       | 1       | 271       | 23.68                | 23.68                   | 23.68                 |                     |          |  |
| 100                             | QPSK       | 135     | 0         | 23.26                | 23.26                   | 23.26                 |                     | 1.0      |  |
| 100                             | QPSK       | 135     | 69        | 23.82                | 23.82                   | 23.82                 | 25.5                | 0.0      |  |
| 100                             | QPSK       | 135     | 138       | 23.21                | 23.21                   | 23.21                 | 24.5                | 1.0      |  |
| 100                             | QPSK       | 270     | 0         | 23.27                | 23.27                   | 23.27                 |                     |          |  |
| 100                             | 16QAM      | 1       | 1         | 23.22                | 23.22                   | 23.22                 | 25.5                | 0.0      |  |
| 100                             | 64QAM      | 1       | 1         | 23.15                | 23.15                   | 23.15                 | 24.5                | 1.0      |  |
| 100                             | 256QAM     | 1       | 1         | 21.03                | 21.03                   | 21.03                 | 22.5                | 3.0      |  |
| Channel                         |            |         |           | 632668               | 633334                  | 634000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                 |            |         |           | 3490.02              | 3500.01                 | 3510                  |                     |          |  |
| 80                              | QPSK       | 1       | 109       | 23.72                | 23.63                   | 23.60                 | 25.5                | 0.0      |  |
| Channel                         |            |         |           | 632000               | 633334                  | 634668                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                 |            |         |           | 3480                 | 3500.01                 | 3520.02               |                     |          |  |
| 60                              | QPSK       | 1       | 81        | 23.60                | 23.70                   | 23.71                 | 25.5                | 0.0      |  |
| Channel                         |            |         |           | 631668               | 633334                  | 635000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                 |            |         |           | 3475.02              | 3500.01                 | 3525                  |                     |          |  |
| 50                              | QPSK       | 1       | 67        | 23.60                | 23.67                   | 23.69                 | 25.5                | 0.0      |  |
| Channel                         |            |         |           | 631334               | 633334                  | 635334                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                 |            |         |           | 3470.01              | 3500.01                 | 3530.01               |                     |          |  |
| 40                              | QPSK       | 1       | 53        | 23.70                | 23.72                   | 23.80                 | 25.5                | 0.0      |  |
| Channel                         |            |         |           | 631000               | 633334                  | 635668                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                 |            |         |           | 3465                 | 3500.01                 | 3535.02               |                     |          |  |
| 30                              | QPSK       | 1       | 39        | 23.70                | 23.67                   | 23.54                 | 25.5                | 0.0      |  |
| Channel                         |            |         |           | 630668               | 633334                  | 636000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                 |            |         |           | 3460.02              | 3500.01                 | 3540                  |                     |          |  |
| 20                              | QPSK       | 1       | 26        | 23.68                | 23.65                   | 23.60                 | 25.5                | 0.0      |  |

| Part270 n78 ANT5 Default DFT-30 |            |         |           |                       |                          |                        |                     |          |
|---------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| 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                         |            |         |           | 650000                |                          |                        |                     |          |
| Frequency (MHz)                 |            |         |           | 3750                  |                          |                        |                     |          |
| 100                             | PI/2 BPSK  | 1       | 1         | 24.05                 |                          |                        | 25.5                | 0.0      |
| 100                             | PI/2 BPSK  | 1       | 137       | 24.11                 |                          |                        |                     |          |
| 100                             | PI/2 BPSK  | 1       | 271       | 24.17                 |                          |                        |                     |          |
| 100                             | PI/2 BPSK  | 135     | 0         | 24.07                 |                          |                        | 25.5                | 0.0      |
| 100                             | PI/2 BPSK  | 135     | 69        | 24.05                 |                          |                        | 25.5                | 0.0      |
| 100                             | PI/2 BPSK  | 135     | 138       | 23.98                 |                          |                        | 25.5                | 0.0      |
| 100                             | PI/2 BPSK  | 270     | 0         | 24.11                 |                          |                        |                     |          |
| 100                             | QPSK       | 1       | 1         | 24.20                 |                          |                        | 25.5                | 0.0      |
| 100                             | QPSK       | 1       | 137       | 24.13                 |                          |                        |                     |          |
| 100                             | QPSK       | 1       | 271       | 24.10                 |                          |                        |                     |          |
| 100                             | QPSK       | 135     | 0         | 24.08                 |                          |                        | 25.5                | 0.0      |
| 100                             | QPSK       | 135     | 69        | 24.12                 |                          |                        | 25.5                | 0.0      |
| 100                             | QPSK       | 135     | 138       | 24.11                 |                          |                        | 25.5                | 0.0      |
| 100                             | QPSK       | 270     | 0         | 24.05                 |                          |                        |                     |          |
| 100                             | 16QAM      | 1       | 1         | 23.99                 |                          |                        | 25.5                | 0.0      |
| 100                             | 64QAM      | 1       | 1         | 23.28                 |                          |                        | 24.5                | 1.0      |
| 100                             | 256QAM     | 1       | 1         | 21.04                 |                          |                        | 22.5                | 3.0      |
| Channel                         |            |         |           | 649334                | 650000                   | 650668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                 |            |         |           | 3740.01               | 3750                     | 3760.02                |                     |          |
| 80                              | QPSK       | 1       | 1         | 24.12                 | 24.05                    | 24.10                  | 25.5                | 0.0      |
| Channel                         |            |         |           | 646668                | 650000                   | 651334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                 |            |         |           | 3730.02               | 3750                     | 3770.01                |                     |          |
| 60                              | QPSK       | 1       | 1         | 24.10                 | 24.07                    | 24.16                  | 25.5                | 0.0      |
| Channel                         |            |         |           | 646334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                 |            |         |           | 3725.01               | 3750                     | 3775.02                |                     |          |
| 50                              | QPSK       | 1       | 1         | 24.16                 | 24.13                    | 24.13                  | 25.5                | 0.0      |
| Channel                         |            |         |           | 646000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                 |            |         |           | 3720                  | 3750                     | 3780                   |                     |          |
| 40                              | QPSK       | 1       | 1         | 24.15                 | 24.02                    | 24.14                  | 25.5                | 0.0      |
| Channel                         |            |         |           | 647668                | 650000                   | 652334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                 |            |         |           | 3715.02               | 3750                     | 3785.01                |                     |          |
| 30                              | QPSK       | 1       | 1         | 24.04                 | 24.16                    | 24.05                  | 25.5                | 0.0      |
| Channel                         |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                 |            |         |           | 3710.01               | 3750                     | 3790.02                |                     |          |
| 20                              | QPSK       | 1       | 1         | 24.14                 | 24.08                    | 24.12                  | 25.5                | 0.0      |

| Part27Q 78 ANT5 Default DFT-30 |            |         |           |                       |                          |                        |                     |          |
|--------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| 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                        |            |         |           | 633334                |                          |                        |                     |          |
| Frequency (MHz)                |            |         |           | 3500.01               |                          |                        |                     |          |
| 100                            | PI/2 BPSK  | 1       | 1         |                       | 23.56                    |                        | 25.5                | 0.0      |
| 100                            | PI/2 BPSK  | 1       | 137       |                       | 23.73                    |                        |                     |          |
| 100                            | PI/2 BPSK  | 1       | 271       |                       | 23.74                    |                        |                     |          |
| 100                            | PI/2 BPSK  | 135     | 0         |                       | 23.72                    |                        | 25.5                | 0.0      |
| 100                            | PI/2 BPSK  | 135     | 69        |                       | 23.57                    |                        | 25.5                | 0.0      |
| 100                            | PI/2 BPSK  | 135     | 138       |                       | 23.57                    |                        | 25.5                | 0.0      |
| 100                            | PI/2 BPSK  | 270     | 0         |                       | 23.67                    |                        |                     |          |
| 100                            | QPSK       | 1       | 1         |                       | 23.81                    |                        | 25.5                | 0.0      |
| 100                            | QPSK       | 1       | 137       |                       | 23.80                    |                        |                     |          |
| 100                            | QPSK       | 1       | 271       |                       | 23.64                    |                        |                     |          |
| 100                            | QPSK       | 135     | 0         |                       | 23.59                    |                        | 25.5                | 0.0      |
| 100                            | QPSK       | 135     | 69        |                       | 23.72                    |                        | 25.5                | 0.0      |
| 100                            | QPSK       | 135     | 138       |                       | 23.68                    |                        | 25.5                | 0.0      |
| 100                            | QPSK       | 270     | 0         |                       | 23.64                    |                        |                     |          |
| 100                            | 16QAM      | 1       | 1         |                       | 23.50                    |                        | 25.5                | 0.0      |
| 100                            | 64QAM      | 1       | 1         |                       | 22.95                    |                        | 24.5                | 1.0      |
| 100                            | 256QAM     | 1       | 1         |                       | 20.72                    |                        | 22.5                | 3.0      |
| Channel                        |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                |            |         |           | 3490.02               | 3500.01                  | 3510                   |                     |          |
| 80                             | QPSK       | 1       | 109       | 25.12                 | 25.25                    | 25.15                  | 25.5                | 0.0      |
| Channel                        |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                |            |         |           | 3480                  | 3500.01                  | 3520.02                |                     |          |
| 60                             | QPSK       | 1       | 81        | 25.12                 | 25.12                    | 25.19                  | 25.5                | 0.0      |
| Channel                        |            |         |           | 631668                | 633334                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                |            |         |           | 3475.02               | 3500.01                  | 3525                   |                     |          |
| 50                             | QPSK       | 1       | 67        | 25.25                 | 25.13                    | 25.17                  | 25.5                | 0.0      |
| Channel                        |            |         |           | 631334                | 633334                   | 635334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                |            |         |           | 3470.01               | 3500.01                  | 3530.01                |                     |          |
| 40                             | QPSK       | 1       | 53        | 25.18                 | 25.13                    | 25.08                  | 25.5                | 0.0      |
| Channel                        |            |         |           | 631000                | 633334                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                |            |         |           | 3465                  | 3500.01                  | 3535.02                |                     |          |
| 30                             | QPSK       | 1       | 39        | 25.10                 | 25.11                    | 25.10                  | 25.5                | 0.0      |
| Channel                        |            |         |           | 630668                | 633334                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                |            |         |           | 3460.02               | 3500.01                  | 3540                   |                     |          |
| 20                             | QPSK       | 1       | 26        | 25.21                 | 25.10                    | 25.09                  | 25.5                | 0.0      |

# Reduced power level for 5G NR

| Par270 n77 Ant3 DS11 DFT-30 |            |         |           |                       |                          |                        |                     |          |  |
|-----------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| 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                     |            |         |           | 650000                | 650000                   | 662000                 | 17.0                | 0.0      |  |
| Frequency (MHz)             |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |
| 100                         | PI/2 BPSK  | 1       | 1         | 16.70                 | 16.69                    | 16.69                  |                     |          |  |
| 100                         | PI/2 BPSK  | 1       | 137       | 16.70                 | 16.60                    | 16.75                  |                     |          |  |
| 100                         | PI/2 BPSK  | 1       | 271       | 16.73                 | 16.66                    | 16.72                  | 17.0                | 0.0      |  |
| 100                         | PI/2 BPSK  | 135     | 0         | 16.67                 | 16.67                    | 16.82                  |                     |          |  |
| 100                         | PI/2 BPSK  | 135     | 69        | 16.51                 | 16.71                    | 16.62                  |                     |          |  |
| 100                         | PI/2 BPSK  | 135     | 138       | 16.78                 | 16.62                    | 16.63                  |                     |          |  |
| 100                         | PI/2 BPSK  | 270     | 0         | 16.51                 | 16.49                    | 16.37                  | 17.0                | 0.0      |  |
| 100                         | QPSK       | 1       | 1         | 16.82                 | 16.87                    | 16.64                  |                     |          |  |
| 100                         | QPSK       | 1       | 137       | 16.68                 | 16.60                    | 16.80                  |                     |          |  |
| 100                         | QPSK       | 1       | 271       | 16.49                 | 16.49                    | 16.55                  |                     |          |  |
| 100                         | QPSK       | 135     | 0         | 16.68                 | 16.65                    | 16.70                  | 17.0                | 0.0      |  |
| 100                         | QPSK       | 135     | 69        | 16.62                 | 16.75                    | 16.55                  |                     |          |  |
| 100                         | QPSK       | 135     | 138       | 16.49                 | 16.51                    | 16.47                  |                     |          |  |
| 100                         | QPSK       | 270     | 0         | 16.32                 | 16.37                    | 16.24                  |                     |          |  |
| 100                         | 16QAM      | 1       | 1         | 16.52                 | 16.35                    | 16.39                  | 17.0                | 0.0      |  |
| 100                         | 64QAM      | 1       | 1         | 16.61                 | 16.67                    | 16.63                  |                     |          |  |
| 100                         | 256QAM     | 1       | 1         | 16.58                 | 16.42                    | 16.74                  |                     |          |  |
| Channel                     |            |         |           | 649334                | 650000                   | 662668                 | 17.0                | 0.0      |  |
| Frequency (MHz)             |            |         |           | 3740.01               | 3840                     | 3940.02                |                     |          |  |
| 80                          | QPSK       | 1       | 1         | 16.55                 | 16.65                    | 16.29                  |                     | 0.0      |  |
| Channel                     |            |         |           | 648668                | 650000                   | 663334                 |                     |          |  |
| Frequency (MHz)             |            |         |           | 3730.02               | 3840                     | 3950.01                | 17.0                | 0.0      |  |
| 60                          | QPSK       | 1       | 1         | 16.72                 | 16.74                    | 16.79                  |                     |          |  |
| Channel                     |            |         |           | 648334                | 650000                   | 663668                 |                     |          |  |
| Frequency (MHz)             |            |         |           | 3725.01               | 3840                     | 3955.02                | 17.0                | 0.0      |  |
| 50                          | QPSK       | 1       | 1         | 16.72                 | 16.58                    | 16.49                  |                     |          |  |
| Channel                     |            |         |           | 648000                | 650000                   | 664000                 |                     |          |  |
| Frequency (MHz)             |            |         |           | 3720                  | 3840                     | 3960                   | 17.0                | 0.0      |  |
| 40                          | QPSK       | 1       | 1         | 16.69                 | 16.77                    | 16.60                  |                     |          |  |
| Channel                     |            |         |           | 647668                | 650000                   | 664334                 |                     |          |  |
| Frequency (MHz)             |            |         |           | 3715.02               | 3840                     | 3965.01                | 17.0                | 0.0      |  |
| 30                          | QPSK       | 1       | 1         | 16.39                 | 16.74                    | 16.50                  |                     |          |  |
| Channel                     |            |         |           | 647334                | 650000                   | 664668                 |                     |          |  |
| Frequency (MHz)             |            |         |           | 3710.01               | 3840                     | 3970.02                | 17.0                | 0.0      |  |
| 20                          | QPSK       | 1       | 1         | 16.59                 | 16.64                    | 16.35                  |                     |          |  |

| PC2&3 Par27Q n77 Ant3 DS11 DFT-30 |            |         |           |                       |                          |                        |                     |          |  |
|-----------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| 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                           |            |         |           | 633334                |                          |                        | 17.0                | 0.0      |  |
| Frequency (MHz)                   |            |         |           | 3500.01               |                          |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 1       | 1         | 16.88                 |                          |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 1       | 137       | 16.69                 |                          |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 1       | 271       | 16.76                 |                          |                        | 17.0                | 0.0      |  |
| 100                               | PI/2 BPSK  | 135     | 0         | 16.84                 |                          |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 135     | 69        | 16.92                 |                          |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 135     | 138       | 16.76                 |                          |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 270     | 0         | 16.63                 |                          |                        | 17.0                | 0.0      |  |
| 100                               | QPSK       | 1       | 1         | 16.97                 |                          |                        |                     |          |  |
| 100                               | QPSK       | 1       | 137       | 16.65                 |                          |                        |                     |          |  |
| 100                               | QPSK       | 1       | 271       | 16.52                 |                          |                        |                     |          |  |
| 100                               | QPSK       | 135     | 0         | 16.81                 |                          |                        | 17.0                | 0.0      |  |
| 100                               | QPSK       | 135     | 69        | 16.88                 |                          |                        |                     |          |  |
| 100                               | QPSK       | 135     | 138       | 16.72                 |                          |                        |                     |          |  |
| 100                               | QPSK       | 270     | 0         | 16.40                 |                          |                        |                     |          |  |
| 100                               | 16QAM      | 1       | 1         | 16.48                 |                          |                        | 17.0                | 0.0      |  |
| 100                               | 64QAM      | 1       | 1         | 16.76                 |                          |                        | 17.0                | 0.0      |  |
| 100                               | 256QAM     | 1       | 1         | 16.48                 |                          |                        | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3490.02               | 3500.01                  | 3510                   |                     |          |  |
| 80                                | QPSK       | 1       | 109       | 16.51                 | 16.50                    | 16.24                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3480                  | 3500.01                  | 3520.02                |                     |          |  |
| 60                                | QPSK       | 1       | 81        | 16.86                 | 16.96                    | 16.52                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 631668                | 633334                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3475.02               | 3500.01                  | 3525                   |                     |          |  |
| 50                                | QPSK       | 1       | 67        | 16.56                 | 16.66                    | 16.22                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 631334                | 633334                   | 635334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3470.01               | 3500.01                  | 3530.01                |                     |          |  |
| 40                                | QPSK       | 1       | 53        | 16.49                 | 16.64                    | 16.20                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 631000                | 633334                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3465                  | 3500.01                  | 3535.02                |                     |          |  |
| 30                                | QPSK       | 1       | 39        | 16.37                 | 16.50                    | 16.20                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 630668                | 633334                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3460.02               | 3500.01                  | 3540                   |                     |          |  |
| 20                                | QPSK       | 1       | 26        | 16.40                 | 16.43                    | 16.10                  | 17.0                | 0.0      |  |

| PC2&3 Par270 n78 Ant3 DS1 DFT-30 |            |         |           |                       |                          |                        |                     |          |  |
|----------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| 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                          |            |         |           | 649334                | 650000                   | 650668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                  |            |         |           | 3740.01               | 3750                     | 3760.02                | 17.0                | 0.0      |  |
| 100                              | PI/2 BPSK  | 1       | 1         | 16.40                 | 16.64                    | 16.57                  | 17.0                | 0.0      |  |
| 100                              | PI/2 BPSK  | 1       | 137       | 16.40                 | 16.64                    | 16.57                  | 17.0                | 0.0      |  |
| 100                              | PI/2 BPSK  | 1       | 271       | 16.40                 | 16.64                    | 16.57                  | 17.0                | 0.0      |  |
| 100                              | PI/2 BPSK  | 135     | 0         | 16.40                 | 16.64                    | 16.57                  | 17.0                | 0.0      |  |
| 100                              | PI/2 BPSK  | 135     | 69        | 16.40                 | 16.64                    | 16.57                  | 17.0                | 0.0      |  |
| 100                              | PI/2 BPSK  | 135     | 138       | 16.40                 | 16.64                    | 16.57                  | 17.0                | 0.0      |  |
| 100                              | PI/2 BPSK  | 270     | 0         | 16.40                 | 16.64                    | 16.57                  | 17.0                | 0.0      |  |
| 100                              | QPSK       | 1       | 1         | 16.40                 | 16.64                    | 16.57                  | 17.0                | 0.0      |  |
| 100                              | QPSK       | 1       | 137       | 16.40                 | 16.64                    | 16.57                  | 17.0                | 0.0      |  |
| 100                              | QPSK       | 1       | 271       | 16.40                 | 16.64                    | 16.57                  | 17.0                | 0.0      |  |
| 100                              | QPSK       | 135     | 0         | 16.40                 | 16.64                    | 16.57                  | 17.0                | 0.0      |  |
| 100                              | QPSK       | 135     | 69        | 16.40                 | 16.64                    | 16.57                  | 17.0                | 0.0      |  |
| 100                              | QPSK       | 135     | 138       | 16.40                 | 16.64                    | 16.57                  | 17.0                | 0.0      |  |
| 100                              | QPSK       | 270     | 0         | 16.40                 | 16.64                    | 16.57                  | 17.0                | 0.0      |  |
| 100                              | 16QAM      | 1       | 1         | 16.40                 | 16.64                    | 16.57                  | 17.0                | 0.0      |  |
| 100                              | 64QAM      | 1       | 1         | 16.40                 | 16.64                    | 16.57                  | 17.0                | 0.0      |  |
| 100                              | 256QAM     | 1       | 1         | 16.40                 | 16.64                    | 16.57                  | 17.0                | 0.0      |  |
| Channel                          |            |         |           | 649334                | 650000                   | 650668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                  |            |         |           | 3740.01               | 3750                     | 3760.02                | 17.0                | 0.0      |  |
| 80                               | QPSK       | 1       | 1         | 16.40                 | 16.64                    | 16.57                  | 17.0                | 0.0      |  |
| Channel                          |            |         |           | 648668                | 650000                   | 651334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                  |            |         |           | 3730.02               | 3750                     | 3770.01                | 17.0                | 0.0      |  |
| 60                               | QPSK       | 1       | 1         | 16.46                 | 16.61                    | 16.48                  | 17.0                | 0.0      |  |
| Channel                          |            |         |           | 648334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                  |            |         |           | 3725.01               | 3750                     | 3775.02                | 17.0                | 0.0      |  |
| 50                               | QPSK       | 1       | 1         | 16.36                 | 16.65                    | 16.64                  | 17.0                | 0.0      |  |
| Channel                          |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                  |            |         |           | 3720                  | 3750                     | 3780                   | 17.0                | 0.0      |  |
| 40                               | QPSK       | 1       | 1         | 16.37                 | 16.72                    | 16.53                  | 17.0                | 0.0      |  |
| Channel                          |            |         |           | 647668                | 650000                   | 652334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                  |            |         |           | 3715.02               | 3750                     | 3785.01                | 17.0                | 0.0      |  |
| 30                               | QPSK       | 1       | 1         | 16.48                 | 16.68                    | 16.61                  | 17.0                | 0.0      |  |
| Channel                          |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                  |            |         |           | 3710.01               | 3750                     | 3790.02                | 17.0                | 0.0      |  |
| 20                               | QPSK       | 1       | 1         | 16.45                 | 16.62                    | 16.65                  | 17.0                | 0.0      |  |

| PC2&3 Par27Q n78 Ant3 DS1 DFT-30 |            |         |           |                       |                          |                        |                     |          |  |
|----------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| 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                          |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                  |            |         |           | 3490.02               | 3500.01                  | 3510                   | 17.0                | 0.0      |  |
| 100                              | PI/2 BPSK  | 1       | 1         | 16.55                 | 16.75                    | 16.45                  | 17.0                | 0.0      |  |
| 100                              | PI/2 BPSK  | 1       | 137       | 16.55                 | 16.75                    | 16.45                  | 17.0                | 0.0      |  |
| 100                              | PI/2 BPSK  | 1       | 271       | 16.55                 | 16.75                    | 16.45                  | 17.0                | 0.0      |  |
| 100                              | PI/2 BPSK  | 135     | 0         | 16.55                 | 16.75                    | 16.45                  | 17.0                | 0.0      |  |
| 100                              | PI/2 BPSK  | 135     | 69        | 16.55                 | 16.75                    | 16.45                  | 17.0                | 0.0      |  |
| 100                              | PI/2 BPSK  | 135     | 138       | 16.55                 | 16.75                    | 16.45                  | 17.0                | 0.0      |  |
| 100                              | PI/2 BPSK  | 270     | 0         | 16.55                 | 16.75                    | 16.45                  | 17.0                | 0.0      |  |
| 100                              | QPSK       | 1       | 1         | 16.55                 | 16.75                    | 16.45                  | 17.0                | 0.0      |  |
| 100                              | QPSK       | 1       | 137       | 16.55                 | 16.75                    | 16.45                  | 17.0                | 0.0      |  |
| 100                              | QPSK       | 1       | 271       | 16.55                 | 16.75                    | 16.45                  | 17.0                | 0.0      |  |
| 100                              | QPSK       | 135     | 0         | 16.55                 | 16.75                    | 16.45                  | 17.0                | 0.0      |  |
| 100                              | QPSK       | 135     | 69        | 16.55                 | 16.75                    | 16.45                  | 17.0                | 0.0      |  |
| 100                              | QPSK       | 135     | 138       | 16.55                 | 16.75                    | 16.45                  | 17.0                | 0.0      |  |
| 100                              | QPSK       | 270     | 0         | 16.55                 | 16.75                    | 16.45                  | 17.0                | 0.0      |  |
| 100                              | 16QAM      | 1       | 1         | 16.55                 | 16.75                    | 16.45                  | 17.0                | 0.0      |  |
| 100                              | 64QAM      | 1       | 1         | 16.55                 | 16.75                    | 16.45                  | 17.0                | 0.0      |  |
| 100                              | 256QAM     | 1       | 1         | 16.55                 | 16.75                    | 16.45                  | 17.0                | 0.0      |  |
| Channel                          |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                  |            |         |           | 3490.02               | 3500.01                  | 3510                   | 17.0                | 0.0      |  |
| 80                               | QPSK       | 1       | 109       | 16.55                 | 16.75                    | 16.45                  | 17.0                | 0.0      |  |
| Channel                          |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                  |            |         |           | 3480                  | 3500.01                  | 3520.02                | 17.0                | 0.0      |  |
| 60                               | QPSK       | 1       | 81        | 16.50                 | 16.69                    | 16.46                  | 17.0                | 0.0      |  |
| Channel                          |            |         |           | 631668                | 633334                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                  |            |         |           | 3475.02               | 3500.01                  | 3525                   | 17.0                | 0.0      |  |
| 50                               | QPSK       | 1       | 67        | 16.57                 | 16.67                    | 16.59                  | 17.0                | 0.0      |  |
| Channel                          |            |         |           | 631334                | 633334                   | 635334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                  |            |         |           | 3470.01               | 3500.01                  | 3530.01                | 17.0                | 0.0      |  |
| 40                               | QPSK       | 1       | 53        | 16.40                 | 16.63                    | 16.51                  | 17.0                | 0.0      |  |
| Channel                          |            |         |           | 631000                | 633334                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                  |            |         |           | 3465                  | 3500.01                  | 3535.02                | 17.0                | 0.0      |  |
| 30                               | QPSK       | 1       | 39        | 16.55                 | 16.69                    | 16.44                  | 17.0                | 0.0      |  |
| Channel                          |            |         |           | 630668                | 633334                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                  |            |         |           | 3460.02               | 3500.01                  | 3540                   | 17.0                | 0.0      |  |
| 20                               | QPSK       | 1       | 26        | 16.44                 | 16.68                    | 16.45                  | 17.0                | 0.0      |  |



| Par270 n77 Ant5 DS11 DFT-30 |            |         |           |                       |                          |                        |                     |          |  |
|-----------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| 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                     |            |         |           | 650000                | 656000                   | 662000                 |                     |          |  |
| Frequency (MHz)             |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |
| 100                         | PI/2 BPSK  | 1       | 1         | 15.76                 | 15.75                    | 15.68                  | 17.0                |          |  |
| 100                         | PI/2 BPSK  | 1       | 137       | 15.69                 | 15.67                    | 15.81                  |                     | 0.0      |  |
| 100                         | PI/2 BPSK  | 1       | 271       | 15.77                 | 15.75                    | 15.74                  | 17.0                |          |  |
| 100                         | PI/2 BPSK  | 135     | 0         | 15.62                 | 15.59                    | 15.74                  |                     | 0.0      |  |
| 100                         | PI/2 BPSK  | 135     | 69        | 15.60                 | 15.77                    | 15.70                  | 17.0                |          |  |
| 100                         | PI/2 BPSK  | 135     | 138       | 15.58                 | 15.69                    | 15.62                  |                     | 0.0      |  |
| 100                         | PI/2 BPSK  | 270     | 0         | 15.51                 | 15.56                    | 15.42                  | 17.0                |          |  |
| 100                         | QPSK       | 1       | 1         | 15.90                 | 15.95                    | 15.61                  |                     |          |  |
| 100                         | QPSK       | 1       | 137       | 15.76                 | 15.72                    | 15.70                  | 17.0                |          |  |
| 100                         | QPSK       | 1       | 271       | 15.52                 | 15.45                    | 15.52                  |                     | 0.0      |  |
| 100                         | QPSK       | 135     | 0         | 15.67                 | 15.74                    | 15.75                  | 17.0                |          |  |
| 100                         | QPSK       | 135     | 69        | 15.60                 | 15.66                    | 15.77                  |                     | 0.0      |  |
| 100                         | QPSK       | 135     | 138       | 15.40                 | 15.60                    | 15.58                  | 17.0                |          |  |
| 100                         | QPSK       | 270     | 0         | 15.52                 | 15.57                    | 15.52                  |                     | 0.0      |  |
| 100                         | 16QAM      | 1       | 1         | 15.55                 | 15.47                    | 15.49                  | 17.0                |          |  |
| 100                         | 64QAM      | 1       | 1         | 15.61                 | 15.79                    | 15.75                  |                     | 0.0      |  |
| 100                         | 256QAM     | 1       | 1         | 15.50                 | 15.52                    | 15.74                  | 17.0                |          |  |
| Channel                     |            |         |           | 649334                | 656000                   | 662668                 |                     | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3740.01               | 3840                     | 3940.02                |                     |          |  |
| 80                          | QPSK       | 1       | 1         | 15.78                 | 15.80                    | 15.55                  | 17.0                | 0.0      |  |
| Channel                     |            |         |           | 648668                | 656000                   | 663334                 | 17.0                | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3730.02               | 3840                     | 3950.01                |                     |          |  |
| 60                          | QPSK       | 1       | 1         | 15.80                 | 15.83                    | 15.67                  | 17.0                | 0.0      |  |
| Channel                     |            |         |           | 648334                | 656000                   | 663668                 | 17.0                | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3725.01               | 3840                     | 3955.02                |                     |          |  |
| 50                          | QPSK       | 1       | 1         | 15.71                 | 15.67                    | 15.57                  | 17.0                | 0.0      |  |
| Channel                     |            |         |           | 648000                | 656000                   | 664000                 | 17.0                | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |
| 40                          | QPSK       | 1       | 1         | 15.88                 | 15.46                    | 15.53                  | 17.0                | 0.0      |  |
| Channel                     |            |         |           | 647668                | 656000                   | 664334                 | 17.0                | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3715.02               | 3840                     | 3965.01                |                     |          |  |
| 30                          | QPSK       | 1       | 1         | 15.40                 | 15.30                    | 15.62                  | 17.0                | 0.0      |  |
| Channel                     |            |         |           | 647334                | 656000                   | 664668                 | 17.0                | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3710.01               | 3840                     | 3970.02                |                     |          |  |
| 20                          | QPSK       | 1       | 1         | 15.48                 | 15.56                    | 15.43                  | 17.0                | 0.0      |  |

| PC2&3 Par27Q n77 Ant5 DS11 DFT-30 |            |         |           |                       |                          |                        |                     |                     |  |
|-----------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|--|
| 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                           |            |         |           | 633334                | 633334                   |                        |                     |                     |  |
| Frequency (MHz)                   |            |         |           | 3500.01               |                          |                        |                     |                     |  |
| 100                               | PI/2 BPSK  | 1       | 1         | 15.74                 |                          |                        | 17.0                |                     |  |
| 100                               | PI/2 BPSK  | 1       | 137       | 15.57                 |                          |                        |                     | 0.0                 |  |
| 100                               | PI/2 BPSK  | 1       | 271       | 15.67                 |                          |                        | 17.0                |                     |  |
| 100                               | PI/2 BPSK  | 135     | 0         | 15.55                 |                          |                        |                     | 0.0                 |  |
| 100                               | PI/2 BPSK  | 135     | 69        | 15.74                 |                          |                        | 17.0                |                     |  |
| 100                               | PI/2 BPSK  | 135     | 138       | 15.59                 |                          |                        |                     | 0.0                 |  |
| 100                               | PI/2 BPSK  | 270     | 0         | 15.47                 |                          |                        | 17.0                |                     |  |
| 100                               | QPSK       | 1       | 1         | 15.90                 |                          |                        |                     |                     |  |
| 100                               | QPSK       | 1       | 137       | 15.65                 |                          |                        | 17.0                |                     |  |
| 100                               | QPSK       | 1       | 271       | 15.36                 |                          |                        |                     | 0.0                 |  |
| 100                               | QPSK       | 135     | 0         | 15.68                 |                          |                        | 17.0                |                     |  |
| 100                               | QPSK       | 135     | 69        | 15.67                 |                          |                        |                     | 0.0                 |  |
| 100                               | QPSK       | 135     | 138       | 15.59                 |                          |                        | 17.0                |                     |  |
| 100                               | QPSK       | 270     | 0         | 15.63                 |                          |                        |                     | 0.0                 |  |
| 100                               | 16QAM      | 1       | 1         | 15.44                 |                          |                        | 17.0                |                     |  |
| 100                               | 64QAM      | 1       | 1         | 15.72                 |                          |                        |                     | 0.0                 |  |
| 100                               | 256QAM     | 1       | 1         | 15.42                 |                          |                        | 17.0                |                     |  |
| Channel                           |            |         |           | 632668                | 633334                   | 634000                 |                     | Tune-up limit (dBm) |  |
| Frequency (MHz)                   |            |         |           | 3490.02               | 3500.01                  | 3510                   |                     |                     |  |
| 80                                | QPSK       | 1       | 109       | 15.49                 | 15.60                    | 15.48                  | 17.0                | 0.0                 |  |
| Channel                           |            |         |           | 632000                | 633334                   | 634668                 | 17.0                | MPR (dB)            |  |
| Frequency (MHz)                   |            |         |           | 3480                  | 3500.01                  | 3520.02                |                     |                     |  |
| 60                                | QPSK       | 1       | 81        | 15.54                 | 15.60                    | 15.42                  | 17.0                | 0.0                 |  |
| Channel                           |            |         |           | 631668                | 633334                   | 636000                 | 17.0                | MPR (dB)            |  |
| Frequency (MHz)                   |            |         |           | 3475.02               | 3500.01                  | 3525                   |                     |                     |  |
| 50                                | QPSK       | 1       | 67        | 15.50                 | 15.64                    | 15.43                  | 17.0                | 0.0                 |  |
| Channel                           |            |         |           | 631334                | 633334                   | 636334                 | 17.0                | MPR (dB)            |  |
| Frequency (MHz)                   |            |         |           | 3470.01               | 3500.01                  | 3530.01                |                     |                     |  |
| 40                                | QPSK       | 1       | 53        | 15.60                 | 15.59                    | 15.35                  | 17.0                | 0.0                 |  |
| Channel                           |            |         |           | 631000                | 633334                   | 636668                 | 17.0                | MPR (dB)            |  |
| Frequency (MHz)                   |            |         |           | 3465                  | 3500.01                  | 3535.02                |                     |                     |  |
| 30                                | QPSK       | 1       | 39        | 15.71                 | 15.52                    | 15.47                  | 17.0                | 0.0                 |  |
| Channel                           |            |         |           | 630668                | 633334                   | 636900                 | 17.0                | MPR (dB)            |  |
| Frequency (MHz)                   |            |         |           | 3460.02               | 3500.01                  | 3540                   |                     |                     |  |
| 20                                | QPSK       | 1       | 26        | 15.62                 | 15.55                    | 15.41                  | 17.0                | 0.0                 |  |

| PC2&3 Par270 n78 Ant5 DSI1 DFT-30 |            |         |           |                       |                          |                        |                     |          |  |
|-----------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| 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                           |            |         |           | 650000                |                          |                        |                     |          |  |
| Frequency (MHz)                   |            |         |           | 3750                  |                          |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 1       | 1         |                       | 15.57                    |                        | 17.0                | 0.0      |  |
| 100                               | PI/2 BPSK  | 1       | 137       |                       | 15.44                    |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 1       | 271       |                       | 15.58                    |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 135     | 0         |                       | 15.57                    |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 135     | 69        |                       | 15.58                    |                        | 17.0                | 0.0      |  |
| 100                               | PI/2 BPSK  | 135     | 138       |                       | 15.60                    |                        | 17.0                | 0.0      |  |
| 100                               | PI/2 BPSK  | 270     | 0         |                       | 15.48                    |                        |                     |          |  |
| 100                               | QPSK       | 1       | 1         |                       | 15.65                    |                        | 17.0                | 0.0      |  |
| 100                               | QPSK       | 1       | 137       |                       | 15.54                    |                        |                     |          |  |
| 100                               | QPSK       | 1       | 271       |                       | 15.57                    |                        |                     |          |  |
| 100                               | QPSK       | 135     | 0         |                       | 15.60                    |                        |                     |          |  |
| 100                               | QPSK       | 135     | 69        |                       | 15.62                    |                        | 17.0                | 0.0      |  |
| 100                               | QPSK       | 135     | 138       |                       | 15.55                    |                        | 17.0                | 0.0      |  |
| 100                               | QPSK       | 270     | 0         |                       | 15.45                    |                        |                     |          |  |
| 100                               | 16QAM      | 1       | 1         |                       | 15.09                    |                        | 17.0                | 0.0      |  |
| 100                               | 64QAM      | 1       | 1         |                       | 15.37                    |                        | 17.0                | 0.0      |  |
| 100                               | 256QAM     | 1       | 1         |                       | 15.21                    |                        | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 649334                | 650000                   | 650668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3740.01               | 3750                     | 3760.02                |                     |          |  |
| 80                                | QPSK       | 1       | 1         | 15.35                 | 15.54                    | 15.23                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 646668                | 650000                   | 651334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3730.02               | 3750                     | 3770.01                |                     |          |  |
| 60                                | QPSK       | 1       | 1         | 15.27                 | 15.57                    | 15.35                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 646334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3725.01               | 3750                     | 3775.02                |                     |          |  |
| 50                                | QPSK       | 1       | 1         | 15.25                 | 15.30                    | 15.14                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 646000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3720                  | 3750                     | 3780                   |                     |          |  |
| 40                                | QPSK       | 1       | 1         | 15.24                 | 15.51                    | 15.33                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 647668                | 650000                   | 652334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3715.02               | 3750                     | 3785.01                |                     |          |  |
| 30                                | QPSK       | 1       | 1         | 15.18                 | 15.54                    | 15.32                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3710.01               | 3750                     | 3790.02                |                     |          |  |
| 20                                | QPSK       | 1       | 1         | 15.23                 | 15.51                    | 15.24                  | 17.0                | 0.0      |  |

| PC2&3 Par27Q n78 Ant5 DSI1 DFT-30 |            |         |           |                       |                          |                        |                     |          |  |
|-----------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| 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                           |            |         |           | 633334                |                          |                        |                     |          |  |
| Frequency (MHz)                   |            |         |           | 3500.01               |                          |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 1       | 1         |                       | 15.42                    |                        | 17.0                | 0.0      |  |
| 100                               | PI/2 BPSK  | 1       | 137       |                       | 15.27                    |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 1       | 271       |                       | 15.59                    |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 135     | 0         |                       | 15.55                    |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 135     | 69        |                       | 15.50                    |                        | 17.0                | 0.0      |  |
| 100                               | PI/2 BPSK  | 135     | 138       |                       | 15.49                    |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 270     | 0         |                       | 15.41                    |                        | 17.0                | 0.0      |  |
| 100                               | QPSK       | 1       | 1         |                       | 15.61                    |                        | 17.0                | 0.0      |  |
| 100                               | QPSK       | 1       | 137       |                       | 15.44                    |                        |                     |          |  |
| 100                               | QPSK       | 1       | 271       |                       | 15.50                    |                        |                     |          |  |
| 100                               | QPSK       | 135     | 0         |                       | 15.41                    |                        |                     |          |  |
| 100                               | QPSK       | 135     | 69        |                       | 15.56                    |                        | 17.0                | 0.0      |  |
| 100                               | QPSK       | 135     | 138       |                       | 15.44                    |                        |                     |          |  |
| 100                               | QPSK       | 270     | 0         |                       | 15.41                    |                        | 17.0                | 0.0      |  |
| 100                               | 16QAM      | 1       | 1         |                       | 15.04                    |                        | 17.0                | 0.0      |  |
| 100                               | 64QAM      | 1       | 1         |                       | 15.36                    |                        | 17.0                | 0.0      |  |
| 100                               | 256QAM     | 1       | 1         |                       | 15.06                    |                        | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3490.02               | 3500.01                  | 3510                   |                     |          |  |
| 80                                | QPSK       | 1       | 109       | 15.22                 | 15.45                    | 15.21                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3480                  | 3500.01                  | 3520.02                |                     |          |  |
| 60                                | QPSK       | 1       | 81        | 15.33                 | 15.47                    | 15.18                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 631668                | 633334                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3475.02               | 3500.01                  | 3525                   |                     |          |  |
| 50                                | QPSK       | 1       | 67        | 15.18                 | 15.49                    | 15.25                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 631334                | 633334                   | 635334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3470.01               | 3500.01                  | 3530.01                |                     |          |  |
| 40                                | QPSK       | 1       | 53        | 15.15                 | 15.38                    | 15.33                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 631000                | 633334                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3465                  | 3500.01                  | 3535.02                |                     |          |  |
| 30                                | QPSK       | 1       | 39        | 15.35                 | 15.40                    | 15.38                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 630668                | 633334                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3460.02               | 3500.01                  | 3540                   |                     |          |  |
| 20                                | QPSK       | 1       | 26        | 15.24                 | 15.52                    | 15.21                  | 17.0                | 0.0      |  |

| Par270 n77 Ant3 DS12 DFT-30 |            |         |           |                       |                          |                        |                     |          |  |
|-----------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| 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                     |            |         |           | 650000                | 656000                   | 662000                 |                     |          |  |
| Frequency (MHz)             |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |
| 100                         | PI/2 BPSK  | 1       | 1         | 16.70                 | 16.69                    | 16.69                  | 17.0                | 0.0      |  |
| 100                         | PI/2 BPSK  | 1       | 137       | 16.70                 | 16.60                    | 16.75                  |                     |          |  |
| 100                         | PI/2 BPSK  | 1       | 271       | 16.73                 | 16.66                    | 16.72                  |                     |          |  |
| 100                         | PI/2 BPSK  | 135     | 0         | 16.67                 | 16.67                    | 16.82                  | 17.0                | 0.0      |  |
| 100                         | PI/2 BPSK  | 135     | 69        | 16.51                 | 16.71                    | 16.62                  | 17.0                | 0.0      |  |
| 100                         | PI/2 BPSK  | 135     | 138       | 16.78                 | 16.62                    | 16.63                  | 17.0                | 0.0      |  |
| 100                         | PI/2 BPSK  | 270     | 0         | 16.51                 | 16.49                    | 16.37                  |                     |          |  |
| 100                         | QPSK       | 1       | 1         | 16.82                 | 16.87                    | 16.64                  | 17.0                | 0.0      |  |
| 100                         | QPSK       | 1       | 137       | 16.68                 | 16.60                    | 16.80                  |                     |          |  |
| 100                         | QPSK       | 1       | 271       | 16.49                 | 16.49                    | 16.55                  |                     |          |  |
| 100                         | QPSK       | 135     | 0         | 16.68                 | 16.65                    | 16.70                  |                     | 0.0      |  |
| 100                         | QPSK       | 135     | 69        | 16.62                 | 16.75                    | 16.55                  | 17.0                | 0.0      |  |
| 100                         | QPSK       | 135     | 138       | 16.49                 | 16.51                    | 16.47                  | 17.0                | 0.0      |  |
| 100                         | QPSK       | 270     | 0         | 16.32                 | 16.37                    | 16.24                  |                     |          |  |
| 100                         | 16QAM      | 1       | 1         | 16.52                 | 16.35                    | 16.39                  | 17.0                | 0.0      |  |
| 100                         | 64QAM      | 1       | 1         | 16.61                 | 16.67                    | 16.63                  | 17.0                | 0.0      |  |
| 100                         | 256QAM     | 1       | 1         | 16.58                 | 16.42                    | 16.74                  | 17.0                | 0.0      |  |
| Channel                     |            |         |           | 649334                | 656000                   | 662668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3740.01               | 3840                     | 3940.02                |                     |          |  |
| 80                          | QPSK       | 1       | 1         | 16.55                 | 16.65                    | 16.20                  | 17.0                | 0.0      |  |
| Channel                     |            |         |           | 648668                | 656000                   | 663334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3730.02               | 3840                     | 3950.01                |                     |          |  |
| 60                          | QPSK       | 1       | 1         | 16.88                 | 16.68                    | 16.59                  | 17.0                | 0.0      |  |
| Channel                     |            |         |           | 648334                | 656000                   | 663668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3725.01               | 3840                     | 3955.02                |                     |          |  |
| 50                          | QPSK       | 1       | 1         | 16.72                 | 16.58                    | 16.49                  | 17.0                | 0.0      |  |
| Channel                     |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |
| 40                          | QPSK       | 1       | 1         | 16.67                 | 16.55                    | 16.60                  | 17.0                | 0.0      |  |
| Channel                     |            |         |           | 647668                | 656000                   | 664334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3715.02               | 3840                     | 3965.01                |                     |          |  |
| 30                          | QPSK       | 1       | 1         | 16.39                 | 16.74                    | 16.50                  | 17.0                | 0.0      |  |
| Channel                     |            |         |           | 647334                | 656000                   | 664668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3710.01               | 3840                     | 3970.02                |                     |          |  |
| 20                          | QPSK       | 1       | 1         | 16.59                 | 16.84                    | 16.35                  | 17.0                | 0.0      |  |

| Par27Q n77 Ant3 DS12 DFT-30 |            |         |           |                       |                          |                        |                     |          |
|-----------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| 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                     |            |         |           | 633334                | 3500.01                  |                        |                     |          |
| Frequency (MHz)             |            |         |           |                       |                          |                        |                     |          |
| 100                         | PI/2 BPSK  | 1       | 1         |                       | 16.88                    |                        | 17.0                | 0.0      |
| 100                         | PI/2 BPSK  | 1       | 137       |                       | 16.69                    |                        |                     |          |
| 100                         | PI/2 BPSK  | 1       | 271       |                       | 16.76                    |                        |                     |          |
| 100                         | PI/2 BPSK  | 135     | 0         |                       | 16.84                    |                        |                     |          |
| 100                         | PI/2 BPSK  | 135     | 69        |                       | 16.92                    |                        | 17.0                | 0.0      |
| 100                         | PI/2 BPSK  | 135     | 138       |                       | 16.76                    |                        |                     |          |
| 100                         | PI/2 BPSK  | 270     | 0         |                       | 16.83                    |                        | 17.0                | 0.0      |
| 100                         | QPSK       | 1       | 1         |                       | 16.97                    |                        | 17.0                | 0.0      |
| 100                         | QPSK       | 1       | 137       |                       | 16.65                    |                        |                     |          |
| 100                         | QPSK       | 1       | 271       |                       | 16.52                    |                        |                     |          |
| 100                         | QPSK       | 135     | 0         |                       | 16.81                    |                        |                     |          |
| 100                         | QPSK       | 135     | 69        |                       | 16.68                    |                        | 17.0                | 0.0      |
| 100                         | QPSK       | 135     | 138       |                       | 16.72                    |                        |                     |          |
| 100                         | QPSK       | 270     | 0         |                       | 16.40                    |                        | 17.0                | 0.0      |
| 100                         | 16QAM      | 1       | 1         |                       | 16.48                    |                        | 17.0                | 0.0      |
| 100                         | 64QAM      | 1       | 1         |                       | 16.76                    |                        | 17.0                | 0.0      |
| 100                         | 256QAM     | 1       | 1         |                       | 16.48                    |                        | 17.0                | 0.0      |
| Channel                     |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)             |            |         |           | 3490.02               | 3500.01                  | 3510                   |                     |          |
| 80                          | QPSK       | 1       | 109       | 16.51                 | 16.50                    | 16.24                  | 17.0                | 0.0      |
| Channel                     |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)             |            |         |           | 3480                  | 3500.01                  | 3520.02                |                     |          |
| 60                          | QPSK       | 1       | 81        | 16.86                 | 16.96                    | 16.52                  | 17.0                | 0.0      |
| Channel                     |            |         |           | 631668                | 633334                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)             |            |         |           | 3475.02               | 3500.01                  | 3525                   |                     |          |
| 50                          | QPSK       | 1       | 67        | 16.56                 | 16.66                    | 16.22                  | 17.0                | 0.0      |
| Channel                     |            |         |           | 631334                | 633334                   | 636334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)             |            |         |           | 3470.01               | 3500.01                  | 3530.01                |                     |          |
| 40                          | QPSK       | 1       | 53        | 16.49                 | 16.64                    | 16.20                  | 17.0                | 0.0      |
| Channel                     |            |         |           | 631000                | 633334                   | 636668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)             |            |         |           | 3465                  | 3500.01                  | 3535.02                |                     |          |
| 30                          | QPSK       | 1       | 39        | 16.37                 | 16.50                    | 16.20                  | 17.0                | 0.0      |
| Channel                     |            |         |           | 630668                | 633334                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)             |            |         |           | 3460.02               | 3500.01                  | 3540                   |                     |          |
| 20                          | QPSK       | 1       | 26        | 16.40                 | 16.43                    | 16.10                  | 17.0                | 0.0      |

| Par27O n78 Ant3 DSI2 DFT-30 |            |         |           |                       |                          |                        |                     |          |
|-----------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| 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                     |            |         |           | 650000                |                          |                        |                     |          |
| Frequency (MHz)             |            |         |           | 3750                  |                          |                        |                     |          |
| 100                         | PI/2 BPSK  | 1       | 1         | 16.71                 |                          |                        | 17.0                | 0.0      |
| 100                         | PI/2 BPSK  | 1       | 137       | 16.75                 |                          |                        |                     |          |
| 100                         | PI/2 BPSK  | 1       | 271       | 16.70                 |                          |                        |                     |          |
| 100                         | PI/2 BPSK  | 135     | 0         | 16.77                 |                          |                        |                     |          |
| 100                         | PI/2 BPSK  | 135     | 69        | 16.72                 |                          |                        | 17.0                | 0.0      |
| 100                         | PI/2 BPSK  | 135     | 138       | 16.69                 |                          |                        | 17.0                | 0.0      |
| 100                         | PI/2 BPSK  | 270     | 0         | 16.71                 |                          |                        |                     |          |
| 100                         | QPSK       | 1       | 1         | 16.79                 |                          |                        | 17.0                | 0.0      |
| 100                         | QPSK       | 1       | 137       | 16.63                 |                          |                        |                     |          |
| 100                         | QPSK       | 1       | 271       | 16.66                 |                          |                        |                     |          |
| 100                         | QPSK       | 135     | 0         | 16.76                 |                          |                        |                     |          |
| 100                         | QPSK       | 135     | 69        | 16.79                 |                          |                        | 17.0                | 0.0      |
| 100                         | QPSK       | 135     | 138       | 16.65                 |                          |                        | 17.0                | 0.0      |
| 100                         | QPSK       | 270     | 0         | 16.71                 |                          |                        |                     |          |
| 100                         | 16QAM      | 1       | 1         | 16.24                 |                          |                        | 17.0                | 0.0      |
| 100                         | 64QAM      | 1       | 1         | 16.68                 |                          |                        | 17.0                | 0.0      |
| 100                         | 256QAM     | 1       | 1         | 16.41                 |                          |                        | 17.0                | 0.0      |
| Channel                     |            |         |           | 649334                | 650000                   | 650668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)             |            |         |           | 3740.01               | 3750                     | 3760.02                |                     |          |
| 80                          | QPSK       | 1       | 1         | 16.40                 | 16.64                    | 16.57                  | 17.0                | 0.0      |
| Channel                     |            |         |           | 646668                | 650000                   | 651334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)             |            |         |           | 3730.02               | 3750                     | 3770.01                |                     |          |
| 60                          | QPSK       | 1       | 1         | 16.46                 | 16.61                    | 16.48                  | 17.0                | 0.0      |
| Channel                     |            |         |           | 646334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)             |            |         |           | 3725.01               | 3750                     | 3775.02                |                     |          |
| 50                          | QPSK       | 1       | 1         | 16.36                 | 16.65                    | 16.64                  | 17.0                | 0.0      |
| Channel                     |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)             |            |         |           | 3720                  | 3750                     | 3780                   |                     |          |
| 40                          | QPSK       | 1       | 1         | 16.37                 | 16.72                    | 16.53                  | 17.0                | 0.0      |
| Channel                     |            |         |           | 647668                | 650000                   | 652334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)             |            |         |           | 3715.02               | 3750                     | 3785.01                |                     |          |
| 30                          | QPSK       | 1       | 1         | 16.48                 | 16.68                    | 16.61                  | 17.0                | 0.0      |
| Channel                     |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)             |            |         |           | 3710.01               | 3750                     | 3790.02                |                     |          |
| 20                          | QPSK       | 1       | 1         | 16.45                 | 16.62                    | 16.65                  | 17.0                | 0.0      |

| Par27Q n78 Ant3 DSI2 DFT-30 |            |         |           |                       |                          |                        |                     |          |  |
|-----------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| 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                     |            |         |           | 633334                |                          |                        |                     |          |  |
| Frequency (MHz)             |            |         |           | 3500.01               |                          |                        |                     |          |  |
| 100                         | PI/2 BPSK  | 1       | 1         | 16.66                 |                          |                        | 17.0                | 0.0      |  |
| 100                         | PI/2 BPSK  | 1       | 137       | 16.67                 |                          |                        |                     |          |  |
| 100                         | PI/2 BPSK  | 1       | 271       | 16.50                 |                          |                        |                     |          |  |
| 100                         | PI/2 BPSK  | 135     | 0         | 16.64                 |                          |                        |                     |          |  |
| 100                         | PI/2 BPSK  | 135     | 69        | 16.67                 |                          |                        | 17.0                | 0.0      |  |
| 100                         | PI/2 BPSK  | 135     | 138       | 16.65                 |                          |                        |                     |          |  |
| 100                         | PI/2 BPSK  | 270     | 0         | 16.53                 |                          |                        | 17.0                | 0.0      |  |
| 100                         | QPSK       | 1       | 1         | 16.76                 |                          |                        | 17.0                | 0.0      |  |
| 100                         | QPSK       | 1       | 137       | 16.62                 |                          |                        |                     |          |  |
| 100                         | QPSK       | 1       | 271       | 16.49                 |                          |                        |                     |          |  |
| 100                         | QPSK       | 135     | 0         | 16.55                 |                          |                        |                     |          |  |
| 100                         | QPSK       | 135     | 69        | 16.67                 |                          |                        | 17.0                | 0.0      |  |
| 100                         | QPSK       | 135     | 138       | 16.47                 |                          |                        |                     |          |  |
| 100                         | QPSK       | 270     | 0         | 16.55                 |                          |                        | 17.0                | 0.0      |  |
| 100                         | 16QAM      | 1       | 1         | 16.03                 |                          |                        | 17.0                | 0.0      |  |
| 100                         | 64QAM      | 1       | 1         | 16.51                 |                          |                        | 17.0                | 0.0      |  |
| 100                         | 256QAM     | 1       | 1         | 16.39                 |                          |                        | 17.0                | 0.0      |  |
| Channel                     |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3490.02               | 3500.01                  | 3510                   |                     |          |  |
| 80                          | QPSK       | 1       | 109       | 16.55                 | 16.75                    | 16.45                  | 17.0                | 0.0      |  |
| Channel                     |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3480                  | 3500.01                  | 3520.02                |                     |          |  |
| 60                          | QPSK       | 1       | 81        | 16.50                 | 16.69                    | 16.46                  | 17.0                | 0.0      |  |
| Channel                     |            |         |           | 631668                | 633334                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3475.02               | 3500.01                  | 3525                   |                     |          |  |
| 50                          | QPSK       | 1       | 67        | 16.57                 | 16.67                    | 16.59                  | 17.0                | 0.0      |  |
| Channel                     |            |         |           | 631334                | 633334                   | 635334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3470.01               | 3500.01                  | 3530.01                |                     |          |  |
| 40                          | QPSK       | 1       | 53        | 16.40                 | 16.63                    | 16.51                  | 17.0                | 0.0      |  |
| Channel                     |            |         |           | 631000                | 633334                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3465                  | 3500.01                  | 3535.02                |                     |          |  |
| 30                          | QPSK       | 1       | 39        | 16.55                 | 16.69                    | 16.44                  | 17.0                | 0.0      |  |
| Channel                     |            |         |           | 630668                | 633334                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3460.02               | 3500.01                  | 3540                   |                     |          |  |
| 20                          | QPSK       | 1       | 26        | 16.44                 | 16.68                    | 16.45                  | 17.0                | 0.0      |  |

| Par270 n77 Ant5 DS12 DFT-30 |            |         |           |                       |                          |                        |                     |          |  |
|-----------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| 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                     |            |         |           | 650000                | 656000                   | 662000                 |                     |          |  |
| Frequency (MHz)             |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |
| 100                         | PI/2 BPSK  | 1       | 1         | 22.64                 | 22.71                    | 22.62                  | 24.0                | 0.0      |  |
| 100                         | PI/2 BPSK  | 1       | 137       | 22.63                 | 22.70                    | 22.66                  |                     |          |  |
| 100                         | PI/2 BPSK  | 1       | 271       | 22.62                 | 22.68                    | 22.63                  |                     |          |  |
| 100                         | PI/2 BPSK  | 135     | 0         | 22.63                 | 22.58                    | 22.54                  | 24.0                | 0.0      |  |
| 100                         | PI/2 BPSK  | 135     | 69        | 22.71                 | 22.75                    | 22.65                  | 24.0                | 0.0      |  |
| 100                         | PI/2 BPSK  | 135     | 138       | 22.54                 | 22.69                    | 22.68                  | 24.0                | 0.0      |  |
| 100                         | PI/2 BPSK  | 270     | 0         | 22.55                 | 22.69                    | 22.63                  |                     |          |  |
| 100                         | QPSK       | 1       | 1         | 22.70                 | 22.83                    | 22.69                  | 24.0                | 0.0      |  |
| 100                         | QPSK       | 1       | 137       | 22.82                 | 22.77                    | 22.69                  |                     |          |  |
| 100                         | QPSK       | 1       | 271       | 22.70                 | 22.80                    | 22.77                  |                     |          |  |
| 100                         | QPSK       | 135     | 0         | 22.63                 | 22.70                    | 22.64                  | 24.0                | 0.0      |  |
| 100                         | QPSK       | 135     | 69        | 22.68                 | 22.78                    | 22.59                  | 24.0                | 0.0      |  |
| 100                         | QPSK       | 135     | 138       | 22.72                 | 22.69                    | 22.75                  | 24.0                | 0.0      |  |
| 100                         | QPSK       | 270     | 0         | 22.61                 | 22.70                    | 22.56                  |                     |          |  |
| 100                         | 16QAM      | 1       | 1         | 22.56                 | 22.68                    | 22.59                  | 24.0                | 0.0      |  |
| 100                         | 64QAM      | 1       | 1         | 22.60                 | 22.64                    | 22.42                  | 24.0                | 0.0      |  |
| 100                         | 256QAM     | 1       | 1         | 21.26                 | 21.29                    | 21.08                  | 22.5                | 1.5      |  |
| Channel                     |            |         |           | 649334                | 656000                   | 662688                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3740.01               | 3840                     | 3940.02                |                     |          |  |
| 80                          | QPSK       | 1       | 1         | 22.41                 | 22.56                    | 22.50                  | 24.0                | 0.0      |  |
| Channel                     |            |         |           | 648668                | 656000                   | 663334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3730.02               | 3840                     | 3950.01                |                     |          |  |
| 60                          | QPSK       | 1       | 1         | 22.60                 | 22.61                    | 22.48                  | 24.0                | 0.0      |  |
| Channel                     |            |         |           | 648334                | 656000                   | 663688                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3725.01               | 3840                     | 3955.02                |                     |          |  |
| 50                          | QPSK       | 1       | 1         | 22.61                 | 22.59                    | 22.40                  | 24.0                | 0.0      |  |
| Channel                     |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |
| 40                          | QPSK       | 1       | 1         | 22.53                 | 22.59                    | 22.49                  | 24.0                | 0.0      |  |
| Channel                     |            |         |           | 647668                | 656000                   | 664334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3715.02               | 3840                     | 3965.01                |                     |          |  |
| 30                          | QPSK       | 1       | 1         | 22.43                 | 22.56                    | 22.59                  | 24.0                | 0.0      |  |
| Channel                     |            |         |           | 647334                | 656000                   | 664668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3710.01               | 3840                     | 3970.02                |                     |          |  |
| 20                          | QPSK       | 1       | 1         | 22.44                 | 22.64                    | 22.60                  | 24.0                | 0.0      |  |

| Par27Q n77 Ant5 DS12 DFT-30 |            |         |           |                       |                          |                        |                     |          |     |
|-----------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| 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                     |            |         |           | 633334                | 633334                   | 633334                 |                     |          |     |
| Frequency (MHz)             |            |         |           | 3500.01               |                          |                        |                     |          |     |
| 100                         | PI/2 BPSK  | 1       | 1         |                       | 22.48                    |                        | 24.0                |          | 0.0 |
| 100                         | PI/2 BPSK  | 1       | 137       |                       | 22.49                    |                        |                     |          |     |
| 100                         | PI/2 BPSK  | 1       | 271       |                       | 22.34                    |                        |                     |          |     |
| 100                         | PI/2 BPSK  | 135     | 0         |                       | 22.23                    |                        |                     |          |     |
| 100                         | PI/2 BPSK  | 135     | 69        |                       | 22.47                    |                        | 24.0                |          | 0.0 |
| 100                         | PI/2 BPSK  | 135     | 138       |                       | 22.41                    |                        |                     |          |     |
| 100                         | PI/2 BPSK  | 270     | 0         |                       | 22.38                    |                        | 24.0                |          | 0.0 |
| 100                         | QPSK       | 1       | 1         |                       | 22.61                    |                        | 24.0                |          | 0.0 |
| 100                         | QPSK       | 1       | 137       |                       | 22.43                    |                        |                     |          |     |
| 100                         | QPSK       | 1       | 271       |                       | 22.56                    |                        |                     |          |     |
| 100                         | QPSK       | 135     | 0         |                       | 22.55                    |                        |                     |          |     |
| 100                         | QPSK       | 135     | 69        |                       | 22.57                    |                        | 24.0                |          | 0.0 |
| 100                         | QPSK       | 135     | 138       |                       | 22.40                    |                        |                     |          |     |
| 100                         | QPSK       | 270     | 0         |                       | 22.35                    |                        | 24.0                |          | 0.0 |
| 100                         | 16QAM      | 1       | 1         |                       | 22.46                    |                        | 24.0                |          | 0.0 |
| 100                         | 64QAM      | 1       | 1         |                       | 22.29                    |                        | 24.0                |          | 0.0 |
| 100                         | 256QAM     | 1       | 1         |                       | 20.88                    |                        | 22.5                |          | 1.5 |
| Channel                     |            |         |           | 632688                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)             |            |         |           | 3490.02               | 3500.01                  | 3510                   |                     |          |     |
| 80                          | QPSK       | 1       | 109       | 22.24                 | 22.42                    | 22.23                  | 24.0                |          | 0.0 |
| Channel                     |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)             |            |         |           | 3480                  | 3500.01                  | 3520.02                |                     |          |     |
| 60                          | QPSK       | 1       | 81        | 22.29                 | 22.48                    | 22.34                  | 24.0                |          | 0.0 |
| Channel                     |            |         |           | 631688                | 633334                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)             |            |         |           | 3475.02               | 3500.01                  | 3525                   |                     |          |     |
| 50                          | QPSK       | 1       | 67        | 22.31                 | 22.37                    | 22.35                  | 24.0                |          | 0.0 |
| Channel                     |            |         |           | 631334                | 633334                   | 635334                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)             |            |         |           | 3470.01               | 3500.01                  | 3530.01                |                     |          |     |
| 40                          | QPSK       | 1       | 53        | 22.42                 | 22.51                    | 22.21                  | 24.0                |          | 0.0 |
| Channel                     |            |         |           | 631000                | 633334                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)             |            |         |           | 3465                  | 3500.01                  | 3535.02                |                     |          |     |
| 30                          | QPSK       | 1       | 39        | 22.39                 | 22.47                    | 22.22                  | 24.0                |          | 0.0 |
| Channel                     |            |         |           | 630688                | 633334                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)             |            |         |           | 3460.02               | 3500.01                  | 3540                   |                     |          |     |
| 20                          | QPSK       | 1       | 26        | 22.42                 | 22.46                    | 22.37                  | 24.0                |          | 0.0 |

| Part27O n78 ANT5 DS12 DFT-30 |            |         |           |                       |                          |                        |                     |          |
|------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| 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                      |            |         |           | 650000                |                          |                        |                     |          |
| Frequency (MHz)              |            |         |           | 3750                  |                          |                        |                     |          |
| 100                          | PI/2 BPSK  | 1       | 1         | 22.70                 |                          |                        |                     |          |
| 100                          | PI/2 BPSK  | 1       | 137       | 22.66                 |                          | 24.0                   |                     |          |
| 100                          | PI/2 BPSK  | 1       | 271       | 22.70                 |                          |                        |                     |          |
| 100                          | PI/2 BPSK  | 135     | 0         | 22.61                 |                          | 24.0                   |                     |          |
| 100                          | PI/2 BPSK  | 135     | 69        | 22.72                 |                          | 24.0                   |                     |          |
| 100                          | PI/2 BPSK  | 135     | 138       | 22.63                 |                          | 24.0                   |                     |          |
| 100                          | PI/2 BPSK  | 270     | 0         | 22.68                 |                          |                        |                     |          |
| 100                          | QPSK       | 1       | 1         | 22.81                 |                          | 24.0                   |                     |          |
| 100                          | QPSK       | 1       | 137       | 22.79                 |                          |                        |                     |          |
| 100                          | QPSK       | 1       | 271       | 22.69                 |                          | 24.0                   |                     |          |
| 100                          | QPSK       | 135     | 0         | 22.71                 |                          | 24.0                   |                     |          |
| 100                          | QPSK       | 135     | 69        | 22.76                 |                          | 24.0                   |                     |          |
| 100                          | QPSK       | 135     | 138       | 22.74                 |                          | 24.0                   |                     |          |
| 100                          | QPSK       | 270     | 0         | 22.67                 |                          |                        |                     |          |
| 100                          | 16QAM      | 1       | 1         | 22.62                 |                          | 24.0                   |                     |          |
| 100                          | 64QAM      | 1       | 1         | 22.13                 |                          | 24.0                   |                     |          |
| 100                          | 256QAM     | 1       | 1         | 20.58                 |                          | 22.5                   |                     |          |
| Channel                      |            |         |           | 649334                | 650000                   | 650668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 3740.01               | 3750                     | 3760.02                |                     |          |
| 80                           | QPSK       | 1       | 1         | 22.71                 | 22.68                    | 22.81                  | 24.0                | 0.0      |
| Channel                      |            |         |           | 646668                | 650000                   | 651334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 3730.02               | 3750                     | 3770.01                |                     |          |
| 60                           | QPSK       | 1       | 1         | 22.70                 | 22.63                    | 22.69                  | 24.0                | 0.0      |
| Channel                      |            |         |           | 646334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 3725.01               | 3750                     | 3775.02                |                     |          |
| 50                           | QPSK       | 1       | 1         | 22.75                 | 22.76                    | 22.85                  | 24.0                | 0.0      |
| Channel                      |            |         |           | 646000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 3720                  | 3750                     | 3780                   |                     |          |
| 40                           | QPSK       | 1       | 1         | 22.67                 | 22.61                    | 22.76                  | 24.0                | 0.0      |
| Channel                      |            |         |           | 647668                | 650000                   | 652334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 3715.02               | 3750                     | 3785.01                |                     |          |
| 30                           | QPSK       | 1       | 1         | 22.85                 | 22.70                    | 22.55                  | 24.0                | 0.0      |
| Channel                      |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 3710.01               | 3750                     | 3790.02                |                     |          |
| 20                           | QPSK       | 1       | 1         | 22.74                 | 22.60                    | 22.81                  | 24.0                | 0.0      |

| Par27Q n78 Ant5 DS12 DFT-30 |            |         |           |                       |                          |                        |                     |          |
|-----------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| 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                     |            |         |           | 633334                |                          |                        |                     |          |
| Frequency (MHz)             |            |         |           | 3500.01               |                          |                        |                     |          |
| 100                         | PI/2 BPSK  | 1       | 1         | 22.41                 |                          |                        |                     |          |
| 100                         | PI/2 BPSK  | 1       | 137       | 22.41                 |                          | 24.0                   |                     |          |
| 100                         | PI/2 BPSK  | 1       | 271       | 22.24                 |                          |                        |                     |          |
| 100                         | PI/2 BPSK  | 135     | 0         | 22.10                 |                          | 24.0                   |                     |          |
| 100                         | PI/2 BPSK  | 135     | 69        | 22.40                 |                          |                        |                     |          |
| 100                         | PI/2 BPSK  | 135     | 138       | 22.30                 |                          | 24.0                   |                     |          |
| 100                         | PI/2 BPSK  | 270     | 0         | 22.26                 |                          |                        |                     |          |
| 100                         | QPSK       | 1       | 1         | 22.56                 |                          | 24.0                   |                     |          |
| 100                         | QPSK       | 1       | 137       | 22.33                 |                          |                        |                     |          |
| 100                         | QPSK       | 1       | 271       | 22.47                 |                          | 24.0                   |                     |          |
| 100                         | QPSK       | 135     | 0         | 22.38                 |                          | 24.0                   |                     |          |
| 100                         | QPSK       | 135     | 69        | 22.48                 |                          |                        |                     |          |
| 100                         | QPSK       | 135     | 138       | 22.30                 |                          | 24.0                   |                     |          |
| 100                         | QPSK       | 270     | 0         | 22.26                 |                          |                        |                     |          |
| 100                         | 16QAM      | 1       | 1         | 22.40                 |                          | 24.0                   |                     |          |
| 100                         | 64QAM      | 1       | 1         | 22.22                 |                          | 24.0                   |                     |          |
| 100                         | 256QAM     | 1       | 1         | 20.74                 |                          | 22.5                   |                     |          |
| Channel                     |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)             |            |         |           | 3490.02               | 3500.01                  | 3510                   |                     |          |
| 80                          | QPSK       | 1       | 109       | 22.12                 | 22.35                    | 22.17                  | 24.0                | 0.0      |
| Channel                     |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)             |            |         |           | 3480                  | 3500.01                  | 3520.02                |                     |          |
| 60                          | QPSK       | 1       | 81        | 22.17                 | 22.34                    | 22.25                  | 24.0                | 0.0      |
| Channel                     |            |         |           | 631668                | 633334                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)             |            |         |           | 3475.02               | 3500.01                  | 3525                   |                     |          |
| 50                          | QPSK       | 1       | 67        | 22.25                 | 22.30                    | 22.26                  | 24.0                | 0.0      |
| Channel                     |            |         |           | 631334                | 633334                   | 635334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)             |            |         |           | 3470.01               | 3500.01                  | 3530.01                |                     |          |
| 40                          | QPSK       | 1       | 53        | 22.35                 | 22.45                    | 22.07                  | 24.0                | 0.0      |
| Channel                     |            |         |           | 631000                | 633334                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)             |            |         |           | 3465                  | 3500.01                  | 3535.02                |                     |          |
| 30                          | QPSK       | 1       | 39        | 22.20                 | 22.35                    | 22.11                  | 24.0                | 0.0      |
| Channel                     |            |         |           | 630668                | 633334                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)             |            |         |           | 3460.02               | 3500.01                  | 3540                   |                     |          |
| 20                          | QPSK       | 1       | 26        | 22.27                 | 22.38                    | 22.32                  | 24.0                | 0.0      |

| Par270 n77 Ant3 DS4 DFT-30 |            |         |           |                       |                          |                        |                     |          |  |
|----------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| 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                    |            |         |           | 650000                | 656000                   | 662000                 |                     |          |  |
| Frequency (MHz)            |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |
| 100                        | PI/2 BPSK  | 1       | 1         | 16.70                 | 16.69                    | 16.69                  | 17.0                | 0.0      |  |
| 100                        | PI/2 BPSK  | 1       | 137       | 16.70                 | 16.60                    | 16.75                  |                     |          |  |
| 100                        | PI/2 BPSK  | 1       | 271       | 16.73                 | 16.66                    | 16.72                  |                     |          |  |
| 100                        | PI/2 BPSK  | 135     | 0         | 16.67                 | 16.67                    | 16.82                  | 17.0                | 0.0      |  |
| 100                        | PI/2 BPSK  | 135     | 69        | 16.51                 | 16.71                    | 16.62                  | 17.0                | 0.0      |  |
| 100                        | PI/2 BPSK  | 135     | 138       | 16.78                 | 16.62                    | 16.63                  | 17.0                | 0.0      |  |
| 100                        | PI/2 BPSK  | 270     | 0         | 16.51                 | 16.49                    | 16.37                  |                     |          |  |
| 100                        | QPSK       | 1       | 1         | 16.82                 | 16.87                    | 16.64                  | 17.0                | 0.0      |  |
| 100                        | QPSK       | 1       | 137       | 16.68                 | 16.60                    | 16.80                  |                     |          |  |
| 100                        | QPSK       | 1       | 271       | 16.49                 | 16.49                    | 16.55                  |                     |          |  |
| 100                        | QPSK       | 135     | 0         | 16.68                 | 16.65                    | 16.70                  |                     |          |  |
| 100                        | QPSK       | 135     | 69        | 16.62                 | 16.75                    | 16.55                  | 17.0                | 0.0      |  |
| 100                        | QPSK       | 135     | 138       | 16.49                 | 16.51                    | 16.47                  | 17.0                | 0.0      |  |
| 100                        | QPSK       | 270     | 0         | 16.32                 | 16.37                    | 16.24                  |                     |          |  |
| 100                        | 16QAM      | 1       | 1         | 16.52                 | 16.35                    | 16.39                  | 17.0                | 0.0      |  |
| 100                        | 64QAM      | 1       | 1         | 16.61                 | 16.67                    | 16.63                  | 16.0                | 1.0      |  |
| 100                        | 256QAM     | 1       | 1         | 16.58                 | 16.42                    | 16.74                  | 14.0                | 3.0      |  |
| Channel                    |            |         |           | 649334                | 656000                   | 662668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3740.01               | 3840                     | 3940.02                |                     |          |  |
| 80                         | QPSK       | 1       | 1         | 16.55                 | 16.65                    | 16.20                  | 17.0                | 0.0      |  |
| Channel                    |            |         |           | 648668                | 656000                   | 663334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3730.02               | 3840                     | 3950.01                |                     |          |  |
| 60                         | QPSK       | 1       | 1         | 16.84                 | 16.77                    | 16.70                  | 17.0                | 0.0      |  |
| Channel                    |            |         |           | 648334                | 656000                   | 663668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3725.01               | 3840                     | 3955.02                |                     |          |  |
| 50                         | QPSK       | 1       | 1         | 16.72                 | 16.58                    | 16.40                  | 17.0                | 0.0      |  |
| Channel                    |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |
| 40                         | QPSK       | 1       | 1         | 16.69                 | 16.84                    | 16.80                  | 17.0                | 0.0      |  |
| Channel                    |            |         |           | 647668                | 656000                   | 664334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3715.02               | 3840                     | 3965.01                |                     |          |  |
| 30                         | QPSK       | 1       | 1         | 16.39                 | 16.74                    | 16.50                  | 17.0                | 0.0      |  |
| Channel                    |            |         |           | 647334                | 656000                   | 664668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3710.01               | 3840                     | 3970.02                |                     |          |  |
| 20                         | QPSK       | 1       | 1         | 16.59                 | 16.84                    | 16.35                  | 17.0                | 0.0      |  |

| PC2&3 Par27Q n77 Ant3 DS4 DFT-30 |            |         |           |                       |                          |                        |                     |          |     |
|----------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| 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                          |            |         |           | 633334                |                          |                        |                     |          |     |
| Frequency (MHz)                  |            |         |           | 3500.01               |                          |                        |                     |          |     |
| 100                              | PI/2 BPSK  | 1       | 1         |                       | 16.88                    |                        | 17.0                |          | 0.0 |
| 100                              | PI/2 BPSK  | 1       | 137       |                       | 16.69                    |                        |                     |          |     |
| 100                              | PI/2 BPSK  | 1       | 271       |                       | 16.76                    |                        |                     |          |     |
| 100                              | PI/2 BPSK  | 135     | 0         |                       | 16.84                    |                        |                     |          |     |
| 100                              | PI/2 BPSK  | 135     | 69        |                       | 16.92                    |                        | 17.0                |          | 0.0 |
| 100                              | PI/2 BPSK  | 135     | 138       |                       | 16.76                    |                        |                     |          |     |
| 100                              | PI/2 BPSK  | 270     | 0         |                       | 16.63                    |                        | 17.0                |          | 0.0 |
| 100                              | QPSK       | 1       | 1         |                       | 16.97                    |                        | 17.0                |          | 0.0 |
| 100                              | QPSK       | 1       | 137       |                       | 16.65                    |                        |                     |          |     |
| 100                              | QPSK       | 1       | 271       |                       | 16.52                    |                        |                     |          |     |
| 100                              | QPSK       | 135     | 0         |                       | 16.81                    |                        |                     |          |     |
| 100                              | QPSK       | 135     | 69        |                       | 16.68                    |                        | 17.0                |          | 0.0 |
| 100                              | QPSK       | 135     | 138       |                       | 16.72                    |                        |                     |          |     |
| 100                              | QPSK       | 270     | 0         |                       | 16.40                    |                        | 17.0                |          | 0.0 |
| 100                              | 16QAM      | 1       | 1         |                       | 16.48                    |                        | 17.0                |          | 0.0 |
| 100                              | 64QAM      | 1       | 1         |                       | 16.76                    |                        | 17.0                |          | 0.0 |
| 100                              | 256QAM     | 1       | 1         |                       | 16.48                    |                        | 17.0                |          | 0.0 |
| Channel                          |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                  |            |         |           | 3490.02               | 3500.01                  | 3510                   |                     |          |     |
| 80                               | QPSK       | 1       | 109       | 16.51                 | 16.50                    | 16.24                  | 17.0                | 0.0      |     |
| Channel                          |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                  |            |         |           | 3480                  | 3500.01                  | 3520.02                |                     |          |     |
| 60                               | QPSK       | 1       | 81        | 16.86                 | 16.96                    | 16.52                  | 17.0                | 0.0      |     |
| Channel                          |            |         |           | 631668                | 633334                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                  |            |         |           | 3475.02               | 3500.01                  | 3525                   |                     |          |     |
| 50                               | QPSK       | 1       | 67        | 16.56                 | 16.66                    | 16.22                  | 17.0                | 0.0      |     |
| Channel                          |            |         |           | 631334                | 633334                   | 636334                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                  |            |         |           | 3470.01               | 3500.01                  | 3530.01                |                     |          |     |
| 40                               | QPSK       | 1       | 53        | 16.40                 | 16.64                    | 16.20                  | 17.0                | 0.0      |     |
| Channel                          |            |         |           | 631000                | 633334                   | 636668                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                  |            |         |           | 3465                  | 3500.01                  | 3535.02                |                     |          |     |
| 30                               | QPSK       | 1       | 39        | 16.37                 | 16.50                    | 16.20                  | 17.0                | 0.0      |     |
| Channel                          |            |         |           | 630668                | 633334                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)                  |            |         |           | 3460.02               | 3500.01                  | 3540                   |                     |          |     |
| 20                               | QPSK       | 1       | 26        | 16.40                 | 16.43                    | 16.10                  | 17.0                | 0.0      |     |

| PC2&3 Par270 n78 Ant3 DS14 DFT-30 |            |         |           |                       |                          |                        |                     |          |  |
|-----------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| 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                           |            |         |           | 650000                |                          |                        |                     |          |  |
| Frequency (MHz)                   |            |         |           | 3750                  |                          |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 1       | 1         |                       | 16.71                    |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 1       | 137       |                       | 16.75                    |                        | 17.0                | 0.0      |  |
| 100                               | PI/2 BPSK  | 1       | 271       |                       | 16.70                    |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 135     | 0         |                       | 16.77                    |                        | 17.0                | 0.0      |  |
| 100                               | PI/2 BPSK  | 135     | 69        |                       | 16.72                    |                        | 17.0                | 0.0      |  |
| 100                               | PI/2 BPSK  | 135     | 138       |                       | 16.69                    |                        | 17.0                | 0.0      |  |
| 100                               | PI/2 BPSK  | 270     | 0         |                       | 16.71                    |                        |                     |          |  |
| 100                               | QPSK       | 1       | 1         |                       | 16.79                    |                        |                     |          |  |
| 100                               | QPSK       | 1       | 137       |                       | 16.63                    |                        | 17.0                | 0.0      |  |
| 100                               | QPSK       | 1       | 271       |                       | 16.66                    |                        |                     |          |  |
| 100                               | QPSK       | 135     | 0         |                       | 16.76                    |                        | 17.0                | 0.0      |  |
| 100                               | QPSK       | 135     | 69        |                       | 16.79                    |                        | 17.0                | 0.0      |  |
| 100                               | QPSK       | 135     | 138       |                       | 16.65                    |                        | 17.0                | 0.0      |  |
| 100                               | QPSK       | 270     | 0         |                       | 16.71                    |                        |                     |          |  |
| 100                               | 16QAM      | 1       | 1         |                       | 16.24                    |                        | 17.0                | 0.0      |  |
| 100                               | 64QAM      | 1       | 1         |                       | 16.68                    |                        | 17.0                | 0.0      |  |
| 100                               | 256QAM     | 1       | 1         |                       | 16.41                    |                        | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 649334                | 650000                   | 650668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3740.01               | 3750                     | 3760.02                |                     |          |  |
| 80                                | QPSK       | 1       | 1         | 16.40                 | 16.64                    | 16.57                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 646668                | 650000                   | 651334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3730.02               | 3750                     | 3770.01                |                     |          |  |
| 60                                | QPSK       | 1       | 1         | 16.40                 | 16.61                    | 16.49                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 646334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3725.01               | 3750                     | 3775.02                |                     |          |  |
| 50                                | QPSK       | 1       | 1         | 16.30                 | 16.65                    | 16.64                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 646000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3720                  | 3750                     | 3780                   |                     |          |  |
| 40                                | QPSK       | 1       | 1         | 16.37                 | 16.72                    | 16.53                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 647668                | 650000                   | 652334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3715.02               | 3750                     | 3785.01                |                     |          |  |
| 30                                | QPSK       | 1       | 1         | 16.49                 | 16.68                    | 16.61                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3710.01               | 3750                     | 3790.02                |                     |          |  |
| 20                                | QPSK       | 1       | 1         | 16.45                 | 16.62                    | 16.65                  | 17.0                | 0.0      |  |

| PC2&3 Par27Q n78 Ant3 DS14 DFT-30 |            |         |           |                       |                          |                        |                     |          |  |
|-----------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| 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                           |            |         |           | 633334                |                          |                        |                     |          |  |
| Frequency (MHz)                   |            |         |           | 3500.01               |                          |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 1       | 1         |                       | 16.66                    |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 1       | 137       |                       | 16.67                    |                        | 17.0                | 0.0      |  |
| 100                               | PI/2 BPSK  | 1       | 271       |                       | 16.50                    |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 135     | 0         |                       | 16.64                    |                        | 17.0                | 0.0      |  |
| 100                               | PI/2 BPSK  | 135     | 69        |                       | 16.67                    |                        | 17.0                | 0.0      |  |
| 100                               | PI/2 BPSK  | 135     | 138       |                       | 16.65                    |                        | 17.0                | 0.0      |  |
| 100                               | PI/2 BPSK  | 270     | 0         |                       | 16.53                    |                        |                     |          |  |
| 100                               | QPSK       | 1       | 1         |                       | 16.76                    |                        |                     |          |  |
| 100                               | QPSK       | 1       | 137       |                       | 16.62                    |                        | 17.0                | 0.0      |  |
| 100                               | QPSK       | 1       | 271       |                       | 16.49                    |                        |                     |          |  |
| 100                               | QPSK       | 135     | 0         |                       | 16.55                    |                        | 17.0                | 0.0      |  |
| 100                               | QPSK       | 135     | 69        |                       | 16.67                    |                        | 17.0                | 0.0      |  |
| 100                               | QPSK       | 135     | 138       |                       | 16.47                    |                        | 17.0                | 0.0      |  |
| 100                               | QPSK       | 270     | 0         |                       | 16.55                    |                        |                     |          |  |
| 100                               | 16QAM      | 1       | 1         |                       | 16.03                    |                        | 17.0                | 0.0      |  |
| 100                               | 64QAM      | 1       | 1         |                       | 16.51                    |                        | 17.0                | 0.0      |  |
| 100                               | 256QAM     | 1       | 1         |                       | 16.39                    |                        | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3490.02               | 3500.01                  | 3510                   |                     |          |  |
| 80                                | QPSK       | 1       | 109       | 16.55                 | 16.75                    | 16.45                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3480                  | 3500.01                  | 3520.02                |                     |          |  |
| 60                                | QPSK       | 1       | 81        | 16.50                 | 16.69                    | 16.46                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 631668                | 633334                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3475.02               | 3500.01                  | 3525                   |                     |          |  |
| 50                                | QPSK       | 1       | 67        | 16.57                 | 16.67                    | 16.59                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 631334                | 633334                   | 635334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3470.01               | 3500.01                  | 3530.01                |                     |          |  |
| 40                                | QPSK       | 1       | 53        | 16.40                 | 16.63                    | 16.51                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 631000                | 633334                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3465                  | 3500.01                  | 3535.02                |                     |          |  |
| 30                                | QPSK       | 1       | 39        | 16.55                 | 16.69                    | 16.44                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 630668                | 633334                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3460.02               | 3500.01                  | 3540                   |                     |          |  |
| 20                                | QPSK       | 1       | 26        | 16.44                 | 16.68                    | 16.45                  | 17.0                | 0.0      |  |



| Par270 n77 Ant5 DS4 DFT-30 |            |         |           |                       |                          |                        |                     |          |  |
|----------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| 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                    |            |         |           | 650000                | 656000                   | 662000                 |                     |          |  |
| Frequency (MHz)            |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |
| 100                        | PI/2 BPSK  | 1       | 1         | 15.76                 | 15.75                    | 15.68                  | 17.0                | 0.0      |  |
| 100                        | PI/2 BPSK  | 1       | 137       | 15.69                 | 15.67                    | 15.81                  |                     |          |  |
| 100                        | PI/2 BPSK  | 1       | 271       | 15.77                 | 15.75                    | 15.74                  |                     |          |  |
| 100                        | PI/2 BPSK  | 135     | 0         | 15.62                 | 15.59                    | 15.74                  |                     |          |  |
| 100                        | PI/2 BPSK  | 135     | 69        | 15.60                 | 15.77                    | 15.70                  | 17.0                | 0.0      |  |
| 100                        | PI/2 BPSK  | 135     | 138       | 15.58                 | 15.69                    | 15.62                  | 17.0                | 0.0      |  |
| 100                        | PI/2 BPSK  | 270     | 0         | 15.51                 | 15.56                    | 15.42                  |                     |          |  |
| 100                        | QPSK       | 1       | 1         | 15.90                 | 15.95                    | 15.61                  |                     |          |  |
| 100                        | QPSK       | 1       | 137       | 15.76                 | 15.72                    | 15.70                  |                     |          |  |
| 100                        | QPSK       | 1       | 271       | 15.52                 | 15.45                    | 15.52                  | 17.0                | 0.0      |  |
| 100                        | QPSK       | 135     | 0         | 15.67                 | 15.74                    | 15.75                  |                     |          |  |
| 100                        | QPSK       | 135     | 69        | 15.60                 | 15.66                    | 15.77                  |                     |          |  |
| 100                        | QPSK       | 135     | 138       | 15.40                 | 15.60                    | 15.58                  |                     |          |  |
| 100                        | QPSK       | 270     | 0         | 15.52                 | 15.57                    | 15.52                  | 17.0                | 0.0      |  |
| 100                        | 16QAM      | 1       | 1         | 15.55                 | 15.47                    | 15.49                  | 17.0                | 0.0      |  |
| 100                        | 64QAM      | 1       | 1         | 15.61                 | 15.79                    | 15.75                  | 17.0                | 0.0      |  |
| 100                        | 256QAM     | 1       | 1         | 15.50                 | 15.52                    | 15.74                  | 17.0                | 0.0      |  |
| Channel                    |            |         |           | 649334                | 656000                   | 662668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3740.01               | 3840                     | 3940.02                |                     |          |  |
| 80                         | QPSK       | 1       | 1         | 15.78                 | 15.80                    | 15.55                  | 17.0                | 0.0      |  |
| Channel                    |            |         |           | 648668                | 656000                   | 663334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3730.02               | 3840                     | 3950.01                |                     |          |  |
| 60                         | QPSK       | 1       | 1         | 15.80                 | 15.83                    | 15.67                  | 17.0                | 0.0      |  |
| Channel                    |            |         |           | 648334                | 656000                   | 663668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3725.01               | 3840                     | 3955.02                |                     |          |  |
| 50                         | QPSK       | 1       | 1         | 15.71                 | 15.67                    | 15.57                  | 17.0                | 0.0      |  |
| Channel                    |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |
| 40                         | QPSK       | 1       | 1         | 15.58                 | 15.48                    | 15.53                  | 17.0                | 0.0      |  |
| Channel                    |            |         |           | 647668                | 656000                   | 664334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3715.02               | 3840                     | 3965.01                |                     |          |  |
| 30                         | QPSK       | 1       | 1         | 15.40                 | 15.39                    | 15.62                  | 17.0                | 0.0      |  |
| Channel                    |            |         |           | 647334                | 656000                   | 664668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3710.01               | 3840                     | 3970.02                |                     |          |  |
| 20                         | QPSK       | 1       | 1         | 15.48                 | 15.56                    | 15.43                  | 17.0                | 0.0      |  |

| PC2&3 Par27Q n77 Ant5 DS4 DFT-30 |            |         |           |                       |                          |                        |                     |          |          |
|----------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|----------|
| 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                          |            |         |           | 633334                | 633334                   | 633334                 |                     |          |          |
| Frequency (MHz)                  |            |         |           | 3500.01               | 3500.01                  | 3500.01                |                     |          |          |
| 100                              | PI/2 BPSK  | 1       | 1         |                       | 15.74                    |                        | 17.0                |          | 0.0      |
| 100                              | PI/2 BPSK  | 1       | 137       |                       | 15.57                    |                        |                     |          |          |
| 100                              | PI/2 BPSK  | 1       | 271       |                       | 15.67                    |                        |                     |          |          |
| 100                              | PI/2 BPSK  | 135     | 0         |                       | 15.55                    |                        |                     |          |          |
| 100                              | PI/2 BPSK  | 135     | 69        |                       | 15.74                    |                        | 17.0                |          | 0.0      |
| 100                              | PI/2 BPSK  | 135     | 138       |                       | 15.59                    |                        |                     |          |          |
| 100                              | PI/2 BPSK  | 270     | 0         |                       | 15.47                    |                        |                     |          |          |
| 100                              | QPSK       | 1       | 1         |                       | 15.90                    |                        | 17.0                |          | 0.0      |
| 100                              | QPSK       | 1       | 137       |                       | 15.65                    |                        |                     |          |          |
| 100                              | QPSK       | 1       | 271       |                       | 15.36                    |                        |                     |          |          |
| 100                              | QPSK       | 135     | 0         |                       | 15.68                    |                        |                     |          |          |
| 100                              | QPSK       | 135     | 69        |                       | 15.67                    |                        | 17.0                |          | 0.0      |
| 100                              | QPSK       | 135     | 138       |                       | 15.59                    |                        |                     |          |          |
| 100                              | QPSK       | 270     | 0         |                       | 15.63                    |                        |                     |          |          |
| 100                              | 16QAM      | 1       | 1         |                       | 15.44                    |                        | 17.0                |          | 0.0      |
| 100                              | 64QAM      | 1       | 1         |                       | 15.72                    |                        | 17.0                |          | 0.0      |
| 100                              | 256QAM     | 1       | 1         |                       | 15.42                    |                        | 17.0                |          | 0.0      |
| Channel                          |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) |          | MPR (dB) |
| Frequency (MHz)                  |            |         |           | 3490.02               | 3500.01                  | 3510                   |                     |          |          |
| 80                               | QPSK       | 1       | 109       | 15.49                 | 15.69                    | 15.48                  | 17.0                |          | 0.0      |
| Channel                          |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) |          | MPR (dB) |
| Frequency (MHz)                  |            |         |           | 3480                  | 3500.01                  | 3520.02                |                     |          |          |
| 60                               | QPSK       | 1       | 81        | 15.54                 | 15.60                    | 15.42                  | 17.0                |          | 0.0      |
| Channel                          |            |         |           | 631668                | 633334                   | 636000                 | Tune-up limit (dBm) |          | MPR (dB) |
| Frequency (MHz)                  |            |         |           | 3475.02               | 3500.01                  | 3525                   |                     |          |          |
| 50                               | QPSK       | 1       | 67        | 15.59                 | 15.64                    | 15.43                  | 17.0                |          | 0.0      |
| Channel                          |            |         |           | 631334                | 633334                   | 636334                 | Tune-up limit (dBm) |          | MPR (dB) |
| Frequency (MHz)                  |            |         |           | 3470.01               | 3500.01                  | 3530.01                |                     |          |          |
| 40                               | QPSK       | 1       | 53        | 15.68                 | 15.56                    | 15.35                  | 17.0                |          | 0.0      |
| Channel                          |            |         |           | 631000                | 633334                   | 636668                 | Tune-up limit (dBm) |          | MPR (dB) |
| Frequency (MHz)                  |            |         |           | 3465                  | 3500.01                  | 3535.02                |                     |          |          |
| 30                               | QPSK       | 1       | 39        | 15.71                 | 15.52                    | 15.47                  | 17.0                |          | 0.0      |
| Channel                          |            |         |           | 630668                | 633334                   | 636000                 | Tune-up limit (dBm) |          | MPR (dB) |
| Frequency (MHz)                  |            |         |           | 3460.02               | 3500.01                  | 3540                   |                     |          |          |
| 20                               | QPSK       | 1       | 26        | 15.62                 | 15.55                    | 15.41                  | 17.0                |          | 0.0      |

| Par270 n78 Ant5 DS14 DFT-30 |            |         |           |                       |                          |                        |                     |          |  |
|-----------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| 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                     |            |         |           | 650000                |                          |                        |                     |          |  |
| Frequency (MHz)             |            |         |           | 3750                  |                          |                        |                     |          |  |
| 100                         | PI/2 BPSK  | 1       | 1         |                       | 15.57                    |                        | 17.0                | 0.0      |  |
| 100                         | PI/2 BPSK  | 1       | 137       |                       | 15.44                    |                        |                     |          |  |
| 100                         | PI/2 BPSK  | 1       | 271       |                       | 15.58                    |                        |                     |          |  |
| 100                         | PI/2 BPSK  | 135     | 0         |                       | 15.57                    |                        |                     |          |  |
| 100                         | PI/2 BPSK  | 135     | 69        |                       | 15.58                    |                        | 17.0                | 0.0      |  |
| 100                         | PI/2 BPSK  | 135     | 138       |                       | 15.60                    |                        | 17.0                | 0.0      |  |
| 100                         | PI/2 BPSK  | 270     | 0         |                       | 15.48                    |                        |                     |          |  |
| 100                         | QPSK       | 1       | 1         |                       | 15.65                    |                        | 17.0                | 0.0      |  |
| 100                         | QPSK       | 1       | 137       |                       | 15.54                    |                        |                     |          |  |
| 100                         | QPSK       | 1       | 271       |                       | 15.57                    |                        |                     |          |  |
| 100                         | QPSK       | 135     | 0         |                       | 15.60                    |                        |                     |          |  |
| 100                         | QPSK       | 135     | 69        |                       | 15.62                    |                        | 17.0                | 0.0      |  |
| 100                         | QPSK       | 135     | 138       |                       | 15.55                    |                        | 17.0                | 0.0      |  |
| 100                         | QPSK       | 270     | 0         |                       | 15.45                    |                        |                     |          |  |
| 100                         | 16QAM      | 1       | 1         |                       | 15.09                    |                        | 17.0                | 0.0      |  |
| 100                         | 64QAM      | 1       | 1         |                       | 15.37                    |                        | 17.0                | 0.0      |  |
| 100                         | 256QAM     | 1       | 1         |                       | 15.21                    |                        | 17.0                | 0.0      |  |
| Channel                     |            |         |           | 649334                | 650000                   | 650668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3740.01               | 3750                     | 3760.02                |                     |          |  |
| 80                          | QPSK       | 1       | 1         | 15.35                 | 15.54                    | 15.23                  | 17.0                | 0.0      |  |
| Channel                     |            |         |           | 646668                | 650000                   | 651334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3730.02               | 3750                     | 3770.01                |                     |          |  |
| 60                          | QPSK       | 1       | 1         | 15.27                 | 15.57                    | 15.35                  | 17.0                | 0.0      |  |
| Channel                     |            |         |           | 646334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3725.01               | 3750                     | 3775.02                |                     |          |  |
| 50                          | QPSK       | 1       | 1         | 15.25                 | 15.30                    | 15.14                  | 17.0                | 0.0      |  |
| Channel                     |            |         |           | 646000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3720                  | 3750                     | 3780                   |                     |          |  |
| 40                          | QPSK       | 1       | 1         | 15.24                 | 15.51                    | 15.33                  | 17.0                | 0.0      |  |
| Channel                     |            |         |           | 647668                | 650000                   | 652334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3715.02               | 3750                     | 3785.01                |                     |          |  |
| 30                          | QPSK       | 1       | 1         | 15.18                 | 15.54                    | 15.32                  | 17.0                | 0.0      |  |
| Channel                     |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 3710.01               | 3750                     | 3790.02                |                     |          |  |
| 20                          | QPSK       | 1       | 1         | 15.23                 | 15.51                    | 15.24                  | 17.0                | 0.0      |  |

| PC2&3 Par27Q n78 Ant5 DS14 DFT-30 |            |         |           |                       |                          |                        |                     |          |  |
|-----------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| 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                           |            |         |           | 633334                |                          |                        |                     |          |  |
| Frequency (MHz)                   |            |         |           | 3500.01               |                          |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 1       | 1         |                       | 15.42                    |                        | 17.0                | 0.0      |  |
| 100                               | PI/2 BPSK  | 1       | 137       |                       | 15.27                    |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 1       | 271       |                       | 15.59                    |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 135     | 0         |                       | 15.55                    |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 135     | 69        |                       | 15.50                    |                        | 17.0                | 0.0      |  |
| 100                               | PI/2 BPSK  | 135     | 138       |                       | 15.49                    |                        |                     |          |  |
| 100                               | PI/2 BPSK  | 270     | 0         |                       | 15.41                    |                        | 17.0                | 0.0      |  |
| 100                               | QPSK       | 1       | 1         |                       | 15.61                    |                        | 17.0                | 0.0      |  |
| 100                               | QPSK       | 1       | 137       |                       | 15.44                    |                        |                     |          |  |
| 100                               | QPSK       | 1       | 271       |                       | 15.50                    |                        |                     |          |  |
| 100                               | QPSK       | 135     | 0         |                       | 15.41                    |                        |                     |          |  |
| 100                               | QPSK       | 135     | 69        |                       | 15.56                    |                        | 17.0                | 0.0      |  |
| 100                               | QPSK       | 135     | 138       |                       | 15.44                    |                        |                     |          |  |
| 100                               | QPSK       | 270     | 0         |                       | 15.41                    |                        | 17.0                | 0.0      |  |
| 100                               | 16QAM      | 1       | 1         |                       | 15.04                    |                        | 17.0                | 0.0      |  |
| 100                               | 64QAM      | 1       | 1         |                       | 15.36                    |                        | 17.0                | 0.0      |  |
| 100                               | 256QAM     | 1       | 1         |                       | 15.06                    |                        | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3490.02               | 3500.01                  | 3510                   |                     |          |  |
| 80                                | QPSK       | 1       | 109       | 15.22                 | 15.45                    | 15.21                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3480                  | 3500.01                  | 3520.02                |                     |          |  |
| 60                                | QPSK       | 1       | 81        | 15.33                 | 15.47                    | 15.18                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 631668                | 633334                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3475.02               | 3500.01                  | 3525                   |                     |          |  |
| 50                                | QPSK       | 1       | 67        | 15.18                 | 15.49                    | 15.25                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 631334                | 633334                   | 635334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3470.01               | 3500.01                  | 3530.01                |                     |          |  |
| 40                                | QPSK       | 1       | 53        | 15.15                 | 15.38                    | 15.33                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 631000                | 633334                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3465                  | 3500.01                  | 3535.02                |                     |          |  |
| 30                                | QPSK       | 1       | 39        | 15.35                 | 15.40                    | 15.38                  | 17.0                | 0.0      |  |
| Channel                           |            |         |           | 630668                | 633334                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 3460.02               | 3500.01                  | 3540                   |                     |          |  |
| 20                                | QPSK       | 1       | 26        | 15.24                 | 15.52                    | 15.21                  | 17.0                | 0.0      |  |

## WLAN/Bluetooth Power

| 2.4GHz WLAN |                   |         |                 | Ant 6 Receiver off  |               | Ant 6 Receiver On   |               |              |
|-------------|-------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | Mode              | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11b 1Mbps     | 1       | 2412            | 18.25               | 19.50         | 12.42               | 14.00         | 99.30        |
|             |                   | 6       | 2437            | 19.06               | 20.50         | 12.73               | 14.00         |              |
|             |                   | 11      | 2462            | 18.69               | 20.50         | 12.68               | 14.00         |              |
|             | 802.11g 6Mbps     | 1       | 2412            | 17.23               | 19.00         |                     | 14.00         | 98.30        |
|             |                   | 6       | 2437            | 17.63               | 19.00         |                     | 14.00         |              |
|             |                   | 11      | 2462            | 18.73               | 19.00         |                     | 14.00         |              |
|             | 802.11n-HT20 MCS0 | 1       | 2412            | 17.19               | 18.00         |                     | 14.00         | 98.20        |
|             |                   | 6       | 2437            | 17.40               | 18.00         |                     | 14.00         |              |
|             |                   | 11      | 2462            | 17.65               | 18.00         |                     | 14.00         |              |
|             | 802.11n-HT40 MCS0 | 3       | 2422            | 12.02               | 14.00         |                     | 14.00         | 95.10        |
|             |                   | 6       | 2437            | 15.36               | 16.00         |                     | 14.00         |              |
|             |                   | 9       | 2452            | 14.40               | 16.00         |                     | 14.00         |              |

| 5.2GHz WLAN |                     |         |                 | Ant 6 Receiver off  |               | Ant 6 Receiver On   |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|--------------|
| 5.2GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 36      | 5180            | 17.64               | 18.50         |                     | 12.50         | 97.60        |
|             |                     | 40      | 5200            | 17.64               | 18.50         |                     | 12.50         |              |
|             |                     | 44      | 5220            | 17.72               | 18.50         |                     | 12.50         |              |
|             |                     | 48      | 5240            | 18.11               | 18.50         |                     | 12.50         |              |
|             | 802.11n-HT20 MCS0   | 36      | 5180            | 16.53               | 18.00         |                     | 12.50         | 97.20        |
|             |                     | 40      | 5200            | 16.47               | 18.00         |                     | 12.50         |              |
|             |                     | 44      | 5220            | 16.60               | 18.00         |                     | 12.50         |              |
|             |                     | 48      | 5240            | 16.79               | 18.00         |                     | 12.50         |              |
|             | 802.11n-HT40 MCS0   | 38      | 5190            | 15.73               | 17.00         |                     | 12.50         | 94.90        |
|             |                     | 46      | 5230            | 15.93               | 17.00         |                     | 12.50         |              |
|             | 802.11ac-VHT20 MCS0 | 36      | 5180            | 16.93               | 18.00         |                     | 12.50         | 97.40        |
|             |                     | 40      | 5200            | 16.93               | 18.00         |                     | 12.50         |              |
|             |                     | 44      | 5220            | 17.06               | 18.00         |                     | 12.50         |              |
|             | 802.11ac-VHT40 MCS0 | 48      | 5240            | 17.17               | 18.00         |                     | 12.50         | 95.10        |
|             |                     | 38      | 5190            | 15.73               | 17.00         |                     | 12.50         |              |
|             | 802.11ac-VHT80 MCS0 | 42      | 5210            | 14.77               | 16.00         | 11.28               | 12.50         | 90.10        |

| 5.3GHz WLAN |                     |         |                 | Ant 6 Receiver off  |               | Ant 6 Receiver On   |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|--------------|
| 5.3GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 52      | 5280            | 18.06               | 18.50         |                     | 12.50         | 97.60        |
|             |                     | 56      | 5300            | 18.14               | 18.50         |                     | 12.50         |              |
|             |                     | 60      | 5300            | 18.16               | 18.50         |                     | 12.50         |              |
|             |                     | 64      | 5320            | 18.21               | 18.50         |                     | 12.50         |              |
|             | 802.11n-HT20 MCS0   | 52      | 5280            | 16.94               | 18.00         |                     | 12.50         | 97.20        |
|             |                     | 56      | 5280            | 16.98               | 18.00         |                     | 12.50         |              |
|             |                     | 60      | 5300            | 17.17               | 18.00         |                     | 12.50         |              |
|             |                     | 64      | 5320            | 17.20               | 18.00         |                     | 12.50         |              |
|             | 802.11n-HT40 MCS0   | 54      | 5270            | 16.16               | 17.50         |                     | 12.50         | 94.90        |
|             |                     | 62      | 5310            | 16.43               | 17.50         |                     | 12.50         |              |
|             | 802.11ac-VHT20 MCS0 | 52      | 5280            | 16.93               | 18.00         |                     | 12.50         | 97.40        |
|             |                     | 56      | 5280            | 17.05               | 18.00         |                     | 12.50         |              |
|             |                     | 60      | 5300            | 17.17               | 18.00         |                     | 12.50         |              |
|             | 802.11ac-VHT40 MCS0 | 64      | 5320            | 17.15               | 18.00         |                     | 12.50         | 95.10        |
|             |                     | 54      | 5270            | 16.34               | 17.50         |                     | 12.50         |              |
|             | 802.11ac-VHT80 MCS0 | 58      | 5290            | 14.71               | 16.00         | 11.35               | 12.50         | 90.10        |

| 5.8GHz WLAN |                     |         |                 | Ant 6 Receiver off  |               | Ant 6 Receiver On   |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|--------------|
| 5.8GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 100     | 5500            | 17.79               | 18.50         |                     | 12.00         | 97.60        |
|             |                     | 116     | 5580            | 18.07               | 18.50         |                     | 12.00         |              |
|             |                     | 124     | 5620            | 18.15               | 18.50         |                     | 12.00         |              |
|             |                     | 132     | 5660            | 17.99               | 18.50         |                     | 12.00         |              |
|             |                     | 140     | 5700            | 17.84               | 18.50         |                     | 12.00         |              |
|             |                     | 144     | 5720            | 15.01               | 17.00         |                     | 12.00         |              |
|             | 802.11n-HT20 MCS0   | 100     | 5500            | 16.70               | 18.00         |                     | 12.00         | 97.20        |
|             |                     | 116     | 5580            | 17.03               | 18.00         |                     | 12.00         |              |
|             |                     | 124     | 5620            | 17.08               | 18.00         |                     | 12.00         |              |
|             |                     | 132     | 5660            | 16.97               | 18.00         |                     | 12.00         |              |
|             |                     | 140     | 5700            | 16.74               | 18.00         |                     | 12.00         |              |
|             |                     | 144     | 5720            | 13.81               | 15.50         |                     | 12.00         |              |
|             | 802.11n-HT40 MCS0   | 102     | 5510            | 15.94               | 17.00         |                     | 12.00         | 94.90        |
|             |                     | 110     | 5550            | 16.13               | 17.00         |                     | 12.00         |              |
|             |                     | 126     | 5630            | 16.35               | 17.00         |                     | 12.00         |              |
|             |                     | 134     | 5670            | 16.14               | 17.00         |                     | 12.00         |              |
|             |                     | 142     | 5710            | 13.79               | 15.50         |                     | 12.00         |              |
|             |                     | 100     | 5500            | 16.82               | 17.00         |                     | 12.00         |              |
|             | 802.11ac-VHT20 MCS0 | 116     | 5580            | 16.94               | 17.00         |                     | 12.00         | 97.40        |
|             |                     | 124     | 5620            | 17.16               | 18.00         |                     | 12.00         |              |
|             |                     | 132     | 5660            | 17.11               | 18.00         |                     | 12.00         |              |
|             |                     | 140     | 5700            | 16.70               | 17.00         |                     | 12.00         |              |
|             |                     | 144     | 5720            | 13.80               | 15.50         |                     | 12.00         |              |
|             |                     | 102     | 5510            | 15.95               | 17.00         |                     | 12.00         |              |
|             | 802.11ac-VHT40 MCS0 | 110     | 5550            | 16.09               | 17.00         |                     | 12.00         | 95.10        |
|             |                     | 126     | 5630            | 16.34               | 17.00         |                     | 12.00         |              |
|             |                     | 134     | 5670            | 16.08               | 17.00         |                     | 12.00         |              |
|             |                     | 142     | 5710            | 13.81               | 15.50         |                     | 12.00         |              |
|             |                     | 106     | 5530            | 14.74               | 16.00         | 10.78               | 12.00         | 90.10        |
|             |                     | 122     | 5610            | 15.02               | 15.50         | 11.08               | 12.00         |              |
|             | 802.11ac-VHT80 MCS0 | 138     | 5690            | 13.13               | 15.00         | 10.98               | 12.00         |              |

| 5.8GHz WLAN |                     |         |                 | Ant 6 Receiver off  |               | Ant 6 Receiver On   |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|--------------|
| 5.8GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 148     | 5745            | 16.51               | 18.00         |                     | 11.50         | 97.60        |
|             |                     | 157     | 5785            | 16.40               | 18.00         |                     | 11.50         |              |
|             |                     | 165     | 5825            | 16.33               | 18.00         |                     | 11.50         |              |
|             | 802.11n-HT20 MCS0   | 148     | 5745            | 15.47               | 17.00         |                     | 11.50         | 97.20        |
|             |                     | 157     | 5785            | 15.31               | 17.00         |                     | 11.50         |              |
|             |                     | 165     | 5825            | 15.41               | 17.00         |                     | 11.50         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 14.54               | 16.50         |                     | 11.50         | 94.90        |
|             |                     | 159     | 5755            | 14.40               | 16.00         |                     | 11.50         |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            | 15.41               | 17.00         |                     | 11.50         | 97.40        |
|             |                     | 157     | 5785            | 15.32               | 17.00         |                     | 11.50         |              |
|             |                     | 165     | 5825            | 15.41               | 17.00         |                     | 11.50         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 14.56               | 16.50         |                     | 11.50         | 95.10        |
|             |                     | 159     | 5755            | 14.43               | 16.00         |                     | 11.50         |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            | 13.43               | 15.00         | 10.35               | 11.50         | 90.10        |

### BT BR/EDR

| Mode     | Channel       | Frequency (MHz) | Average power (dBm) |       |       |
|----------|---------------|-----------------|---------------------|-------|-------|
|          |               |                 | 1Mbps               | 2Mbps | 3Mbps |
| BR / EDR | CH 00         | 2402            | 9.54                | 8.86  | 9.72  |
|          | CH 39         | 2444            | 9.61                | 9.12  | 9.74  |
|          | CH 78         | 2486            | 9.52                | 8.95  | 9.33  |
|          | Tune-up Limit |                 | 11                  | 11    | 11    |

### BT LE v4.0

| Mode | Channel       | Frequency (MHz) | Average power (dBm) |
|------|---------------|-----------------|---------------------|
| LE   | CH 00         | 2402            | 5.74                |
|      | CH 19         | 2440            | 5.88                |
|      | CH 39         | 2480            | 5.68                |
|      | Tune-up Limit |                 | 7.00                |

### BT LE v5.0

| Mode | Channel       | Frequency (MHz) | Average power (dBm) |
|------|---------------|-----------------|---------------------|
| LE   | CH 00         | 2402            | 5.50                |
|      | CH 19         | 2440            | 5.61                |
|      | CH 39         | 2480            | 5.42                |
|      | Tune-up Limit |                 | 7.00                |