

10672	AAD	IEEE 802.11ax (20MHz, MCS1, 90pc dc)	WLAN	8.57	± 9.6 %
10673	AAD	IEEE 802.11ax (20MHz, MCS2, 90pc dc)	WLAN	8.78	± 9.6 %
10674	AAD	IEEE 802.11ax (20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10675	AAD	IEEE 802.11ax (20MHz, MCS4, 90pc dc)	WLAN	8.90	± 9.6 %
10676	AAD	IEEE 802.11ax (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10677	AAD	IEEE 802.11ax (20MHz, MCS6, 90pc dc)	WLAN	8.73	± 9.6 %
10678	AAD	IEEE 802.11ax (20MHz, MCS7, 90pc dc)	WLAN	8.78	± 9.6 %
10679	AAD	IEEE 802.11ax (20MHz, MCS8, 90pc dc)	WLAN	8.89	± 9.6 %
10680	AAD	IEEE 802.11ax (20MHz, MCS9, 90pc dc)	WLAN	8.80	± 9.6 %
10681	AAG	IEEE 802.11ax (20MHz, MCS10, 90pc dc)	WLAN	8.62	± 9.6 %
10682	AAF	IEEE 802.11ax (20MHz, MCS11, 90pc dc)	WLAN	8.83	± 9.6 %
10683	AAA	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	AAE	IEEE 802.11ax (20MHz, MCS4, 99pc dc)	WLAN	8.45	± 9.6 %
10688	AAE	IEEE 802.11ax (20MHz, MCS5, 99pc dc)	WLAN	8.29	± 9.6 %
10689	AAD	IEEE 802.11ax (20MHz, MCS6, 99pc dc)	WLAN	8.55	± 9.6 %
10690	AAE	IEEE 802.11ax (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
10691	AAB	IEEE 802.11ax (20MHz, MCS8, 99pc dc)	WLAN	8.25	± 9.6 %
10692	AAA	IEEE 802.11ax (20MHz, MCS9, 99pc dc)	WLAN	8.29	± 9.6 %
10693	AAA	IEEE 802.11ax (20MHz, MCS10, 99pc dc)	WLAN	8.25	± 9.6 %
10694	AAA	IEEE 802.11ax (20MHz, MCS11, 99pc dc)	WLAN	8.57	± 9.6 %
10695	AAA	IEEE 802.11ax (40MHz, MCS0, 90pc dc)	WLAN	8.78	± 9.6 %
10696	AAA	IEEE 802.11ax (40MHz, MCS1, 90pc dc)	WLAN	8.91	± 9.6 %
10697	AAA	IEEE 802.11ax (40MHz, MCS2, 90pc dc)	WLAN	8.61	± 9.6 %
10698	AAA	IEEE 802.11ax (40MHz, MCS3, 90pc dc)	WLAN	8.89	± 9.6 %
10699	AAA	IEEE 802.11ax (40MHz, MCS4, 90pc dc)	WLAN	8.82	± 9.6 %
10700	AAA	IEEE 802.11ax (40MHz, MCS5, 90pc dc)	WLAN	8.73	± 9.6 %
10701	AAA	IEEE 802.11ax (40MHz, MCS6, 90pc dc)	WLAN	8.86	± 9.6 %
10702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc dc)	WLAN	8.70	± 9.6 %
10703	AAA	IEEE 802.11ax (40MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10704	AAA	IEEE 802.11ax (40MHz, MCS9, 90pc dc)	WLAN	8.56	± 9.6 %
10705	AAA	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	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	± 9.6 %
10768	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10769	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10770	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10771	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10772	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	± 9.6 %
10773	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	± 9.6 %
10774	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10775	AAC	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10776	AAC	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	AAC	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	AAC	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10781	AAC	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10782	AAC	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10783	AAC	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %

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



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

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

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



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

The detailed power table are shown as follows.



Full Power

Ant 0								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.89	31.91	31.97	33.50	22.89	22.91	22.97	24.50
GPRS 1 Tx slot	31.85	31.90	31.96	33.50	22.85	22.90	22.96	24.50
GPRS 2 Tx slots	30.83	31.04	30.98	32.00	24.83	25.04	24.98	26.00
GPRS 3 Tx slots	29.03	29.20	29.13	30.00	24.77	24.94	24.87	25.74
GPRS 4 Tx slots	27.82	27.94	27.85	29.00	24.82	24.94	24.85	26.00
EDGE 1 Tx slot	25.48	25.38	25.44	27.00	16.48	16.38	16.44	18.00
EDGE 2 Tx slots	24.01	24.03	23.93	25.00	18.01	18.03	17.93	19.00
EDGE 3 Tx slots	21.83	21.51	21.55	23.00	17.57	17.25	17.29	18.74
EDGE 4 Tx slots	20.22	20.21	20.21	21.00	17.22	17.21	17.21	18.00

Ant 4								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.78	31.88	31.70	33.50	22.78	22.88	22.70	24.50
GPRS 1 Tx slot	31.76	31.84	31.68	33.50	22.76	22.84	22.68	24.50
GPRS 2 Tx slots	30.71	30.86	30.77	32.00	24.71	24.86	24.77	26.00
GPRS 3 Tx slots	28.85	29.01	28.89	30.00	24.59	24.75	24.63	25.74
GPRS 4 Tx slots	27.61	27.83	27.63	29.00	24.61	24.83	24.63	26.00
EDGE 1 Tx slot	25.23	25.32	25.38	27.00	16.23	16.32	16.38	18.00
EDGE 2 Tx slots	23.89	23.82	23.88	25.00	17.89	17.82	17.88	19.00
EDGE 3 Tx slots	21.61	21.57	21.44	23.00	17.35	17.31	17.18	18.74
EDGE 4 Tx slots	20.03	20.12	20.04	21.00	17.03	17.12	17.04	18.00

Ant 0								
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.22	29.03	29.01	30.50	20.22	20.03	20.01	21.50
GPRS 1 Tx slot	29.17	29.02	28.99	30.50	20.17	20.02	19.99	21.50
GPRS 2 Tx slots	28.37	28.23	28.22	29.50	22.37	22.23	22.22	23.50
GPRS 3 Tx slots	26.58	26.47	26.45	27.50	22.32	22.21	22.19	23.24
GPRS 4 Tx slots	25.61	25.65	25.36	26.50	22.61	22.65	22.36	23.50
EDGE 1 Tx slot	24.97	25.01	24.78	26.00	15.97	16.01	15.78	17.00
EDGE 2 Tx slots	23.65	23.76	23.47	24.00	17.65	17.76	17.47	18.00
EDGE 3 Tx slots	21.31	21.37	21.05	22.00	17.05	17.11	16.79	17.74
EDGE 4 Tx slots	20.12	19.93	19.70	20.50	17.12	16.93	16.70	17.50

Band	TX Channel	Rx Channel	Frequency (MHz)	ANT4			ANT0			ANT0			ANT4		
				WCDMA II	WCDMA II	WCDMA II	WCDMA IV	WCDMA IV	WCDMA IV	WCDMA V	WCDMA V	WCDMA V	WCDMA V	WCDMA V	WCDMA V
3GPP Rel 99	AMR 12.2Kbps	9262	9400	9538	1312	1413	1513	4132	4182	4233	4132	4182	4233		
3GPP Rel 99	RMC 12.2Kbps	9662	9800	9938	1537	1638	1738	4357	4407	4458	4357	4407	4458		
3GPP Rel 6	HSDPA Subtest-1	1852.4	1880	1907.6	1712.4	1732.6	1752.6	626.4	636.4	646.6	626.4	636.4	646.6		
3GPP Rel 6	HSDPA Subtest-2	23.10	23.12	22.87	24.00	22.73	22.95	22.90	24.00	23.20	23.26	23.11	24.00		
3GPP Rel 6	HSDPA Subtest-3	23.13	23.14	22.97	24.00	22.75	22.99	22.97	24.00	23.26	23.27	23.14	24.00		
3GPP Rel 6	HSDPA Subtest-4	22.60	22.57	22.51	23.00	22.06	21.98	22.04	23.50	22.70	22.66	22.69	23.00		
3GPP Rel 6	HSUPA Subtest-1	22.56	22.56	22.56	23.00	22.05	21.96	21.99	23.50	22.64	22.65	22.66	23.00		
3GPP Rel 6	HSUPA Subtest-2	22.10	22.09	22.06	22.50	21.61	21.52	21.54	23.00	22.20	22.16	22.19	22.50		
3GPP Rel 6	HSUPA Subtest-3	22.07	22.08	22.05	22.50	21.54	21.44	21.50	23.00	22.17	22.18	22.21	22.50		
3GPP Rel 6	HSUPA Subtest-4	22.57	22.55	22.48	23.00	22.03	21.96	22.01	22.50	22.67	22.63	22.66	23.00		
3GPP Rel 6	HSUPA Subtest-5	22.53	22.54	22.53	23.00	22.02	21.94	21.96	22.50	22.61	22.62	22.63	23.00		
3GPP Rel 6	HSUPA Subtest-6	22.07	22.07	22.03	22.50	21.58	21.50	21.51	22.00	22.17	22.13	22.16	22.50		
3GPP Rel 6	HSUPA Subtest-7	22.04	22.06	22.02	22.50	21.51	21.42	21.47	23.00	22.14	22.15	22.18	22.50		
3GPP Rel 6	HSUPA Subtest-8	20.54	20.53	20.49	21.00	20.17	20.14	20.18	20.50	20.64	20.59	20.62	21.00		
3GPP Rel 6	HSUPA Subtest-9	20.56	20.57	20.51	21.00	20.20	20.09	20.18	21.00	20.62	20.62	20.60	21.00		
3GPP Rel 6	HSUPA Subtest-10	21.60	21.57	21.56	22.00	21.24	21.14	21.02	22.00	21.89	21.66	21.64	22.00		
3GPP Rel 6	HSUPA Subtest-11	20.10	20.03	20.09	21.00	19.78	19.65	19.71	21.00	20.37	20.31	20.35	21.00		
3GPP Rel 6	HSUPA Subtest-12	21.52	21.52	21.52	23.00	21.25	21.15	21.23	23.00	21.64	21.64	21.67	23.00		
3GPP Rel 6	HSUPA Subtest-13	19.00	19.34	19.22	20.50	19.23	19.28	19.37	20.50	19.66	19.46	19.33	20.50		
3GPP Rel 6	HSUPA Subtest-14														
3GPP Rel 6	HSUPA Subtest-15														
3GPP Rel 6	HSUPA Subtest-16														
3GPP Rel 6	HSUPA Subtest-17														
3GPP Rel 6	HSUPA Subtest-18														
3GPP Rel 6	HSUPA Subtest-19														
3GPP Rel 6	HSUPA Subtest-20														
3GPP Rel 6	HSUPA Subtest-21														
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3GPP Rel 6	HSUPA Subtest-31														
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3GPP Rel 6	HSUPA Subtest-40														
3GPP Rel 6	HSUPA Subtest-41														
3GPP Rel 6	HSUPA Subtest-42														
3GPP Rel 6	HSUPA Subtest-43														
3GPP Rel 6	HSUPA Subtest-44														
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3GPP Rel 6	HSUPA Subtest-46														
3GPP Rel 6	HSUPA Subtest-47														
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3GPP Rel 6	HSUPA Subtest-59														
3GPP Rel 6	HSUPA Subtest-60														
3GPP Rel 6	HSUPA Subtest-61														
3GPP Rel 6	HSUPA Subtest-62														
3GPP Rel 6	HSUPA Subtest-63														
3GPP Rel 6	HSUPA Subtest-64														
3GPP Rel 6	HSUPA Subtest-65														
3GPP Rel 6	HSUPA Subtest-66														



Band 2 Ant 4										
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	22.72	22.92	22.71				
20	QPSK	1	49	22.83	22.89	22.85	24	0		
20	QPSK	1	99	22.92	22.87	22.88				
20	QPSK	50	0	21.88	21.94	21.91				
20	QPSK	50	24	21.90	21.90	21.89				
20	QPSK	50	50	21.81	21.85	21.80	23	1		
20	QPSK	100	0	21.86	21.94	21.84				
20	16QAM	1	0	22.00	22.17	22.02				
20	16QAM	1	49	22.18	22.23	22.19	23	1		
20	16QAM	1	99	22.03	22.01	22.03				
20	16QAM	50	0	20.87	20.80	20.87				
20	16QAM	50	24	20.85	20.82	20.82				
20	16QAM	50	50	20.78	20.82	20.78	22	2		
20	16QAM	100	0	20.81	20.81	20.78				
20	64QAM	1	0	20.90	20.97	20.89				
20	64QAM	1	49	21.08	21.08	21.04	22	2		
20	64QAM	1	99	20.86	20.86	20.91				
20	64QAM	50	0	19.85	19.79	19.85				
20	64QAM	50	24	19.82	19.83	19.85				
20	64QAM	50	50	19.76	19.82	19.75	21	3		
20	64QAM	100	0	19.82	19.81	19.88				
Channel				18875	18900	19125				
Frequency (MHz)				18875	18900	19125				
15	QPSK	1	0	22.79	22.76	22.77				
15	QPSK	1	37	22.90	22.90	22.87	24	0		
15	QPSK	1	74	22.73	22.75	22.80				
15	QPSK	36	0	21.84	21.89	21.93				
15	QPSK	36	20	21.83	21.87	21.88	23	1		
15	QPSK	36	39	21.74	21.85	21.87				
15	QPSK	75	0	21.86	21.85	21.92				
15	16QAM	1	0	22.07	22.17	22.06				
15	16QAM	1	37	22.17	22.27	22.16	23	1		
15	16QAM	1	74	22.09	22.06	22.16				
15	16QAM	36	0	20.85	20.82	20.84				
15	16QAM	36	20	20.82	20.90	20.87	22	2		
15	16QAM	36	39	20.77	20.81	20.87				
15	16QAM	75	0	20.79	20.85	20.92				
15	64QAM	1	0	20.98	20.95	20.94				
15	64QAM	1	37	21.03	21.11	21.12	22	2		
15	64QAM	1	74	20.92	20.96	20.99				
15	64QAM	36	0	19.80	19.82	19.82				
15	64QAM	36	20	19.80	19.89	19.87	21	3		
15	64QAM	36	39	19.79	19.79	19.88				
15	64QAM	75	0	19.77	19.86	19.92				
Channel				18850	18900	19150				
Frequency (MHz)				18850	18900	19150				
10	QPSK	1	0	22.85	22.90	22.83				
10	QPSK	1	25	22.87	22.88	22.79	24	0		
10	QPSK	1	49	22.79	22.84	22.70				
10	QPSK	25	0	21.88	21.89	21.99				
10	QPSK	25	12	21.84	21.88	21.95	23	1		
10	QPSK	25	25	21.85	21.88	21.98				
10	QPSK	50	0	21.86	21.92	22.06				
10	16QAM	1	0	22.14	22.26	22.16				
10	16QAM	1	25	22.16	22.26	22.34	23	1		
10	16QAM	1	49	22.07	22.08	22.20				
10	16QAM	25	0	20.85	20.91	21.00				
10	16QAM	25	12	20.86	20.89	20.92	22	2		
10	16QAM	25	25	20.80	20.88	20.98				
10	16QAM	50	0	20.83	20.90	21.01				
10	64QAM	1	0	20.98	21.07	20.99				
10	64QAM	1	25	21.03	21.13	21.14	22	2		
10	64QAM	1	49	20.94	21.00	21.06				
10	64QAM	25	0	19.85	19.89	19.86				
10	64QAM	25	12	19.81	19.89	19.90	21	3		
10	64QAM	25	25	19.82	19.87	19.98				
10	64QAM	50	0	19.83	19.85	20.00				
Channel				18925	18900	19175				
Frequency (MHz)				18925	18900	19175				
5	QPSK	1	0	22.89	22.91	22.78				
5	QPSK	1	12	22.91	22.91	22.76	24	0		
5	QPSK	1	24	22.86	22.90	22.76				
5	QPSK	12	0	21.90	21.92	21.94				
5	QPSK	12	7	21.86	21.90	21.95	23	1		
5	QPSK	12	13	21.84	21.90	21.92				
5	QPSK	25	0	21.86	21.97	21.99				
5	16QAM	1	0	22.15	22.28	22.18				
5	16QAM	1	12	22.07	22.22	22.28	23	1		
5	16QAM	1	24	22.11	22.21	22.26				
5	16QAM	12	0	20.84	20.93	20.95				
5	16QAM	12	7	20.82	20.88	20.96	22	2		
5	16QAM	12	13	20.79	20.90	20.90				
5	16QAM	25	0	20.83	20.92	20.96				
5	64QAM	1	0	21.04	21.10	21.12				
5	64QAM	1	12	21.05	21.11	21.11	22	2		
5	64QAM	1	24	20.99	21.08	21.08				
5	64QAM	12	0	19.87	19.87	19.88				
5	64QAM	12	7	19.81	19.85	19.92	21	3		
5	64QAM	12	13	19.78	19.85	19.90				
5	64QAM	25	0	19.85	19.92	19.96				
Channel				18915	18900	19185				
Frequency (MHz)				18915	18900	19185				
3	QPSK	1	0	22.85	22.88	22.86				
3	QPSK	1	8	22.84	22.87	22.70	24	0		
3	QPSK	1	14	22.64	22.86	22.88				
3	QPSK	8	0	21.85	21.92	21.92				
3	QPSK	8	4	21.83	21.86	21.91	23	1		
3	QPSK	8	7	21.82	21.87	21.92				
3	QPSK	15	0	21.86	21.87	21.92				
3	16QAM	1	0	22.07	22.22	22.07				
3	16QAM	1	8	22.14	22.23	22.26	23	1		
3	16QAM	1	14	22.09	22.18	22.20				
3	16QAM	8	0	20.92	20.98	20.99				
3	16QAM	8	4	20.89	20.91	20.99	22	2		
3	16QAM	8	7	20.89	20.91	20.96				
3	16QAM	15	0	20.86	20.87	20.94				
3	64QAM	1	0	20.99	21.06	21.04				
3	64QAM	1	8	21.01	21.07	21.07	22	2		
3	64QAM	1	14	20.98	21.07	21.10				
3	64QAM	8	0	19.86	19.91	19.94				
3	64QAM	8	4	19.85	19.88	19.92	21	3		
3	64QAM	8	7	19.84	19.87	19.92				
3	64QAM	15	0	19.81	19.84	19.90				
Channel				18907	18900	19193				
Frequency (MHz)				18907	18900	19193				
1.4	QPSK	1	0	22.83	22.88	22.71				
1.4	QPSK	1	3	22.84	22.90	22.73	24	0		
1.4	QPSK	1	5	22.82	22.88	22.89				
1.4	QPSK	3	0	22.86	22.91	22.72				
1.4	QPSK	3	1	22.86	22.91	22.75				
1.4	QPSK	3	3	22.84	22.86	22.73	23	1		
1.4	16QAM	1	0	22.16	22.23	22.24				
1.4	16QAM	1	3	22.13	22.25	22.22	23	1		
1.4	16QAM	1	5	22.13	22.24	22.25				
1.4	16QAM	3	0	21.85	21.91	21.92				
1.4	16QAM	3	1	21.85	21.89	21.88	22	2		
1.4	16QAM	3	3	21.83	21.86	21.86				
1.4	16QAM	6	0	20.89	20.99	20.95	22	2		
1.4	64QAM	1	0	20.98	21.06	21.06				
1.4	64QAM	1	3	21.02	21.05	21.08	22	2		
1.4	64QAM	1	5	21.00	21.03	21.02				
1.4	64QAM	3	0	20.89	20.95	20.97				
1.4	64QAM	3	1	20.91	20.99	20.97	21	3		
1.4	64QAM	3	3	20.87	20.91	20.95				
1.4	64QAM	6	0	19.82	19.88	19.88	21	3		

Band 4 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				20050	20175	20300				
Frequency (MHz)				1720	1732.5	1745				
20	QPSK	1	0	23.01	23.07	23.03				
20	QPSK	1	49	22.73	22.85	22.86	24	0		
20	QPSK	1	99	22.98	22.98	22.87				
20	QPSK	50	0	21.99	22.24	22.11				
20	QPSK	50	24	21.99	22.20	22.12				
20	QPSK	50	50	21.84	22.20	22.20	23	1		
20	QPSK	100	0	21.92	22.14	22.13				
20	16QAM	1	0	22.08	22.11	22.30				
20	16QAM	1	49	22.30	22.37	22.47	23	1		
20	16QAM	1	99	22.09	22.27	22.29				
20	16QAM	50	0	20.87	21.05	21.03				
20	16QAM	50	24	20.85	21.09	21.16				
20	16QAM	50	50	20.89	21.16	21.21	22	2		





Band 5 Ant 4											
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				20450	20525	20600					
Frequency (MHz)				829	836.5	844					
10	QPSK	1	0	22.70	22.90	22.87					
10	QPSK	1	25	22.67	22.99	22.98			24	0	
10	QPSK	1	49	22.60	22.99	22.98					
10	QPSK	25	0	21.96	21.90	21.67					
10	QPSK	25	12	21.61	21.95	21.86					
10	QPSK	25	25	21.65	21.49	21.72			23	1	
10	QPSK	50	0	21.58	21.76	21.63					
10	16QAM	1	0	21.71	21.72	21.90					
10	16QAM	1	25	21.74	21.93	21.78			23	1	
10	16QAM	1	49	21.79	21.81	21.59					
10	16QAM	25	0	20.67	20.69	20.84					
10	16QAM	25	12	20.76	20.59	20.83					
10	16QAM	25	25	20.50	20.87	20.51			22	2	
10	16QAM	50	0	20.59	20.80	20.66					
10	64QAM	1	0	20.69	20.74	20.98					
10	64QAM	1	25	20.71	20.75	20.59			22	2	
10	64QAM	1	49	20.84	20.56	20.78					
10	64QAM	25	0	19.73	19.77	19.64					
10	64QAM	25	12	19.52	19.54	19.88					
10	64QAM	25	25	19.58	19.83	19.78			21	3	
10	64QAM	50	0	19.58	19.67	19.56					
Channel				20525	20595	20665					
Frequency (MHz)				826.5	833.5	841.5					
5	QPSK	1	0	22.58	22.48	22.48					
5	QPSK	1	12	22.58	22.49	22.58			24	0	
5	QPSK	1	24	22.49	22.50	22.67					
5	QPSK	12	0	21.65	21.65	21.55					
5	QPSK	12	7	21.62	21.72	21.68			23	1	
5	QPSK	12	13	21.58	21.72	21.52					
5	QPSK	25	0	21.69	21.67	21.54					
5	16QAM	1	0	21.71	21.84	21.68					
5	16QAM	1	12	21.83	21.92	21.70			23	1	
5	16QAM	1	24	21.94	21.76	21.69					
5	16QAM	12	0	20.85	20.51	20.78					
5	16QAM	12	7	20.82	20.85	20.53					
5	16QAM	12	13	20.59	20.82	20.65			22	2	
5	16QAM	25	0	20.56	20.72	20.72					
5	64QAM	1	0	20.55	20.86	20.54					
5	64QAM	1	12	20.97	20.98	20.56			22	2	
5	64QAM	1	24	20.66	20.76	20.68					
5	64QAM	12	0	19.59	19.58	19.59					
5	64QAM	12	7	19.48	19.54	19.58					
5	64QAM	12	13	19.69	19.58	19.49			21	3	
5	64QAM	25	0	19.50	19.59	19.55					
Channel				20615	20625	20635					
Frequency (MHz)				825.5	836.5	847.5					
3	QPSK	1	0	22.58	22.50	22.51					
3	QPSK	1	8	22.54	22.67	22.46			24	0	
3	QPSK	1	14	22.50	22.60	22.66					
3	QPSK	8	0	21.66	21.69	21.54					
3	QPSK	8	4	21.61	21.71	21.66			23	1	
3	QPSK	8	7	21.73	21.87	21.56					
3	QPSK	15	0	21.65	21.60	21.66					
3	16QAM	1	0	21.89	21.96	21.59					
3	16QAM	1	8	21.94	21.84	21.53			23	1	
3	16QAM	1	14	21.82	21.85	21.93					
3	16QAM	8	0	20.83	20.80	20.55					
3	16QAM	8	4	20.83	20.84	20.78					
3	16QAM	8	7	20.71	20.66	20.57			22	2	
3	16QAM	15	0	20.83	20.66	20.58					
3	64QAM	1	0	20.79	20.79	20.80					
3	64QAM	1	8	20.69	20.79	20.66			22	2	
3	64QAM	1	14	20.70	20.79	20.56					
3	64QAM	8	0	19.76	19.71	19.57					
3	64QAM	8	4	19.52	19.82	19.85					
3	64QAM	8	7	19.75	19.68	19.66			21	3	
3	64QAM	15	0	19.47	19.66	19.54					
Channel				20407	20525	20643					
Frequency (MHz)				824.7	836.5	848.3					
1.4	QPSK	1	0	22.66	22.52	22.80					
1.4	QPSK	1	3	22.49	22.67	22.54			24	0	
1.4	QPSK	1	5	22.66	22.54	22.67					
1.4	QPSK	3	0	22.49	22.69	22.68					
1.4	QPSK	3	1	22.58	22.58	22.50					
1.4	QPSK	3	3	22.66	22.56	22.47			23	1	
1.4	QPSK	6	0	21.54	21.83	21.58					
1.4	16QAM	1	0	21.73	21.90	21.58					
1.4	16QAM	1	3	21.87	21.87	22.03					
1.4	16QAM	1	5	21.80	21.90	21.72					
1.4	16QAM	3	0	21.48	21.81	21.68			23	1	
1.4	16QAM	3	1	21.61	21.83	21.69					
1.4	16QAM	3	3	21.63	21.52	21.48					
1.4	16QAM	6	0	20.56	20.53	20.47			22	2	
1.4	64QAM	1	0	20.85	20.93	20.80					
1.4	64QAM	1	3	20.83	20.72	20.91					
1.4	64QAM	1	5	20.61	20.76	20.63			22	2	
1.4	64QAM	3	0	20.50	20.91	20.51					
1.4	64QAM	3	1	20.65	20.80	20.59					
1.4	64QAM	3	3	20.50	20.76	20.64			21	3	
1.4	64QAM	6	0	19.48	19.54	19.53			21	3	

Band 7 Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				20850	21100	21350					
Frequency (MHz)				2510	2535	2560					
20	QPSK	1	0	22.68	22.68	22.67					
20	QPSK	1	49	22.68	22.52	22.55			24	0	
20	QPSK	1	99	22.98	22.71	22.85					
20	QPSK	50	0	21.73	21.87	21.70					
20	QPSK	50	24	21.82	21.81	21.77			23	1	
20	QPSK	50	50	21.86	21.76	21.73					
20	QPSK	100	0	21.79	21.73	21.72					
20	16QAM	1	0	21.89	21.86	21.82					
20	16QAM	1	49	22.10	22.08	22.04			23	1	
20	16QAM	1	99	21.97	22.03	22.04					
20	16QAM	50	0	20.72	20.66	20.70					
20	16QAM	50	24	20.62	20.77	20.74			22	2	
20	16QAM	50	50	20.81	20.72	20.76					
20	16QAM	100	0	20.75	20.70	20.70					
20	64QAM	1	0	20.78	20.70	20.72					
20	64QAM	1	49	20.96	20.94	20.93			22	2	
20	64QAM	1	99	20.84	20.88	20.90					
20	64QAM	50	0	19.68	19.65	19.67					
20	64QAM	50	24	19.77	19.74	19.72			21	3	
20	64QAM	50	50	19.77	19.74	19.74					
20	64QAM	100	0	19.71	19.70	19.67					
Channel				20825	21100	21375					
Frequency (MHz)				2502.5	2535	2562.5					
15	QPSK	1	0	22.75	22.76	22.78					
15	QPSK	1	37	22.97	22.96	22.98			24	0	
15	QPSK	1	74	22.84	22.86	22.91					
15	QPSK	36	0	22.01	22.01	21.86					
15	QPSK	36	20	22.11	22.04	21.82			23	1	
15	QPSK	36	39	22.12	22.01	21.86					
15	QPSK	75	0	22.07	22.09	21.90					
15	16QAM	1	0	22.26	22.24	22.08					
15	16QAM	1	37	22.34	22.37	22.26			23	1	
15	16QAM	1	74	22.32	22.40	22.20					
15	16QAM	36	0	21.01	21.00	20.87					
15	16QAM	36	20	21.07	21.05	20.88			22	2	
15	16QAM	36	39	21.11	21.03	20.87					
15	16QAM	75	0	21.05	21.01						



Band 12 ANT0										
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				2300	2305	2310				
Frequency (MHz)				704	707.5	711				
10	QPSK	1	0	22.78	23.02	22.85				
10	QPSK	1	25	22.86	22.86	22.83			24	0
10	QPSK	1	49	22.90	22.80	22.80				
10	QPSK	25	0	21.97	22.05	21.81				
10	QPSK	25	12	21.85	21.86	21.81			23	1
10	QPSK	25	25	21.93	21.75	21.69				
10	QPSK	50	0	21.76	22.02	21.80				
10	16QAM	1	0	22.21	21.98	22.05			23	1
10	16QAM	1	25	22.15	22.19	21.99				
10	16QAM	1	49	22.21	22.00	22.21				
10	16QAM	25	0	20.99	20.87	20.86				
10	16QAM	25	12	20.91	20.94	20.86			22	2
10	16QAM	25	25	21.12	20.77	20.81				
10	16QAM	50	0	21.06	20.76	20.85				
10	64QAM	1	0	20.84	20.90	20.92				
10	64QAM	1	25	20.98	21.00	20.86			22	2
10	64QAM	1	49	21.02	20.89	21.23				
10	64QAM	25	0	19.88	19.70	19.77				
10	64QAM	25	12	19.85	19.93	19.78				
10	64QAM	25	25	20.14	19.69	19.71			21	3
10	64QAM	50	0	20.06	19.75	19.72				
Channel				2303	2305	2310				
Frequency (MHz)				701.5	707.5	711.5				
5	QPSK	1	0	22.81	22.75	22.30			24	0
5	QPSK	1	12	22.78	22.79	22.89				
5	QPSK	1	24	22.70	22.84	22.65				
5	QPSK	12	0	22.02	21.74	21.77				
5	QPSK	12	7	21.89	21.90	21.68			23	1
5	QPSK	12	13	21.83	21.80	21.69				
5	QPSK	25	0	21.93	21.76	21.73				
5	16QAM	1	0	21.99	22.02	21.91				
5	16QAM	1	12	22.08	22.07	21.98			23	1
5	16QAM	1	24	22.09	22.03	21.87				
5	16QAM	12	0	20.92	20.76	20.74				
5	16QAM	12	7	20.96	20.81	20.86			22	2
5	16QAM	12	13	20.89	20.78	20.67				
5	16QAM	25	0	20.95	20.87	20.79				
5	64QAM	1	0	20.95	20.93	21.01				
5	64QAM	1	12	21.04	20.97	20.89			22	2
5	64QAM	1	24	21.35	21.26	20.88				
5	64QAM	12	0	19.93	19.70	19.65				
5	64QAM	12	7	19.83	19.79	19.67			21	3
5	64QAM	12	13	19.84	19.77	19.58				
5	64QAM	25	0	19.85	19.84	19.73				
Channel				2302	2305	2310				
Frequency (MHz)				700.5	707.5	714.5				
3	QPSK	1	0	22.58	22.57	22.61			24	0
3	QPSK	1	8	22.85	22.86	22.59				
3	QPSK	1	14	22.81	22.99	22.66				
3	QPSK	8	0	21.82	21.84	21.65				
3	QPSK	8	4	21.91	21.88	21.60			23	1
3	QPSK	8	7	21.87	21.85	21.65				
3	QPSK	15	0	21.82	21.78	21.61				
3	16QAM	1	0	22.00	22.11	22.25			23	1
3	16QAM	1	8	22.00	22.44	22.01				
3	16QAM	1	14	22.01	22.14	22.02				
3	16QAM	8	0	20.80	20.88	20.88				
3	16QAM	8	4	21.00	20.92	20.71			22	2
3	16QAM	8	7	20.85	20.84	20.73				
3	16QAM	15	0	20.90	20.86	20.67				
3	64QAM	1	0	21.17	20.96	20.91			22	2
3	64QAM	1	8	20.94	20.99	20.88				
3	64QAM	1	14	20.98	21.12	20.88				
3	64QAM	8	0	19.84	19.87	19.67				
3	64QAM	8	4	19.80	19.83	19.69			21	3
3	64QAM	8	7	19.91	19.88	19.67				
3	64QAM	15	0	19.78	19.74	19.56				
Channel				23017	23095	23173				
Frequency (MHz)				699.7	707.5	715.3				
1.4	QPSK	1	0	22.62	22.87	22.67			24	0
1.4	QPSK	1	3	22.85	22.92	22.69				
1.4	QPSK	1	5	22.80	22.92	22.71				
1.4	QPSK	3	0	22.64	22.76	22.63				
1.4	QPSK	3	1	22.66	22.83	22.57				
1.4	QPSK	3	3	22.59	22.71	22.57				
1.4	QPSK	6	0	21.98	21.89	21.62			23	1
1.4	16QAM	1	0	22.12	22.24	22.06				
1.4	16QAM	1	3	22.24	22.33	22.10				
1.4	16QAM	1	5	22.23	22.28	22.10				
1.4	16QAM	3	0	21.87	21.78	21.59			23	1
1.4	16QAM	3	1	21.89	21.84	21.58				
1.4	16QAM	3	3	21.85	21.84	21.55				
1.4	16QAM	6	0	20.88	21.03	20.77			22	2
1.4	64QAM	1	0	21.31	21.05	20.83				
1.4	64QAM	1	3	21.28	21.09	20.82				
1.4	64QAM	1	5	20.93	21.04	20.82			22	2
1.4	64QAM	3	0	20.96	21.17	20.91				
1.4	64QAM	3	1	21.13	21.20	20.78				
1.4	64QAM	3	3	21.12	20.85	20.83				
1.4	64QAM	6	0	19.82	19.90	19.67			21	3

Band 12 ANT4										
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	22.73	22.75	22.72			24	0
10	QPSK	1	25	22.72	22.89	22.71				
10	QPSK	1	49	22.71	22.85	22.85				
10	QPSK	25	0	21.70	21.71	21.83				
10	QPSK	25	12	21.85	21.67	21.84			23	1
10	QPSK	25	25	21.88	21.53	21.59				
10	QPSK	50	0	21.58	21.69	21.86				
10	16QAM	1	0	21.94	21.86	21.97			23	1
10	16QAM	1	25	21.87	21.90	21.94				
10	16QAM	1	49	21.92	21.90	21.74				
10	16QAM	25	0	20.87	20.82	20.91				
10	16QAM	25	12	20.86	20.83	20.85			22	2
10	16QAM	25	25	20.88	20.83	20.78				
10	16QAM	50	0	20.92	20.81	20.78				
10	64QAM	1	0	20.52	20.53	20.52				
10	64QAM	1	25	20.52	20.46	20.49			22	2
10	64QAM	1	49	20.43	20.43	20.31				
10	64QAM	25	0	19.34	19.32	19.39				
10	64QAM	25	12	19.37	19.33	19.33			21	3
10	64QAM	25	25	19.37	19.26	19.25				
10	64QAM	50	0	19.35	19.31	19.27				
Channel				23035	23095	23155				
Frequency (MHz)				701.5	707.5	711.5				
5	QPSK	1	0	22.87	22.71	22.89			24	0
5	QPSK	1	12	22.84	22.72	22.89				
5	QPSK	1	24	22.86	22.67	22.93				
5	QPSK	12	0	21.66	21.63	21.64				
5	QPSK	12	7	21.60	21.65	21.56			23	1
5	QPSK	12	13	21.59	21.57	21.54				
5	QPSK	25	0	21.64	21.62	21.58				
5	16QAM	1	0	21.88	21.91	21.82				
5	16QAM	1	12	21.87	21.88	21.84			23	1
5	16QAM	1	24	21.89	21.82	21.74				
5	16QAM	12	0	20.84	20.76	20.84				
5	16QAM	12	7	20.78	20.83	20.72			22	2
5	16QAM	12	13	20.70	20.73	20.69				
5	16QAM	25	0	20.84	20.78	20.82				
5	64QAM	1								



Band 17 ANT0										
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				23780	23790	23800				
Frequency (MHz)				709	710	711				
10	QPSK	1	0	23.04	23.07	23.18				
10	QPSK	1	25	22.79	22.87	22.87			24	0
10	QPSK	1	49	22.88	22.78	22.99				
10	QPSK	25	0	21.73	21.74	21.69				
10	QPSK	25	12	21.57	21.59	21.71				
10	QPSK	25	25	21.58	21.58	21.60			23	1
10	QPSK	50	0	21.81	21.72	21.70				
10	16QAM	1	0	21.81	22.11	21.75			23	1
10	16QAM	1	25	22.05	21.98	21.67				
10	16QAM	1	49	21.75	22.09	22.13				
10	16QAM	25	0	20.60	20.68	20.66				
10	16QAM	25	12	20.71	20.71	20.72			22	2
10	16QAM	25	25	20.58	20.61	20.62				
10	16QAM	50	0	20.60	20.58	20.63				
10	64QAM	1	0	20.78	20.74	20.97				
10	64QAM	1	25	20.95	20.85	20.86			22	2
10	64QAM	1	49	20.87	20.73	20.69				
10	64QAM	25	0	19.57	19.52	19.58				
10	64QAM	25	12	19.71	19.68	19.67				
10	64QAM	25	25	19.58	19.51	19.57			21	3
10	64QAM	50	0	19.54	19.55	19.64				
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				709.5	710	713.5				
5	QPSK	1	0	22.68	22.82	22.71			24	0
5	QPSK	1	12	22.79	22.70	22.67				
5	QPSK	1	24	22.82	22.81	22.69				
5	QPSK	12	0	21.64	21.79	21.71				
5	QPSK	12	7	21.71	21.69	21.61			23	1
5	QPSK	12	13	21.72	21.64	21.61				
5	QPSK	25	0	21.76	21.70	21.66				
5	16QAM	1	0	22.25	22.16	21.98				
5	16QAM	1	12	21.90	21.82	22.06			23	1
5	16QAM	1	24	21.75	21.87	21.79				
5	16QAM	12	0	20.61	20.72	20.68				
5	16QAM	12	7	20.70	20.72	20.63			22	2
5	16QAM	12	13	20.70	20.55	20.62				
5	16QAM	25	0	20.80	20.70	20.59				
5	64QAM	1	0	20.98	20.91	20.89				
5	64QAM	1	12	21.19	20.95	21.09			22	2
5	64QAM	1	24	20.85	20.91	20.69				
5	64QAM	12	0	19.69	19.77	19.62				
5	64QAM	12	7	19.87	19.60	19.62				
5	64QAM	12	13	19.69	19.47	19.63			21	3
5	64QAM	25	0	19.73	19.63	19.61				

Band 17 ANT4										
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				23780	23790	23800				
Frequency (MHz)				709	710	711				
10	QPSK	1	0	22.69	22.73	22.85			24	0
10	QPSK	1	25	22.71	22.71	22.70				
10	QPSK	1	49	22.86	22.85	22.83				
10	QPSK	25	0	21.83	21.71	21.70				
10	QPSK	25	12	21.66	21.65	21.65				
10	QPSK	25	25	21.49	21.51	21.55			23	1
10	QPSK	50	0	21.80	21.58	21.63				
10	16QAM	1	0	21.91	21.97	21.92			23	1
10	16QAM	1	25	21.87	21.96	21.80				
10	16QAM	1	49	21.70	21.69	21.67				
10	16QAM	25	0	20.67	20.88	20.92				
10	16QAM	25	12	20.85	20.76	20.77			22	2
10	16QAM	25	25	20.71	20.72	20.73				
10	16QAM	50	0	20.73	20.77	20.83				
10	64QAM	1	0	20.51	20.45	20.38				
10	64QAM	1	25	20.50	20.39	20.48			22	2
10	64QAM	1	49	20.33	20.32	20.34				
10	64QAM	25	0	19.32	19.36	19.34				
10	64QAM	25	12	19.31	19.29	19.27			21	3
10	64QAM	25	25	19.22	19.15	19.20				
10	64QAM	50	0	19.25	19.23	19.29				
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				709.5	710	713.5				
5	QPSK	1	0	22.71	22.72	22.69			24	0
5	QPSK	1	12	22.68	22.70	22.65				
5	QPSK	1	24	22.82	22.67	22.95				
5	QPSK	12	0	21.62	21.69	21.66				
5	QPSK	12	7	21.80	21.64	21.59			23	1
5	QPSK	12	13	21.58	21.53	21.50				
5	QPSK	25	0	21.64	21.63	21.57				
5	16QAM	1	0	21.84	21.95	21.88				
5	16QAM	1	12	21.91	21.81	21.75			23	1
5	16QAM	1	24	21.72	21.88	21.68				
5	16QAM	12	0	20.83	20.94	20.81				
5	16QAM	12	7	20.77	20.83	20.71			22	2
5	16QAM	12	13	20.73	20.70	20.68				
5	16QAM	25	0	20.83	20.81	20.75				
5	64QAM	1	0	20.47	20.51	20.52				
5	64QAM	1	12	20.45	20.37	20.34			22	2
5	64QAM	1	24	20.37	20.37	20.30				
5	64QAM	12	0	19.33	19.32	19.33				
5	64QAM	12	7	19.30	19.30	19.27				
5	64QAM	12	13	19.25	19.24	19.20			21	3
5	64QAM	25	0	19.30	19.27	19.21				

Band 26 for FCC ANT4										
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	22.99	23.12	22.91			24	0
15	QPSK	1	37	22.73	22.82	22.77				
15	QPSK	1	74	22.73	22.83	22.87				
15	QPSK	36	0	21.55	21.74	21.68				
15	QPSK	36	20	21.65	21.69	21.71				
15	QPSK	36	39	21.52	21.72	21.69			23	1
15	QPSK	75	0	21.57	21.77	21.73				
15	16QAM	1	0	21.83	21.91	22.04				
15	16QAM	1	37	21.91	22.08	21.95			23	1
15	16QAM	1	74	21.85	21.97	21.97				
15	16QAM	36	0	20.61	20.75	20.68				
15	16QAM	36	20	20.66	20.66	20.72			22	2
15	16QAM	36	39	20.52	20.74	20.65				
15	16QAM	75	0	20.51	20.74	20.73				
15	64QAM	1	0	20.69	20.87	20.84				
15	64QAM	1	37	20.85	20.96	20.91			22	2
15	64QAM	1	74	20.82	20.77	20.74				
15	64QAM	36	0	19.75	19.93	19.90				
15	64QAM	36	20	19.84	19.91	19.93			21	3
15	64QAM	36	39	19.71	19.94	19.86				
15	64QAM	75	0	19.72	19.88	19.86				
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				819	831.5	844				
10	QPSK	1	0	22.60	22.78	22.71			24	0
10	QPSK	1	25	22.72	22.72	22.79				
10	QPSK	1	49	22.70	22.69	22.70				
10	QPSK	25	0	21.53	21.68	21.68				
10	QPSK	25	12	21.66	21.73	21.71			23	1
10	QPSK	25	25	21.62	21.81	21.78				
10	QPSK	50	0	21.58	21.76	21.87				
10	16QAM	1	0	21.84	21.91	22.04				
10	16QAM	1	25	21.98	22.06	21.90			23	1
10	16QAM	1	49	21.95	21.88	22.04				
10	16QAM	25	0	20.51	20.65	20.84				
10	16QAM	25	12	20.64	20.70	20.72				



Band 26 for FCC ANT0										
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)			26765	26865	26965				
				821.5	831.5	841.5				
15	QPSK	1	0	23.25	23.36	23.31				
15	QPSK	1	37	23.18	23.26	23.33			24	0
15	QPSK	1	74	23.14	23.28	23.21				
15	QPSK	36	0	22.25	22.38	22.26				
15	QPSK	36	20	22.18	22.21	22.22				
15	QPSK	36	39	22.29	22.23	22.25			23	1
15	QPSK	75	0	22.33	22.41	22.14				
15	16QAM	1	0	22.22	22.37	22.30				
15	16QAM	1	37	22.20	22.25	22.22			23	1
15	16QAM	1	74	22.26	22.22	22.17				
15	16QAM	36	0	21.22	21.37	21.25				
15	16QAM	36	20	21.17	21.18	21.28				
15	16QAM	36	39	21.20	21.26	21.20			22	2
15	16QAM	75	0	21.32	21.37	21.26				
15	64QAM	1	0	21.17	21.33	21.27				
15	64QAM	1	37	21.21	21.14	21.24			22	2
15	64QAM	1	74	21.29	21.27	21.25				
15	64QAM	36	0	20.23	20.33	20.23				
15	64QAM	36	20	20.22	20.17	20.28				
15	64QAM	36	39	20.30	20.32	20.17			21	3
15	64QAM	75	0	20.32	20.35	20.22				
Channel	Frequency (MHz)			26740	26855	26920	Tune-up limit (dBm)	MPR (dB)		
				831.5	845	848.5				
10	QPSK	1	0	23.31	23.33	23.18				
10	QPSK	1	25	23.08	23.28	23.27			24	0
10	QPSK	1	49	23.02	23.27	23.09				
10	QPSK	25	0	22.17	22.50	22.28				
10	QPSK	25	12	22.19	22.22	22.10				
10	QPSK	25	25	22.39	22.27	22.04			23	1
10	QPSK	50	0	22.40	22.27	22.27				
10	16QAM	1	0	22.21	22.33	22.32				
10	16QAM	1	25	22.10	22.10	22.25			23	1
10	16QAM	1	49	22.24	22.08	22.14				
10	16QAM	25	0	21.24	21.49	21.15				
10	16QAM	25	12	21.31	21.31	21.28				
10	16QAM	25	25	21.38	21.24	21.34			22	2
10	16QAM	50	0	21.36	21.38	21.39				
10	64QAM	1	0	21.28	21.32	21.28				
10	64QAM	1	25	21.06	21.09	21.33				
10	64QAM	1	49	21.15	21.20	21.27			22	2
10	64QAM	25	0	20.14	20.28	20.09				
10	64QAM	25	12	20.20	20.17	20.30				
10	64QAM	25	25	20.41	20.27	20.22			21	3
10	64QAM	50	0	20.35	20.45	20.21				
Channel	Frequency (MHz)			26715	26865	27015	Tune-up limit (dBm)	MPR (dB)		
				816.5	831.5	846.5				
5	QPSK	1	0	23.34	23.29	23.28				
5	QPSK	1	12	23.19	23.27	23.24			24	0
5	QPSK	1	24	23.00	23.34	22.96				
5	QPSK	12	0	22.21	22.37	22.42				
5	QPSK	12	7	22.10	22.35	22.21				
5	QPSK	12	13	22.35	22.28	22.16				
5	QPSK	25	0	22.31	22.16	22.38				
5	16QAM	1	0	22.09	22.42	22.30				
5	16QAM	1	12	22.13	22.01	22.25			23	1
5	16QAM	1	24	22.32	22.04	22.28				
5	16QAM	12	0	21.38	21.51	21.35				
5	16QAM	12	7	21.20	21.24	21.27				
5	16QAM	12	13	21.25	21.21	21.44			22	2
5	16QAM	25	0	21.48	21.49	21.32				
5	64QAM	1	0	21.19	21.32	21.31				
5	64QAM	1	12	20.95	21.22	21.32			22	2
5	64QAM	1	24	21.10	21.23	21.41				
5	64QAM	12	0	20.07	20.27	19.94				
5	64QAM	12	7	20.30	20.20	20.35				
5	64QAM	12	13	20.32	20.34	20.33			21	3
5	64QAM	25	0	20.39	20.46	20.33				
Channel	Frequency (MHz)			26795	26865	27025	Tune-up limit (dBm)	MPR (dB)		
				815.5	831.5	847.5				
3	QPSK	1	0	23.27	23.13	23.19				
3	QPSK	1	8	23.10	23.15	23.19			24	0
3	QPSK	1	14	22.88	23.25	22.87				
3	QPSK	8	0	22.24	22.48	22.47				
3	QPSK	8	4	22.15	22.37	22.31				
3	QPSK	8	7	22.25	22.31	22.23			23	1
3	QPSK	15	0	22.22	22.09	22.51				
3	16QAM	1	0	22.16	22.42	22.21				
3	16QAM	1	8	22.22	22.05	22.21			23	1
3	16QAM	1	14	22.30	22.09	22.28				
3	16QAM	8	0	21.51	21.48	21.23				
3	16QAM	8	4	21.12	21.29	21.21				
3	16QAM	8	7	21.11	21.30	21.25			22	2
3	16QAM	15	0	21.35	21.37	21.38				
3	64QAM	1	0	21.16	21.24	21.36				
3	64QAM	1	8	21.08	21.34	21.22			22	2
3	64QAM	1	14	21.09	21.32	21.33				
3	64QAM	8	0	20.21	20.22	20.08				
3	64QAM	8	4	20.20	20.11	20.48				
3	64QAM	8	7	20.41	20.24	20.12			21	3
3	64QAM	15	0	20.45	20.38	20.37				
Channel	Frequency (MHz)			26897	26885	27033	Tune-up limit (dBm)	MPR (dB)		
				814.7	831.5	848.3				
1.4	QPSK	1	0	23.13	23.00	23.16				
1.4	QPSK	1	3	23.20	23.28	23.24				
1.4	QPSK	1	5	22.97	23.35	23.01			24	0
1.4	QPSK	3	0	22.10	22.53	22.42				
1.4	QPSK	3	1	22.20	22.48	22.42				
1.4	QPSK	3	3	22.13	22.35	22.08				
1.4	QPSK	6	0	22.23	22.25	22.38			23	1
1.4	16QAM	1	0	22.19	22.35	22.12				
1.4	16QAM	1	3	22.10	21.98	22.26				
1.4	16QAM	1	5	22.22	21.95	22.40				
1.4	16QAM	3	0	21.83	21.58	21.19			23	1
1.4	16QAM	3	1	21.22	21.18	21.20				
1.4	16QAM	3	3	21.19	21.41	21.41				
1.4	16QAM	6	0	21.47	21.44	21.42			22	2
1.4	64QAM	1	0	21.27	21.13	21.25				
1.4	64QAM	1	3	20.99	21.26	21.26				
1.4	64QAM	1	5	21.16	21.25	21.38				
1.4	64QAM	3	0	20.07	20.10	20.14			22	2
1.4	64QAM	3	1	20.20	20.08	20.53				
1.4	64QAM	3	3	20.40	20.17	20.34				
1.4	64QAM	6	0	20.42	20.28	20.07			21	3

Band 66 Ant 0 ENDC										
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)			13072	13232	13572				
				1720	1745	1770				
20	QPSK	1	0	22.65	22.71	22.67				
20	QPSK	1	49	22.54	22.63	22.57			24	0
20	QPSK	1	99	22.51	22.68	22.51				
20	QPSK	50	0	21.78	21.82	21.76				
20	QPSK	50	24	21.68	21.75	21.71				
20	QPSK	50	50	21.72	21.65	21.63			23	1
20	QPSK	100	0	21.89	21.76	21.70				
20	16QAM	1	0	21.69	21.82	21.77				
20	16QAM	1	49	21.55	21.68	21.56			23	1
20	16QAM	1	99	21.58	21.53	21.59				
20	16QAM	50	0	20.80	20.96	20.80				
20	16QAM	50	24	20.53	20.74	20.61				





Band 38 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel				38150	38000	38150			
Frequency (MHz)									
20	QPSK	1	0	22.57	22.66	22.74			
20	QPSK	1	49	22.81	22.77	22.78	24	0	
20	QPSK	1	99	22.82	22.59	22.62			
20	QPSK	50	0	21.85	21.93	21.84			
20	QPSK	60	0	21.92	21.89	21.91	23	1	
20	QPSK	50	50	21.89	21.91	21.88			
20	QPSK	100	0	21.85	21.90	21.89			
20	16QAM	1	0	21.82	21.82	21.78	23	1	
20	16QAM	1	49	20.58	20.56	20.57			
20	16QAM	1	99	21.87	21.84	21.83			
20	16QAM	50	0	20.86	20.85	20.84			
20	16QAM	50	24	20.92	20.90	20.91	22	2	
20	16QAM	50	50	20.90	20.88	20.86			
20	16QAM	100	0	20.85	20.86	20.82			
20	64QAM	1	0	20.53	20.50	20.62			
20	64QAM	1	49	20.71	20.69	20.68	22	2	
20	64QAM	1	99	20.86	20.87	20.87			
20	64QAM	50	0	19.78	19.79	19.72			
20	64QAM	50	24	19.83	19.81	19.80	21	3	
20	64QAM	50	50	19.82	19.82	19.79			
20	64QAM	100	0	19.88	19.91	19.92			
Channel				38152	38000	38152			
Frequency (MHz)									
15	QPSK	1	0	22.62	22.62	22.58			
15	QPSK	1	37	22.80	22.78	22.83	24	0	
15	QPSK	1	74	22.87	22.84	22.85			
15	QPSK	36	0	21.81	21.83	21.81			
15	QPSK	36	20	21.82	21.86	21.86	23	1	
15	QPSK	36	39	21.85	21.87	21.85			
15	QPSK	36	58	21.89	21.89	21.89			
15	16QAM	1	0	21.88	21.87	21.83			
15	16QAM	1	37	22.50	21.96	21.98	23	1	
15	16QAM	1	74	21.94	21.90	21.91			
15	16QAM	36	0	20.77	20.83	20.79			
15	16QAM	36	20	20.79	20.83	20.85	22	2	
15	16QAM	36	39	20.81	20.78	20.82			
15	16QAM	75	0	20.88	20.83	20.84			
15	64QAM	1	0	20.58	20.58	20.58			
15	64QAM	1	37	20.70	20.69	20.71	22	2	
15	64QAM	1	74	20.63	20.61	20.62			
15	64QAM	36	0	19.82	19.84	19.84			
15	64QAM	36	39	19.85	19.84	19.80	21	3	
15	64QAM	75	0	19.84	19.83	19.81			
Channel				38150	38000	38200			
Frequency (MHz)									
10	QPSK	1	0	22.70	22.76	22.72			
10	QPSK	1	25	22.79	22.78	22.81	24	0	
10	QPSK	1	49	22.77	22.75	22.76			
10	QPSK	25	0	21.88	21.86	21.87			
10	QPSK	25	14	21.94	21.92	21.91	23	1	
10	QPSK	25	25	21.91	21.89	21.90			
10	QPSK	50	0	21.86	21.85	21.84			
10	16QAM	1	0	21.96	21.96	22.00	23	1	
10	16QAM	1	49	21.88	21.86	21.97			
10	16QAM	25	0	20.88	20.89	20.87			
10	16QAM	25	12	20.89	20.87	20.89	22	2	
10	16QAM	25	25	20.89	20.89	20.90			
10	16QAM	50	0	20.93	20.90	20.91			
10	64QAM	1	0	20.65	20.68	20.64			
10	64QAM	1	25	20.70	20.70	20.71	22	2	
10	64QAM	1	49	20.69	20.67	20.69			
10	64QAM	25	0	19.84	19.82	19.83			
10	64QAM	25	12	19.85	19.83	19.84	21	3	
10	64QAM	25	25	19.87	19.82	19.86			
10	64QAM	50	0	19.83	19.83	19.84			
Channel				37175	38000	38225			
Frequency (MHz)									
5	QPSK	1	0	22.70	22.72	22.74			
5	QPSK	1	12	22.77	22.78	22.76	24	0	
5	QPSK	1	24	22.73	22.72	22.77			
5	QPSK	12	0	21.92	21.90	21.88			
5	QPSK	12	7	21.89	21.90	21.89	23	1	
5	QPSK	12	13	21.84	21.88	21.91			
5	QPSK	25	0	21.92	21.91	21.90			
5	16QAM	1	0	21.99	21.88	21.99	23	1	
5	16QAM	1	12	22.02	21.97	21.99			
5	16QAM	1	24	22.03	22.01	21.98			
5	16QAM	12	0	20.87	20.86	20.83			
5	16QAM	12	7	20.85	20.81	20.85	22	2	
5	16QAM	12	13	20.80	20.83	20.82			
5	16QAM	25	0	20.88	20.91	20.90			
5	64QAM	1	0	20.67	20.69	20.70			
5	64QAM	1	12	20.70	20.70	20.67	22	2	
5	64QAM	1	24	20.72	20.70	20.73			
5	64QAM	12	0	19.82	19.82	19.81			
5	64QAM	12	7	19.82	19.79	19.83	21	3	
5	64QAM	12	13	19.78	19.79	19.82			
5	64QAM	25	0	19.83	19.84	19.84			

Band 41 (2.6G Band) Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)										
20	QPSK	1	0	22.60	22.63	22.63	22.63	22.60		
20	QPSK	1	49	22.84	22.82	22.87	22.89	22.89	24	0
20	QPSK	1	99	22.99	22.99	22.82	22.81	22.80		
20	QPSK	50	0	21.88	21.83	21.94	21.89	21.80		
20	QPSK	50	24	21.93	21.87	21.90	21.88	21.87	23	1
20	QPSK	50	50	21.90	21.85	21.90	21.86	21.83		
20	QPSK	100	0	21.83	21.89	21.90	21.89	21.82		
20	16QAM	1	0	21.82	21.81	21.82	21.82	21.78	23	1
20	16QAM	1	49	20.86	20.87	20.87	20.84	20.72		
20	16QAM	1	99	21.84	21.86	21.85	21.79	21.69		
20	16QAM	50	0	20.84	20.86	20.86	20.90	20.92		
20	16QAM	50	24	20.90	20.90	20.89	20.88	20.83	22	2
20	16QAM	50	50	20.89	20.89	20.85	20.87	20.81		
20	16QAM	100	0	20.83	20.90	20.87	20.89	20.77		
20	64QAM	1	0	20.83	20.50	20.51	20.53	20.53		
20	64QAM	1	49	20.69	20.68	20.70	20.70	20.64	22	2
20	64QAM	1	99	20.86	20.87	20.87	20.84	20.72		
20	64QAM	50	0	19.78	19.75	19.79	19.83	19.75		
20	64QAM	50	24	19.79	19.80	19.80	19.85	19.75	21	3
20	64QAM	50	50	19.80	19.79	19.81	19.83	19.75		
20	64QAM	100	0	19.87	19.91	19.90	19.94	19.82		
Channel				39752	40173	40620	41059	41515		
Frequency (MHz)										
15	QPSK	1	0	22.62	22.61	22.66	22.68	22.65		
15	QPSK	1	37	22.73	22.77	22.76	22.80	22.73	24.00	0
15	QPSK	1	74	22.89	22.84	22.89	22.86	22.86		
15	QPSK	36	0	21.81	21.85	21.81	21.84	21.80		
15	QPSK	36	20	21.89	21.84	21.87	21.89	21.85	23	1
15	QPSK	36	39	21.87	21.84	21.83	21.87	21.77		
15	QPSK	36	58	21.89	21.89	21.85	21.86	21.81		
15	16QAM	1	0	21.89	21.86	21.91	21.91	21.85		
15	16QAM	1	37	21.96	21.98	21.99	21.99	21.90	23	1
15	16QAM	1	74	21.85	21.91	21.92	21.89	21.79		
15	16QAM	36	0	20.77	20.78	20.78	20.84	20.78		
15	16QAM	36	20	20.82	20.79	20.79	20.85	20.79	22	2
15	16QAM	36	39	20.79	20.78	20.79	20.87	20.74		
15	16QAM	75	0	20.90	20.85	20.96	20.87	20.84		
15	64QAM	1	0	20.58	20.58	20.58	20.58	20.58		
15	64QAM	1	37	20.66	20.68	20.71	20.70	20.61	22	2
15	64QAM	1	74	20.68	20.63	20.63	20.64	20.54		
15	64QAM	36	0	19.82	19.84	19				



Reduced Power

Ant 4 Head

GSM80 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	150	189	201		150	189	201	
	534.2	534.4	539.8	20.0	19.31	19.31	19.44	20.50
GSM 1 Tx slot	28.31	28.31	28.44	29.50	19.31	19.31	19.44	20.50
GPRS 1 Tx slots	28.26	28.31	28.14	29.50	19.26	19.31	19.14	20.50
GPRS 2 Tx slots	27.26	27.59	27.32	28.00	21.25	21.59	21.32	22.00
GPRS 3 Tx slots	26.42	26.57	26.47	26.00	21.16	21.51	21.21	21.74
GPRS 4 Tx slots	24.41	24.53	24.49	25.00	21.41	21.53	21.49	22.00
EDGE 1 Tx slot	21.96	22.09	22.17	23.00	12.96	13.09	13.17	14.00
EDGE 2 Tx slots	20.31	20.51	20.96	21.00	14.31	14.51	14.56	15.00
EDGE 3 Tx slots	18.24	18.34	17.92	19.00	13.98	13.78	13.96	14.74
EDGE 4 Tx slots	16.61	16.65	16.74	17.00	13.61	13.65	13.74	14.00

Ant 4 Head

Ant 4 Head

Band TX Channel Rx Channel Frequency (MHz)	WCDMA V			Tune-up Limit (dBm)	WCDMA II			Tune-up Limit (dBm)
	4132	4162	4233		5562	5600	5638	
	4367	4407	4468	22.00	19.58	19.39	21.27	22.00
3GPP Rel 99	AMR 12.2kbps	21.37	21.39	21.34	22.00	21.38	21.39	21.27
3GPP Rel 99	RMC 12.2kbps	21.41	21.51	21.48	22.00	21.62	21.65	21.82
3GPP Rel 6	HSDPA Subtest-1	20.41	20.40	20.48	21.00	20.40	20.43	20.29
3GPP Rel 6	HSDPA Subtest-2	20.42	20.43	20.49	21.00	20.44	20.42	20.28
3GPP Rel 6	HSDPA Subtest-3	19.90	19.91	19.98	20.50	19.91	19.94	19.80
3GPP Rel 6	HSDPA Subtest-4	19.90	19.89	19.98	20.50	19.92	19.92	19.80
3GPP Rel 8	DC-HSDPA Subtest-1	20.41	20.42	20.48	21.00	20.43	20.45	20.30
3GPP Rel 8	DC-HSDPA Subtest-2	20.41	20.43	20.48	21.00	20.40	20.42	20.28
3GPP Rel 8	DC-HSDPA Subtest-3	19.90	19.89	19.98	20.50	19.92	19.92	19.80
3GPP Rel 8	DC-HSDPA Subtest-4	19.91	19.91	20.00	20.50	19.91	19.94	19.80
3GPP Rel 6	HSUPA Subtest-1	18.43	18.40	18.48	19.00	18.70	18.72	18.58
3GPP Rel 6	HSUPA Subtest-2	18.39	18.42	18.46	19.00	18.44	18.44	18.29
3GPP Rel 6	HSUPA Subtest-3	19.40	19.42	19.46	20.00	19.41	19.45	19.30
3GPP Rel 6	HSUPA Subtest-4	18.40	18.43	18.46	19.00	18.43	18.41	18.29
3GPP Rel 6	HSUPA Subtest-5	20.43	20.41	20.48	21.00	20.42	20.43	20.29
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.92	17.91	17.99	18.50	17.93	17.92	17.78



Band 12 Ant 4 Head									
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				2360	2305	2310			
Frequency (MHz)				711	707.5	711			
10	QPSK	1	0	21.76	21.82	21.76			
10	QPSK	1	25	21.56	21.57	21.52		22.5	0
10	QPSK	1	49	21.48	21.58	21.54			
10	QPSK	25	0	20.44	20.50	20.46			
10	QPSK	25	12	20.38	20.41	20.39		21.5	1
10	QPSK	25	25	20.48	20.42	20.36			
10	QPSK	50	0	20.41	20.47	20.33			
10	16QAM	1	0	20.42	20.35	20.48			
10	16QAM	1	25	20.38	20.49	20.39		21.5	1
10	16QAM	1	49	20.52	20.41	20.40			
10	16QAM	25	0	19.41	19.51	19.47			
10	16QAM	25	12	19.41	19.43	19.38		20.5	2
10	16QAM	25	25	19.43	19.37	19.39			
10	16QAM	50	0	19.43	19.52	19.33			
10	64QAM	1	0	19.37	19.53	19.47			
10	64QAM	1	25	19.37	19.43	19.38		20.5	2
10	64QAM	1	49	19.46	19.34	19.43			
10	64QAM	25	0	18.40	18.46	18.48			
10	64QAM	25	12	18.43	18.38	18.36		19.5	3
10	64QAM	25	25	18.40	18.33	18.34			
10	64QAM	50	0	18.39	18.56	18.31			
Channel				2305	2305	2315			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	21.47	21.53	21.44			
5	QPSK	1	12	21.61	21.48	21.57		22.5	0
5	QPSK	1	24	21.35	21.60	21.39			
5	QPSK	12	0	20.41	20.53	20.50			
5	QPSK	12	7	20.28	20.36	20.30		21.5	1
5	QPSK	12	13	20.39	20.37	20.30			
5	QPSK	25	0	20.27	20.37	20.44			
5	16QAM	1	0	20.44	20.68	20.49			
5	16QAM	1	12	20.42	20.30	20.33		21.5	1
5	16QAM	1	24	20.47	20.53	20.37			
5	16QAM	12	0	19.44	19.58	19.60			
5	16QAM	12	7	19.50	19.51	19.46		20.5	2
5	16QAM	12	13	19.35	19.34	19.35			
5	16QAM	25	0	19.34	19.58	19.20			
5	64QAM	1	0	19.47	19.55	19.53			
5	64QAM	1	12	19.45	19.51	19.42		20.5	2
5	64QAM	1	24	19.48	19.44	19.45			
5	64QAM	12	0	18.41	18.39	18.61			
5	64QAM	12	7	18.36	18.41	18.32		19.5	3
5	64QAM	12	13	18.29	18.31	18.39			
5	64QAM	25	0	18.37	18.66	18.44			
Channel				2305	2305	2315			
Frequency (MHz)				700.5	707.5	713.5			
3	QPSK	1	0	21.61	21.61	21.42			
3	QPSK	1	8	21.54	21.49	21.55		22.5	0
3	QPSK	1	14	21.44	21.61	21.59			
3	QPSK	8	0	20.50	20.64	20.44			
3	QPSK	8	4	20.42	20.25	20.45		21.5	1
3	QPSK	8	7	20.53	20.31	20.32			
3	QPSK	15	0	20.16	20.36	20.52			
3	16QAM	1	0	20.48	20.68	20.54			
3	16QAM	1	8	20.40	20.28	20.26		21.5	1
3	16QAM	1	14	20.56	20.61	20.37			
3	16QAM	8	0	19.52	19.89	19.82			
3	16QAM	8	4	19.64	19.57	19.41		20.5	2
3	16QAM	8	7	19.36	19.31	19.20			
3	16QAM	15	0	19.34	19.47	19.29			
3	64QAM	1	0	19.44	19.63	19.67			
3	64QAM	1	8	19.41	19.51	19.55		20.5	2
3	64QAM	1	14	19.55	19.48	19.59			
3	64QAM	8	0	18.32	18.46	18.65			
3	64QAM	8	4	18.34	18.42	18.35		19.5	3
3	64QAM	8	7	18.25	18.29	18.38			
3	64QAM	15	0	18.32	18.73	18.50			
Channel				2307	2305	2313			
Frequency (MHz)				699.7	707.5	713.3			
1.4	QPSK	1	0	21.53	21.61	21.57			
1.4	QPSK	1	3	21.80	21.61	21.46			
1.4	QPSK	1	5	21.51	21.57	21.52		22.5	0
1.4	QPSK	3	0	20.75	20.90	20.77			
1.4	QPSK	3	1	20.85	20.91	20.69			
1.4	QPSK	3	3	20.74	20.82	20.50			
1.4	QPSK	6	0	20.13	20.25	20.51		21.5	1
1.4	16QAM	1	0	20.49	20.61	20.45			
1.4	16QAM	1	3	20.43	20.19	20.14			
1.4	16QAM	1	5	20.55	20.47	20.51		21.5	1
1.4	16QAM	3	0	20.63	20.37	20.49			
1.4	16QAM	3	1	20.34	20.46	20.53			
1.4	16QAM	3	3	20.16	20.16	20.32			
1.4	16QAM	6	0	19.46	19.57	19.24		20.5	2
1.4	64QAM	1	0	19.38	19.60	19.64			
1.4	64QAM	1	3	19.54	19.65	19.43			
1.4	64QAM	1	5	19.57	19.49	19.50		20.5	2
1.4	64QAM	3	0	18.65	18.53	18.54			
1.4	64QAM	3	1	18.63	18.72	18.62			
1.4	64QAM	3	3	18.77	18.88	18.78			
1.4	64QAM	6	0	18.45	18.82	18.53		19.5	3

Band 17 ANT4 Head									
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				2370	2370	2380			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	21.61	21.61	21.65			
10	QPSK	1	25	21.33	21.32	21.35		22.5	0
10	QPSK	1	49	21.36	21.29	21.50			
10	QPSK	25	0	20.24	20.22	20.28			
10	QPSK	25	12	20.14	20.14	20.26		21.5	1
10	QPSK	25	25	20.17	20.11	20.09			
10	QPSK	50	0	20.11	20.30	20.29			
10	16QAM	1	0	20.28	20.58	20.33			
10	16QAM	1	25	20.35	20.51	20.12		21.5	1
10	16QAM	1	49	20.21	20.58	20.67			
10	16QAM	25	0	19.08	19.28	19.14			
10	16QAM	25	12	19.26	19.25	19.19		20.5	2
10	16QAM	25	25	19.08	19.16	19.20			
10	16QAM	50	0	19.20	19.14	19.19			
10	64QAM	1	0	19.38	19.25	19.48			
10	64QAM	1	25	19.49	19.45	19.38		20.5	2
10	64QAM	1	49	19.33	19.29	19.22			
10	64QAM	25	0	18.03	17.98	18.16			
10	64QAM	25	12	18.28	18.15	18.12		19.5	3
10	64QAM	25	25	18.08	18.01	18.13			
10	64QAM	50	0	17.99	18.02	18.22			
Channel				2375	2370	23825			
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	21.51	21.57	21.78			
5	QPSK	1	12	21.34	21.44	21.42		22.5	0
5	QPSK	1	24	21.43	21.25	21.45			
5	QPSK	12	0	20.19	20.28	20.24			
5	QPSK	12	7	20.09	20.12	20.23		21.5	1
5	QPSK	12	13	20.03	20.04	20.06			
5	QPSK	25	0	20.16	20.29	20.23			
5	16QAM	1	0	20.36	20.60	20.32			
5	16QAM	1	12	20.53	20.55	20.23		21.5	1
5	16QAM	1	24	20.32	20.60	20.70			
5	16QAM	12	0	19.18	19.14	19.23			
5	16QAM	12	7	19.27	19.17	19.25		20.5	2
5	16QAM	12	13	19.15	19.13	19.12			
5	16QAM	25	0	19.12	19.13	19.20			
5	64QAM	1	0	19.33	19.30	19.45			
5	64QAM	1	12	19.45	19.39	19.39		20.5	2
5	64QAM	1	24	19.38	19.21	19.22			
5	64QAM	12	0	18.16	18.12	18.11			
5	64QAM	12	7	18.26	18.21	18.26		19.5	3
5	64QAM	12	13	18.12	18.08	18.04			
5	64QAM	25	0	18.07	18.01	18.10			

Band 66 Ant 4 Head									
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				13072	13022	13072			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	18.41	18.48	18.45			
20	QPSK	1	25	18.39	18.41	18.30		19.5	0
20	QPSK	1	49	18.39	18.40	18.32			
20	QPSK	25	0	17.57	17.65	17.84			
20	QPSK	25	12	17.55	17.61	17.61		18.5	1
20	QPSK	25	25	17.55	17.62	17.59			
20	QPSK	50	0	17.60	17.53	17.51			
20	16QAM	1	0	17.43	17.44	17.34			
20	16QAM	1	49	17.37	17.43	17.29		18.5	1
20	16QAM	1	99	17.41	17.40	17.32			
20	16QAM	25	0	16.55	16.64	16.65			
20	16QAM	25	12	16.57	16.60	16.60		17.5	2
20	16QAM	25	25	16.57	16.60	16.61			
20	16QAM	50	0	16.62	16.54	16.50			
20	64QAM	1	0	16.58	16.66	16.63			
20	64QAM	1	49	16.55	16.66				



Band 2 Ant 4 Head									
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)				18700	18900	19100			
20	QPSK	1	0	18.04	18.06	17.80	19	0	
20	QPSK	1	49	18.02	18.02	17.82			
20	QPSK	1	99	18.02	18.03	17.81			
20	QPSK	50	0	17.15	17.11	17.18			
20	QPSK	50	24	17.11	17.07	17.16	18	1	
20	QPSK	50	50	17.11	17.06	17.15			
20	QPSK	100	0	17.10	17.08	17.01			
20	16QAM	1	0	17.13	17.07	17.14	18	1	
20	16QAM	1	49	17.02	17.07	16.85			
20	16QAM	1	99	17.03	17.01	16.81			
20	16QAM	50	0	16.71	16.74	16.52			
20	16QAM	50	24	16.53	16.32	16.28	17	2	
20	16QAM	50	50	16.28	16.37	16.27			
20	16QAM	100	0	16.18	16.47	16.58			
20	64QAM	1	0	15.82	15.78	15.71	17	2	
20	64QAM	1	49	15.82	15.75	15.63			
20	64QAM	1	99	15.84	15.91	15.87			
20	64QAM	50	0	15.73	15.75	15.58	16	3	
20	64QAM	50	24	15.72	15.74	15.56			
20	64QAM	50	50	15.74	15.76	15.55			
20	64QAM	100	0	15.75	15.78	15.55			
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				18675.5	18900	19025.5			
15	QPSK	1	0	17.43	17.37	17.40	19	0	
15	QPSK	1	37	17.47	17.48	17.30			
15	QPSK	1	74	17.34	17.35	17.37			
15	QPSK	36	0	16.59	16.55	16.56	18	1	
15	QPSK	36	20	16.55	16.52	16.44			
15	QPSK	36	36	16.53	16.51	16.41			
15	QPSK	75	0	16.64	16.53	16.54			
15	16QAM	1	0	17.06	17.22	17.10	18	1	
15	16QAM	1	37	17.02	17.21	17.43			
15	16QAM	1	74	17.02	17.09	17.08			
15	16QAM	36	0	15.60	15.55	15.49	17	2	
15	16QAM	36	20	15.57	15.49	15.46			
15	16QAM	36	36	15.52	15.49	15.42			
15	16QAM	75	0	15.61	15.57	15.55			
15	64QAM	1	0	15.75	15.59	15.66	17	2	
15	64QAM	1	37	15.80	15.93	15.51			
15	64QAM	1	74	15.88	15.70	15.65			
15	64QAM	36	0	15.03	15.06	15.07	16	3	
15	64QAM	36	20	15.08	15.05	15.09			
15	64QAM	36	36	15.18	15.05	15.13			
15	64QAM	75	0	15.19	15.02	15.03			
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				18650	18900	19050			
10	QPSK	1	0	17.57	17.49	17.44	19	0	
10	QPSK	1	25	17.60	17.53	17.45			
10	QPSK	1	49	17.52	17.53	17.30			
10	QPSK	25	0	16.64	16.56	16.59	18	1	
10	QPSK	25	12	16.67	16.54	16.50			
10	QPSK	25	25	16.64	16.60	16.49			
10	QPSK	50	0	16.80	16.83	16.58			
10	16QAM	1	0	17.05	17.46	17.55	18	1	
10	16QAM	1	25	17.22	17.47	17.42			
10	16QAM	1	49	17.40	17.24	17.15			
10	16QAM	25	0	15.88	15.85	15.50	17	2	
10	16QAM	25	12	15.54	15.52	15.44			
10	16QAM	25	25	15.57	15.58	15.49			
10	16QAM	50	0	15.59	15.57	15.50			
10	64QAM	1	0	15.82	15.74	16.01	17	2	
10	64QAM	1	25	15.85	15.90	15.72			
10	64QAM	1	49	16.01	16.04	15.96			
10	64QAM	25	0	15.07	15.13	15.05	16	3	
10	64QAM	25	12	15.10	15.00	15.15			
10	64QAM	25	25	15.04	15.14	15.26			
10	64QAM	50	0	15.01	15.09	15.19			
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				18625.5	18900	19075.5			
5	QPSK	1	0	17.68	17.72	17.71	19	0	
5	QPSK	1	12	17.67	17.74	17.48			
5	QPSK	1	24	17.58	17.72	17.60			
5	QPSK	12	0	16.85	16.87	16.82	18	1	
5	QPSK	12	7	16.92	16.83	16.76			
5	QPSK	12	13	16.98	16.88	16.73			
5	QPSK	25	0	16.91	16.87	16.83			
5	16QAM	1	0	17.61	17.39	17.60	18	1	
5	16QAM	1	12	17.23	17.51	17.51			
5	16QAM	1	24	17.62	17.50	17.52			
5	16QAM	12	0	15.84	15.91	15.73	17	2	
5	16QAM	12	7	15.84	15.84	15.76			
5	16QAM	12	13	15.91	15.92	15.79			
5	16QAM	25	0	15.93	15.85	15.86			
5	64QAM	1	0	16.22	16.03	16.13	17	2	
5	64QAM	1	12	16.27	16.08	16.07			
5	64QAM	1	24	16.26	16.18	16.02			
5	64QAM	12	0	15.46	15.34	15.17	16	3	
5	64QAM	12	7	15.41	15.30	15.20			
5	64QAM	12	13	15.46	15.30	15.29			
5	64QAM	25	0	15.37	15.36	15.30			
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				18615.5	18900	19085.5			
3	QPSK	1	0	17.50	17.44	17.24	19	0	
3	QPSK	1	8	17.53	17.37	17.32			
3	QPSK	1	14	17.64	17.50	17.26			
3	QPSK	8	0	16.59	16.55	16.45	18	1	
3	QPSK	8	4	16.57	16.52	16.38			
3	QPSK	8	7	16.53	16.50	16.46			
3	QPSK	15	0	16.55	16.53	16.45			
3	16QAM	1	0	16.90	16.80	16.77	18	1	
3	16QAM	1	8	16.82	16.81	16.82			
3	16QAM	1	14	16.84	16.81	16.88			
3	16QAM	8	0	15.68	15.58	15.39	17	2	
3	16QAM	8	4	15.75	15.43	15.46			
3	16QAM	8	7	15.66	15.58	15.34			
3	16QAM	15	0	15.65	15.53	15.40			
3	64QAM	1	0	15.46	15.86	15.79	17	2	
3	64QAM	1	8	15.58	15.43	15.80			
3	64QAM	1	14	15.85	15.63	15.63			
3	64QAM	8	0	15.08	15.12	15.02	16	3	
3	64QAM	8	4	15.04	15.07	15.18			
3	64QAM	8	7	15.03	15.18	15.23			
3	64QAM	15	0	15.09	15.05	15.08			
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				18607.7	18900	19093.3			
1.4	QPSK	1	0	17.42	17.51	17.40	19	0	
1.4	QPSK	1	3	17.46	17.46	17.37			
1.4	QPSK	1	5	17.49	17.54	17.26			
1.4	QPSK	3	0	17.52	17.41	17.45			
1.4	QPSK	3	1	17.52	17.48	17.36	18	1	
1.4	QPSK	3	3	17.53	17.45	17.41			
1.4	QPSK	6	0	16.54	16.59	16.37			
1.4	16QAM	1	0	17.15	17.03	17.16	18	1	
1.4	16QAM	1	3	17.10	17.21	17.06			
1.4	16QAM	1	5	17.22	17.14	17.26			
1.4	16QAM	3	0	16.66	16.43	16.38			
1.4	16QAM	3	1	16.59	16.69	16.48			
1.4	16QAM	3	3	16.67	16.55	16.62	17	2	
1.4	16QAM	6	0	15.48	15.64	15.44			
1.4	64QAM	1	0	15.77	15.90	15.64			
1.4	64QAM	1	3	16.09	15.83	15.67	17	2	
1.4	64QAM	1	5	15.73	15.88	15.81			
1.4	64QAM	3	0	15.84	15.75	15.38			
1.4	64QAM	3	1	15.76	15.70	15.67			
1.4	64QAM	3	3	15.80	15.63	15.74	16	3	
1.4	64QAM	6	0	15.04	15.37	15.27			





Band 66 Ant 4 For ENDC-Head									
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	14.46	14.46	14.46	16	0	
20	QPSK	1	49	14.46	14.50	14.33			
20	QPSK	1	99	14.30	14.37	14.38			
20	QPSK	50	0	13.58	13.60	13.55			
20	QPSK	50	24	13.46	13.40	13.43	15	1	
20	QPSK	50	50	13.49	13.42	13.34			
20	QPSK	100	0	13.54	13.56	13.52			
20	16QAM	1	0	13.51	13.53	13.43			
20	16QAM	1	49	13.37	13.51	13.52	15	1	
20	16QAM	1	99	13.56	13.56	13.46			
20	16QAM	50	0	12.37	12.52	12.29			
20	16QAM	50	24	12.44	12.39	12.30	14	2	
20	16QAM	50	50	12.44	12.36	12.32			
20	16QAM	100	0	12.38	12.39	12.35			
20	64QAM	1	0	12.80	12.34	12.57			
20	64QAM	1	49	12.59	12.81	12.79	14	2	
20	64QAM	1	99	12.61	12.46	12.76			
20	64QAM	50	0	11.37	11.52	11.20			
20	64QAM	50	24	11.42	11.42	11.40			
20	64QAM	50	50	11.45	11.31	11.33	13	3	
20	64QAM	100	0	11.33	11.41	11.39			
Channel									
Frequency (MHz)									
15	QPSK	1	0	14.41	14.40	14.26	16	0	
15	QPSK	1	37	14.50	14.29	14.36			
15	QPSK	1	74	14.36	14.27	14.32			
15	QPSK	36	0	13.31	13.44	13.31	15	1	
15	QPSK	36	20	13.33	13.40	13.39			
15	QPSK	36	39	13.40	13.31	13.36			
15	QPSK	75	0	13.42	13.41	13.33			
15	16QAM	1	0	13.54	13.77	13.58			
15	16QAM	1	37	13.69	13.47	13.59	15	1	
15	16QAM	1	74	13.27	13.45	13.44			
15	16QAM	36	0	12.37	12.35	12.35	14	2	
15	16QAM	36	20	12.36	12.37	12.36			
15	16QAM	36	39	12.46	12.22	12.33			
15	16QAM	75	0	12.42	12.39	12.36			
15	64QAM	1	0	12.55	12.46	12.45			
15	64QAM	1	37	12.82	12.61	12.77	14	2	
15	64QAM	1	74	12.59	12.53	12.68			
15	64QAM	36	0	11.38	11.38	11.30	13	3	
15	64QAM	36	20	11.36	11.46	11.47			
15	64QAM	36	39	11.35	11.52	11.35			
15	64QAM	75	0	11.37	11.41	11.40			
Channel									
Frequency (MHz)									
10	QPSK	1	0	14.54	14.44	14.39	16	0	
10	QPSK	1	25	14.44	14.54	14.47			
10	QPSK	1	49	14.42	14.43	14.36			
10	QPSK	25	0	13.44	13.46	13.41	15	1	
10	QPSK	25	12	13.44	13.46	13.38			
10	QPSK	25	25	13.44	13.41	13.38			
10	QPSK	50	0	13.48	13.47	13.36			
10	16QAM	1	0	13.80	13.77	13.68	15	1	
10	16QAM	1	25	13.90	13.82	14.20			
10	16QAM	1	49	13.89	13.74	13.81			
10	16QAM	25	0	12.49	12.55	12.42			
10	16QAM	25	12	12.51	12.40	12.40	14	2	
10	16QAM	25	25	12.47	12.45	12.41			
10	16QAM	50	0	12.42	12.48	12.42			
10	64QAM	1	0	12.92	12.75	12.84	14	2	
10	64QAM	1	25	12.44	12.42	12.37			
10	64QAM	1	49	12.46	12.50	12.60			
10	64QAM	25	0	11.46	11.57	11.56	13	3	
10	64QAM	25	12	11.46	11.37	11.52			
10	64QAM	25	25	11.47	11.41	11.42			
10	64QAM	50	0	11.48	11.50	11.08			
Channel									
Frequency (MHz)									
5	QPSK	1	0	14.55	14.49	14.33	16	0	
5	QPSK	1	12	14.40	14.46	14.36			
5	QPSK	1	24	14.40	14.53	14.43			
5	QPSK	12	0	13.44	13.44	13.42	15	1	
5	QPSK	12	7	13.40	13.39	13.35			
5	QPSK	12	13	13.41	13.32	13.39			
5	QPSK	25	0	13.47	13.37	13.39			
5	16QAM	1	0	13.85	13.81	13.62	15	1	
5	16QAM	1	12	13.83	14.03	13.84			
5	16QAM	1	24	14.05	13.78	13.82			
5	16QAM	12	0	12.51	12.43	12.41	14	2	
5	16QAM	12	7	12.47	12.42	12.48			
5	16QAM	12	13	12.43	12.30	12.36			
5	16QAM	25	0	12.84	12.83	12.74			
5	64QAM	1	0	13.08	12.59	12.72	14	2	
5	64QAM	1	12	12.64	12.88	12.94			
5	64QAM	1	24	12.61	12.79	12.64			
5	64QAM	12	0	11.49	11.52	11.47	13	3	
5	64QAM	12	7	11.30	11.41	11.26			
5	64QAM	12	13	11.35	11.41	11.29			
5	64QAM	25	0	11.35	11.27	11.34			
Channel									
Frequency (MHz)									
3	QPSK	1	0	14.40	14.39	14.32	16	0	
3	QPSK	1	8	14.46	14.45	14.25			
3	QPSK	1	14	14.41	14.45	14.34			
3	QPSK	8	0	13.45	13.44	13.33	15	1	
3	QPSK	8	4	13.45	13.30	13.38			
3	QPSK	8	7	13.43	13.36	13.33			
3	QPSK	15	0	13.37	13.36	13.35			
3	16QAM	1	0	14.20	13.74	13.89	15	1	
3	16QAM	1	8	13.74	13.77	13.92			
3	16QAM	1	14	13.75	14.12	13.86			
3	16QAM	8	0	12.51	12.35	12.39	14	2	
3	16QAM	8	4	12.50	12.43	12.37			
3	16QAM	8	7	12.28	12.43	12.32			
3	16QAM	15	0	12.30	12.36	12.44			
3	64QAM	1	0	12.58	12.61	12.55	14	2	
3	64QAM	1	8	12.64	12.29	12.60			
3	64QAM	1	14	12.45	12.40	12.61			
3	64QAM	8	0	11.49	11.32	11.36	13	3	
3	64QAM	8	4	11.50	11.30	11.34			
3	64QAM	8	7	11.41	11.40	11.21			
3	64QAM	15	0	11.31	11.42	11.34			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	14.51	14.36	14.38	16	0	
1.4	QPSK	1	3	14.48	14.48	14.34			
1.4	QPSK	1	5	14.41	14.34	14.33			
1.4	QPSK	3	0	14.55	14.50	14.47			
1.4	QPSK	3	1	14.45	14.46	14.43	15	1	
1.4	QPSK	3	3	14.53	14.43	14.41			
1.4	QPSK	6	0	13.48	13.41	13.33			
1.4	16QAM	1	0	13.63	13.96	13.58			
1.4	16QAM	1	3	13.75	13.96	13.87			
1.4	16QAM	1	5	13.72	13.86	13.67	15	1	
1.4	16QAM	3	0	13.30	13.40	13.51			
1.4	16QAM	3	1	13.56	13.49	13.47			
1.4	16QAM	3	3	13.60	13.57	13.31			
1.4	16QAM	6	0	12.46	12.56	12.43	14	2	
1.4	64QAM	1	0	12.72	12.71	12.66			
1.4	64QAM	1	3	12.50	12.73	12.50			
1.4	64QAM	1	5	12.77	12.69	12.87	14	2	
1.4	64QAM	3	0	12.31	12.46	12.43			
1.4	64QAM	3	1	12.40	12.49	12.40			
1.4	64QAM	3	3	12.54	12.34	12.60			
1.4	64QAM	6	0	11.19	11.24	11.45	13	3	

Band 2 Ant 4 For ENDC-Head									
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	14.40	14.40	14.20	15.5	0	
20	QPSK	1	49	14.18	14.16	14.10			
20	QPSK	1	99	14.08	14.15	13.94			
20	QPSK	50	0	13.10	13.20	13.21			
20	QPSK	50	24	12.99	12.97	12.88	14.5	1	
20	QPSK	50	50	12.93	12.98	12.89			
20</									



Band 42 ANT5 Head										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Freq. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				42190	43590	42990				
Frequency (MHz)				3460	3500	3540				
20	QPSK	1	0	15.60	15.62	15.58	16	0		
20	QPSK	1	49	15.23	15.24	15.19				
20	QPSK	1	99	15.27	15.25	15.21				
20	QPSK	50	0	14.13	14.38	13.88	15	1		
20	QPSK	50	24	14.11	14.17	14.07				
20	QPSK	50	50	14.09	14.14	14.04				
20	QPSK	100	0	14.15	14.17	13.99				
20	16QAM	1	0	13.94	14.07	13.84	15	1		
20	16QAM	1	49	13.92	14.06	13.77				
20	16QAM	1	99	13.92	14.05	13.83				
20	16QAM	50	0	13.12	13.20	12.89	14	2		
20	16QAM	50	24	13.11	13.19	12.85				
20	16QAM	50	50	13.09	13.12	12.85				
20	16QAM	100	0	13.20	13.18	12.99				
20	64QAM	1	0	13.12	13.17	12.89	14	2		
20	64QAM	1	49	13.13	13.19	12.90				
20	64QAM	1	99	13.14	13.16	12.86				
20	64QAM	50	0	12.12	12.19	11.87	13	3		
20	64QAM	50	24	12.14	12.18	11.80				
20	64QAM	50	50	12.14	12.20	11.87				
20	64QAM	100	0	12.14	12.18	11.87				
Channel				42185	42990	43015	Tune-up limit	MPR		
Frequency (MHz)				3457.5	3500	3542.5	(dBm)	(dB)		
15	QPSK	1	0	14.40	14.28	14.40	16	0		
15	QPSK	1	37	14.46	14.34	14.39				
15	QPSK	1	74	14.43	14.24	14.36				
15	QPSK	36	0	13.48	13.44	13.43	15	1		
15	QPSK	36	20	13.53	13.38	13.43				
15	QPSK	36	39	13.47	13.38	13.46				
15	QPSK	75	0	13.56	13.39	13.50	15	1		
15	16QAM	1	0	13.57	13.45	13.48				
15	16QAM	1	37	13.59	13.52	13.58				
15	16QAM	1	74	13.59	13.39	13.54	14	2		
15	16QAM	36	0	12.46	12.35	12.39				
15	16QAM	36	20	12.48	12.35	12.40				
15	16QAM	36	39	12.44	12.24	12.41	14	2		
15	16QAM	75	0	12.52	12.37	12.45				
15	64QAM	1	0	12.16	12.02	12.05				
15	64QAM	1	37	12.17	12.11	12.15	14	2		
15	64QAM	1	74	12.17	12.05	12.10				
15	64QAM	36	0	11.47	11.36	11.43				
15	64QAM	36	20	11.50	11.36	11.42	13	3		
15	64QAM	36	39	11.48	11.27	11.40				
15	64QAM	75	0	11.53	11.37	11.42				
Channel				42140	42990	43040	Tune-up limit	MPR		
Frequency (MHz)				3455	3500	3545	(dBm)	(dB)		
10	QPSK	1	0	14.50	14.47	14.50	16	0		
10	QPSK	1	25	14.48	14.29	14.46				
10	QPSK	1	49	14.36	14.27	14.51				
10	QPSK	25	0	13.90	13.39	13.54	15	1		
10	QPSK	25	12	13.83	13.40	13.43				
10	QPSK	25	25	13.81	13.36	13.54				
10	QPSK	50	0	13.59	13.46	13.48	15	1		
10	16QAM	1	0	13.62	13.49	13.54				
10	16QAM	1	25	13.71	13.53	13.65				
10	16QAM	1	49	13.65	13.41	13.58	14	2		
10	16QAM	25	0	12.54	12.40	12.48				
10	16QAM	25	12	12.57	12.40	12.49				
10	16QAM	25	25	12.52	12.37	12.51	14	2		
10	16QAM	50	0	12.61	12.37	12.51				
10	64QAM	1	0	12.19	12.12	12.14				
10	64QAM	1	25	12.18	12.02	12.14	14	2		
10	64QAM	1	49	12.22	12.02	12.15				
10	64QAM	25	0	11.57	11.46	11.50				
10	64QAM	25	12	11.58	11.40	11.53	13	3		
10	64QAM	25	25	11.56	11.36	11.48				
10	64QAM	50	0	11.56	11.36	11.48				
Channel				42115	42990	43065	Tune-up limit	MPR		
Frequency (MHz)				3452.5	3500	3547.5	(dBm)	(dB)		
5	QPSK	1	0	14.46	14.37	14.57	16	0		
5	QPSK	1	12	14.47	14.29	14.47				
5	QPSK	1	24	14.51	14.30	14.50				
5	QPSK	12	0	13.58	13.44	13.55	15	1		
5	QPSK	12	7	13.54	13.36	13.48				
5	QPSK	12	13	13.52	13.33	13.51				
5	QPSK	25	0	13.59	13.39	13.51	15	1		
5	16QAM	1	0	13.60	13.44	13.58				
5	16QAM	1	12	13.61	13.43	13.60				
5	16QAM	1	24	13.88	13.47	13.60	15	1		
5	16QAM	12	0	12.46	12.32	12.46				
5	16QAM	12	7	12.47	12.35	12.44				
5	16QAM	12	13	12.52	12.27	12.41	14	2		
5	16QAM	25	0	12.58	12.40	12.53				
5	64QAM	1	0	12.22	12.18	12.23				
5	64QAM	1	12	12.21	12.13	12.19	14	2		
5	64QAM	1	24	12.23	12.07	12.18				
5	64QAM	12	0	11.57	11.41	11.53				
5	64QAM	12	7	11.55	11.41	11.51	13	3		
5	64QAM	12	13	11.57	11.35	11.49				
5	64QAM	25	0	11.56	11.44	11.58				



Ant 0 Sensor&Hotspot												
GSM900	Burst Average Power (dBm)				Tune-up Limit (dBm)	Frame-Average Power (dBm)				Tune-up Limit (dBm)		
	128	189	251	Limit		128	189	251	Limit			
TX Channel	128	189	251	Limit	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	836.4	848.6	830.0	824.2	836.4	848.6	830.0	824.2	836.4	848.6	830.0
GSM 1 Tx slot	27.99	27.94	28.44	29.50	18.99	18.94	19.44	20.50				
GPRS 1 Tx slot	28.13	28.08	28.18	29.50	19.13	19.08	19.18	20.50				
GPRS 2 Tx slot	26.90	27.28	27.22	28.00	20.90	21.28	21.22	22.00				
GPRS 3 Tx slot	25.28	25.59	25.36	26.00	21.02	21.33	21.10	21.74				
GPRS 4 Tx slot	24.33	24.17	24.39	25.00	21.33	21.17	21.39	22.00				
EDGE 1 Tx slot	22.01	21.93	21.78	23.00	13.01	12.93	12.78	14.00				
EDGE 2 Tx slot	20.45	20.29	20.37	21.00	14.45	14.29	14.37	15.00				
EDGE 3 Tx slot	18.04	17.60	17.57	19.00	13.78	13.34	13.31	14.74				
EDGE 4 Tx slot	16.39	16.51	16.58	17.00	13.39	13.51	13.58	14.00				

Ant 4 Sensor&Hotspot												
GSM900	Burst Average Power (dBm)				Tune-up Limit (dBm)	Frame-Average Power (dBm)				Tune-up Limit (dBm)		
	128	189	251	Limit		128	189	251	Limit			
TX Channel	128	189	251	Limit	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	836.4	848.6	830.0	824.2	836.4	848.6	830.0	824.2	836.4	848.6	830.0
GSM 1 Tx slot	31.91	31.73	31.84	33.00	22.91	22.73	22.84	24.00				
GPRS 1 Tx slot	31.74	31.95	31.84	33.00	22.74	22.95	22.84	24.00				
GPRS 2 Tx slot	30.62	30.88	30.90	31.50	24.62	24.88	24.90	25.50				
GPRS 3 Tx slot	28.71	28.13	28.80	29.50	24.45	24.87	24.64	25.24				
GPRS 4 Tx slot	27.86	27.78	27.74	28.50	24.86	24.78	24.74	25.50				
EDGE 1 Tx slot	26.24	26.45	26.59	26.50	16.24	16.55	16.69	17.50				
EDGE 2 Tx slot	23.82	23.95	23.78	24.50	17.82	17.95	17.78	18.50				
EDGE 3 Tx slot	21.50	21.49	21.55	22.50	17.24	17.23	17.29	18.24				
EDGE 4 Tx slot	20.00	20.24	20.04	20.50	17.00	17.24	17.04	17.50				

Ant 0 Sensor												
GSM900	Burst Average Power (dBm)				Tune-up Limit (dBm)	Frame-Average Power (dBm)				Tune-up Limit (dBm)		
	512	661	810	Limit		512	661	810	Limit			
TX Channel	512	661	810	Limit	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1652.2	1660	1669.8	1650.0	1652.2	1660	1669.8	1650.0	1652.2	1660	1669.8	1650.0
GSM 1 Tx slot	23.45	23.44	23.09	24.00	14.45	14.44	14.09	15.00				
GPRS 1 Tx slot	23.09	23.03	23.06	24.00	14.09	14.03	14.06	15.00				
GPRS 2 Tx slot	22.49	22.25	22.34	23.00	16.49	16.25	16.34	17.00				
GPRS 3 Tx slot	20.42	20.51	20.68	21.00	16.16	16.45	16.42	16.74				
GPRS 4 Tx slot	19.79	19.48	19.60	20.00	16.79	16.48	16.60	17.00				
EDGE 1 Tx slot	19.21	19.19	19.10	19.50	10.21	10.19	10.10	10.50				
EDGE 2 Tx slot	17.42	17.45	17.47	17.50	11.42	11.45	11.47	11.50				
EDGE 3 Tx slot	15.44	15.45	15.28	15.50	11.18	11.19	11.02	11.24				
EDGE 4 Tx slot	13.91	13.79	13.62	14.00	10.91	10.79	10.62	11.00				

Ant 0 Handheld												
GSM900	Burst Average Power (dBm)				Tune-up Limit (dBm)	Frame-Average Power (dBm)				Tune-up Limit (dBm)		
	128	189	251	Limit		128	189	251	Limit			
TX Channel	128	189	251	Limit	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	836.4	848.6	830.0	824.2	836.4	848.6	830.0	824.2	836.4	848.6	830.0
GSM 1 Tx slot	30.75	31.04	30.92	32.50	21.75	22.04	21.92	23.50				
GPRS 1 Tx slot	30.81	30.93	30.89	32.50	21.81	21.93	21.89	23.50				
GPRS 2 Tx slot	29.97	30.11	29.91	31.00	23.97	24.11	23.91	25.00				
GPRS 3 Tx slot	28.08	28.22	28.10	29.00	23.82	23.96	23.84	24.74				
GPRS 4 Tx slot	26.96	27.04	26.79	28.00	23.96	24.04	23.79	25.00				
EDGE 1 Tx slot	24.48	24.47	24.44	26.00	15.48	15.47	15.44	17.00				
EDGE 2 Tx slot	23.00	22.98	22.88	24.00	17.00	16.98	16.88	18.00				
EDGE 3 Tx slot	20.83	20.49	20.41	22.00	16.57	16.23	16.15	17.74				
EDGE 4 Tx slot	19.16	19.27	19.25	20.00	16.16	16.27	16.25	17.00				

Ant 0 Hotspot												
GSM900	Burst Average Power (dBm)				Tune-up Limit (dBm)	Frame-Average Power (dBm)				Tune-up Limit (dBm)		
	512	661	810	Limit		512	661	810	Limit			
TX Channel	512	661	810	Limit	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1652.2	1660	1669.8	1650.0	1652.2	1660	1669.8	1650.0	1652.2	1660	1669.8	1650.0
GSM 1 Tx slot	22.71	22.49	22.24	23.00	13.71	13.49	13.24	14.00				
GPRS 1 Tx slot	22.62	22.37	22.73	23.00	13.62	13.37	13.73	14.00				
GPRS 2 Tx slot	21.57	21.47	21.48	22.00	15.57	15.47	15.48	16.00				
GPRS 3 Tx slot	19.95	19.63	19.74	20.00	15.66	15.37	15.48	15.74				
GPRS 4 Tx slot	18.67	18.83	18.75	19.50	15.07	15.53	15.75	16.00				
EDGE 1 Tx slot	18.23	18.44	18.06	18.50	9.23	9.44	8.06	9.50				
EDGE 2 Tx slot	16.21	16.44	16.34	16.50	10.21	10.44	10.34	10.50				
EDGE 3 Tx slot	14.38	14.47	14.44	14.50	10.10	10.21	10.18	10.24				
EDGE 4 Tx slot	13.57	13.22	13.32	13.00	10.57	10.22	10.32	10.00				

Band	ANT0 Sensor&Hotspot				ANT0 Sensor				ANT0 Hotspot				ANT0 Handheld				ANT 4 Sensor&Hotspot				
	WCDMA V		WCDMA IV		WCDMA V		WCDMA IV		WCDMA V		WCDMA IV		WCDMA V		WCDMA IV		WCDMA V		WCDMA IV		
Rx Channel	4132	4162	4233	Limit	1312	1413	1513	Limit	1312	1413	1513	Limit	1312	1413	1513	Limit	9282	9400	9538	Limit	
Frequency (MHz)	4367	4407	4458	4300.0	1537	1638	1738	1500.0	1537	1638	1738	1500.0	1537	1638	1738	1500.0	1652.4	1660	1669.8	1650.0	
GPP Rel 8	826.4	838.4	848.6	830.0	1712.4	1732.6	1752.6	1650.0	1712.4	1732.6	1752.6	1650.0	1712.4	1732.6	1752.6	1650.0	1652.4	1660	1669.8	1650.0	
3GPP Rel 8	22.22	22.50	22.10	23.00	15.57	15.59	15.49	16.50	15.50	16.50	16.70	16.00	21.50	21.55	21.53	22.00	20.22	20.30	20.29	21.50	
3GPP Rel 8	22.24	22.31	22.12	23.00	16.72	16.83	16.82	16.50	16.61	16.72	16.75	16.00	21.52	21.57	21.54	22.00	20.76	20.84	20.85	21.50	
3GPP Rel 8	21.76	21.73	21.65	22.00	17.80	17.84	17.80	18.00	18.00	18.15	18.05	18.05	20.13	19.82	20.00	21.50	19.28	19.35	19.13	20.50	
3GPP Rel 8	21.71	21.67	21.64	22.00	17.87	17.81	17.76	18.00	18.00	18.13	18.02	18.00	20.13	19.98	19.95	21.50	19.27	19.35	19.14	20.50	
3GPP Rel 8	21.20	21.15	21.24	21.50	17.41	17.40	17.39	18.50	18.50	18.67	18.48	18.51	17.00	19.62	19.46	19.49	21.00	18.74	18.82	18.63	20.00
3GPP Rel 8	21.13	21.26	21.16	21.50	17.40	17.24	17.32	18.50	18.50	18.62	18.47	18.55	17.00	19.48	19.46	19.51	21.00	18.77	18.85	18.63	20.00
3GPP Rel 8	21.69	21.68	21.67	22.00	17.85	17.77	17.87	18.00	18.00	18.13	18.06	18.00	16.50	20.11	19.93	20.00	20.50	19.28	19.35	19.14	20.50
3GPP Rel 8	21.63	21.63	21.68	22.00	17.82	17.74	17.86	18.00	18.00	18.03	18.09	18.00	16.50	20.00	19.86	19.88	20.50	19.27	19.33	19.12	20.50
3GPP Rel 8	21.27	21.23	21.12	21.50	17.48	17.35	17.27	17.50	18.00	18.00	18.00	18.00	16.50	19.60	19.49	19.53	20.00	18.76	18.85	18.63	20.00
3GPP Rel 8	21.10	21.16	21.18	21.50	17.39	17.30	17.24	18.50	18.50	18.48	18.43	18.55	17.00	19.47	19.38	19.54	21.00	18.77	18.83	18.64	20.00
3GPP Rel 8	19.67	19.58	19.66	20.00	15.84	16.02	16.00	16.00	14.13	14.13	14.23	14.50	16.00	16.09	16.09	16.22	18.50	17.25	17.33	17.23	18.50
3GPP Rel 8	19.67	19.68	19.61	20.00	16.00	15.88	16.03	16.50	14.16	14.16	14.18	15.00	16.00	16.13	16.15	16.14	19.00	17.27	17.34	17.13	18.50
3GPP Rel 8	20.75	20.62	20.72	21.00	17.11	16.95	16.82	17.50	15.28	15.22	15.09	16.00	18.24	18.19	18.05	20.00	18.25	18.34	18.12	18.50	
3GPP Rel																					

Ant 0 Handheld								
GSM/ISO	Burst Average Power (dBm)			Time-up Limit (dBm)	Frame Average Power (dBm)			Time-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1875.2	1883	1891.8	(dBm)	1875.2	1883	1891.8	(dBm)
GSM 1 Tx slot	29.01	29.03	29.14	29.50	29.01	29.03	29.14	29.50
GPRS 1 Tx slot	28.95	29.01	29.11	29.50	19.95	20.01	20.11	20.50
GPRS 2 Tx slots	27.93	27.95	28.13	28.50	21.93	21.95	22.13	22.50
GPRS 3 Tx slots	26.87	26.85	26.98	26.50	21.95	21.98	21.93	22.34
GPRS 4 Tx slots	24.81	24.75	24.97	25.50	21.91	21.75	21.97	22.50
EDGE 1 Tx slot	24.22	24.15	24.18	25.00	15.22	15.15	15.18	16.00
EDGE 2 Tx slots	22.08	22.18	22.02	23.00	16.08	16.18	16.02	17.00
EDGE 3 Tx slots	20.34	20.52	20.26	21.00	16.08	16.26	16.00	16.74
EDGE 4 Tx slots	18.95	19.01	18.97	19.50	16.95	16.01	15.97	16.50





Band 4 ANTO For Sensor														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Time-up limit (dBm)	MPR (dB)						
Channel							20550	20175	20300					
Frequency (MHz)							17270	17275	17475					
20	QPSK	1	0	18.38	18.38	18.38	19.5	0						
20	QPSK	1	49	18.44	18.38	18.37								
20	QPSK	1	99	18.45	18.41	18.28								
20	QPSK	50	0	17.40	17.43	17.47								
20	QPSK	50	24	17.45	17.49	17.47	18.5	1						
20	QPSK	50	50	17.45	17.45	17.41								
20	QPSK	100	0	17.47	17.35	17.45								
20	16QAM	1	0	17.41	17.49	17.47								
20	16QAM	1	49	17.37	17.25	17.40	18.5	1						
20	16QAM	1	99	17.35	17.46	17.49								
20	16QAM	50	0	16.46	16.49	16.46								
20	16QAM	50	24	16.41	16.44	16.48								
20	16QAM	50	50	16.42	16.51	16.46	17.5	2						
20	16QAM	100	0	16.44	16.43	16.45								
20	84QAM	1	0	16.39	16.50	16.46								
20	84QAM	1	49	16.45	16.45	16.45								
20	84QAM	1	99	16.40	16.46	16.52	17.5	2						
20	84QAM	50	0	15.49	15.46	15.43								
20	84QAM	50	24	15.39	15.45	15.50								
20	84QAM	50	50	15.45	15.51	15.48								
20	84QAM	100	0	15.43	15.50	15.49	16.5	3						
Channel										20025	20175	20325		
Frequency (MHz)										17175	17325	17475		
15	QPSK	1	0	18.30	18.35	18.35				19.5	0			
15	QPSK	1	37	18.31	18.31	18.36								
15	QPSK	1	74	18.36	18.39	18.31								
15	QPSK	36	0	17.88	17.76	17.81								
15	QPSK	36	20	17.82	17.72	17.79	18.5	1						
15	QPSK	36	39	17.82	17.79	17.81								
15	QPSK	75	0	17.73	17.79	17.83								
15	16QAM	1	0	17.89	17.97	18.37								
15	16QAM	1	37	17.89	18.09	17.90	18.5	1						
15	16QAM	1	74	17.87	17.95	18.07								
15	16QAM	36	0	16.64	16.71	16.86								
15	16QAM	36	20	16.65	16.76	16.87								
15	16QAM	36	39	16.63	16.80	16.95	17.5	2						
15	16QAM	75	0	16.71	16.78	16.90								
15	84QAM	1	0	16.92	16.94	16.84								
15	84QAM	1	37	17.07	17.21	17.13								
15	84QAM	1	74	16.84	16.99	16.97	16.5	3						
15	84QAM	36	0	15.66	15.79	15.79								
15	84QAM	36	20	15.54	15.66	15.87								
15	84QAM	36	39	15.68	15.83	15.84								
15	84QAM	75	0	15.66	15.72	15.83	20.000	20175	20350	Time-up limit (dBm)	MPR (dB)			
Channel												1715	1732.5	1750
Frequency (MHz)												1838	1838	1835
10	QPSK	1	0	18.38	18.38	18.35						19.5	0	
10	QPSK	1	25	18.24	18.35	18.33								
10	QPSK	1	49	18.27	18.28	18.25								
10	QPSK	25	0	17.70	17.76	17.97								
10	QPSK	25	12	17.61	17.76	17.88	18.5	1						
10	QPSK	25	25	17.66	17.71	17.86								
10	QPSK	50	0	17.71	17.82	17.94								
10	16QAM	1	0	18.25	18.03	17.84								
10	16QAM	1	25	18.15	17.90	18.05	18.5	1						
10	16QAM	1	49	18.16	18.04	18.20								
10	16QAM	25	0	16.81	16.87	16.79								
10	16QAM	25	12	16.80	16.70	16.96								
10	16QAM	25	25	16.85	16.73	16.91	17.5	2						
10	16QAM	50	0	16.66	16.78	16.94								
10	84QAM	1	0	16.89	16.76	17.23								
10	84QAM	1	25	17.04	17.07	17.08								
10	84QAM	1	49	17.11	17.31	17.16	17.5	2						
10	84QAM	25	0	15.79	15.71	15.82								
10	84QAM	25	12	15.59	15.73	15.74								
10	84QAM	25	25	15.77	15.82	15.81								
10	84QAM	50	0	15.69	15.72	15.81	18.5	3						
Channel										19975	20175	20375		
Frequency (MHz)										17125	17325	17525		
5	QPSK	1	0	18.00	18.41	18.26				19.5	0			
5	QPSK	1	12	18.11	18.26	18.39								
5	QPSK	1	24	18.11	18.44	18.22								
5	QPSK	12	0	17.77	17.68	17.74								
5	QPSK	12	7	17.60	17.69	17.72	18.5	1						
5	QPSK	12	13	17.48	17.79	17.74								
5	QPSK	25	0	17.61	17.73	17.98								
5	16QAM	1	0	17.95	18.13	18.00								
5	16QAM	1	12	17.88	18.12	18.04	18.5	1						
5	16QAM	1	24	17.83	17.96	18.07								
5	16QAM	12	0	16.67	16.64	16.78								
5	16QAM	12	7	16.75	16.83	16.79								
5	16QAM	12	13	16.70	16.75	16.90	17.5	2						
5	16QAM	25	0	16.69	16.78	17.03								
5	84QAM	1	0	17.09	17.11	17.16								
5	84QAM	1	12	16.91	17.09	16.93								
5	84QAM	1	24	17.25	17.40	17.00	17.5	2						
5	84QAM	12	0	15.52	15.76	15.75								
5	84QAM	12	7	15.72	15.82	15.82								
5	84QAM	12	13	15.48	15.85	15.88								
5	84QAM	25	0	15.63	15.96	15.88	16.5	3						
Channel										19965	20175	20365		
Frequency (MHz)										17115	1732.5	1753.5		
3	QPSK	1	0	18.38	18.35	18.26				19.5	0			
3	QPSK	1	8	18.32	18.26	18.36								
3	QPSK	1	14	18.31	18.39	18.29								
3	QPSK	8	0	17.45	17.79	17.70								
3	QPSK	8	4	17.45	17.59	17.69	18.5	1						
3	QPSK	8	7	17.68	17.91	17.94								
3	QPSK	15	0	17.67	17.84	17.81								
3	16QAM	1	0	17.97	18.13	18.06								
3	16QAM	1	8	17.86	18.14	18.25	18.5	1						
3	16QAM	1	14	17.95	18.13	18.16								
3	16QAM	8	0	16.47	16.63	16.75								
3	16QAM	8	4	16.62	16.80	16.57								
3	16QAM	8	7	16.50	16.69	16.71	17.5	2						
3	16QAM	15	0	16.67	16.56	16.67								
3	84QAM	1	0	16.79	16.91	16.92								
3	84QAM	1	8	17.02	16.99	16.94								
3	84QAM	1	14	16.82	17.08	16.84	17.5	2						
3	84QAM	8	0	15.83	15.74	15.88								
3	84QAM	8	4	15.53	15.60	15.92								
3	84QAM	8	7	15.72	15.83	15.78								
3	84QAM	15	0	15.66	15.57	15.75	16.5	3						
Channel										19957	20175	20383		
Frequency (MHz)										17107	1732.5	1753.3		
1.4	QPSK	1	0	18.40	18.43	18.39				19.5	0			
1.4	QPSK	1	5	18.40	18.33	18.39								
1.4	QPSK	1	9	18.16	18.35	18.27								
1.4	QPSK	3	0	18.35	18.45	18.38								
1.4	QPSK	3	1	18.30	18.32	18.23	18.5	1						
1.4	QPSK	3	3	18.36	18.24	18.33								
1.4	QPSK	6	0	17.71	17.83	17.80								
1.4	16QAM	1	0	18.34	18.25	18.31								
1.4	16QAM	1	3	18.12	18.36	18.36	18.5	1						
1.4	16QAM	1	5	18.10	18.29	18.16								
1.4	16QAM	3	0	17.57	17.76	17.73								
1.4	16QAM	3	1	17.46	17.73	17.77								
1.4	16QAM	3	3	17.57	17.90	17.82	17.5	2						
1.4	16QAM	6	0	16.72	16.87	16.98								
1.4	84QAM	1	0	17.14	17.06	17.06								
1.4	84QAM	1	3	16.90	17.17	16.73								
1.4	84QAM	1	5	16.84	16.95	17.20	17.5	2						
1.4	84QAM	3	0	16.63	16.70	16.70								
1.4	84QAM	3	1	16.62	16.68	16.68								
1.4	84QAM	3	3	16.65	16.69	16.82								
1.4	84QAM	6	0	15.83	15.90	15.66	16.5	3						

Band 4 ANTO For Hotspot												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Time-up limit (dBm)	MPR (dB)				
Channel							20550	20175	20300			
Frequency (MHz)							17270	17275	17475			
20	QPSK	1	0	18.38	18.38	18.34	19	0				
20	QPSK	1	49	18.21	18.34	18.18						
20	QPSK	1	99	18.19	18.28	18.28						
20	QPSK	50	0	17.34	17.37	17.21						
20	QPSK	50	24	17.33	17.42	17.26	18	1				
20	QPSK	50	50	17.18	17.20	17.18						
20	QPSK	100	0	17.09	17.18	17.13						
20	16QAM	1	0	17.15	17.47	17.40						
20	16QAM	1	49	17.18	17.46	17.36	18	1				
20	16QAM	1	99	17.39	17.41	17.29						
20	16QAM	50	0	16.40	16.47	16.50						
20	16QAM	50	24	16.20	16.47	16.28						
20	16QAM	50	50	16.44	16.49	16.24	17	2				
20	16QAM	100	0	16.24	16.37	16.47						
20	84QAM	1	0	16.43	16.49	16.35						
20	84QAM	1	49	16.26	16.46	16.37						
20	84QAM	1	99	16.20	16.26	16.23	17	2				
20	84QAM	50	0	15.21	15.34	15.37						
20	84QAM	50	24	15.14	15.30	15.19						
20	84QAM	50	50	15.22	15.55	15.36						
20	84QAM	100	0	15.39	15.42	15.27	16	3				
Channel										20025	20175	20325
Frequency (MHz)										17175	1732.5	17475
15	QPSK	1	0	18.12	18.00	18.21				19	0	
15	QPSK	1	37	17.97	18.04	18.22						
15	QPSK	1	74	17.94	18.10	18.13						
15	QPSK	36	0	17.18	17.11	17.22						
15	QPSK	36	20	17.09	17.27	17.42	18	1				
15	QPSK	36	39	17.14	17.12	17.35						
15	QPSK	75	0	17.10	17.27	17.25						
15	16QAM	1	0	17.65	17.46	17.49						
15	16QAM	1	37	17.25	17.38	17.35	18	1				
15	16QAM	1	74	17.35	17.44	17.36						
15	16QAM	36										



Band 26 for FCC Ant0 Sensor&Hotspot										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				26765	26865	26965				
15	QPSK	1	0	22.67	22.76	22.71				
15	QPSK	1	37	22.63	22.71	22.67	23.5	0		
15	QPSK	1	74	22.64	22.74	22.68				
15	QPSK	36	0	21.68	21.70	21.65				
15	QPSK	36	20	21.62	21.68	21.64	22.5	1		
15	QPSK	36	39	21.62	21.65	21.62				
15	QPSK	75	0	21.60	21.61	21.56				
15	16QAM	1	0	21.65	21.76	21.69				
15	16QAM	1	37	21.64	21.70	21.67	22.5	1		
15	16QAM	1	74	21.64	21.74	21.67				
15	16QAM	36	0	20.67	20.71	20.64				
15	16QAM	36	20	20.63	20.68	20.65	21.5	2		
15	16QAM	36	39	20.62	20.63	20.60				
15	16QAM	75	0	20.60	20.60	20.54				
15	64QAM	1	0	20.68	20.71	20.64				
15	64QAM	1	37	20.67	20.69	20.64	21.5	2		
15	64QAM	1	74	20.66	20.69	20.66				
15	64QAM	36	0	19.65	19.71	19.65				
15	64QAM	36	20	19.65	19.69	19.65	20.5	3		
15	64QAM	36	39	19.67	19.68	19.67				
15	64QAM	75	0	19.65	19.70	19.66				
Channel										
Frequency (MHz)				26740	26865	26990	Turn-up limit (dBm)	MPR (dB)		
				819	831.5	844				
10	QPSK	1	0	22.65	22.56	22.80				
10	QPSK	1	25	22.73	22.48	22.82	23.5	0		
10	QPSK	1	49	22.72	22.73	22.88				
10	QPSK	25	0	21.75	21.95	22.07				
10	QPSK	25	12	21.71	21.91	21.91	22.5	1		
10	QPSK	25	25	21.78	21.87	21.80				
10	QPSK	50	0	21.79	21.98	21.93				
10	16QAM	1	0	22.12	22.04	21.94				
10	16QAM	1	25	22.12	22.06	22.07	22.5	1		
10	16QAM	1	49	21.84	21.74	21.95				
10	16QAM	25	0	20.92	21.12	21.16				
10	16QAM	25	12	20.98	21.03	20.98	21.5	2		
10	16QAM	25	25	20.95	21.11	21.02				
10	16QAM	50	0	20.86	21.11	21.11				
10	64QAM	1	0	21.12	21.15	21.03				
10	64QAM	1	25	21.35	21.09	21.10	21.5	2		
10	64QAM	1	49	21.44	21.33	21.14				
10	64QAM	25	0	19.72	20.06	20.08				
10	64QAM	25	12	19.80	20.02	19.99	20.5	3		
10	64QAM	25	25	19.88	20.06	20.00				
10	64QAM	50	0	19.80	20.03	20.03				
Channel										
Frequency (MHz)				26715	26865	27015	Turn-up limit (dBm)	MPR (dB)		
				816.5	831.5	846.5				
5	QPSK	1	0	22.49	22.72	22.50				
5	QPSK	1	12	22.33	22.67	22.40	23.5	0		
5	QPSK	1	24	22.55	22.49	22.46				
5	QPSK	12	0	21.69	22.01	21.87				
5	QPSK	12	7	21.72	21.91	21.82	22.5	1		
5	QPSK	12	13	21.80	21.93	21.86				
5	QPSK	25	0	21.72	21.83	21.88				
5	16QAM	1	0	22.11	22.07	21.79				
5	16QAM	1	12	21.88	22.12	21.86	22.5	1		
5	16QAM	1	24	21.73	21.97	22.16				
5	16QAM	12	0	20.82	21.08	21.02				
5	16QAM	12	7	20.81	21.11	20.91	21.5	2		
5	16QAM	12	13	20.86	21.03	20.97				
5	16QAM	25	0	20.84	21.08	21.01				
5	64QAM	1	0	20.91	21.05	20.97	21.5	2		
5	64QAM	1	12	20.95	21.21	21.06				
5	64QAM	1	24	20.94	21.06	21.05				
5	64QAM	12	0	19.85	20.10	20.12				
5	64QAM	12	7	19.82	20.01	19.91	20.5	3		
5	64QAM	12	13	19.80	20.11	20.00				
5	64QAM	25	0	19.82	20.13	19.90				
Channel										
Frequency (MHz)				26705	26865	27025	Turn-up limit (dBm)	MPR (dB)		
				815.5	831.5	847.5				
3	QPSK	1	0	22.40	22.63	22.68				
3	QPSK	1	8	22.39	22.62	22.62	23.5	0		
3	QPSK	1	16	22.31	22.68	22.52				
3	QPSK	8	0	21.66	21.86	21.82				
3	QPSK	8	4	21.67	21.87	21.75	22.5	1		
3	QPSK	8	7	21.65	21.90	21.81				
3	QPSK	15	0	21.65	21.80	21.79				
3	16QAM	1	0	21.98	22.44	22.12				
3	16QAM	1	8	22.35	22.48	22.47	22.5	1		
3	16QAM	1	14	22.26	22.19	22.13				
3	16QAM	8	0	20.81	21.15	20.92				
3	16QAM	8	4	20.89	21.02	20.98	21.5	2		
3	16QAM	8	7	20.86	21.11	20.90				
3	16QAM	15	0	20.87	21.08	21.03				
3	64QAM	1	0	21.03	21.00	21.30				
3	64QAM	1	8	21.15	21.21	20.87	21.5	2		
3	64QAM	1	14	21.15	21.05	21.16				
3	64QAM	8	0	19.79	20.03	19.77				
3	64QAM	8	4	19.89	20.01	19.96	20.5	3		
3	64QAM	8	7	19.79	19.91	19.89				
3	64QAM	15	0	19.79	20.13	19.90				
Channel										
Frequency (MHz)				26697	26865	27033	Turn-up limit (dBm)	MPR (dB)		
				814.7	831.5	848.3				
1.4	QPSK	1	0	22.47	22.66	22.48				
1.4	QPSK	1	3	22.49	22.73	22.55	23.5	0		
1.4	QPSK	1	5	22.56	22.71	22.68				
1.4	QPSK	3	0	22.27	22.62	22.45				
1.4	QPSK	3	1	22.26	22.80	22.45	22.5	1		
1.4	QPSK	3	3	22.37	22.63	22.45				
1.4	QPSK	6	0	21.62	21.88	21.81				
1.4	16QAM	1	0	22.19	22.34	22.19	22.5	1		
1.4	16QAM	1	3	21.99	22.11	22.29				
1.4	16QAM	1	5	21.84	22.14	22.00	22.5	1		
1.4	16QAM	3	0	21.56	22.04	21.94				
1.4	16QAM	3	1	21.69	21.97	21.88				
1.4	16QAM	3	3	21.59	22.02	21.93				
1.4	16QAM	6	0	20.87	21.19	20.92	21.5	2		
1.4	64QAM	1	0	20.84	21.19	21.22				
1.4	64QAM	1	3	20.82	21.01	20.91				
1.4	64QAM	1	5	20.87	21.31	21.00				
1.4	64QAM	3	0	20.93	21.14	21.15	21.5	2		
1.4	64QAM	3	1	20.90	20.98	21.28				
1.4	64QAM	3	3	21.02	21.21	20.99				
1.4	64QAM	6	0	19.79	20.01	19.86	20.5	3		

Band 4 ANT0 For Handheld										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				20050	20175	20300				
20	QPSK	1	0	22.70	22.93	21.99				
20	QPSK	1	49	21.99	22.01	21.96	23	0		
20	QPSK	1	99	21.99	22.00	21.95				
20	QPSK	50	0	21.03	20.99	20.95				
20	QPSK	50	24	21.00	20.95	20.94	22	1		
20	QPSK	50	50	21.01	20.96	20.91				
20	QPSK	100	0	21.01	21.01	21.05				
20	16QAM	1	0	21.02	20.95	20.91				
20	16QAM	1	49	21.01	20.97	20.92	22	1		
20	16QAM	1	99	21.01	20.98	20.93				
20	16QAM	50	0	20.03	19.99	19.95				
20	16QAM	50	24	20.02	19.98	19.95	21	2		
20	16QAM	50	50	20.04	20.00	19.95				
20	16QAM									



Band 2 Ant 4 For Sensor&Hotspot									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				16700	16900	19100			
Frequency (MHz)				16700	16900	19100			
20	QPSK	1	0	18.73	18.82	18.89			
20	QPSK	1	49	18.47	18.41	18.61	19.5	0	
20	QPSK	1	99	18.62	18.54	18.48			
20	QPSK	50	0	17.09	17.29	17.03			
20	QPSK	50	24	17.21	17.28	17.25	18.5	1	
20	QPSK	50	50	17.19	17.25	17.09			
20	QPSK	100	0	16.99	17.13	17.03			
20	16QAM	1	0	17.26	17.46	17.40			
20	16QAM	1	99	16.16	16.11	16.16	18.5	1	
20	16QAM	1	99	17.35	17.34	17.41			
20	16QAM	50	0	16.17	16.15	16.24			
20	16QAM	50	24	16.15	16.23	16.21	17.5	2	
20	16QAM	50	50	16.15	16.08	16.05			
20	16QAM	100	0	16.20	16.17	16.17			
20	64QAM	1	0	16.25	16.33	16.20			
20	64QAM	1	49	16.47	16.44	16.34	17.5	2	
20	64QAM	1	99	16.16	16.11	16.16			
20	64QAM	50	0	15.24	15.13	15.33			
20	64QAM	50	24	15.15	15.14	15.11	16.5	3	
20	64QAM	50	50	15.02	15.13	15.04			
20	64QAM	100	0	15.07	15.17	15.21			
Channel				18675	18900	19125			
Frequency (MHz)				18675	18900	19125			
15	QPSK	1	0	18.08	18.02	18.06			
15	QPSK	1	37	18.02	18.03	18.02	19.5	0	
15	QPSK	1	74	18.12	18.05	18.05			
15	QPSK	38	0	17.35	17.34	17.39			
15	QPSK	38	20	17.38	17.32	17.27	18.5	1	
15	QPSK	38	39	17.31	17.33	17.23			
15	QPSK	75	0	17.38	17.42	17.35			
15	16QAM	1	0	17.82	17.86	17.76			
15	16QAM	1	37	18.03	17.56	17.55	18.5	1	
15	16QAM	1	74	17.83	17.72	18.04			
15	16QAM	38	0	16.45	16.44	16.47			
15	16QAM	38	20	16.46	16.45	16.36	17.5	2	
15	16QAM	38	39	16.40	16.40	16.20			
15	16QAM	75	0	16.44	16.48	16.39			
15	64QAM	1	0	16.70	16.43	16.65			
15	64QAM	1	37	16.87	16.51	16.87	17.5	2	
15	64QAM	1	74	16.65	16.61	16.48			
15	64QAM	38	0	15.55	15.47	15.40			
15	64QAM	38	20	15.48	15.51	15.34	16.5	3	
15	64QAM	38	39	15.41	15.47	15.29			
15	64QAM	75	0	15.47	15.41	15.34			
Channel				18950	18900	19150			
Frequency (MHz)				18950	18900	19150			
10	QPSK	1	0	18.07	18.11	17.89			
10	QPSK	1	25	18.09	18.06	18.06	19.5	0	
10	QPSK	1	49	18.07	18.05	18.04			
10	QPSK	25	0	17.39	17.39	17.45			
10	QPSK	25	12	17.45	17.36	17.45	18.5	1	
10	QPSK	25	25	17.40	17.43	17.31			
10	QPSK	50	0	17.44	17.42	17.35			
10	16QAM	1	0	17.89	17.82	17.89			
10	16QAM	1	25	17.99	17.84	17.82	18.5	1	
10	16QAM	1	49	17.82	17.74	17.66			
10	16QAM	25	0	16.50	16.53	16.37			
10	16QAM	25	12	16.49	16.40	16.41	17.5	2	
10	16QAM	25	25	16.42	16.51	16.44			
10	16QAM	50	0	16.49	16.45	16.47			
10	64QAM	1	0	16.74	16.70	16.63			
10	64QAM	1	25	16.72	16.73	16.43	17.5	2	
10	64QAM	1	49	16.70	16.89	16.49			
10	64QAM	25	0	15.53	15.44	15.20			
10	64QAM	25	12	15.47	15.39	15.31	16.5	3	
10	64QAM	25	25	15.42	15.45	15.41			
10	64QAM	50	0	15.52	15.45	15.40			
Channel				18625	18900	19175			
Frequency (MHz)				18625	18900	19175			
5	QPSK	1	0	18.04	18.11	18.04			
5	QPSK	1	12	18.05	18.07	18.06	19.5	0	
5	QPSK	1	24	18.06	18.08	18.09			
5	QPSK	12	0	17.35	17.37	17.22			
5	QPSK	12	7	17.31	17.33	17.31	18.5	1	
5	QPSK	12	13	17.39	17.34	17.28			
5	QPSK	25	0	17.37	17.42	17.37			
5	16QAM	1	0	17.65	17.74	17.65			
5	16QAM	1	12	18.12	17.82	17.88	18.5	1	
5	16QAM	1	24	17.86	17.93	17.94			
5	16QAM	12	0	16.49	16.56	16.37			
5	16QAM	12	7	16.46	16.50	16.26	17.5	2	
5	16QAM	12	13	16.53	16.55	16.34			
5	16QAM	25	0	16.48	16.53	16.49			
5	64QAM	1	0	16.74	16.81	16.49			
5	64QAM	1	12	16.43	16.66	16.45	17.5	2	
5	64QAM	1	24	16.66	16.59	16.66			
5	64QAM	12	0	15.55	15.47	15.36			
5	64QAM	12	7	15.45	15.53	15.24	16.5	3	
5	64QAM	12	13	15.54	15.46	15.27			
5	64QAM	25	0	15.45	15.33	15.35			
Channel				18615	18900	19185			
Frequency (MHz)				18615	18900	19185			
3	QPSK	1	0	18.12	18.11	18.09			
3	QPSK	1	8	18.03	18.12	18.11	19.5	0	
3	QPSK	1	14	18.08	18.06	18.04			
3	QPSK	8	0	17.27	17.37	17.22			
3	QPSK	8	4	17.39	17.32	17.19	18.5	1	
3	QPSK	8	7	17.39	17.33	17.16			
3	QPSK	15	0	17.39	17.38	17.22			
3	16QAM	1	0	17.88	17.80	17.93			
3	16QAM	1	8	17.93	17.91	17.65	18.5	1	
3	16QAM	1	14	17.56	17.95	17.51			
3	16QAM	8	0	16.44	16.58	16.29			
3	16QAM	8	4	16.50	16.50	16.31	17.5	2	
3	16QAM	8	7	16.59	16.44	16.29			
3	64QAM	15	0	16.52	16.43	16.46			
3	64QAM	1	0	16.72	16.43	16.66			
3	64QAM	1	8	16.47	16.68	16.71	17.5	2	
3	64QAM	1	14	16.89	16.76	16.59			
3	64QAM	8	0	15.53	15.35	15.32			
3	64QAM	8	4	15.31	15.28	15.38	16.5	3	
3	64QAM	8	7	15.59	15.44	15.33			
3	64QAM	15	0	15.38	15.41	15.42			
Channel				18900	18900	19190			
Frequency (MHz)				18900	18900	19190			
1.4	QPSK	1	0	18.03	18.01	18.00			
1.4	QPSK	1	3	18.06	17.98	17.91	19.5	0	
1.4	QPSK	1	5	18.05	18.07	17.85			
1.4	QPSK	3	0	18.09	18.10	18.04			
1.4	QPSK	3	1	18.02	18.08	18.00			
1.4	QPSK	3	3	18.11	18.07	17.85	18.5	1	
1.4	QPSK	6	0	17.27	17.37	17.31			
1.4	16QAM	1	0	17.64	17.62	17.92			
1.4	16QAM	1	3	17.74	17.69	17.57			
1.4	16QAM	1	5	17.62	17.68	17.60	18.5	1	
1.4	16QAM	3	0	17.40	17.54	17.16			
1.4	16QAM	3	1	17.42	17.29	17.38			
1.4	16QAM	3	3	17.36	17.52	17.21	17.5	2	
1.4	16QAM	6	0	16.55	16.56	16.49			
1.4	64QAM	1	0	16.41	16.76	16.54			
1.4	64QAM	1	3	16.74	16.77	16.59			
1.4	64QAM	1	5	16.71	16.76	16.32	17.5	2	
1.4	64QAM	3	0	16.57	16.40	16.40			
1.4	64QAM	3	1	16.54	16.64	16.50			
1.4	64QAM	3	3	16.63	16.36	16.47			
1.4	64QAM	6	0	15.39	15.37	15.25	16.5	3	

Band 2 Ant 4 For Handheld									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle				



Band 7 Ant 1 For Sensor&Hotspot							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	MPR (dB)
Channel				20850	21100	21350	
Frequency (MHz)				2530	2535	2560	
20	QPSK	1	0	16.65	16.70	16.66	
20	QPSK	1	49	16.63	16.68	16.63	18
20	QPSK	1	99	16.63	16.68	16.63	
20	QPSK	50	0	15.78	15.77	15.70	
20	QPSK	50	24	15.72	15.73	15.67	
20	QPSK	50	50	15.73	15.74	15.68	
20	QPSK	100	0	15.55	15.65	15.62	
20	16QAM	1	0	15.75	15.73	15.69	
20	16QAM	1	99	14.74	14.76	14.72	17
20	16QAM	50	0	15.73	15.74	15.68	
20	16QAM	50	0	14.75	14.76	14.71	
20	16QAM	50	24	14.77	14.76	14.71	
20	16QAM	50	50	14.77	14.77	14.71	
20	16QAM	100	0	14.77	14.76	14.70	
20	16QAM	1	0	14.75	14.77	14.70	
20	16QAM	1	49	14.78	14.75	14.71	16
20	16QAM	1	99	14.74	14.76	14.72	
20	16QAM	50	0	13.75	13.76	13.68	
20	16QAM	50	24	13.77	13.78	13.70	
20	16QAM	50	50	13.75	13.78	13.71	
20	16QAM	100	0	13.75	13.77	13.68	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	16.26	16.52	16.37	
15	QPSK	1	37	16.16	16.42	16.62	18
15	QPSK	1	74	16.37	16.36	16.38	
15	QPSK	36	0	15.34	15.40	15.36	
15	QPSK	36	20	15.39	15.40	15.37	
15	QPSK	36	39	15.41	15.38	15.37	17
15	QPSK	75	0	15.44	15.41	15.34	
15	16QAM	1	0	15.85	15.69	15.99	
15	16QAM	1	37	16.12	16.15	16.04	17
15	16QAM	1	74	15.71	15.75	15.81	
15	16QAM	36	0	14.35	14.35	14.36	
15	16QAM	36	20	14.37	14.35	14.37	
15	16QAM	36	39	14.36	14.30	14.41	16
15	16QAM	75	0	14.41	14.43	14.31	
15	16QAM	1	0	14.71	14.48	14.51	
15	16QAM	1	37	14.59	14.74	14.58	16
15	16QAM	1	74	14.34	14.63	14.59	
15	16QAM	36	0	13.34	13.44	13.40	
15	16QAM	36	20	13.38	13.41	13.38	
15	16QAM	36	39	13.42	13.33	13.40	15
15	16QAM	75	0	13.35	13.36	13.29	
Channel				20900	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	16.45	16.36	16.26	
10	QPSK	1	25	16.26	16.40	16.40	18
10	QPSK	1	49	16.54	16.36	16.42	
10	QPSK	25	0	15.40	15.42	15.40	
10	QPSK	25	12	15.42	15.34	15.40	
10	QPSK	25	25	15.42	15.42	15.41	17
10	QPSK	50	0	15.44	15.45	15.44	
10	16QAM	1	0	15.57	15.02	15.69	
10	16QAM	1	25	15.56	15.52	15.61	17
10	16QAM	1	49	15.53	15.54	16.01	
10	16QAM	25	0	14.40	14.37	14.40	
10	16QAM	25	12	14.38	14.36	14.43	
10	16QAM	25	25	14.51	14.37	14.47	16
10	16QAM	50	0	14.37	14.35	14.32	
10	16QAM	1	0	14.38	14.64	14.62	
10	16QAM	1	25	14.66	14.65	14.62	16
10	16QAM	1	49	14.36	14.69	14.54	
10	16QAM	25	0	13.50	13.44	13.38	
10	16QAM	25	12	13.35	13.33	13.43	
10	16QAM	25	25	13.40	13.34	13.43	15
10	16QAM	50	0	13.40	13.37	13.46	
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	16.59	16.42	16.42	
5	QPSK	1	12	16.42	16.33	16.52	18
5	QPSK	1	24	16.64	16.49	16.43	
5	QPSK	12	0	15.44	15.39	15.49	
5	QPSK	12	7	15.38	15.37	15.41	
5	QPSK	12	13	15.42	15.36	15.42	17
5	QPSK	25	0	15.46	15.39	15.44	
5	16QAM	1	0	15.69	15.96	15.89	
5	16QAM	1	12	15.58	15.90	16.04	17
5	16QAM	1	24	15.65	15.86	15.71	
5	16QAM	12	0	14.41	14.32	14.44	
5	16QAM	12	7	14.39	14.33	14.35	
5	16QAM	12	13	14.30	14.38	14.32	16
5	16QAM	25	0	14.37	14.40	14.40	
5	16QAM	1	0	14.68	14.62	14.55	
5	16QAM	1	12	14.62	14.77	14.68	16
5	16QAM	1	24	14.77	15.05	14.92	
5	16QAM	12	0	13.38	13.25	13.46	
5	16QAM	12	7	13.42	13.42	13.36	
5	16QAM	12	13	13.34	13.31	13.36	15
5	16QAM	25	0	13.40	13.35	13.39	

Band 7 Ant 1 For Handheld							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	MPR (dB)
Channel				20850	21100	21350	
Frequency (MHz)				2530	2535	2560	
20	QPSK	1	0	20.53	20.70	20.66	
20	QPSK	1	49	20.44	20.40	20.33	21.5
20	QPSK	1	99	20.42	20.51	20.23	
20	QPSK	50	0	19.20	19.16	19.11	
20	QPSK	50	24	19.31	19.21	19.02	
20	QPSK	50	50	19.20	19.24	19.22	
20	QPSK	100	0	19.13	19.20	19.06	
20	16QAM	1	0	19.12	19.04	18.92	
20	16QAM	1	49	19.09	19.00	18.99	20.5
20	16QAM	1	99	19.11	19.14	19.03	
20	16QAM	50	0	18.28	18.18	18.25	
20	16QAM	50	24	18.16	18.07	18.19	
20	16QAM	50	50	18.28	18.22	18.17	
20	16QAM	100	0	18.19	18.24	18.16	
20	16QAM	1	0	18.22	18.11	18.14	
20	16QAM	1	49	18.12	18.09	18.09	19.5
20	16QAM	1	99	18.05	17.98	18.07	
20	16QAM	50	0	17.16	17.24	17.07	
20	16QAM	50	24	17.14	17.18	17.12	
20	16QAM	50	50	17.04	17.10	17.15	18.5
20	16QAM	100	0	17.11	17.18	17.12	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	20.05	20.12	20.07	
15	QPSK	1	37	20.13	20.14	20.03	21.5
15	QPSK	1	74	20.06	20.03	19.95	
15	QPSK	36	0	19.13	19.20	19.10	
15	QPSK	36	20	19.30	19.17	19.03	
15	QPSK	36	39	19.23	19.18	19.19	20.5
15	QPSK	75	0	19.03	19.23	19.06	
15	16QAM	1	0	19.11	19.05	18.93	
15	16QAM	1	37	19.05	18.99	18.92	20.5
15	16QAM	1	74	19.06	19.16	19.04	
15	16QAM	36	0	18.23	18.16	18.27	
15	16QAM	36	20	18.21	18.12	18.19	19.5
15	16QAM	36	39	18.22	18.31	18.09	
15	16QAM	75	0	18.18	18.27	18.15	
15	16QAM	1	0	18.22	18.08	18.09	
15	16QAM	1	37	18.14	18.13	18.09	19.5
15	16QAM	1	74	17.96	18.00	18.07	
15	16QAM	36	0	17.11	17.18	17.16	
15	16QAM	36	20	17.11	17.11	17.01	18.5
15	16QAM	36	39	16.99	17.18	17.18	
15	16QAM	75	0	17.04	17.11	17.08	
Channel				20900	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	20.13	19.71	19.75	
10	QPSK	1	25	19.84	19.84	19.74	21.5
10	QPSK	1	49	19.72	19.82	19.76	
10	QPSK	25	0	18.53	18.68	18.50	
10	QPSK	25	12	18.58	18.52	18.56	
10	QPSK	25	25	18.52	18.53	18.56	20.5
10	QPSK	50	0	19.59	19.56	19.63	
10	16QAM	1	0	19.31	19.58	19.21	
10	16QAM	1	25	19.21	19.36	19.53	20.5
10	16QAM	1	49	19.56	19.64	19.30	
10	16QAM	25	0	17.83	17.57	17.58	
10	16QAM	25	12	17.57	17.59	17.58	19.5
10	16QAM	25	25	17.66	17.60	17.60	
10	16QAM	50	0	17.54	17.75	17.60	
10	16QAM	1	0	17.94	17.61	17.59	
10	16QAM	1	25	17.91	17.65	17.58	19.5
10	16QAM	1	49	17.96	17.75	17.80	





Band 41 Ant 1 For Sensor&Hotspot										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	19.18	19.24	19.28	19.20	19.16	20.5	0
20	QPSK	1	49	19.08	19.09	19.12	19.07	19.01		
20	QPSK	1	99	19.11	19.10	19.13	19.07	18.99		
20	QPSK	50	0	17.82	17.88	17.83	17.90	17.89		
20	QPSK	50	24	17.77	17.84	17.82	17.86	17.87	19.5	1
20	QPSK	50	50	17.78	17.85	17.89	17.86	17.86		
20	QPSK	100	0	17.67	17.77	17.87	17.88	17.82		
20	16QAM	1	0	18.13	18.13	18.18	18.08	18.05		
20	16QAM	1	49	18.09	18.09	18.10	18.07	18.01	19.5	1
20	16QAM	1	99	18.11	18.09	18.14	18.08	17.98		
20	16QAM	50	0	16.80	16.87	16.95	16.91	16.88		
20	16QAM	50	24	16.75	16.84	16.81	16.88	16.86	18.5	2
20	16QAM	50	50	16.78	16.85	16.88	16.88	16.87		
20	16QAM	100	0	16.65	16.76	16.88	16.87	16.83		
20	64QAM	1	0	16.81	16.89	16.93	16.91	16.88		
20	64QAM	1	49	16.82	16.86	16.92	16.89	16.88	18.5	2
20	64QAM	1	99	16.83	16.87	16.91	16.88	16.87		
20	64QAM	50	0	15.83	15.89	15.94	15.90	15.91		
20	64QAM	50	24	15.81	15.86	15.95	15.90	15.88	17.5	3
20	64QAM	50	50	15.81	15.86	15.93	15.90	15.89		
20	64QAM	100	0	15.80	15.89	15.94	15.88	15.88		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	18.78	18.81	18.92	18.98	18.83	20.50	0
15	QPSK	1	37	18.83	18.94	18.89	18.90	18.85		
15	QPSK	1	74	18.77	18.78	18.87	18.85	18.78		
15	QPSK	36	0	17.78	17.79	17.86	17.94	17.78		
15	QPSK	36	20	17.83	17.72	17.91	17.92	17.85	19.5	1
15	QPSK	36	39	17.79	17.63	17.89	17.92	17.80		
15	QPSK	75	0	17.85	17.83	17.87	17.92	17.88		
15	16QAM	1	0	17.86	17.89	18.06	18.12	17.99		
15	16QAM	1	37	17.86	17.99	18.02	18.04	17.95	19.5	1
15	16QAM	1	74	17.83	17.86	18.08	18.02	17.95		
15	16QAM	36	0	16.74	16.78	16.82	16.92	16.74		
15	16QAM	36	20	16.76	16.66	16.84	16.96	16.76	18.5	2
15	16QAM	36	39	16.82	16.68	16.89	16.94	16.83		
15	16QAM	75	0	16.81	16.84	16.84	16.99	16.80		
15	64QAM	1	0	16.82	16.88	16.92	16.94	16.82		
15	64QAM	1	37	16.88	16.77	16.78	16.82	16.85	18.5	2
15	64QAM	1	74	16.70	16.73	16.84	16.88	16.82		
15	64QAM	36	0	15.81	15.79	15.89	15.96	15.77		
15	64QAM	36	20	15.86	15.77	15.91	15.95	15.81	17.5	3
15	64QAM	36	39	15.85	15.76	15.85	15.91	15.85		
15	64QAM	75	0	15.84	15.82	15.92	16.00	15.85		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	18.82	18.92	19.05	19.04	18.80	20.50	0
10	QPSK	1	25	18.88	18.92	18.90	18.96	18.86		
10	QPSK	1	49	18.88	18.92	19.07	19.03	18.95		
10	QPSK	25	0	17.85	17.86	17.87	18.00	17.88		
10	QPSK	25	12	17.87	17.77	17.92	17.92	17.80	19.5	1
10	QPSK	25	25	17.87	17.69	17.92	17.92	17.87		
10	QPSK	50	0	17.88	17.77	17.91	18.00	17.91		
10	16QAM	1	0	17.90	18.32	18.15	18.20	18.02	19.5	1
10	16QAM	1	25	17.91	17.99	18.07	18.17	17.96		
10	16QAM	1	49	18.11	18.09	18.27	18.22	18.02		
10	16QAM	25	0	16.85	16.80	16.84	16.94	16.77		
10	16QAM	25	12	16.82	16.79	16.90	16.97	16.79	18.5	2
10	16QAM	25	25	16.95	16.82	17.01	16.90	16.84		
10	16QAM	50	0	16.95	16.88	16.94	17.01	16.89		
10	64QAM	1	0	16.88	17.02	16.98	17.05	16.74		
10	64QAM	1	25	16.74	16.79	16.92	16.91	16.84	18.5	2
10	64QAM	1	49	17.04	16.92	16.94	16.94	16.78		
10	64QAM	25	0	15.88	15.95	15.99	16.07	15.90		
10	64QAM	25	12	15.93	15.87	15.99	16.04	15.88	17.5	3
10	64QAM	25	25	15.96	15.87	16.03	16.05	15.91		
10	64QAM	50	0	15.84	15.88	15.95	16.02	15.90		
Channel				39675	40148	40620	41093	41555		
Frequency (MHz)				2498.5	2543.3	2593	2637.8	2682.5		
5	QPSK	1	0	18.88	18.98	19.09	19.16	18.94	20.50	0
5	QPSK	1	12	18.84	18.68	18.92	19.01	18.77		
5	QPSK	1	24	18.88	18.91	19.01	19.03	18.82		
5	QPSK	12	0	17.83	17.79	17.86	18.01	17.83		
5	QPSK	12	7	17.82	17.82	17.88	17.90	17.82	19.5	1
5	QPSK	12	13	17.76	17.81	17.89	17.97	17.81		
5	QPSK	25	0	17.86	17.86	17.88	17.97	17.83		
5	16QAM	1	0	18.32	17.93	18.29	18.32	18.06		
5	16QAM	1	12	17.98	17.82	17.98	18.00	17.90	19.5	1
5	16QAM	1	24	18.10	18.18	18.20	18.20	18.08		
5	16QAM	12	0	16.76	16.70	16.92	16.92	16.75		
5	16QAM	12	7	16.73	16.70	16.90	16.88	16.82	18.5	2
5	16QAM	12	13	16.79	16.70	16.82	16.90	16.74		
5	16QAM	25	0	16.86	16.81	16.93	17.06	16.86		
5	64QAM	1	0	16.87	17.03	16.98	17.12	16.69		
5	64QAM	1	12	16.68	16.67	16.86	16.78	16.89	18.5	2
5	64QAM	1	24	16.91	16.88	17.01	16.98	16.74		
5	64QAM	12	0	15.80	15.81	15.95	16.01	15.86		
5	64QAM	12	7	15.84	15.82	15.93	15.97	15.87	17.5	3
5	64QAM	12	13	15.83	15.88	15.92	15.98	15.83		
5	64QAM	25	0	15.84	15.86	15.99	16.02	15.88		

Band 41 Ant 1 For Handheld										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2606	2649.5	2693	2636.5	2680		
20	QPSK	1	0	22.82	22.86	22.92	22.81	22.79	23.5	0
20	QPSK	1	49	22.74	22.76	22.81	22.81	22.81		
20	QPSK	1	99	22.55	22.62	22.74	22.53	22.51		
20	QPSK	50	0	21.12	21.20	21.09	21.13	21.00		
20	QPSK	50	24	21.07	21.16	21.04	21.08	20.97	22.5	1
20	QPSK	50	50	21.09	21.15	21.06	21.12	20.96		
20	QPSK	100	0	21.03	21.10	21.12	21.04	21.11		
20	16QAM	1	0	21.12	21.19	21.23	21.19	21.08		
20	16QAM	1	49	21.11	21.19	21.18	21.14	21.04	22.5	1
20	16QAM	1	99	21.11	21.16	21.17	21.12	21.03		
20	16QAM	50	0	20.12	20.19	20.09	20.12	20.01		
20	16QAM	50	24	20.05	20.15	20.03	20.09	19.97	21.5	2
20	16QAM	50	50	20.09	20.16	20.04	20.12	19.95		
20	16QAM	100	0	20.05	20.09	20.11	20.05	20.13		
20	64QAM	1	0	20.13	20.19	20.10	20.14	19.98		
20	64QAM	1	49	20.13	20.20	20.08	20.14	20.01	21.5	2
20	64QAM	1	99	20.11	20.21	20.09	20.13	19.98		
20	64QAM	50	0	20.13	20.20	20.19	20.20	20.10		
20	64QAM	50	24	20.10	20.18	20.20	20.17	20.11	20.5	3
20	64QAM	50	50	20.10	20.21	20.23	20.19	20.08		
20	64QAM									



Band 42 Ant 5 For Sensor&Hotspot											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel				42190	42590	42990					
Frequency (MHz)				3490	3500	3510					
20	QPSK	1	0	15.75	15.91	15.87	17	0			
20	QPSK	1	49	15.49	15.55	15.43					
20	QPSK	1	99	15.52	15.42	15.49					
20	QPSK	50	0	14.83	14.88	14.80					
20	QPSK	50	24	14.56	14.51	14.53	16	1			
20	QPSK	50	50	14.55	14.51	14.53					
20	QPSK	100	0	14.35	14.38	14.31					
20	16QAM	1	0	14.82	14.87	14.83	16	1			
20	16QAM	1	49	14.80	14.54	14.57					
20	16QAM	1	99	14.83	14.41	14.56					
20	16QAM	50	0	13.84	13.84	13.83					
20	16QAM	50	24	13.61	13.55	13.51	15	2			
20	16QAM	50	50	13.57	13.46	13.59					
20	16QAM	100	0	13.31	13.44	13.32					
20	64QAM	1	0	13.85	13.82	13.70	15	2			
20	64QAM	1	49	13.68	13.51	13.58					
20	64QAM	1	99	13.44	13.45	13.40					
20	64QAM	50	0	12.92	12.71	12.89	14	3			
20	64QAM	50	24	12.57	12.88	12.51					
20	64QAM	50	50	12.49	12.52	12.51					
20	64QAM	100	0	12.19	12.49	12.20					
Channel				42195	42590	43015					
Frequency (MHz)				3457.5	3500	3542.5					
15	QPSK	1	0	15.39	15.32	15.38	17	0			
15	QPSK	1	37	15.33	15.16	15.21					
15	QPSK	1	74	15.39	15.15	15.17					
15	QPSK	38	0	14.96	14.86	14.84	16	1			
15	QPSK	38	20	14.47	14.63	14.55					
15	QPSK	38	39	14.51	14.54	14.46					
15	QPSK	75	0	14.41	14.50	14.36					
15	16QAM	1	0	14.79	14.92	14.70	16	1			
15	16QAM	1	37	14.53	14.54	14.53					
15	16QAM	1	74	14.52	14.44	14.52					
15	16QAM	38	0	13.98	13.99	13.93	15	2			
15	16QAM	38	20	13.64	13.61	13.58					
15	16QAM	38	39	13.49	13.57	13.52					
15	16QAM	75	0	13.18	13.40	13.39					
15	64QAM	1	0	13.87	13.89	13.79	15	2			
15	64QAM	1	37	13.60	13.51	13.66					
15	64QAM	1	74	13.48	13.52	13.55					
15	64QAM	38	0	12.79	12.56	12.77	14	3			
15	64QAM	38	20	12.67	12.63	12.57					
15	64QAM	38	39	12.55	12.65	12.35					
15	64QAM	75	0	12.23	12.57	12.28					
Channel				42140	42590	43040					
Frequency (MHz)				3455	3500	3545					
10	QPSK	1	0	15.35	15.30	15.30	17	0			
10	QPSK	1	25	15.38	15.09	15.15					
10	QPSK	1	49	15.18	15.25	15.14					
10	QPSK	25	0	15.29	15.38	15.05	16	1			
10	QPSK	25	12	14.98	14.89	14.95					
10	QPSK	25	25	14.75	14.99	14.75					
10	QPSK	50	0	14.55	14.80	14.88	16	1			
10	16QAM	1	0	15.14	15.36	15.09					
10	16QAM	1	25	14.94	14.81	14.94	15	2			
10	16QAM	1	49	14.71	14.95	14.41					
10	16QAM	25	0	14.38	14.08	13.81					
10	16QAM	25	12	13.68	14.15	13.87	15	2			
10	16QAM	25	25	13.78	13.64	13.65					
10	16QAM	50	0	13.44	13.46	13.89					
10	64QAM	1	0	14.27	14.20	14.21	15	2			
10	64QAM	1	25	13.88	13.86	14.02					
10	64QAM	1	49	13.84	13.55	13.75					
10	64QAM	25	0	13.31	12.82	12.81	14	3			
10	64QAM	25	12	12.80	12.93	13.10					
10	64QAM	25	25	12.88	12.77	12.53					
10	64QAM	50	0	12.65	12.91	12.65					
Channel				42115	42590	43055					
Frequency (MHz)				3452.5	3500	3547.5					
5	QPSK	1	0	15.23	15.35	15.29	17	0			
5	QPSK	1	12	15.32	15.12	15.28					
5	QPSK	1	24	15.09	15.38	15.04					
5	QPSK	12	0	14.93	15.01	14.66	16	1			
5	QPSK	12	7	14.65	14.51	14.49					
5	QPSK	12	13	14.38	14.59	14.25					
5	QPSK	25	0	14.48	14.48	14.36	16	1			
5	16QAM	1	0	14.68	15.10	14.65					
5	16QAM	1	12	14.61	14.45	14.39					
5	16QAM	1	24	14.45	14.52	14.53	15	2			
5	16QAM	12	0	14.15	14.03	13.53					
5	16QAM	12	7	13.47	13.61	13.44					
5	16QAM	12	13	13.65	13.36	13.44					
5	16QAM	25	0	13.33	13.24	13.46	14	3			
5	64QAM	1	0	14.02	13.90	14.06					
5	64QAM	1	12	13.50	13.54	13.58					
5	64QAM	1	24	13.73	13.50	13.58					
5	64QAM	12	0	12.99	12.54	12.79					
5	64QAM	12	7	12.44	12.54	12.55					
5	64QAM	12	13	12.40	12.62	12.15					
5	64QAM	25	0	12.17	12.89	12.24					

Band 42 Ant 5 For Handheld											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel				42190	42590	42990					
Frequency (MHz)				3490	3500	3510					
20	QPSK	1	0	20.87	20.94	20.71	22	0			
20	QPSK	1	49	20.84	20.92	20.69					
20	QPSK	1	99	20.82	20.89	20.68					
20	QPSK	50	0	19.81	19.97	19.83	21	1			
20	QPSK	50	24	19.78	19.94	19.82					
20	QPSK	50	50	19.80	19.94	19.81					
20	QPSK	100	0	19.94	19.95	19.86					
20	16QAM	1	0	19.87	19.92	19.89	21	1			
20	16QAM	1	49	19.83	19.91	19.87					
20	16QAM	1	99	19.84	19.87	19.87					
20	16QAM	50	0	18.81	18.95	18.85	20	2			
20	16QAM	50	24	18.80	18.93	18.81					
20	16QAM	50	50	18.80	18.95	18.82					
20	16QAM	100	0	18.85	18.96	18.85					
20	64QAM	1	0	18.81	18.99	18.82	20	2			
20	64QAM	1	49	18.79	18.98	18.81					
20	64QAM	1	99	18.81	18.86	18.82					
20	64QAM	50	0	17.82	17.96	17.85	19	3			
20	64QAM	50	24	17.79	17.98	17.82					
20	64QAM	50	50	17.82	17.98	17.83					
20	64QAM	100	0	17.82	17.96	17.85					
Channel				42195	42590	43015					
Frequency (MHz)				3457.5	3500	3542.5					
15	QPSK	1	0	20.98	20.98	20.86	22	0			
15	QPSK	1	37	21.02	20.55	20.53					
15	QPSK	1	74	20.99	20.52	20.77					
15	QPSK	38	0	20.43	20.02	20.34	21	1			
15	QPSK	38	20	20.41	20.09	20.13					
15	QPSK	38	39	20.42	20.01	20.16					
15	QPSK	75	0	20.48	20.04	20.22					
15	16QAM	1	0	20.55	20.26	20.29	21	1			
15	16QAM	1	37	20.58	20.55	20.42					
15	16QAM	1	74	20.49	20.46	20.46					
15	16QAM	38	0	19.45	19.02	19.08	20	2			
15	16QAM	38	20	19.46	19.98	19.10					
15	16QAM	38	39	19.39	19.99	19.13					



Band 4 Ant 0 For Sensor ENDC										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. (7.5%)	Power Ch. (7.5%)	Power Prg. (dB)	Power Prg. (dB)	Power Prg. (dB)	Turn-up (dB)	APRS (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	15.21	15.22	15.21				
20	QPSK	1	0	15.49	15.20	15.20				
20	QPSK	1	0	15.76	15.20	15.11			17	0
20	QPSK	50	0	14.22	14.25	13.97				
20	QPSK	50	24	14.08	14.28	14.08			18	1
20	QPSK	50	50	13.95	14.10	14.04				
20	QPSK	100	0	13.89	13.99	13.99				
20	HQAM	1	0	13.99	14.25	14.23			18	1
20	HQAM	1	0	14.16	14.28	14.25				
20	HQAM	1	0	14.32	14.28	14.25				
20	HQAM	50	0	13.28	13.32	13.34				
20	HQAM	50	24	12.97	13.38	13.06			15	2
20	HQAM	50	50	13.22	13.38	13.04				
20	HQAM	100	0	12.99	13.15	13.32				
20	HQAM	1	0	13.19	13.28	13.23				
20	HQAM	1	0	13.11	13.28	13.15			15	2
20	HQAM	1	0	13.10	13.27	13.04				
20	HQAM	50	0	12.03	12.12	12.07				
20	HQAM	50	24	12.02	12.15	12.05			14	3
20	HQAM	50	50	11.97	12.30	12.22				
20	HQAM	100	0	12.28	12.31	12.04				
Channel										
Frequency (MHz)										
15	QPSK	1	0	15.19	15.12	15.23				
15	QPSK	1	0	14.96	15.18	15.05			17	0
15	QPSK	1	0	14.98	15.12	15.12				
15	QPSK	36	0	14.09	14.18	14.01				
15	QPSK	36	20	14.12	14.17	14.09			18	1
15	QPSK	36	50	13.99	14.00	13.97				
15	QPSK	75	0	13.91	13.98	13.98				
15	HQAM	1	0	13.10	14.30	14.28				
15	HQAM	1	0	14.18	14.31	14.25			18	1
15	HQAM	1	0	14.29	14.25	14.08				
15	HQAM	36	0	13.25	13.28	13.34				
15	HQAM	36	20	12.98	13.30	13.08			15	2
15	HQAM	36	50	13.33	13.28	13.10				
15	HQAM	75	0	13.10	13.15	13.23				
15	HQAM	1	0	13.19	13.28	13.18				
15	HQAM	1	0	13.13	13.23	13.25			15	2
15	HQAM	1	0	13.04	13.18	13.06				
15	HQAM	36	0	12.04	12.22	12.13				
15	HQAM	36	20	11.96	12.07	12.09			14	3
15	HQAM	36	50	11.97	12.38	12.16				
15	HQAM	75	0	12.22	12.15	12.10				
Channel										
Frequency (MHz)										
10	QPSK	1	0	15.15	15.14	15.11				
10	QPSK	1	0	15.01	15.17	15.04			17	0
10	QPSK	1	0	15.08	15.04	15.14				
10	QPSK	25	0	14.23	14.18	13.98				
10	QPSK	25	12	14.12	14.21	14.18			18	1
10	QPSK	25	12	13.94	13.98	13.93				
10	QPSK	50	0	13.85	14.01	14.02				
10	HQAM	1	0	13.08	14.20	14.17				
10	HQAM	1	0	14.22	14.31	14.15			18	1
10	HQAM	1	0	14.28	14.18	14.06				
10	HQAM	25	0	13.24	13.34	13.39				
10	HQAM	25	12	12.96	13.28	13.05			15	2
10	HQAM	25	12	13.19	13.28	13.18				
10	HQAM	50	0	13.09	13.18	13.35				
10	HQAM	1	0	13.32	13.37	13.22			15	2
10	HQAM	1	0	13.04	13.31	13.01				
10	HQAM	25	0	12.10	12.11	12.26				
10	HQAM	25	12	12.00	12.10	11.85			14	3
10	HQAM	25	12	11.91	14.40	12.13				
10	HQAM	50	0	12.18	12.23	12.09				
Channel										
Frequency (MHz)										
5	QPSK	1	0	15.17	15.12	15.13				
5	QPSK	1	0	15.09	15.12	14.97			17	0
5	QPSK	1	0	15.03	15.16	15.06				
5	QPSK	1	0	14.92	14.91	14.83				
5	QPSK	12	7	14.18	14.21	14.15			18	1
5	QPSK	12	13	13.99	14.02	13.96				
5	QPSK	25	0	13.90	14.02	13.96				
5	HQAM	1	0	14.00	14.21	14.21				
5	HQAM	1	0	14.13	14.20	14.24			18	1
5	HQAM	1	0	14.26	14.20	14.12				
5	HQAM	12	7	13.92	13.98	13.98				
5	HQAM	12	7	13.95	13.98	13.16			15	2
5	HQAM	12	13	13.23	13.33	13.11				
5	HQAM	25	0	13.01	13.22	13.33				
5	HQAM	1	0	13.32	13.35	13.10			15	2
5	HQAM	1	0	13.09	13.34	13.21				
5	HQAM	1	0	13.07	13.24	13.12				
5	HQAM	12	7	12.04	12.18	11.89			14	3
5	HQAM	12	13	12.00	12.40	12.24				
5	HQAM	25	0	12.14	12.21	12.15				
Channel										
Frequency (MHz)										
3	QPSK	1	0	15.22	15.18	15.10				
3	QPSK	1	0	15.02	15.12	15.03			17	0
3	QPSK	1	0	14.96	15.01	15.05				
3	QPSK	8	0	14.22	14.18	14.06				
3	QPSK	8	4	14.08	14.19	14.15			18	1
3	QPSK	8	7	14.03	13.98	14.07				
3	QPSK	15	0	13.93	14.05	13.98				
3	HQAM	1	0	13.97	14.21	14.22				
3	HQAM	1	0	14.24	14.28	14.23			18	1
3	HQAM	1	0	14.31	14.28	14.28				
3	HQAM	14	14	14.21	14.28	14.13				
3	HQAM	8	0	13.17	13.34	13.33				
3	HQAM	8	4	13.07	13.20	13.12			15	2
3	HQAM	8	7	13.23	13.32	13.12				
3	HQAM	15	0	13.08	13.32	13.07				
3	HQAM	1	0	13.26	13.24	13.25				
3	HQAM	1	0	13.08	13.27	13.21			15	2
3	HQAM	14	14	13.10	13.25	13.11				
3	HQAM	8	0	12.08	12.18	12.22			14	3
3	HQAM	8	4	12.01	12.09	12.08				
3	HQAM	8	7	11.99	12.38	12.18				
3	HQAM	15	0	12.24	12.31	12.11				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	15.00	15.21	15.15				
1.4	QPSK	1	0	15.03	15.14	15.01			17	0
1.4	QPSK	3	0	15.12	15.20	15.18				
1.4	QPSK	3	1	15.08	15.10	14.99				
1.4	QPSK	3	3	15.03	15.12	15.15				
1.4	QPSK	8	0	14.24	14.28	14.23			18	1
1.4	HQAM	1	0	14.01	14.30	14.28				
1.4	HQAM	1	0	14.24	14.25	14.11				
1.4	HQAM	1	0	14.21	14.30	14.19			18	1
1.4	HQAM	3	0	13.99	14.05	13.97				
1.4	HQAM	3	1	13.99	14.30	14.27				
1.4	HQAM	3	3	14.25	14.23	14.20			18	2
1.4	HQAM	8	0	13.08	13.17	13.25				
1.4	HQAM	8	0	13.32	13.38	13.10				
1.4	HQAM	1	0	13.03	13.28	13.12			15	2
1.4	HQAM	1	0	13.08	13.32	13.07				
1.4	HQAM	3	0	13.29	13.37	13.14				
1.4	HQAM	3	1	13.09	13.20	13.35				
1.4	HQAM	3	3	13.25	13.32	13.11				
1.4	HQAM	8	0	12.14	12.22	12.18			14	3

Band 4 Ant 0 For Hotspot ENDC										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. (7.5%)	Power Ch. (7.5%)	Power Prg. (dB)	Power Prg. (dB)	Power Prg. (dB)	Turn-up (dB)	APRS (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	14.20	14.22	14.17				
20	QPSK	1	0	14.48	14.22	14.17			15.5	0
20	QPSK	1	0	14.76	14.20	14.09				
20	QPSK	50	0	13.22	13.34	13.02				
20	QPSK	50	24	13.18	13.25	13.14			14.5	1
20	QPSK	50	50	12.97	13.17	13.08				
20	QPSK	100	0	12.95	13.04	12.98				
20	HQAM	1	0	13.08	13.41	13.24			14.5	1
20	HQAM	1	0	13.16	13.36	13.11				
20	HQAM	1	0	13.16	13.37	13.04				
20	HQAM	50	0	12.38	12.41	12.42				
20	HQAM	50	24	12.05	12.34	12.03			13.5	2
20	HQAM	50	50	12.23	12.41	12.12				
20	HQAM	100	0	11.97	12.20	12.31				
20	HQAM	1	0	12.15	12.26	12.32				
20	HQAM	1	0	12.08	12.31	12.22			13.5	2
20	HQAM	1	0	12.06	12.30	12.22				
20	HQAM	50	0	11.09	11.16	11.24				
20	HQAM	50	24	10.96	11.18	11.03			12.5	3
20	HQAM	50	50	10.84	11.38	11.27				
20	HQAM	100	0	11.30	11.32	11.09				
Channel										
Frequency (MHz)										
15	QPSK	1	0	14.23	14.29	14.19				
15	QPSK	1	0	14.00	14.26	14.06			15.5	0
15										



Band 5 Ant 0 For Sensor&Hotspot ENDC										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq.)	Power High Ch. (Freq.)	Power High Ch. (Freq.)	Power High Ch. (Freq.)	Time-up (sec)	MPIR (dB)	
Channel				20450	20525	20550	20625			
10	QPSK	1	0	19.53	19.54	19.47	19.54			
10	QPSK	1	25	19.51	19.52	19.45	19.52			
10	QPSK	1	49	19.51	19.52	19.45	19.52			
10	QPSK	25	0	18.44	18.47	18.42	18.45			
10	QPSK	25	12	18.36	18.44	18.37	18.42			
10	QPSK	25	24	18.40	18.43	18.40	18.43			
10	QPSK	50	0	18.34	18.38	18.25	18.35			
10	16QAM	1	0	18.52	18.52	18.49	18.52			
10	16QAM	1	25	18.51	18.52	18.49	18.52			
10	16QAM	1	49	18.51	18.51	18.48	18.51			
10	16QAM	25	0	17.45	17.46	17.43	17.45			
10	16QAM	25	12	17.38	17.45	17.38	17.45			
10	16QAM	25	24	17.39	17.41	17.38	17.39			
10	16QAM	50	0	17.32	17.39	17.25	17.32			
10	16QAM	1	0	17.27	17.34	17.21	17.27			
10	16QAM	1	25	17.21	17.28	17.28	17.28			
10	16QAM	1	49	17.30	17.30	17.28	17.30			
10	16QAM	25	0	16.42	16.48	16.44	16.44			
10	16QAM	25	12	16.45	16.48	16.40	16.45			
10	16QAM	25	24	16.45	16.45	16.42	16.42			
10	16QAM	50	0	16.46	16.45	16.41	16.41			
Channel				20425	20525	20525	20625			
5	QPSK	1	0	19.44	19.45	19.39	19.44			
5	QPSK	1	12	19.44	19.44	19.38	19.44			
5	QPSK	1	24	19.44	19.43	19.38	19.43			
5	QPSK	12	0	18.38	18.37	18.34	18.34			
5	QPSK	12	7	18.33	18.33	18.30	18.30			
5	QPSK	25	0	18.25	18.28	18.28	18.28			
5	16QAM	1	0	18.45	18.43	18.42	18.43			
5	16QAM	1	12	18.41	18.43	18.35	18.41			
5	16QAM	1	24	18.42	18.45	18.40	18.42			
5	16QAM	12	0	17.35	17.38	17.35	17.35			
5	16QAM	12	7	17.30	17.33	17.26	17.30			
5	16QAM	25	0	17.22	17.21	17.14	17.21			
5	16QAM	1	0	17.26	17.26	17.21	17.26			
5	16QAM	1	12	17.22	17.22	17.11	17.22			
5	16QAM	1	24	17.21	17.22	17.12	17.21			
5	16QAM	12	0	16.34	16.36	16.30	16.30			
5	16QAM	12	7	16.36	16.42	16.33	16.36			
5	16QAM	25	0	16.38	16.39	16.34	16.34			
Channel				20415	20525	20525	20625			
3	QPSK	1	0	19.43	19.45	19.38	19.43			
3	QPSK	1	8	19.41	19.46	19.35	19.41			
3	QPSK	1	14	19.41	19.43	19.36	19.41			
3	QPSK	8	0	18.37	18.38	18.36	18.36			
3	QPSK	8	4	18.36	18.38	18.28	18.36			
3	QPSK	8	7	18.31	18.34	18.21	18.31			
3	QPSK	15	0	18.25	18.28	18.14	18.25			
3	16QAM	1	0	18.45	18.44	18.39	18.44			
3	16QAM	1	8	18.44	18.45	18.38	18.44			
3	16QAM	1	14	18.44	18.43	18.37	18.43			
3	16QAM	8	0	17.37	17.39	17.30	17.37			
3	16QAM	8	4	17.30	17.36	17.27	17.30			
3	16QAM	1	0	17.26	17.26	17.21	17.26			
3	16QAM	15	0	17.24	17.27	17.14	17.24			
3	16QAM	1	0	17.19	17.27	17.11	17.19			
3	16QAM	1	8	17.24	17.27	17.11	17.24			
3	16QAM	1	14	17.23	17.26	17.11	17.23			
3	16QAM	8	0	16.32	16.40	16.30	16.32			
3	16QAM	8	4	16.36	16.42	16.33	16.36			
3	16QAM	8	7	16.38	16.36	16.34	16.38			
3	16QAM	15	0	16.37	16.38	16.30	16.37			
Channel				20407	20525	20543	20643			
1.4	QPSK	1	0	19.46	19.48	19.38	19.46			
1.4	QPSK	1	3	19.44	19.47	19.36	19.44			
1.4	QPSK	1	5	19.42	19.45	19.35	19.42			
1.4	QPSK	3	0	18.33	18.34	18.30	18.33			
1.4	QPSK	3	1	18.28	18.30	18.24	18.28			
1.4	QPSK	3	3	18.28	18.33	18.27	18.27			
1.4	QPSK	6	0	18.28	18.28	18.14	18.28			
1.4	16QAM	1	0	18.44	18.44	18.42	18.44			
1.4	16QAM	1	3	18.45	18.46	18.36	18.45			
1.4	16QAM	1	5	18.44	18.41	18.37	18.41			
1.4	16QAM	3	0	18.38	18.38	18.31	18.38			
1.4	16QAM	3	1	18.28	18.32	18.25	18.28			
1.4	16QAM	3	3	18.28	18.28	18.28	18.28			
1.4	16QAM	6	0	17.24	17.30	17.15	17.24			
1.4	16QAM	1	0	17.19	17.26	17.13	17.19			
1.4	16QAM	1	3	17.25	17.27	17.13	17.25			
1.4	16QAM	1	5	17.23	17.26	17.14	17.23			
1.4	16QAM	3	0	17.27	17.32	17.28	17.27			
1.4	16QAM	3	1	17.32	17.34	17.25	17.32			
1.4	16QAM	3	3	17.29	17.31	17.28	17.29			
1.4	16QAM	6	0	16.37	16.38	16.30	16.37			

Band 5 For Handheld										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq.)	Power High Ch. (Freq.)	Power High Ch. (Freq.)	Power High Ch. (Freq.)	Time-up (sec)	MPIR (dB)	
Channel				20450	20525	20525	20600			
10	QPSK	1	0	20.49	20.53	20.50	20.50			
10	QPSK	1	25	20.51	20.52	20.47	20.51			
10	QPSK	1	49	20.51	20.50	20.45	20.51			
10	QPSK	25	0	19.45	19.48	19.47	19.47			
10	QPSK	25	12	19.36	19.46	19.44	19.44			
10	QPSK	25	24	19.47	19.47	19.39	19.39			
10	QPSK	50	0	19.35	19.47	19.35	19.35			
10	16QAM	1	0	19.47	19.56	19.54	19.54			
10	16QAM	1	25	19.46	19.51	19.54	19.54			
10	16QAM	1	49	19.46	19.55	19.50	19.50			
10	16QAM	25	0	18.50	18.48	18.45	18.45			
10	16QAM	25	12	18.36	18.52	18.42	18.42			
10	16QAM	25	24	18.44	18.43	18.35	18.35			
10	16QAM	50	0	18.35	18.44	18.31	18.31			
10	16QAM	1	0	18.22	18.34	18.20	18.22			
10	16QAM	1	25	18.26	18.31	18.23	18.26			
10	16QAM	1	49	18.32	18.33	18.23	18.32			
10	16QAM	25	0	17.45	17.47	17.38	17.45			
10	16QAM	25	12	17.45	17.45	17.41	17.41			
10	16QAM	25	24	17.49	17.49	17.40	17.40			
10	16QAM	50	0	17.47	17.43	17.37	17.37			
Channel				20425	20525	20525	20600			
5	QPSK	1	0	20.54	20.45	20.36	20.54			
5	QPSK	1	12	20.47	20.51	20.42	20.47			
5	QPSK	1	24	20.39	20.47	20.42	20.42			
5	QPSK	12	0	19.38	19.41	19.41	19.41			
5	QPSK	12	7	19.36	19.37	19.27	19.27			
5	QPSK	12	13	19.40	19.35	19.35	19.35			
5	QPSK	25	0	18.28	18.40	18.27	18.28			
5	16QAM	1	0	19.45	19.47	19.38	19.45			
5	16QAM	1	12	19.41	19.44	19.34	19.41			
5	16QAM	1	24	19.47	19.52	19.41	19.47			
5	16QAM	12	0	18.45	18.35	18.44	18.45			
5	16QAM	12	7	18.25	18.31	18.20	18.25			
5	16QAM	12	13	18.34	18.36	18.36	18.36			
5	16QAM	25	0	18.29	18.40	18.27	18.29			
5	16QAM	1	0	18.28	18.40					



Band 66 Ant 0 For Hotspot ENDC										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq.)	Power Mid Ch. (Freq.)	Power High Ch. (Freq.)	Time-up (min)	APRS (dB)	APRS (dB)	APRS (dB)
Channel: 132012 132022 132072										
20	QPSK	1	0	14.02	14.14	14.11				
20	QPSK	1	49	14.02	14.14	14.11	15.5	0		
20	QPSK	1	50	14.01	14.08	14.00				
20	QPSK	50	0	14.11	14.31	14.21				
20	QPSK	50	24	14.25	14.18	14.19	15.5	0		
20	QPSK	50	50	14.21	14.21	14.21				
20	QPSK	100	0	14.28	14.29	14.22				
20	HQAM	1	0	14.04	14.19	14.15				
20	HQAM	1	49	14.06	14.23	14.20	15.5	0		
20	HQAM	1	50	14.06	14.10	14.00				
20	HQAM	50	0	14.11	14.28	14.18				
20	HQAM	50	24	14.29	14.20	14.24	15.5	0		
20	HQAM	50	50	14.27	14.19	14.23				
20	HQAM	100	0	14.27	14.21	14.25				
20	HQAM	1	0	13.97	14.11	14.07				
20	HQAM	1	49	14.02	14.12	14.13	15.5	0		
20	HQAM	1	50	13.98	14.07	13.98				
20	HQAM	50	0	14.10	14.27	14.20				
20	HQAM	50	24	14.30	14.13	14.20	15.5	0		
20	HQAM	50	50	14.22	14.24	14.26				
20	HQAM	100	0	14.23	14.29	14.19				
Channel: 132047 132022 132087										
15	QPSK	1	0	13.94	14.10	13.93				
15	QPSK	1	37	13.89	14.01	13.78	15.5	0		
15	QPSK	1	74	13.90	14.04	13.96				
15	QPSK	36	0	14.20	14.14	14.20				
15	QPSK	36	20	14.21	14.21	14.20	15.5	0		
15	QPSK	36	39	14.04	14.16	14.00				
15	QPSK	75	0	14.08	14.12	14.10				
15	HQAM	1	0	13.91	14.17	13.93				
15	HQAM	1	37	14.09	13.85	13.84	15.5	0		
15	HQAM	1	74	14.18	14.05	14.19				
15	HQAM	36	0	13.99	13.97	14.05				
15	HQAM	36	20	14.24	14.00	13.96	15.5	0		
15	HQAM	36	39	14.17	14.24	14.09				
15	HQAM	75	0	14.11	14.16	14.22				
15	HQAM	1	0	14.08	14.28	14.06				
15	HQAM	1	37	14.24	14.02	14.07	15.5	0		
15	HQAM	1	74	13.99	13.97	14.05				
15	HQAM	36	0	14.12	14.09	14.20				
15	HQAM	36	20	14.10	14.11	13.95	15.5	0		
15	HQAM	36	39	14.20	13.84	13.90				
15	HQAM	75	0	13.96	14.25	14.11				
Channel: 132022 132022 132022										
10	QPSK	1	0	13.85	14.18	14.02				
10	QPSK	1	25	13.86	13.99	13.92	15.5	0		
10	QPSK	1	49	13.89	14.11	13.94				
10	QPSK	25	0	14.19	14.06	14.22				
10	QPSK	25	12	14.19	14.21	14.15	15.5	0		
10	QPSK	25	50	13.91	14.14	13.94				
10	QPSK	50	0	13.96	14.24	14.13				
10	HQAM	1	0	14.16	14.24	13.79				
10	HQAM	1	25	14.04	13.98	13.90	15.5	0		
10	HQAM	1	49	14.20	13.99	14.02				
10	HQAM	25	0	14.03	14.14	14.12				
10	HQAM	25	12	14.18	14.19	14.05	15.5	0		
10	HQAM	25	50	14.13	14.28	14.06				
10	HQAM	50	0	14.21	14.21	14.25				
10	HQAM	1	0	13.83	14.23	14.02				
10	HQAM	1	25	14.14	13.87	13.90	15.5	0		
10	HQAM	1	49	13.88	13.88	14.17				
10	HQAM	25	0	14.14	14.09	14.18				
10	HQAM	25	12	14.12	14.05	13.99	15.5	0		
10	HQAM	25	50	14.07	13.87	13.91				
10	HQAM	50	0	14.03	14.08	14.24				
Channel: 131997 132022 132047										
5	QPSK	1	0	14.08	14.27	13.93				
5	QPSK	1	12	13.90	14.15	13.86	15.5	0		
5	QPSK	1	24	13.94	14.16	13.99				
5	QPSK	12	0	14.13	14.28	14.09				
5	QPSK	12	7	14.17	14.00	14.15	15.5	0		
5	QPSK	12	13	14.13	14.20	13.80				
5	QPSK	25	0	14.05	13.91	13.96				
5	HQAM	1	0	13.91	14.12	13.88				
5	HQAM	1	12	13.88	14.10	13.88	15.5	0		
5	HQAM	1	24	14.01	13.87	14.01				
5	HQAM	12	0	14.09	14.24	14.04				
5	HQAM	12	7	14.17	14.20	13.92	15.5	0		
5	HQAM	12	13	14.08	14.16	13.91				
5	HQAM	25	0	13.94	14.16	14.21				
5	HQAM	1	0	13.92	14.05	13.95				
5	HQAM	1	12	14.15	13.85	14.07	15.5	0		
5	HQAM	1	24	13.93	14.26	14.23				
5	HQAM	12	0	14.06	14.27	14.20				
5	HQAM	12	7	14.07	14.13	13.85	15.5	0		
5	HQAM	12	13	14.10	13.90	13.89				
5	HQAM	25	0	14.03	14.14	14.21				
Channel: 131997 132022 132057										
3	QPSK	1	0	13.84	14.07	13.68				
3	QPSK	1	8	13.93	14.21	13.68	15.5	0		
3	QPSK	1	14	14.01	14.01	14.01				
3	QPSK	6	0	14.13	14.11	14.02				
3	QPSK	6	4	14.25	13.80	14.15	15.5	0		
3	QPSK	6	7	14.03	14.22	13.94				
3	QPSK	15	0	14.05	13.78	13.89				
3	HQAM	1	0	13.86	13.95	13.89				
3	HQAM	1	8	13.97	13.71	13.88	15.5	0		
3	HQAM	1	14	14.10	13.88	13.85				
3	HQAM	6	0	13.97	14.01	14.19				
3	HQAM	6	4	14.04	14.28	14.08	15.5	0		
3	HQAM	6	7	14.17	14.06	13.98				
3	HQAM	15	0	13.84	14.19	14.10				
3	HQAM	1	0	13.83	14.15	14.13				
3	HQAM	1	8	14.02	13.89	14.21	15.5	0		
3	HQAM	1	14	14.02	14.09	14.21				
3	HQAM	6	0	14.18	14.23	14.21				
3	HQAM	6	4	14.11	14.07	13.87	15.5	0		
3	HQAM	6	7	14.11	13.73	13.82				
3	HQAM	15	0	13.98	14.04	14.28				
Channel: 131979 132022 132065										
1.4	QPSK	1	0	13.93	13.97	14.17				
1.4	QPSK	1	3	13.98	14.17	14.05	15.5	0		
1.4	QPSK	1	5	13.81	13.86	14.15				
1.4	QPSK	3	0	14.21	14.13	14.06				
1.4	QPSK	3	1	14.17	13.82	14.08	15.5	0		
1.4	QPSK	3	3	13.99	14.08	13.89				
1.4	QPSK	6	0	13.97	13.71	13.89	15.5	0		
1.4	QPSK	6	1	13.74	13.80	13.94				
1.4	HQAM	1	0	13.79	13.88	13.79				
1.4	HQAM	1	5	14.08	13.83	13.75	15.5	0		
1.4	HQAM	3	0	14.08	14.11	14.10				
1.4	HQAM	3	1	14.12	14.24	14.14				
1.4	HQAM	3	3	14.10	14.02	14.18	15.5	0		
1.4	HQAM	6	0	13.91	14.28	14.22				
1.4	HQAM	1	0	13.98	14.03	14.16				
1.4	HQAM	1	3	14.14	13.89	14.10				
1.4	HQAM	1	5	14.04	14.15	14.05	15.5	0		
1.4	HQAM	3	0	14.29	14.21	14.13				
1.4	HQAM	3	1	14.18	14.21	13.93				
1.4	HQAM	3	3	14.04	13.79	13.89	15.5	0		
1.4	HQAM	6	0	13.93	13.96	14.08				

Band 66 Ant 0 For Handheld										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq.)	Power Mid Ch. (Freq.)	Power High Ch. (Freq.)	Time-up (min)	APRS (dB)	APRS (dB)	



Band 66 Ant 4 For Handheld										
BM (MHz)	Multicast	RB Set	RB Offset	Power Low Ch. (W)	Power High Ch. (W)	Power High Pch. (W)	Power High Pch. (W)	Time-up (min)	Aggr (dB)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.24	18.48	18.24				
20	QPSK	1	49	18.75	18.75	18.75		20.5	0	
20	QPSK	50	0	18.24	18.15	18.15				
20	QPSK	50	0	17.82	17.88	17.79				
20	QPSK	50	24	17.74	17.83	17.88		18.5	1	
20	QPSK	50	50	17.77	17.80	17.71				
20	QPSK	100	0	17.73	17.79	17.77				
Channel										
Frequency (MHz)										
20	HQAM	1	0	17.79	17.87	17.71				
20	HQAM	1	49	17.75	17.88	17.88		18.5	1	
20	HQAM	50	0	17.84	17.84	17.87				
20	HQAM	50	0	18.81	18.88	18.82				
20	HQAM	50	24	18.68	18.84	18.87		18.5	2	
20	HQAM	50	50	18.79	18.74	18.82				
20	HQAM	100	0	18.77	18.87	18.72				
20	HQAM	1	0	18.71	18.79	18.85		18.5	2	
20	HQAM	1	49	18.75	18.75	18.88				
20	HQAM	50	0	18.81	18.82	18.88				
20	HQAM	50	0	18.78	18.78	18.78				
20	HQAM	50	24	18.71	18.79	18.77		17.5	3	
20	HQAM	50	50	18.77	18.82	18.83				
20	HQAM	100	0	18.68	18.81	18.78				
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.24	18.48	18.24				
15	QPSK	1	37	18.15	18.18	18.14		20.5	0	
15	QPSK	1	74	18.24	18.17	18.15				
15	QPSK	36	0	17.76	17.88	17.71				
15	QPSK	36	20	17.87	17.85	17.72		18.5	1	
15	QPSK	36	36	17.78	17.83	17.72				
15	QPSK	75	0	18.80	18.82	18.88				
15	HQAM	1	0	17.80	17.81	17.74				
15	HQAM	1	37	17.75	17.81	17.73		18.5	1	
15	HQAM	1	74	17.84	17.85	17.80				
15	HQAM	36	0	18.75	18.88	18.78				
15	HQAM	36	20	18.73	18.84	18.78		18.5	2	
15	HQAM	36	36	18.88	18.84	18.78				
15	HQAM	75	0	18.85	18.80	18.71				
15	HQAM	1	0	18.88	18.82	18.74				
15	HQAM	1	37	18.87	18.85	18.72		18.5	2	
15	HQAM	1	74	18.78	18.78	18.88				
15	HQAM	36	0	18.72	18.83	18.78				
15	HQAM	36	20	18.88	18.78	18.79		17.5	3	
15	HQAM	36	36	18.81	18.80	18.71				
15	HQAM	75	0	18.78	18.87	18.85				
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.20	18.48	18.17				
10	QPSK	1	25	18.10	18.13	18.17		20.5	0	
10	QPSK	1	49	18.21	18.27	18.15				
10	QPSK	25	0	17.81	17.80	17.71				
10	QPSK	25	12	17.71	17.75	17.78		18.5	1	
10	QPSK	25	25	17.80	17.77	17.87				
10	QPSK	50	0	17.86	17.83	17.88				
10	HQAM	1	0	17.80	17.79	17.88				
10	HQAM	1	25	17.86	17.82	17.85		18.5	1	
10	HQAM	1	49	17.74	17.75	17.71				
10	HQAM	25	0	18.81	18.84	18.78				
10	HQAM	25	12	18.79	18.80	18.81		18.5	2	
10	HQAM	25	25	18.88	18.82	18.74				
10	HQAM	50	0	18.78	18.87	18.88				
10	HQAM	1	0	18.81	18.83	18.74		18.5	2	
10	HQAM	1	25	18.74	18.79	18.75				
10	HQAM	1	49	18.76	18.85	18.88				
10	HQAM	25	0	18.77	18.88	18.75				
10	HQAM	25	12	18.76	18.75	18.77		17.5	3	
10	HQAM	25	25	18.88	18.87	18.81				
10	HQAM	50	0	18.74	18.84	18.74				
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.20	18.58	18.20				
5	QPSK	1	12	18.16	18.08	18.03		20.5	0	
5	QPSK	1	24	18.22	18.19	18.06				
5	QPSK	12	0	17.76	17.84	17.75				
5	QPSK	12	7	17.76	17.73	17.81		18.5	1	
5	QPSK	12	13	17.72	17.71	17.73				
5	QPSK	24	0	17.84	17.83	17.75				
5	HQAM	1	0	17.78	17.81	17.75				
5	HQAM	1	12	17.83	17.82	17.75		18.5	1	
5	HQAM	1	24	17.87	17.78	17.75				
5	HQAM	12	0	18.73	18.81	18.84				
5	HQAM	12	7	18.88	18.85	18.88		18.5	2	
5	HQAM	12	13	18.75	18.79	18.71				
5	HQAM	24	0	18.75	18.82	18.78				
5	HQAM	1	0	18.79	18.75	18.88		18.5	2	
5	HQAM	1	12	18.75	18.71	18.88				
5	HQAM	1	24	18.78	18.78	18.87				
5	HQAM	12	0	18.79	18.84	18.75				
5	HQAM	12	7	18.77	18.82	18.79		17.5	3	
5	HQAM	12	13	18.73	18.89	18.80				
5	HQAM	24	0	18.75	18.81	18.83				
Channel										
Frequency (MHz)										
3	QPSK	1	0	18.24	18.81	18.20				
3	QPSK	1	0	18.06	18.07	18.10		20.5	0	
3	QPSK	14	0	18.22	18.24	18.12				
3	QPSK	8	0	17.78	17.88	17.72				
3	QPSK	8	4	17.74	17.75	17.80		18.5	1	
3	QPSK	8	7	17.87	17.81	17.80				
3	QPSK	15	0	17.82	17.78	17.77				
3	HQAM	1	0	17.78	17.85	17.73				
3	HQAM	1	0	17.77	17.88	17.88		18.5	1	
3	HQAM	14	0	17.73	17.81	17.73				
3	HQAM	8	0	18.88	18.78	18.80				
3	HQAM	8	4	18.71	18.84	18.74		18.5	2	
3	HQAM	8	7	18.75	18.83	18.75				
3	HQAM	15	0	18.88	18.84	18.75				
3	HQAM	1	0	18.80	18.87	18.72		18.5	2	
3	HQAM	1	0	18.79	18.84	18.75				
3	HQAM	14	0	18.80	18.80	18.83				
3	HQAM	8	0	18.80	18.83	18.71				
3	HQAM	8	4	18.74	18.95	18.73		17.5	3	
3	HQAM	8	7	18.74	18.87	18.84				
3	HQAM	15	0	18.80	18.80	18.79				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	18.21	18.24	18.24				
1.4	QPSK	1	5	18.18	18.23	18.15		20.5	0	
1.4	QPSK	3	0	17.71	17.77	17.83				
1.4	QPSK	3	1	17.77	17.83	17.81		18.5	1	
1.4	QPSK	3	3	17.77	17.77	17.70				
1.4	QPSK	6	0	17.76	17.84	17.78				
1.4	HQAM	1	0	17.80	17.80	17.88				
1.4	HQAM	1	3	17.75	17.84	17.88		18.5	1	
1.4	HQAM	1	5	17.79	17.78	17.73				
1.4	HQAM	3	0	18.88	18.81	18.75				
1.4	HQAM	3	1	18.72	18.78	18.72		18.5	2	
1.4	HQAM	3	3	18.87	18.81	18.72				
1.4	HQAM	6	0	18.81	18.86	18.87				
1.4	HQAM	3	0	18.77	18.78	18.70		18.5	2	
1.4	HQAM	3	3	18.79	18.78	18.79				
1.4	HQAM	1	5	18.83	18.77	18.87		18.5	2	
1.4	HQAM	3	0	18.75	18.83	18.75				
1.4	HQAM	3	1	18.74	18.87	18.78				
1.4	HQAM	3	3	18.74	18.88	18.78		17.5	3	
1.4	HQAM	6	0	18.83	18.88	18.78				

Band 2 Ant 4 For Sensor ENDC										
BM (MHz)	Multicast	RB Set	RB Offset	Power Low Ch. (W)	Power High Ch. (W)	Power High Pch. (W)	Power High Pch. (W)	Time-up (min)	Aggr (dB)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.32	18.35	18.21				
20	QPSK	1	49	18.18	18.22	18.21		17	0	
20	QPSK	50	0	18.24	18.10	18.10				
20	QPSK	50	0	18.30	18.38	18.21				
20	QPSK	50	24	18.18	18.17	18.18		18	1	
20	QPSK	50	50	18.29	18.12	18.22				
20	QPSK	100	0	18.11	18.17	18.29				
20	HQAM	1	0	18.29	18.47	18.20		18	1	
20	HQAM	1	49	18.28	18.11	18.22		18	1	
20	HQAM	50	0	18.18	18.11	18.10				
20	HQAM	50	0	18.30	18.48	18.28				
20	HQAM	50	24	18.38	18.08	18.25		15	2	
20	HQAM	50	50	18.20	18.08	18.19				
20	HQAM	100	0	18.11	18.08	18.15				
20	HQAM	1	0	18.29	18.28	18.13		15	2	
20	HQAM	1	49	18.31	18.16	18.21				
20	HQAM	50	0	18.28	18.17	18.22		18	1	
20	HQAM	50	0	18.48	18.18	18.27				
20	HQAM	50	24	18.39	18.18	18.13		14	3	
20	HQAM	50	50	18.17	18.08	18.20				
20	HQAM	100	0	18.08	18.18	18.09				





Band 2 Ant4 For Handheld													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power High Ch. Freq.	Power Max Ch. Freq.	Power Min Ch. Freq.	Power High Ch. Freq.	Power Low Ch. Freq.	Power Max Ch. Freq.	Power Min Ch. Freq.	Time-up (min)	APRS (dB)
Channel													
				1880	1890	1900	1880	1890	1900			19.5	0
Frequency (MHz)													
20	QPSK	1	0	18.89	18.95	19.03	18.89	18.95	19.03			18.5	1
20	QPSK	1	40	18.92	18.98	19.04	18.92	18.98	19.04				
20	QPSK	1	80	18.91	18.97	19.05	18.91	18.97	19.05			17.5	2
20	QPSK	50	0	18.92	18.93	18.91	18.92	18.93	18.91				
20	QPSK	50	24	18.97	18.98	18.99	18.97	18.98	18.99			17.5	2
20	QPSK	50	50	17.99	18.07	17.74	17.99	18.07	17.74				
20	QPSK	100	0	17.92	17.97	17.72	17.92	17.97	17.72			17.5	2
20	QPSK	100	40	18.09	18.15	18.03	18.09	18.15	18.03				
20	QPSK	100	80	18.05	18.05	17.97	18.05	18.05	17.97			17.5	2
20	QPSK	50	0	18.99	17.11	18.78	18.99	17.11	18.78				
20	QPSK	50	24	17.03	17.04	18.74	17.03	17.04	18.74			17.5	2
20	QPSK	50	50	17.08	17.09	18.80	17.08	17.09	18.80				
20	QPSK	100	0	18.91	18.99	18.75	18.91	18.99	18.75			17.5	2
20	QPSK	100	40	18.91	18.91	18.72	18.91	18.91	18.72				
20	QPSK	100	80	18.97	18.97	18.88	18.97	18.97	18.88			17.5	2
20	QPSK	50	0	18.98	18.98	18.73	18.98	18.98	18.73				
20	QPSK	50	24	18.01	18.03	18.83	18.01	18.03	18.83			18.5	3
20	QPSK	50	50	18.08	18.05	18.82	18.08	18.05	18.82				
20	QPSK	100	0	18.08	18.08	18.78	18.08	18.08	18.78			18.5	3
20	QPSK	100	40	18.08	18.08	18.78	18.08	18.08	18.78				
Channel													
				18875	18900	19125	18875	18900	19125			19.5	0
Frequency (MHz)													
15	QPSK	1	0	17.98	18.02	17.91	17.98	18.02	17.91			19.5	0
15	QPSK	1	37	17.95	17.99	17.92	17.95	17.99	17.92				
15	QPSK	1	74	17.98	18.01	17.91	17.98	18.01	17.91			18.5	1
15	QPSK	36	0	18.98	17.01	18.71	18.98	17.01	18.71				
15	QPSK	36	20	18.98	18.98	18.88	18.98	18.98	18.88			18.5	1
15	QPSK	36	50	18.94	18.95	18.70	18.94	18.95	18.70				
15	QPSK	75	0	18.97	18.97	18.88	18.97	18.97	18.88			18.5	1
15	QPSK	75	40	18.97	17.03	18.91	18.97	17.03	18.91				
15	QPSK	1	37	18.93	17.00	18.91	18.93	17.00	18.91			18.5	1
15	QPSK	1	74	18.94	17.00	18.90	18.94	17.00	18.90				
15	QPSK	36	0	18.97	18.99	18.72	18.97	18.99	18.72			17.5	2
15	QPSK	36	20	18.91	18.97	18.88	18.91	18.97	18.88				
15	QPSK	36	50	18.99	18.97	18.71	18.99	18.97	18.71			17.5	2
15	QPSK	75	0	18.94	18.95	18.86	18.94	18.95	18.86				
15	QPSK	75	40	18.93	18.93	18.88	18.93	18.93	18.88			18.5	3
15	QPSK	1	37	18.91	18.90	18.59	18.91	18.90	18.59				
15	QPSK	1	74	18.97	18.79	18.80	18.97	18.79	18.80			18.5	3
15	QPSK	36	0	14.98	15.00	14.70	14.98	15.00	14.70				
15	QPSK	36	20	14.95	14.98	14.73	14.95	14.98	14.73			18.5	3
15	QPSK	36	50	14.99	15.05	14.71	14.99	15.05	14.71				
15	QPSK	75	0	14.94	15.04	14.74	14.94	15.04	14.74			18.5	3
15	QPSK	75	40	14.94	15.04	14.74	14.94	15.04	14.74				
Channel													
				18875	18900	19125	18875	18900	19125			19.5	0
Frequency (MHz)													
10	QPSK	1	0	17.97	18.04	17.90	17.97	18.04	17.90			19.5	0
10	QPSK	1	25	17.95	18.01	17.91	17.95	18.01	17.91				
10	QPSK	1	49	17.98	17.98	17.91	17.98	17.98	17.91			18.5	1
10	QPSK	25	0	18.95	18.98	18.71	18.95	18.98	18.71				
10	QPSK	25	12	18.98	18.98	18.87	18.98	18.98	18.87			18.5	1
10	QPSK	25	25	18.94	18.97	18.71	18.94	18.97	18.71				
10	QPSK	50	0	18.93	18.87	18.84	18.93	18.87	18.84			18.5	1
10	QPSK	1	0	18.95	17.04	18.90	18.95	17.04	18.90				
10	QPSK	1	25	18.95	17.03	18.93	18.95	17.03	18.93			18.5	1
10	QPSK	1	49	18.95	18.99	18.87	18.95	18.99	18.87				
10	QPSK	25	0	18.98	18.98	18.71	18.98	18.98	18.71			17.5	2
10	QPSK	25	12	18.93	18.93	18.89	18.93	18.93	18.89				
10	QPSK	50	0	18.94	18.90	18.83	18.94	18.90	18.83			17.5	2
10	QPSK	1	0	18.83	18.85	18.81	18.83	18.85	18.81				
10	QPSK	1	25	18.92	18.93	18.83	18.92	18.93	18.83			17.5	2
10	QPSK	1	49	18.78	18.82	18.81	18.78	18.82	18.81				
10	QPSK	25	12	18.95	18.98	18.75	18.95	18.98	18.75			18.5	3
10	QPSK	25	25	14.98	14.98	14.74	14.98	14.98	14.74				
10	QPSK	50	0	14.98	15.00	14.69	14.98	15.00	14.69			18.5	3
10	QPSK	50	24	14.98	15.00	14.69	14.98	15.00	14.69				
Channel													
				18925	18950	19175	18925	18950	19175			19.5	0
Frequency (MHz)													
5	QPSK	1	0	17.98	18.02	17.92	17.98	18.02	17.92			19.5	0
5	QPSK	1	12	17.94	18.02	17.91	17.94	18.02	17.91				
5	QPSK	1	24	17.93	18.00	17.88	17.93	18.00	17.88			18.5	1
5	QPSK	5	0	18.98	18.98	18.87	18.98	18.98	18.87				
5	QPSK	12	7	18.94	18.99	18.89	18.94	18.99	18.89			18.5	1
5	QPSK	12	13	18.97	18.98	18.89	18.97	18.98	18.89				
5	QPSK	25	0	18.98	18.88	18.86	18.98	18.88	18.86			18.5	1
5	QPSK	1	0	18.98	17.01	18.83	18.98	17.01	18.83				
5	QPSK	1	12	18.98	17.02	18.92	18.98	17.02	18.92			18.5	1
5	QPSK	1	24	18.94	18.97	18.88	18.94	18.97	18.88				
5	QPSK	5	0	18.98	18.97	18.87	18.98	18.97	18.87			17.5	2
5	QPSK	12	7	18.94	18.99	18.88	18.94	18.99	18.88				
5	QPSK	12	13	18.97	18.99	18.70	18.97	18.99	18.70			17.5	2
5	QPSK	25	0	18.95	18.88	18.87	18.95	18.88	18.87				
5	QPSK	1	0	18.83	18.81	18.59	18.83	18.81	18.59			17.5	2
5	QPSK	1	12	18.79	18.83	18.80	18.79	18.83	18.80				
5	QPSK	5	0	14.98	14.98	14.73	14.98	14.98	14.73			18.5	3
5	QPSK	12	7	14.95	14.97	14.71	14.95	14.97	14.71				
5	QPSK	12	13	14.98	15.00	14.70	14.98	15.00	14.70			18.5	3
5	QPSK	25	0	14.95	15.00	14.69	14.95	15.00	14.69				
Channel													
				18975	18990	19185	18975	18990	19185			19.5	0
Frequency (MHz)													
3	QPSK	1	0	17.97	18.01	17.99	17.97	18.01	17.99			19.5	0
3	QPSK	1	8	17.98	17.98	17.89	17.98	17.98	17.89				
3	QPSK	1	14	17.94	18.01	17.89	17.94	18.01	17.89			18.5	1
3	QPSK	5	0	18.97	17.01	18.74	18.97	17.01	18.74				
3	QPSK	5	4	18.98	18.98	18.87	18.98	18.98	18.87			18.5	1
3	QPSK	8	7	18.95	18.98	18.89	18.95	18.98	18.89				
3	QPSK	15	0	18.85	18.87	18.83	18.85	18.87	18.83			18.5	1
3	QPSK	1	0	18.97	17.03	18.91	18.97	17.03	18.91				
3	QPSK	1</											



Band 7 Ant 4 For Hotspot ENDC										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 7 Freq.	Power Mid Ch. 7 Freq.	Power High Ch. 7 Freq.	Tune-up (dBm)	APRx (dB)		
Channel				2085.5	2110	2150				
Frequency (MHz)				2515	2535	2565				
20	QPSK	1	0	15.08	15.20	15.21				
20	QPSK	1	40	15.15	15.21	15.26	18.5	0		
20	QPSK	1	80	15.21	15.30	15.35				
20	QPSK	50	0	15.18	15.22	15.20				
20	QPSK	50	24	15.11	15.19	15.21				
20	QPSK	50	50	15.08	15.14	15.03	18.5	0		
20	QPSK	100	0	15.11	15.16	15.09				
20	HQAM	1	0	15.07	15.27	15.19				
20	HQAM	1	40	15.08	15.28	15.20	18.5	0		
20	HQAM	1	80	15.20	15.37	15.23				
20	HQAM	40	0	15.17	15.22	15.18				
20	HQAM	50	24	15.18	15.15	15.18				
20	HQAM	50	50	15.08	15.13	14.99	18.5	0		
20	HQAM	100	0	15.11	15.14	15.13				
20	HQAM	1	0	15.12	15.24	15.18				
20	HQAM	1	40	15.08	15.28	15.20	18.5	0		
20	HQAM	1	80	15.20	15.37	15.23				
20	HQAM	40	0	15.18	15.19	15.13				
20	HQAM	50	24	15.13	15.17	15.18				
20	HQAM	50	50	15.07	15.14	14.97	18.5	0		
20	HQAM	100	0	15.09	15.15	15.11				
Channel				2085.5	2110	2137.5	Tune-up (dBm)	APRx (dB)		
Frequency (MHz)				2522.5	2545	2567.5				
15	QPSK	1	0	15.06	15.21	15.18				
15	QPSK	1	27	15.12	15.15	15.10	18.5	0		
15	QPSK	1	74	15.17	15.11	15.21				
15	QPSK	36	0	15.12	15.18	15.20				
15	QPSK	36	20	15.12	15.21	15.18	18.5	0		
15	QPSK	75	0	15.14	15.27	15.17				
15	HQAM	1	0	15.09	15.25	15.15				
15	HQAM	1	27	15.08	15.13	15.05	18.5	0		
15	HQAM	1	74	15.24	15.17	15.19				
15	HQAM	36	0	15.20	15.19	15.14				
15	HQAM	36	20	15.12	15.11	15.22	18.5	0		
15	HQAM	36	30	15.02	15.16	15.03				
15	HQAM	75	0	15.07	15.15	15.10				
15	HQAM	1	0	15.08	15.20	15.14				
15	HQAM	1	27	15.08	15.03	15.09	18.5	0		
15	HQAM	1	74	15.15	15.18	15.30				
15	HQAM	36	0	15.13	15.19	15.08				
15	HQAM	36	20	15.17	15.20	15.21	18.5	0		
15	HQAM	36	30	15.08	15.16	14.96				
15	HQAM	75	0	15.04	15.19	15.12				
Channel				2085.5	2110	2140	Tune-up (dBm)	APRx (dB)		
Frequency (MHz)				2525	2530	2565				
10	QPSK	1	0	15.06	15.27	15.18				
10	QPSK	1	25	15.12	15.14	15.11	18.5	0		
10	QPSK	1	40	15.16	15.14	15.26				
10	QPSK	25	0	15.16	15.20	15.16				
10	QPSK	25	12	15.13	15.27	15.17	18.5	0		
10	QPSK	25	25	15.09	15.21	14.99				
10	QPSK	50	0	15.12	15.18	15.11				
10	HQAM	1	0	15.06	15.25	15.17				
10	HQAM	1	25	15.07	15.10	15.01	18.5	0		
10	HQAM	1	40	15.26	15.17	15.19				
10	HQAM	25	0	15.23	15.18	15.18				
10	HQAM	25	12	15.20	15.28	15.27	18.5	0		
10	HQAM	25	25	15.07	15.21	15.07				
10	HQAM	50	0	15.11	15.18	15.08				
10	HQAM	1	0	15.09	15.17	15.15				
10	HQAM	1	25	15.09	15.04	15.11	18.5	0		
10	HQAM	1	40	15.14	15.23	15.26				
10	HQAM	25	0	15.09	15.14	15.03				
10	HQAM	25	12	15.28	15.20	15.20	18.5	0		
10	HQAM	25	25	15.11	15.24	15.21				
10	HQAM	50	0	15.04	15.23	15.07				
Channel				2077.5	2110	2142.5	Tune-up (dBm)	APRx (dB)		
Frequency (MHz)				2522.5	2535	2567.5				
5	QPSK	1	0	15.05	15.26	15.17				
5	QPSK	1	12	15.11	15.16	15.16	18.5	0		
5	QPSK	1	24	15.13	15.11	15.27				
5	QPSK	12	0	15.16	15.20	15.14				
5	QPSK	12	7	15.17	15.13	15.17	18.5	0		
5	QPSK	12	13	15.02	15.20	15.00				
5	QPSK	25	0	15.12	15.21	15.06				
5	HQAM	1	0	15.02	15.21	15.13				
5	HQAM	1	12	15.11	15.08	15.02	18.5	0		
5	HQAM	1	24	15.20	15.18	15.16				
5	HQAM	12	0	15.20	15.21	15.20				
5	HQAM	12	7	15.12	15.11	15.24	18.5	0		
5	HQAM	12	13	15.06	15.13	15.03				
5	HQAM	25	0	15.12	15.17	15.03				
5	HQAM	1	0	15.06	15.19	15.18				
5	HQAM	1	12	15.09	15.06	15.07	18.5	0		
5	HQAM	1	24	15.10	15.20	15.25				
5	HQAM	12	0	15.07	15.21	15.08				
5	HQAM	12	7	15.23	15.20	15.20	18.5	0		
5	HQAM	12	13	15.08	15.12	14.96				
5	HQAM	25	0	15.07	15.22	15.04				

Band 7 Ant 4 For Handheld										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 7 Freq.	Power Mid Ch. 7 Freq.	Power High Ch. 7 Freq.	Tune-up (dBm)	APRx (dB)		
Channel				2085.5	2110	2150				
Frequency (MHz)				2515	2535	2565				
20	QPSK	1	0	16.59	16.61	16.70				
20	QPSK	1	40	16.71	16.67	16.67	18	0		
20	QPSK	1	80	16.70	16.70	16.72				
20	QPSK	50	0	16.67	16.60	16.78				
20	QPSK	50	24	16.65	16.77	16.74				
20	QPSK	50	50	16.54	16.67	16.57	18	0		
20	QPSK	100	0	16.65	16.74	16.61				
20	HQAM	1	0	16.60	16.61	16.69				
20	HQAM	1	40	16.70	16.68	16.60	18	0		
20	HQAM	1	80	16.77	16.70	16.62				
20	HQAM	40	0	16.70	16.67	16.72				
20	HQAM	50	24	16.64	16.73	16.65				
20	HQAM	50	50	16.55	16.61	16.53	18	0		
20	HQAM	100	0	16.61	16.66	16.60				
20	HQAM	1	0	16.61	16.71	16.72				
20	HQAM	1	40	16.64	16.61	16.60	18	0		
20	HQAM	1	80	16.74	16.73	16.60				
20	HQAM	40	0	16.68	16.75	16.67				
20	HQAM	50	24	16.68	16.73	16.75				
20	HQAM	50	50	16.55	16.61	16.44	18	0		
20	HQAM	100	0	16.64	16.63	16.66				
Channel				2085.5	2110	2137.5	Tune-up (dBm)	APRx (dB)		
Frequency (MHz)				2522.5	2545	2567.5				
15	QPSK	1	0	16.60	16.69	16.58				
15	QPSK	1	27	16.72	16.59	16.66	18	0		
15	QPSK	1	74	16.71	16.68	16.78				
15	QPSK	36	0	16.58	16.73	16.68				
15	QPSK	36	20	16.60	16.71	16.77	18	0		
15	QPSK	36	30	16.59	16.71	16.46				
15	QPSK	75	0	16.64	16.67	16.60				
15	HQAM	1	0	16.61	16.74	16.72				
15	HQAM	1	27	16.58	16.67	16.54	18	0		
15	HQAM	1	74	16.72	16.68	16.66				
15	HQAM	36	0	16.78	16.73	16.54				
15	HQAM	36	20	16.58	16.59	16.76	18	0		
15	HQAM	36	30	16.52	16.63	16.58				
15	HQAM	75	0	16.60	16.66	16.54				
15	HQAM	1	0	16.63	16.60	16.60				
15	HQAM	1	27	16.68	16.57	16.56	18	0		
15	HQAM	1	74	16.65	16.68	16.69				
15	HQAM	36	0	16.71	16.77	16.64				
15	HQAM	36	20	16.65	16.70	16.76	18	0		
15	HQAM	36	30	16.55	16.65	16.43				
15	HQAM	75	0	16.62	16.62	16.63				
Channel				2085.5	2110	2140	Tune-up (dBm)	APRx (dB)		
Frequency (MHz)				2525	2530	2565				
10	QPSK	1	0	16.54	16.78	16.64				
10	QPSK	1	25	16.60	16.61	16.62	18	0		
10	QPSK	1	40	16.72	16.60	16.62				
10	QPSK	25	0	16.69	16.70	16.63				
10	QPSK	25	12	16.72	16.68	16.60	18	0		
10	QPSK	25	25	16.57	16.67	16.46				
10	QPSK	50	0	16.63	16.63	16.67				
10	HQAM	1	0	16.61	16.62	16.62				
10	HQAM	1	25	16.67	16.69	16.57	18	0		
10	HQAM	1	40	16.76	16.63	16.75				
10	HQAM	25	0	16.72	16.76	16.76				
10	HQAM	25	12	16.63	16.58	16.75	18	0		
10	HQAM	25	25	16.58	16.71	16.54				



### Band 41 Ant 1 For Sensor&Hotspot ENDC

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2508	2549.5	2593	2636.5	2680		
20	QPSK	1	0	15.66	15.55	15.68	15.44	15.43	17	0
20	QPSK	1	49	15.63	15.53	15.66	15.39	15.39		
20	QPSK	1	99	15.65	15.53	15.66	15.40	15.41		
20	QPSK	50	0	14.44	14.56	14.58	14.34	14.45	16	1
20	QPSK	50	24	14.41	14.54	14.56	14.33	14.40		
20	QPSK	50	50	14.42	14.55	14.56	14.30	14.40		
20	QPSK	100	0	14.43	14.45	14.50	14.51	14.32	16	1
20	16QAM	1	0	14.85	14.55	14.67	14.45	14.44		
20	16QAM	1	49	14.83	14.53	14.65	14.39	14.40		
20	16QAM	1	99	14.66	14.54	14.65	14.41	14.42	15	2
20	16QAM	50	0	13.43	13.57	13.56	13.34	13.44		
20	16QAM	50	24	13.42	13.55	13.54	13.32	13.42		
20	16QAM	50	50	13.44	13.56	13.57	13.29	13.38	15	2
20	16QAM	100	0	13.44	13.45	13.51	13.59	13.33		
20	64QAM	1	0	13.40	13.50	13.51	13.29	13.39		
20	64QAM	1	49	13.39	13.54	13.53	13.27	13.34	15	2
20	64QAM	1	99	13.41	13.41	13.48	13.48	13.29		
20	64QAM	50	0	12.43	12.44	12.50	12.48	12.34		
20	64QAM	50	24	12.38	12.50	12.50	12.29	12.37	14	3
20	64QAM	50	50	12.40	12.52	12.51	12.28	12.34		
20	64QAM	100	0	12.42	12.43	12.50	12.49	12.29		
Channel				39725	40173	40620	41088	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	15.67	15.48	15.62	15.36	15.34	17.00	0
15	QPSK	1	37	15.56	15.45	15.59	15.30	15.31		
15	QPSK	1	74	15.58	15.45	15.59	15.33	15.34		
15	QPSK	36	0	14.36	14.47	14.51	14.26	14.38	16	1
15	QPSK	36	20	14.32	14.46	14.49	14.23	14.32		
15	QPSK	36	39	14.33	14.47	14.50	14.23	14.32		
15	QPSK	75	0	14.36	14.39	14.41	14.42	14.23	16	1
15	16QAM	1	0	14.58	14.48	14.58	14.38	14.35		
15	16QAM	1	37	14.54	14.45	14.58	14.30	14.33		
15	16QAM	1	74	14.59	14.47	14.58	14.31	14.32	15	2
15	16QAM	36	0	13.34	13.50	13.47	13.24	13.37		
15	16QAM	36	20	13.34	13.49	13.48	13.24	13.34		
15	16QAM	36	39	13.36	13.47	13.50	13.22	13.31	15	2
15	16QAM	75	0	13.37	13.37	13.41	13.44	13.26		
15	64QAM	1	0	13.33	13.42	13.44	13.21	13.32		
15	64QAM	1	37	13.32	13.45	13.46	13.20	13.27	15	2
15	64QAM	1	74	13.34	13.34	13.39	13.42	13.20		
15	64QAM	36	0	12.36	12.35	12.42	12.41	12.27		
15	64QAM	36	20	12.32	12.41	12.43	12.19	12.30	14	3
15	64QAM	36	39	12.32	12.44	12.43	12.20	12.27		
15	64QAM	75	0	12.35	12.35	12.43	12.40	12.22		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	15.57	15.49	15.59	15.37	15.35	17.00	0
10	QPSK	1	25	15.56	15.46	15.59	15.32	15.30		
10	QPSK	1	49	15.58	15.48	15.57	15.34	15.33		
10	QPSK	25	0	14.35	14.46	14.50	14.26	14.38	16	1
10	QPSK	25	12	14.31	14.44	14.47	14.25	14.31		
10	QPSK	25	25	14.33	14.47	14.48	14.21	14.31		
10	QPSK	50	0	14.36	14.38	14.42	14.43	14.24	16	1
10	16QAM	1	0	14.58	14.49	14.57	14.37	14.36		
10	16QAM	1	25	14.54	14.46	14.57	14.31	14.31		
10	16QAM	1	49	14.57	14.44	14.57	14.31	14.32	15	2
10	16QAM	25	0	13.33	13.48	13.48	13.27	13.37		
10	16QAM	25	12	13.36	13.47	13.47	13.22	13.32		
10	16QAM	25	25	13.37	13.46	13.50	13.22	13.29	15	2
10	16QAM	50	0	13.36	13.38	13.42	13.41	13.23		
10	64QAM	1	0	13.31	13.41	13.42	13.20	13.32		
10	64QAM	1	25	13.32	13.45	13.45	13.19	13.28	15	2
10	64QAM	1	49	13.33	13.32	13.41	13.41	13.23		
10	64QAM	25	0	12.36	12.35	12.43	12.39	12.25		
10	64QAM	25	12	12.32	12.41	12.44	12.20	12.30	14	3
10	64QAM	25	25	12.32	12.45	12.41	12.19	12.26		
10	64QAM	50	0	12.33	12.34	12.40	12.41	12.21		
Channel				39675	40148	40620	41093	41505	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.9	2593	2640.30	2687.5		
5	QPSK	1	0	15.59	15.48	15.60	15.37	15.34	17.00	0
5	QPSK	1	12	15.56	15.44	15.59	15.32	15.29		
5	QPSK	1	24	15.57	15.44	15.58	15.31	15.32		
5	QPSK	12	0	14.35	14.46	14.52	14.28	14.38	16	1
5	QPSK	12	7	14.32	14.47	14.50	14.24	14.33		
5	QPSK	12	13	14.33	14.47	14.49	14.23	14.33		
5	QPSK	25	0	14.33	14.38	14.42	14.44	14.22	16	1
5	16QAM	1	0	14.55	14.46	14.60	14.36	14.36		
5	16QAM	1	12	14.57	14.45	14.56	14.29	14.33		
5	16QAM	1	24	14.58	14.45	14.56	14.35	14.35	15	2
5	16QAM	12	0	13.33	13.48	13.47	13.25	13.38		
5	16QAM	12	7	13.36	13.49	13.45	13.26	13.34		
5	16QAM	12	13	13.38	13.50	13.48	13.21	13.32	15	2
5	16QAM	25	0	13.34	13.35	13.41	13.43	13.27		
5	64QAM	1	0	13.32	13.42	13.44	13.22	13.31		
5	64QAM	1	12	13.32	13.47	13.43	13.20	13.25	15	2
5	64QAM	1	24	13.35	13.35	13.40	13.40	13.22		
5	64QAM	12	0	12.37	12.35	12.42	12.42	12.28		
5	64QAM	12	7	12.29	12.44	12.41	12.21	12.29	14	3
5	64QAM	12	13	12.32	12.45	12.41	12.22	12.26		
5	64QAM	25	0	12.36	12.34	12.40	12.43	12.21		

### Band 41 For Handheld

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2508	2549.5	2593	2636.5	2680		
20	QPSK	1	0	16.69	16.57	16.76	16.45	16.45	20	0
20	QPSK	1	49	16.68	16.60	16.75	16.48	16.37		
20	QPSK	1	99	16.63	16.51	16.75	16.43	16.43		
20	QPSK	50	0	17.44	17.55	17.63	17.39	17.51	19	1
20	QPSK	50	24	17.48	17.60	17.55	17.33	17.46		
20	QPSK	50	50	17.45	17.57	17.55	17.38	17.38		
20	QPSK	100	0	17.48	17.41	17.55	17.53	17.35	19	1
20	16QAM	1	0	17.63	17.53	17.71	17.50	17.44		
20	16QAM	1	49	17.59	17.50	17.60	17.35	17.45		
20	16QAM	1	99	17.64	17.53	17.63	17.40	17.40	18	2
20	16QAM	50	0	16.48	16.55	16.62	16.40	16.47		
20	16QAM	50	24	16.48	16.64	16.60	16.41	16.38		
20	16QAM	50	50	16.40	16.64	16.63	16.35	16.48	18	2
20	16QAM	100	0	16.44	16.43	16.59	16.59	16.32		
20	64QAM	1	0	16.43	16.58	16.60	16.38	16.43		
20	64QAM	1	49	16.40	16.53	16.61	16.36	16.30	18	2
20	64QAM	1	99	16.36	16.48	16.50	16.55	16.31		
20	64QAM	50	0	15.49	15.49	15.55	15.52	15.34		
20	64QAM	50	24	15.34	15.56	15.51	15.33	15.36	17	3
20	64QAM	50	50	15.47	15.49	15.56	15.27	15.42		
20	64QAM	100	0	15.37	15.45	15.45	15.46	15.38		
Channel				39725	40173	40620	41088	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	16.66	16.51	16.70	16.35	16.33	20.00	0
15	QPSK	1	37	16.60	16.4					



Uplink CA Power

Ant 1 Full Power		CA_7C						
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	0	0	0	22.43	24
21100	20902	QPSK	1	0	0	0	22.55	24
21350	21152	QPSK	1	0	0	0	22.38	24
20850	21048	16QAM	1	0	0	0	21.76	23
21100	20902	16QAM	1	0	0	0	21.88	23
21350	21152	16QAM	1	0	0	0	22.01	23
20850	21048	64QAM	1	0	0	0	20.66	22
21100	20902	64QAM	1	0	0	0	20.54	22
21350	21152	64QAM	1	0	0	0	20.53	22

Ant 1 Full Power		CA_41C						
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	0	0	0	22.76	24
40185	40383	QPSK	1	0	0	0	22.56	24
40620	40818	QPSK	1	0	0	0	22.64	24
41055	41253	QPSK	1	0	0	0	22.45	24
41490	41292	QPSK	1	0	0	0	22.55	24
39750	39948	QPSK	1	0	0	0	21.66	23
40185	40383	QPSK	1	0	0	0	21.75	23
40620	40818	QPSK	1	0	0	0	21.56	23
41055	41253	QPSK	1	0	0	0	21.71	23
41490	41292	QPSK	1	0	0	0	21.65	23
39750	39948	QPSK	1	0	0	0	20.44	22
40185	40383	QPSK	1	0	0	0	20.43	22
40620	40818	QPSK	1	0	0	0	20.35	22
41055	41253	QPSK	1	0	0	0	20.37	22
41490	41292	QPSK	1	0	0	0	20.50	22



Downlink CA Power

2CA DL															
CA List	PCC								SCC				Power		
	LTE	Ant	BW (MHz)	UL		Mod	UL#		LTE	BW (MHz)	DL	DL	With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)	
	Band			Freq (MHz)	Channel		RB	RB Offset							Band
CA_2A-4A	Band 2	4	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	22.78	22.92	
	Band 4	0	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	23.00	23.07	
CA_2A-5A	Band 2	4	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	22.77	22.92	
	Band 5	0	10M	836.5	26235	QPSK	1	0	Band 2	20M	1960	900	23.10	23.14	
CA_2A-7A	Band 5	4	10M	836.5	26235	QPSK	1	0	Band 2	20M	1960	900	22.83	22.90	
	Band 2	4	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	22.78	22.92	
CA_4A-5A	Band 7	1	20M	2535	21100	QPSK	1	0	Band 2	20M	1960	900	22.88	22.98	
	Band 4	0	20M	1732.5	20175	QPSK	1	0	Band 5	10M	881.5	2525	23.11	23.07	
CA_4A-7A	Band 5	0	10M	836.5	26235	QPSK	1	0	Band 4	20M	2132.5	2175	23.10	23.14	
	Band 5	4	10M	836.5	26235	QPSK	1	0	Band 4	20M	2132.5	2175	22.83	22.90	
CA_5A-7A	Band 4	0	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	22.93	23.07	
	Band 7	1	20M	2535	21100	QPSK	1	0	Band 4	20M	2132.5	2175	22.89	22.98	
CA_5A-38A	Band 5	0	10M	836.5	26235	QPSK	1	0	Band 7	20M	2655	3100	23.10	23.14	
	Band 5	4	10M	836.5	26235	QPSK	1	0	Band 7	20M	2655	3100	22.84	22.90	
CA_5A-41A	Band 7	1	20M	2535	21100	QPSK	1	0	Band 5	10M	881.5	2525	22.88	22.98	
	Band 5	0	10M	836.5	26235	QPSK	1	0	Band 38	20M	2995	38000	23.04	23.14	
CA_5A-66A	Band 5	4	10M	836.5	26235	QPSK	1	0	Band 38	20M	2995	38000	22.83	22.90	
	Band 38	1	20M	2995	38000	QPSK	1	0	Band 5	10M	881.5	2525	22.78	22.86	
CA_26A-41A	Band 5	0	10M	836.5	26235	QPSK	1	0	Band 41	20M	2993	40620	23.10	23.14	
	Band 5	4	10M	836.5	26235	QPSK	1	0	Band 41	20M	2993	40620	22.78	22.90	
CA_38C	Band 41	1	20M	2993	40620	QPSK	1	0	Band 5	10M	881.5	2525	22.66	22.87	
	Band 5	0	10M	836.5	26235	QPSK	1	0	Band 66	20M	2155	66896	23.10	23.14	
CA_66B	Band 5	4	10M	836.5	26235	QPSK	1	0	Band 66	20M	2155	66896	22.76	22.90	
	Band 66	4	20M	1745	132322	QPSK	1	0	Band 5	10M	881.5	2525	22.65	22.77	
CA_66C	Band 26	0	15M	831.5	26865	QPSK	1	0	Band 41	20M	2993	40620	22.84	22.96	
	Band 26	4	15M	831.5	26865	QPSK	1	0	Band 41	20M	2993	40620	23.10	23.12	
CA_7A-7A	Band 41	1	20M	2993	40620	QPSK	1	0	Band 26	15M	876.5	8865	22.65	22.87	
	Band 7	1	15M	2535	21100	QPSK	1	0	Band 7	5M	2664.3	3193	22.83	22.94	
CA_41A-41A	Band 38	1	20M	2995	38000	QPSK	1	0	Band 38	20M	2904.9	38098	22.67	22.86	
	Band 66	4	15M	1745	132322	QPSK	1	0	Band 66	5M	2164.3	66979	22.66	22.72	
CA_41A-41A	Band 66	4	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67094	22.65	22.77	
	Band 4	0	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	23.00	23.07	
CA_41A-41A	Band 7	1	20M	2535	21100	QPSK	1	0	Band 7	5M	2667.5	3425	22.78	22.98	
	Band 41	1	20M	2993	40620	QPSK	1	0	Band 41	5M	2667.5	41565	22.66	22.87	



3CA DL																		
Configure	PCC								SCC1				SCC2				Power	
	LTE	Ant	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA
	Band		(MHz)	Freq. (MHz)	Channel		RB	Offset	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)
CA_2A-7C	Band 2	4	20M	1880	1890	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.77	22.92
	Band 7	1	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	22.9	22.98
CA_4A-7C	Band 4	0	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.89	23.07
	Band 7	1	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 4	20M	2132.5	2175	22.83	22.98
CA_5A-7C	Band 5	0	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	23.04	23.14
	Band 5	4	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.88	22.9
CA_7C-66A	Band 7	1	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 5	10M	881.5	2525	22.87	22.98
	Band 66	4	20M	1745	132322	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	20M	2155	66886	22.88	22.98
CA_26A-41C	Band 26	0	15M	831.5	28865	QPSK	1	0	Band 41	20M	2593	40620	Band 41	20M	2612.8	2791	22.88	22.96
	Band 41	4	15M	831.5	28865	QPSK	1	0	Band 41	20M	2593	40620	Band 41	20M	2612.8	2791	23.05	23.12
CA_7A-66A-66A	Band 7	1	20M	2535	21100	QPSK	1	0	Band 41	20M	2612.8	40818	Band 26	15M	876.5	8865	22.67	22.87
	Band 66	4	20M	1745	132322	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.77	22.98
	Band 66	4	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	22.61	22.77





Full Power

n5 Ant0								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				166800	167300	167800		
Frequency (MHz)				834	838.5	843		
20	PI2 BPSK	1	1	23.05	23.14	23.09	24.0	0.0
20	PI2 BPSK	1	53	23.22	23.28	23.21		
20	PI2 BPSK	1	104	23.22	23.27	23.29		
20	PI2 BPSK	50	0	22.03	22.04	22.01	23.5	0.5
20	PI2 BPSK	50	28	23.12	23.20	23.15	24.0	0.0
20	PI2 BPSK	50	56	22.01	22.08	22.12	23.5	0.5
20	PI2 BPSK	100	0	22.03	22.07	22.20		
20	QPSK	1	1	23.22	23.27	23.10		
20	QPSK	1	53	23.21	23.16	23.20	24.0	0.0
20	QPSK	1	104	23.03	23.02	23.03		
20	QPSK	50	0	22.01	22.05	22.12	23.0	1.0
20	QPSK	50	28	23.10	23.12	23.11	24.0	0.0
20	QPSK	50	56	22.01	22.05	22.21	23.0	1.0
20	QPSK	100	0	22.20	22.21	22.03		
20	16QAM	1	1	21.99	21.83	22.01	23.0	1.0
20	64QAM	1	1	20.45	20.57	20.45	21.5	2.5
20	256QAM	1	1	19.01	19.04	19.11	19.5	4.5
Channel				165300	165900	166500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.24	23.22	23.21	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				836	838.5	841		
10	QPSK	1	1	23.22	23.12	23.03	24.0	0.0
Channel				166300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				836.5	838.5	840.5		
5	QPSK	1	1	23.05	23.05	23.20	24.0	0.0

n7 Ant 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	23.29	23.32	23.30	24.0	0.0
20	PI2 BPSK	1	53	23.27	23.54	23.41		
20	PI2 BPSK	1	104	23.41	23.34	23.30		
20	PI2 BPSK	50	0	22.60	22.68	22.60	23.5	0.5
20	PI2 BPSK	50	28	23.30	23.31	23.27	24.0	0.0
20	PI2 BPSK	50	56	22.50	22.70	22.37	23.5	0.5
20	PI2 BPSK	100	0	22.55	22.67	22.47		
20	QPSK	1	1	23.37	23.55	23.17		
20	QPSK	1	53	23.37	23.46	23.41	24.0	0.0
20	QPSK	1	104	23.17	23.30	23.17		
20	QPSK	50	0	22.50	22.63	22.37	23.0	1.0
20	QPSK	50	28	23.37	23.46	23.30	24.0	0.0
20	QPSK	50	56	22.63	22.67	22.44	23.0	1.0
20	QPSK	100	0	22.37	22.65	22.57		
20	16QAM	1	1	22.37	22.30	22.37	23.0	1.0
20	64QAM	1	1	20.76	20.78	20.75	21.5	2.5
20	256QAM	1	1	19.10	19.20	19.07	19.5	4.5
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.42	23.44	23.50	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.33	23.25	23.22	24.0	0.0
Channel				500600	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.32	23.25	23.15	24.0	0.0

n7 Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	22.85	22.89	22.87	24.0	0.0
20	PI2 BPSK	1	53	23.12	22.98	23.04		
20	PI2 BPSK	1	104	22.80	22.80	22.99		
20	PI2 BPSK	50	0	22.44	22.50	22.53	23.5	0.5
20	PI2 BPSK	50	28	23.11	23.06	22.99	24.0	0.0
20	PI2 BPSK	50	56	22.35	22.44	22.54	23.5	0.5
20	PI2 BPSK	100	0	22.44	22.45	22.48		
20	QPSK	1	1	23.07	23.14	23.10		
20	QPSK	1	53	23.11	23.05	22.93	24.0	0.0
20	QPSK	1	104	22.79	22.85	22.99		
20	QPSK	50	0	22.02	21.96	21.90	23.0	1.0
20	QPSK	50	28	22.83	23.07	22.89	24.0	0.0
20	QPSK	50	56	21.88	21.96	21.78	23.0	1.0
20	QPSK	100	0	21.78	21.96	21.90		
20	16QAM	1	1	21.82	21.69	21.78	23.0	1.0
20	64QAM	1	1	20.35	20.19	20.43	21.5	2.5
20	256QAM	1	1	19.01	18.88	18.99	19.5	4.5
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.87	23.10	22.99	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.87	22.89	22.91	24.0	0.0
Channel				500600	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.88	22.81	22.89	24.0	0.0



n66 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.			
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	22.83	22.78	22.81	24.0	0.0	
40	PI2 BPSK	1	108	22.87	22.98	22.99			
40	PI2 BPSK	1	214	22.74	22.76	22.85			
40	PI2 BPSK	108	0	22.31	22.45	22.33	24.0	0.0	
40	PI2 BPSK	108	54	22.97	23.05	22.86	24.0	0.0	
40	PI2 BPSK	108	108	22.18	22.36	22.36	24.0	0.0	
40	PI2 BPSK	216	0	22.17	22.52	22.25			
40	QPSK	1	1	22.57	22.71	22.44			
40	QPSK	1	108	22.86	23.06	23.00	24.0	0.0	
40	QPSK	1	214	22.73	22.70	22.81			
40	QPSK	108	0	21.77	21.82	21.57			
40	QPSK	108	54	23.27	23.30	23.18	24.0	0.0	
40	QPSK	108	108	21.71	21.65	21.62	24.0	0.0	
40	QPSK	216	0	22.09	22.17	22.11			
40	16QAM	1	1	21.12	21.17	21.33			
40	64QAM	1	1	19.29	19.79	19.62	24.0	0.0	
40	256QAM	1	1	18.34	18.34	18.13	24.0	0.0	
Channel				346000	349000	352000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1730	1745	1770			
20	QPSK	1	1	22.75	22.81	22.69	24.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
15	QPSK	1	1	22.85	22.54	22.82	24.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1713	1745	1773			
10	QPSK	1	1	22.91	22.85	22.81	24.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.83	22.72	22.69	24.0	0.0	

n66 Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.			
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	22.90	22.83	22.85	24.0	0.0	
40	PI2 BPSK	1	108	22.85	23.01	23.00			
40	PI2 BPSK	1	214	22.77	22.79	22.88			
40	PI2 BPSK	108	0	22.32	22.49	22.35	23.5	0.5	
40	PI2 BPSK	108	54	23.01	23.03	22.85	24.0	0.0	
40	PI2 BPSK	108	108	22.21	22.35	22.34	23.5	0.5	
40	PI2 BPSK	216	0	22.22	22.48	22.23			
40	QPSK	1	1	23.01	23.07	23.00			
40	QPSK	1	108	23.01	23.06	23.01	24.0	0.0	
40	QPSK	1	214	22.69	22.72	22.62			
40	QPSK	108	0	21.75	21.82	21.52			
40	QPSK	108	54	22.99	23.01	22.82	24.0	0.0	
40	QPSK	108	108	21.75	21.86	21.64	23.0	1.0	
40	QPSK	216	0	21.88	21.97	21.88			
40	16QAM	1	1	21.16	21.22	21.32			
40	64QAM	1	1	19.33	19.77	19.62	21.5	2.5	
40	256QAM	1	1	18.12	18.20	18.12	19.5	4.5	
Channel				346000	349000	352000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1730	1745	1770			
20	PI2 BPSK	1	1	22.89	22.88	22.63	24.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
15	PI2 BPSK	1	1	22.56	22.66	22.92	24.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1713	1745	1773			
10	PI2 BPSK	1	1	22.89	22.85	22.83	24.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	PI2 BPSK	1	1	23.03	23.01	22.80	24.0	0.0	



n77 Ant 5 DFT-30									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F/Freq. (dBm)	Power High Ch. F/Freq. (dBm)	Power Txp. Ch. F/Freq. (dBm)	Time-up time (ms)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PB-EPSC	1	1	23.12	23.32	23.32			
100	PB-EPSC	1	137	23.32	23.33	23.31	24.0	0.0	
100	PB-EPSC	1	271	23.20	23.11	23.10			
100	PB-EPSC	135	0	22.89	22.78	22.67	23.5	0.5	
100	PB-EPSC	135	60	23.31	23.42	23.34	24.0	0.0	
100	PB-EPSC	135	134	22.87	22.71	22.60	23.5	0.5	
100	PB-EPSC	271	0	22.28	22.71	22.62			
100	QPSK	1	1	23.20	23.48	23.21			
100	QPSK	1	137	23.21	23.42	23.20	24.0	0.0	
100	QPSK	1	271	23.20	23.32	23.20			
100	QPSK	135	0	22.89	23.28	22.81	24.0	0.0	
100	QPSK	135	60	23.37	23.35	23.20	24.0	0.0	
100	QPSK	135	134	22.84	22.33	22.25	23.0	1.0	
100	16QAM	1	1	21.43	21.09	21.20	22.0	2.0	
100	16QAM	1	1	20.24	20.76	20.77	21.4	2.2	
100	256QAM	1	1	19.01	18.88	19.00	19.5	4.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.39	23.33	23.33	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.20	23.21	23.10	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.22	23.21	23.24	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.21	23.24	23.23	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.21	23.30	23.22	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.11	23.30	23.14	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.17	21.31	21.41	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.44	21.30	21.22	24.0	0.0	

n77 Ant 5 DFT-15									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F/Freq. (dBm)	Power High Ch. F/Freq. (dBm)	Power Txp. Ch. F/Freq. (dBm)	Time-up time (ms)	MFR (dB)	
Channel									
Frequency (MHz)									
50	PB-EPSC	1	1	23.07	23.15	23.14			
50	PB-EPSC	1	135	23.16	23.28	23.16	24.0	0.0	
50	PB-EPSC	1	269	23.18	23.09	23.08			
50	PB-EPSC	135	0	22.68	22.73	22.63	23.5	0.5	
50	PB-EPSC	135	60	23.08	23.40	23.30	24.0	0.0	
50	PB-EPSC	135	130	22.66	22.69	22.60	23.5	0.5	
50	PB-EPSC	271	0	22.55	22.69	22.68			
50	QPSK	1	1	23.18	23.45	23.18			
50	QPSK	1	135	23.18	23.28	23.15	24.0	0.0	
50	QPSK	1	269	23.18	23.22	23.18			
50	QPSK	135	0	22.78	23.24	22.78	24.0	0.0	
50	QPSK	135	60	23.08	23.32	23.15	24.0	0.0	
50	QPSK	135	130	22.62	22.30	22.27	23.0	1.0	
50	16QAM	1	1	21.41	21.07	21.16	23.0	1.0	
50	16QAM	1	1	20.27	20.72	20.74	21.5	2.2	
50	256QAM	1	1	19.06	18.83	18.97	19.5	4.2	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.08	23.10	23.10	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.08	23.10	23.10	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.08	23.10	23.10	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.00	22.15	22.20	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.00	23.00	23.00	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.00	23.10	23.20	24.0	0.0	

Par27Q n77_FCC DFT-30									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F/Freq. (dBm)	Power High Ch. F/Freq. (dBm)	Power Txp. Ch. F/Freq. (dBm)	Time-up time (ms)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PB-EPSC	1	1						
100	PB-EPSC	1	137				24.0	0.0	
100	PB-EPSC	1	271						
100	PB-EPSC	135	0				23.5	0.5	
100	PB-EPSC	135	60				24.0	0.0	
100	PB-EPSC	135	134				23.5	0.5	
100	PB-EPSC	271	0						
100	QPSK	1	1						
100	QPSK	1	137				24.0	0.0	
100	QPSK	1	271						
100	QPSK	135	0				24.0	0.0	
100	QPSK	135	60				24.0	0.0	
100	QPSK	135	134				23.0	1.0	
100	16QAM	1	1				23.0	1.0	
100	16QAM	1	1				21.5	2.2	
100	256QAM	1	1				19.5	4.2	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.00	23.00	23.00	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.00	23.00	23.00	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.78	23.00	22.93	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.80	23.00	22.87	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.77	23.00	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.78	23.00	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.78	23.00	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.78	23.00	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.78	23.00	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.78	23.00	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.78	23.00	22.82	24.0	0.0	



Par27Q n77 Ant 5 DFT-15								
RF [MHz]	Modulation	RB Size	RB Offset	Power Line Ch. Freq. [MHz]	Power Monitor Ch. Freq. [MHz]	Power Tap Ch. Freq. [MHz]	Time-up time (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
30	PSK	1	1	23.14	23.13	23.14	24.0	0.0
30	PSK	1	130	23.13	23.24	23.14		
30	PSK	1	-104	23.16	23.06	23.07		
30	PSK	135	0	22.92	22.79	22.80	23.5	0.5
30	PSK	135	66	23.07	23.25	23.30	24.0	0.5
30	PSK	135	130	22.92	22.85	22.81	23.5	0.5
30	PSK	135	0	22.66	22.69	22.69		
30	QPSK	1	1	23.15	23.43	23.12		
30	QPSK	1	130	23.12	23.24	23.11	24.0	0.0
30	QPSK	1	-104	23.18	23.27	23.17		
30	QPSK	135	0	23.16	23.24	23.1	23.0	1.0
30	QPSK	135	66	23.05	23.23	23.17	23.0	0.5
30	QPSK	135	130	22.95	22.28	22.32	23.0	1.0
30	QPSK	135	0	22.77	22.65	22.31		
30	16QAM	1	1	23.37	23.92	23.13	23.0	1.0
30	16QAM	1	1	23.83	23.71	23.32	23.5	2.5
30	256QAM	1	1	18.92	18.82	18.33	18.5	4.5
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.09	23.39	23.28	24.0	0.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.06	23.36	23.26	24.0	0.5
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.04	23.39	23.31	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.03	23.39	23.29	24.0	0.5

n77 Ant 5 HPUE DFT-30								
RF [MHz]	Modulation	RB Size	RB Offset	Power Line Ch. Freq. [MHz]	Power Monitor Ch. Freq. [MHz]	Power Tap Ch. Freq. [MHz]	Time-up time (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PSK	1	1	26.21	26.12	26.12	27.0	0.0
100	PSK	1	137	26.02	26.12	26.23		
100	PSK	1	-271	26.12	26.25	26.12		
100	PSK	135	0	26.39	26.10	26.11	26.5	0.5
100	PSK	135	66	26.34	26.14	26.23	27.0	0.5
100	PSK	135	138	26.01	26.04	26.31	26.5	0.5
100	PSK	135	0	25.90	25.16	25.64		
100	QPSK	1	1	26.12	26.46	26.13		
100	QPSK	1	137	26.04	26.12	26.31	27.0	0.0
100	QPSK	1	-271	26.13	26.23	26.23		
100	QPSK	135	0	26.36	26.14	26.14	26.8	1.0
100	QPSK	135	66	26.33	26.13	26.13	27.0	0.5
100	QPSK	135	138	26.03	26.41	26.22	26.0	1.0
100	QPSK	135	0	25.91	25.63	25.41		
100	16QAM	1	1	26.23	26.30	24.21	26.0	1.0
100	64QAM	1	1	22.06	22.46	22.67	24.5	2.5
100	256QAM	1	1	21.96	21.68	21.55	22.5	4.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	26.41	26.36	25.27	27.0	0.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	26.23	26.12	26.30	27.0	0.5
Channel								
Frequency (MHz)								
60	QPSK	1	1	26.23	26.22	26.14	27.0	0.5
Channel								
Frequency (MHz)								
50	QPSK	1	1	26.23	26.23	25.11	27.0	0.5
Channel								
Frequency (MHz)								
40	QPSK	1	1	26.21	26.14	26.22	27.0	0.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	26.21	26.16	25.22	27.0	0.5
Channel								
Frequency (MHz)								
15	QPSK	1	1	26.20	26.24	25.13	27.0	0.5
Channel								
Frequency (MHz)								
10	QPSK	1	1	26.11	26.23	26.32	27.0	0.5

n77 Ant 5 HPUE DFT-15								
RF [MHz]	Modulation	RB Size	RB Offset	Power Line Ch. Freq. [MHz]	Power Monitor Ch. Freq. [MHz]	Power Tap Ch. Freq. [MHz]	Time-up time (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
30	PSK	1	1	26.13	26.13	26.13	27.0	0.0
30	PSK	1	135	26.02	26.02	26.10		
30	PSK	1	-268	26.09	26.10	26.10		
30	PSK	135	0	26.37	26.08	26.08	26.5	0.5
30	PSK	135	66	26.30	26.31	26.10	27.0	0.5
30	PSK	135	135	26.08	26.00	26.22	26.5	0.5
30	PSK	135	0	25.87	25.21	25.00		
30	QPSK	1	1	26.09	26.41	26.08		
30	QPSK	1	135	26.04	26.01	26.01	27.0	0.0
30	QPSK	1	-268	26.10	26.13	26.21		
30	QPSK	135	0	26.30	26.30	26.40	26.8	1.0
30	QPSK	135	66	26.30	26.20	26.08	27.0	0.0
30	QPSK	135	135	26.02	26.30	26.30	26.0	1.0
30	QPSK	135	0	25.87	25.30	25.30		
30	16QAM	1	1	24.22	24.32	24.20	26.0	1.0
30	64QAM	1	1	22.64	22.61	22.64	24.5	2.5
30	256QAM	1	1	21.52	21.68	21.53	22.5	4.5
Channel								
Frequency (MHz)								
40	QPSK	1	1	26.10	26.40	26.00	27.0	0.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	26.32	26.23	26.16	27.0	0.5
Channel								
Frequency (MHz)								
15	QPSK	1	1	26.30	26.20	26.21	27.0	0.5
Channel								
Frequency (MHz)								
10	QPSK	1	1	26.32	26.31	26.10	27.0	0.5



Par27Q n77_FCC HPUE DFT-30								
SR [MHz]	Modulation	RB Size	RB Offset	Power Line Ch./Freq. (dBm)	Power Monitor Ch./Freq. (dBm)	Power High Ch./Freq. (dBm)	Time-up time (min)	MFR (dB)
Channel								
Frequency (MHz)								
100	F3D BPSK	1	1	25.95	25.95	25.97		
100	F3D BPSK	1	137	25.92			27.0	0.0
100	F3D BPSK	1	271	25.92				
100	F3D BPSK	135	0	25.95			26.5	0.5
100	F3D BPSK	135	66	25.92			27.0	0.5
100	F3D BPSK	135	135	25.92			26.5	0.5
100	F3D BPSK	135	0	25.97				
100	QPSK	1	1	25.92				
100	QPSK	1	137	25.92			27.0	0.0
100	QPSK	1	271	25.92				
100	QPSK	135	0	25.92			27.0	0.5
100	QPSK	135	66	25.92			26.0	1.0
100	QPSK	135	135	25.92			26.0	1.0
100	16QAM	1	1	24.21			24.5	2.5
100	16QAM	1	1	22.72			22.5	4.2
100	256QAM	1	1	21.48			21.5	4.2
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.95	25.97	25.98	27.0	0.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	26.10	26.17	26.49	27.0	0.5
Channel								
Frequency (MHz)								
75	QPSK	1	1	26.05	26.20	26.49	27.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	24.93	25.19	25.59	27.0	0.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	26.07	26.17	26.49	27.0	0.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.92	25.92	25.93	27.0	0.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.10	25.17	25.47	27.0	0.5
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.05	25.15	25.37	27.0	0.5
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.95	25.05	25.27	27.0	0.5
Channel								
Frequency (MHz)								
15	QPSK	1	1	25.04	25.19	25.31	27.0	0.5
Channel								
Frequency (MHz)								
15	QPSK	1	1	26.08	26.17	26.49	27.0	0.5

Par27Q n77 Ant 5 HPUE DFT-15								
SR [MHz]	Modulation	RB Size	RB Offset	Power Line Ch./Freq. (dBm)	Power Monitor Ch./Freq. (dBm)	Power High Ch./Freq. (dBm)	Time-up time (min)	MFR (dB)
Channel								
Frequency (MHz)								
50	F3D BPSK	1	1	25.94	25.94	25.97		
50	F3D BPSK	1	135	25.96	26.04	26.16	27.0	0.0
50	F3D BPSK	1	268	25.97	26.15	26.28		
50	F3D BPSK	135	0	25.95	26.04	26.05	27.0	0.0
50	F3D BPSK	135	66	25.95	26.05	26.13	27.0	0.5
50	F3D BPSK	135	135	25.95	26.09	26.27	27.0	0.0
50	F3D BPSK	135	0	25.95	26.06	26.06		
50	QPSK	1	1	26.07	26.17	26.09		
50	QPSK	1	137	26.07	26.14	26.04	27.0	0.0
50	QPSK	1	269	26.06	26.17	26.17		
50	QPSK	135	0	26.16	26.16	26.04		
50	QPSK	135	66	26.16	26.17	26.05	27.0	0.5
50	QPSK	135	135	26.32	26.32	26.16	26.0	1.0
50	16QAM	1	1	24.20	24.30	24.19	27.0	0.0
50	16QAM	1	1	22.61	22.77	22.62	27.0	0.5
50	256QAM	1	1	21.46	21.68	21.51	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	26.10	26.10	26.17	27.0	0.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	26.26	26.26	26.19	27.0	0.5
Channel								
Frequency (MHz)								
15	QPSK	1	1	26.28	26.31	26.15	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	26.01	26.01	24.14	27.0	0.5

n78 Ant 5 DFT-30								
SR [MHz]	Modulation	RB Size	RB Offset	Power Line Ch./Freq. (dBm)	Power Monitor Ch./Freq. (dBm)	Power High Ch./Freq. (dBm)	Time-up time (min)	MFR (dB)
Channel								
Frequency (MHz)								
100	F3D BPSK	1	1		25.94			
100	F3D BPSK	1	137		25.94		24.0	0.0
100	F3D BPSK	1	271		25.95			
100	F3D BPSK	135	0		25.17		25.5	0.5
100	F3D BPSK	135	66		25.21		24.5	0.5
100	F3D BPSK	135	135		25.24		23.5	0.5
100	F3D BPSK	135	0		25.25			
100	QPSK	1	1		25.25			
100	QPSK	1	137		25.21		24.0	0.0
100	QPSK	1	271		25.22			
100	QPSK	135	0		25.22		26.0	1.0
100	QPSK	135	66		25.24		25.0	0.0
100	QPSK	135	135		25.25		23.0	1.0
100	16QAM	1	1		22.40		23.0	1.0
100	16QAM	1	1		22.24		21.5	2.5
100	256QAM	1	1		21.52		19.5	4.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.92	25.91	25.93	26.0	0.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	26.24	26.24	26.04	26.0	0.5
Channel								
Frequency (MHz)								
75	QPSK	1	1	26.12	26.22	26.10	26.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	25.24	25.33	25.21	24.5	0.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	25.25	25.25	25.12	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	26.12	26.22	26.10	24.5	0.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.10	25.14	25.04	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.05	25.05	24.94	23.5	0.5
Channel								
Frequency (MHz)								
15	QPSK	1	1	25.05	25.10	24.95	24.0	0.5
Channel								
Frequency (MHz)								
10	QPSK	1	1	25.33	25.38	25.38	24.5	0.5







n78 Ant 5 HPUE DFT-30									
RF (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. (Freq.)	Power Monitor Ch. (Freq.)	Power High Ch. (Freq.)	Time-up time (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PFD BPSK	1	1	25.25	25.25	25.25			
100	PFD BPSK	1	137	25.25	25.25	25.25	27.0	0.0	
100	PFD BPSK	1	271	25.25	25.25	25.25			
100	PFD BPSK	135	3	25.41	25.41	25.41			
100	PFD BPSK	135	69	25.41	25.41	25.41	27.0	0.0	
100	PFD BPSK	135	138	25.41	25.41	25.41	26.5	0.5	
100	PFD BPSK	135	8	25.44	25.44	25.44			
100	QPSK	1	1	25.78	25.78	25.78			
100	QPSK	1	137	25.78	25.78	25.78	27.0	0.0	
100	QPSK	1	271	25.78	25.78	25.78			
100	QPSK	135	3	25.94	25.94	25.94			
100	QPSK	135	69	25.94	25.94	25.94	27.0	0.0	
100	QPSK	135	138	25.94	25.94	25.94	26.0	1.0	
100	QPSK	135	8	25.97	25.97	25.97			
100	15QAM	1	1	26.84	26.84	26.84			
100	15QAM	1	137	26.84	26.84	26.84	26.5	2.5	
100	25QAM	1	1	21.87	21.87	21.87	22.5	4.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.99	24.99	24.99	27.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.38	25.38	25.38	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.05	25.05	25.05	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.70	25.70	25.70	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.09	25.09	25.09	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.73	24.73	24.73	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.78	24.78	24.78	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.18	24.18	24.18	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.92	23.92	23.92	27.0	0.0	

n78 Ant 5 HPUE DFT-15									
RF (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. (Freq.)	Power Monitor Ch. (Freq.)	Power High Ch. (Freq.)	Time-up time (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
50	PFD BPSK	1	1	25.25	25.25	25.25			
50	PFD BPSK	1	137	25.45	25.45	25.45	27.0	0.0	
50	PFD BPSK	1	269	25.25	25.25	25.25			
50	PFD BPSK	135	3	25.40	25.38	25.42	26.5	0.5	
50	PFD BPSK	135	69	25.41	25.37	25.41	27.0	0.0	
50	PFD BPSK	135	138	25.42	25.44	25.40	26.5	0.5	
50	PFD BPSK	135	8	25.34	25.45	25.35			
50	QPSK	1	1	25.85	25.75	25.75			
50	QPSK	1	137	25.85	25.74	25.71	27.0	0.0	
50	QPSK	1	269	25.74	25.25	25.55			
50	QPSK	135	3	25.34	25.46	25.35	26.5	0.5	
50	QPSK	135	69	25.34	25.37	25.43	27.0	0.0	
50	QPSK	135	138	25.44	25.51	25.45	26.0	1.0	
50	QPSK	135	8	25.32	25.47	25.42			
50	15QAM	1	1	24.45	24.61	24.54	26.0	1.0	
50	15QAM	1	137	24.75	24.86	24.82	24.5	2.5	
50	25QAM	1	1	21.74	21.84	21.87	22.5	4.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.93	24.93	24.93	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.28	25.27	25.43	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.23	25.20	25.43	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.24	24.24	24.45	27.0	0.0	

Part27Q n78 HPUE DFT-30									
RF (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. (Freq.)	Power Monitor Ch. (Freq.)	Power High Ch. (Freq.)	Time-up time (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PFD BPSK	1	1	25.14	25.14	25.14			
100	PFD BPSK	1	137	25.20	25.20	25.20	27.0	0.0	
100	PFD BPSK	1	261	25.14	25.14	25.14			
100	PFD BPSK	135	3	25.20	25.20	25.20	26.5	0.5	
100	PFD BPSK	135	69	25.21	25.21	25.21	27.0	0.0	
100	PFD BPSK	135	138	25.21	25.21	25.21	26.5	0.5	
100	PFD BPSK	135	8	25.24	25.24	25.24			
100	QPSK	1	1	25.71	25.71	25.71			
100	QPSK	1	137	25.71	25.71	25.71	27.0	0.0	
100	QPSK	1	261	25.71	25.71	25.71			
100	QPSK	135	3	25.74	25.74	25.74	26.5	0.5	
100	QPSK	135	69	25.74	25.74	25.74	27.0	0.0	
100	QPSK	135	138	25.74	25.74	25.74	26.0	1.0	
100	QPSK	135	8	25.77	25.77	25.77			
100	15QAM	1	1	24.67	24.67	24.67	26.0	1.0	
100	15QAM	1	137	24.77	24.77	24.77	24.5	2.5	
100	25QAM	1	1	21.72	21.72	21.72	22.5	4.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.00	25.00	25.00	27.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.30	25.29	25.47	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.28	25.24	25.47	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.41	25.39	25.43	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.37	25.31	25.46	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.30	25.24	25.47	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.37	25.31	25.46	27.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.35	25.31	25.48	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.41	24.43	24.46	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.23	24.24	24.46	27.0	0.0	

Part27Q n78 Ant 5 HPUE DFT-15									
RF (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. (Freq.)	Power Monitor Ch. (Freq.)	Power High Ch. (Freq.)	Time-up time (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
50	PFD BPSK	1	1	25.22	25.22	25.22			
50	PFD BPSK	1	137	25.44	25.42	25.42	27.0	0.0	
50	PFD BPSK	1	261	25.22	25.22	25.43			
50	PFD BPSK	135	3	25.20	25.20	25.44	26.5	0.5	
50	PFD BPSK	135	69	25.24	25.20	25.42	27.0	0.0	
50	PFD BPSK	135	138	25.42	25.47	25.42	26.5	0.5	
50	PFD BPSK	135	8	25.24	25.20	25.32			
50	QPSK	1	1	25.67	25.74	25.67			
50	QPSK	1	137	25.67	25.67	25.67	27.0	0.0	
50	QPSK	1	261	25.67	25.67	25.67			
50	QPSK	135	3	25.74	25.74	25.74	26.5	0.5	
50	QPSK	135	69	25.74	25.74	25.74	27.0	0.0	
50	QPSK	135	138	25.74	25.74	25.74	26.0	1.0	
50	QPSK	135	8	25.77	25.77	25.77			
50	15QAM	1	1	24.45	24.60	24.52	26.0	1.0	
50	15QAM	1	137	24.75	24.84	24.82	24.5	2.5	
50	25QAM	1	1	21.77	21.83	21.84	22.5	4.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.21	25.20	25.41	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.21	25.20	25.42	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.24	25.22	25.42	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.24	24.24	24.44	27.0	0.0	



n66 Ant4 For ENDC-Head									
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				349000	349000	350000			
Frequency (MHz)				1745	1745	1760			
40	Pi2 BPSK	1	1	16.59	16.77	16.73			
40	Pi2 BPSK	1	108	16.82	16.74	16.82	18.0	0.0	
40	Pi2 BPSK	1	214	16.24	16.46	16.10			
40	Pi2 BPSK	108	0	16.83	16.82	16.84	18.0	0.0	
40	Pi2 BPSK	108	54	16.88	16.85	16.87	18.0	0.0	
40	Pi2 BPSK	108	108	16.83	16.23	16.17			
40	Pi2 BPSK	216	0	16.34	16.33	16.73			
40	QPSK	1	1	16.96	16.97	16.90			
40	QPSK	1	108	16.86	16.89	16.70	18.0	0.0	
40	QPSK	1	214	16.33	16.37	16.24			
40	QPSK	108	0	16.82	16.83	16.71	18.0	0.0	
40	QPSK	108	54	16.79	16.87	16.77	18.0	0.0	
40	QPSK	108	108	16.41	16.26	16.17			
40	QPSK	216	0	16.45	16.38	16.66			
40	16QAM	1	1	16.81	16.82	16.86	18.0	0.0	
40	64QAM	1	1	16.48	16.56	16.83	18.0	0.0	
40	256QAM	1	1	15.94	15.95	16.08	18.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	16.53	16.98	16.97	15.0	0.0	
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	16.03	16.02	16.01	13.0	0.0	
Channel				342000	349000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	16.85	16.88	16.94	13.0	0.0	
Channel				342000	349000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1742.5	1745	1777.5			
5	QPSK	1	1	16.66	16.73	16.85	18.0	0.0	

Reduced Power									
n7 Ant4 For ENDC-Head									
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				509000	507000	510000			
Frequency (MHz)				2545	2535	2560			
Channel				509000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	Pi2 BPSK	1	1	13.42	13.48	13.41			
20	Pi2 BPSK	1	53	13.42	13.45	13.36	14.0	0.0	
20	Pi2 BPSK	1	104	13.42	13.46	13.37			
20	Pi2 BPSK	50	0	13.39	13.48	13.40	14.0	0.0	
20	Pi2 BPSK	50	28	13.41	13.45	13.35	14.0	0.0	
20	Pi2 BPSK	50	56	13.36	13.41	13.28	14.0	0.0	
20	Pi2 BPSK	100	0	13.12	13.22	13.09	14.0	0.0	
20	QPSK	1	1	13.48	13.53	13.45			
20	QPSK	1	53	13.44	13.49	13.42	14.0	0.0	
20	QPSK	1	104	13.45	13.49	13.41			
20	QPSK	50	0	13.44	13.51	13.43	14.0	0.0	
20	QPSK	50	28	13.44	13.49	13.39	14.0	0.0	
20	QPSK	50	56	13.40	13.46	13.34	14.0	0.0	
20	QPSK	100	0	13.18	13.26	13.14	14.0	0.0	
20	16QAM	1	1	13.16	13.30	13.40	14.0	0.0	
20	64QAM	1	1	13.22	13.33	13.36	14.0	0.0	
20	256QAM	1	1	13.27	13.13	13.16	14.0	0.0	
Channel				507000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	13.36	13.40	13.34	14.0	0.0	
Channel				501000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	13.36	13.41	13.33	14.0	0.0	
Channel				500900	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2509.5	2535	2567.5			
5	QPSK	1	1	13.33	13.43	13.30	14.0	0.0	

n5 Ant0 For ENDC-Sensor&Hotspot									
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				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	Pi2 BPSK	1	1	21.15	21.27	21.18			
20	Pi2 BPSK	1	53	21.35	21.38	21.07	22.0	0.0	
20	Pi2 BPSK	1	104	21.33	20.91	20.95			
20	Pi2 BPSK	50	0	21.27	21.41	21.17	22.0	0.0	
20	Pi2 BPSK	50	28	21.26	21.07	21.23	22.0	0.0	
20	Pi2 BPSK	50	56	21.04	21.17	21.14	22.0	0.0	
20	Pi2 BPSK	100	0	20.83	20.91	20.74			
20	QPSK	1	1	21.36	21.48	21.24			
20	QPSK	1	53	21.13	21.08	21.15	22.0	0.0	
20	QPSK	1	104	20.89	21.11	21.12			
20	QPSK	50	0	20.79	20.92	20.88	22.0	0.0	
20	QPSK	50	28	21.33	21.44	21.28	22.0	0.0	
20	QPSK	50	56	21.33	21.12	21.20	22.0	0.0	
20	QPSK	100	0	20.95	21.04	21.10			
20	16QAM	1	1	20.95	20.80	20.86	22.0	0.0	
20	64QAM	1	1	20.25	20.31	20.28	21.5	0.5	
20	256QAM	1	1	18.11	18.21	18.16	19.5	2.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	21.11	21.08	21.16	22.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				828	836.5	844			
10	QPSK	1	1	21.16	21.15	21.19	22.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	21.05	21.14	21.07	22.0	0.0	



n66 Ant0 For ENDC-Sensor										
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				344000	349000	352000				
Frequency (MHz)				1720	1745	1760				
40	PI2 BPSK	1	1	16.40	16.54	16.37				
40	PI2 BPSK	1	108	16.36	16.50	16.51	18.0	0.0		
40	PI2 BPSK	1	214	16.26	16.45	16.37				
40	PI2 BPSK	108	0	16.62	16.52	16.46	18.0	0.0		
40	PI2 BPSK	108	54	16.53	16.52	16.37	18.0	0.0		
40	PI2 BPSK	108	108	16.69	16.48	16.84				
40	PI2 BPSK	216	0	16.72	16.49	16.71	18.0	0.0		
40	QPSK	1	1	16.52	16.66	16.61				
40	QPSK	1	108	16.52	16.51	16.52	18.0	0.0		
40	QPSK	1	214	16.17	16.48	16.14				
40	QPSK	108	0	16.24	16.50	16.01	18.0	0.0		
40	QPSK	108	54	16.50	16.52	16.33	18.0	0.0		
40	QPSK	108	108	16.23	16.49	16.14				
40	QPSK	216	0	16.36	16.50	16.38	18.0	0.0		
40	16QAM	1	1	16.45	16.48	16.46	18.0	0.0		
40	64QAM	1	1	16.38	16.41	16.39	18.0	0.0		
40	256QAM	1	1	16.43	16.45	16.41	18.0	0.0		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1720	1745	1770	(dB)	(dB)		
20	QPSK	1	1	16.40	16.42	16.38	18.0	0.0		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1717.5	1745	1772.5	(dB)	(dB)		
15	QPSK	1	1	16.36	16.41	16.41	18.0	0.0		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1715	1745	1775	(dB)	(dB)		
10	QPSK	1	1	16.38	16.41	16.38	18.0	0.0		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1712.5	1745	1777.5	(dB)	(dB)		
5	QPSK	1	1	16.42	16.43	16.39	18.0	0.0		

n66 Ant0 For ENDC-Hotspot										
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				344000	349000	352000				
Frequency (MHz)				1720	1745	1760				
40	PI2 BPSK	1	1	15.57	15.72	15.55				
40	PI2 BPSK	1	108	15.56	15.69	15.70	16.5	0.0		
40	PI2 BPSK	1	214	15.43	15.64	15.56				
40	PI2 BPSK	108	0	15.90	15.70	15.65	16.5	0.0		
40	PI2 BPSK	108	54	15.75	15.71	15.65	16.5	0.0		
40	PI2 BPSK	108	108	14.90	15.65	15.04				
40	PI2 BPSK	216	0	14.91	15.67	14.90				
40	QPSK	1	1	15.70	15.75	15.70				
40	QPSK	1	108	15.71	15.72	15.72	16.5	0.0		
40	QPSK	1	214	16.34	15.68	15.33				
40	QPSK	108	0	14.44	15.69	14.20	16.5	0.0		
40	QPSK	108	54	15.70	15.71	15.52	16.5	0.0		
40	QPSK	108	108	14.42	15.69	14.35				
40	QPSK	216	0	14.60	15.68	14.56	16.5	0.0		
40	16QAM	1	1	15.63	15.68	15.65	16.5	0.0		
40	64QAM	1	1	15.55	15.59	15.56	16.5	0.0		
40	256QAM	1	1	15.62	15.68	15.62	16.5	0.0		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1720	1745	1770	(dB)	(dB)		
20	QPSK	1	1	15.59	15.63	15.59	16.5	0.0		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1717.5	1745	1772.5	(dB)	(dB)		
15	PI2 BPSK	1	1	15.60	15.62	15.60	16.5	0.0		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1715	1745	1775	(dB)	(dB)		
10	PI2 BPSK	1	1	15.55	15.60	15.58	16.5	0.0		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1712.5	1745	1777.5	(dB)	(dB)		
5	PI2 BPSK	1	1	15.56	15.60	15.56	16.5	0.0		

n66 Ant0 For ENDC-Handheld										
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				344000	349000	352000				
Frequency (MHz)				1720	1745	1760				
40	PI2 BPSK	1	1	20.65	20.57	20.59				
40	PI2 BPSK	1	108	20.57	20.73	20.75	21.5	0.0		
40	PI2 BPSK	1	214	20.51	20.55	20.61				
40	PI2 BPSK	108	0	20.96	20.22	20.69	21.5	0.0		
40	PI2 BPSK	108	54	20.75	20.76	20.61	21.5	0.0		
40	PI2 BPSK	108	108	19.98	20.08	20.08				
40	PI2 BPSK	216	0	19.98	20.20	19.95				
40	QPSK	1	1	20.75	20.62	20.76				
40	QPSK	1	108	20.76	20.78	20.76	21.5	0.0		
40	QPSK	1	214	20.43	20.47	20.37				
40	QPSK	108	0	19.50	19.56	19.27	21.5	0.0		
40	QPSK	108	54	20.72	20.75	20.66	21.5	0.0		
40	QPSK	108	108	20.65	20.67	20.64				
40	QPSK	216	0	20.53	20.69	20.54	21.5	0.0		
40	16QAM	1	1	20.57	20.67	20.55	21.5	0.0		
40	64QAM	1	1	20.62	20.51	20.55	21.5	0.0		
40	256QAM	1	1	18.65	18.58	18.64	19.5	2.0		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1720	1745	1770	(dB)	(dB)		
20	QPSK	1	1	20.61	20.68	20.64	21.5	0.0		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1717.5	1745	1772.5	(dB)	(dB)		
15	PI2 BPSK	1	1	20.62	20.60	20.63	21.5	0.0		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1715	1745	1775	(dB)	(dB)		
10	PI2 BPSK	1	1	20.63	20.70	20.63	21.5	0.0		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1712.5	1745	1777.5	(dB)	(dB)		
5	PI2 BPSK	1	1	20.64	20.68	20.62	21.5	0.0		



n66 Ant4 For ENDC-Sensor&Hotspot									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	18.45	18.46	18.41			
40	PI2 BPSK	1	108	18.34	18.47	18.33	20.0	0.0	
40	PI2 BPSK	1	214	17.97	18.16	17.84			
40	PI2 BPSK	108	0	18.57	18.52	18.29	20.0	0.0	
40	PI2 BPSK	108	54	18.42	18.36	18.37	20.0	0.0	
40	PI2 BPSK	108	108	18.22	17.90	17.92	20.0	0.0	
40	PI2 BPSK	216	0	18.04	18.04	18.44			
40	QPSK	1	1	18.56	18.59	18.52			
40	QPSK	1	108	18.37	18.42	18.43	20.0	0.0	
40	QPSK	1	214	18.00	18.08	17.97			
40	QPSK	108	0	18.55	18.58	18.39	20.0	0.0	
40	QPSK	108	54	18.62	18.76	18.65	20.0	0.0	
40	QPSK	108	108	18.09	17.98	17.91	20.0	0.0	
40	QPSK	216	0	18.15	18.12	18.36			
40	16QAM	1	1	18.28	18.19	18.36	20.0	0.0	
40	16QAM	1	1	18.21	18.26	18.30	20.0	0.0	
40	256QAM	1	1	17.67	17.63	17.76	19.5	0.5	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	18.44	18.44	18.42	21.5	0.0	
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	PI2 BPSK	1	1	18.43	18.48	18.41	21.5	0.0	
Channel				343000	349000	352000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	PI2 BPSK	1	1	18.42	18.48	18.41	21.5	0.0	
Channel				342000	349000	352000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	PI2 BPSK	1	1	18.46	18.47	18.39	21.5	0.0	

n7 Ant1 For Sensor&Hotspot									
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				502000	507000	512000			
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	15.35	15.48	15.39			
20	PI2 BPSK	1	53	15.38	15.42	15.32	16.5	0.0	
20	PI2 BPSK	1	104	15.32	15.54	15.39			
20	PI2 BPSK	50	0	15.39	15.47	15.32	16.5	0.0	
20	PI2 BPSK	50	26	15.38	15.34	15.31	16.5	0.0	
20	PI2 BPSK	50	56	15.44	15.44	15.48	16.5	0.0	
20	PI2 BPSK	100	0	15.38	15.31	15.42			
20	QPSK	1	1	15.44	15.61	15.54			
20	QPSK	1	53	15.57	15.56	15.37	16.5	0.0	
20	QPSK	1	104	15.31	15.40	15.40			
20	QPSK	50	0	15.52	15.59	15.37	16.5	0.0	
20	QPSK	50	26	15.42	15.58	15.52	16.5	0.0	
20	QPSK	50	56	15.42	15.31	15.45			
20	QPSK	100	0	15.23	15.24	15.41	16.5	0.0	
20	16QAM	1	1	15.33	15.35	15.42	16.5	0.0	
20	16QAM	1	1	15.54	15.49	15.38	16.5	0.0	
20	256QAM	1	1	15.51	15.34	15.55	16.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2517.5	2535	2552.5			
15	PI2 BPSK	1	1	15.41	15.38	15.44	16.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	PI2 BPSK	1	1	15.35	15.49	15.37	16.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	PI2 BPSK	1	1	15.44	15.35	15.42	16.5	0.0	

n7 Ant1 For ENDC-Handheld									
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				502000	507000	512000			
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	20.75	20.77	20.69			
20	PI2 BPSK	1	53	20.66	20.71	20.61	21.5	0.0	
20	PI2 BPSK	1	104	20.67	20.67	20.66			
20	PI2 BPSK	50	0	20.68	20.68	20.63	21.5	0.0	
20	PI2 BPSK	50	26	20.59	20.71	20.60	21.5	0.0	
20	PI2 BPSK	50	56	20.48	20.28	20.37	21.5	0.0	
20	PI2 BPSK	100	0	20.20	20.30	20.36			
20	QPSK	1	1	20.78	20.62	20.76			
20	QPSK	1	53	20.70	20.74	20.67	21.5	0.0	
20	QPSK	1	104	20.70	20.73	20.68			
20	QPSK	50	0	20.71	20.74	20.66	21.5	0.0	
20	QPSK	50	26	20.61	20.75	20.63	21.5	0.0	
20	QPSK	50	56	20.50	20.32	20.43			
20	QPSK	100	0	20.24	20.35	20.41	21.5	0.0	
20	16QAM	1	1	20.42	20.41	20.65	21.5	0.0	
20	16QAM	1	1	20.66	20.61	20.47	21.5	0.0	
20	256QAM	1	1	18.75	18.98	18.51	21.5	2.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2517.5	2535	2552.5			
15	PI2 BPSK	1	1	20.44	20.38	20.35	21.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	PI2 BPSK	1	1	20.31	20.38	20.33	21.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	PI2 BPSK	1	1	20.36	20.39	20.41	21.5	0.0	



n7 Ant4 For ENDC-Sensor									
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	Pi/2 BPSK	1	1	2510	2535	2560			
20	Pi/2 BPSK	1	53	13.77	13.86	13.65	14.5	0.0	
20	Pi/2 BPSK	1	104	13.66	13.84	13.77			
20	Pi/2 BPSK	50	0	13.76	13.90	13.73	14.5	0.0	
20	Pi/2 BPSK	50	28	13.86	13.86	13.59	14.5	0.0	
20	Pi/2 BPSK	50	56	13.83	13.85	13.84			
20	Pi/2 BPSK	100	0	13.54	13.82	13.85	14.5	0.0	
20	QPSK	1	1	13.90	13.93	13.56			
20	QPSK	1	53	13.92	13.85	13.57	14.5	0.0	
20	QPSK	1	104	13.86	13.79	13.74			
20	QPSK	50	0	13.79	13.78	13.82	14.5	0.0	
20	QPSK	50	28	13.86	13.87	13.85	14.5	0.0	
20	QPSK	50	56	13.84	13.75	13.75			
20	QPSK	100	0	13.64	13.71	13.79	14.5	0.0	
20	16QAM	1	1	13.78	13.78	13.81	14.5	0.0	
20	64QAM	1	1	13.61	13.75	13.71	14.5	0.0	
20	256QAM	1	1	13.77	13.65	13.69	14.5	0.0	
Channel									
Frequency (MHz)									
15	Pi/2 BPSK	1	1	2697.5	2535	2562.5			
15	Pi/2 BPSK	1	1	13.72	13.75	13.68	14.5	0.0	
Channel									
Frequency (MHz)									
10	Pi/2 BPSK	1	1	13.12	13.70	13.81	14.5	0.0	
Channel									
Frequency (MHz)									
5	Pi/2 BPSK	1	1	2502.5	2535	2567.5			
5	Pi/2 BPSK	1	1	13.88	13.85	13.79	14.5	0.0	

n7 Ant4 For ENDC-Hotspot									
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	Pi/2 BPSK	1	1	2410	2535	2560			
20	Pi/2 BPSK	1	53	13.42	13.48	13.41	14.0	0.0	
20	Pi/2 BPSK	1	104	13.42	13.46	13.37			
20	Pi/2 BPSK	50	0	13.39	13.48	13.40	14.0	0.0	
20	Pi/2 BPSK	50	28	13.41	13.45	13.35	14.0	0.0	
20	Pi/2 BPSK	50	56	13.36	13.41	13.28			
20	Pi/2 BPSK	100	0	13.12	13.22	13.09	14.0	0.0	
20	QPSK	1	1	13.46	13.53	13.46			
20	QPSK	1	53	13.44	13.49	13.42	14.0	0.0	
20	QPSK	1	104	13.45	13.49	13.41			
20	QPSK	50	0	13.44	13.51	13.43	14.0	0.0	
20	QPSK	50	28	13.44	13.49	13.39	14.0	0.0	
20	QPSK	50	56	13.40	13.46	13.34			
20	QPSK	100	0	13.18	13.26	13.14	14.0	0.0	
20	16QAM	1	1	13.16	13.30	13.40	14.0	0.0	
20	64QAM	1	1	13.22	13.33	13.36	14.0	0.0	
20	256QAM	1	1	13.27	13.13	13.15	14.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	2517.5	2535	2552.5			
15	QPSK	1	1	13.13	13.44	13.24	14.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.22	13.18	13.32	14.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	2502.5	2535	2567.5			
5	QPSK	1	1	13.18	13.15	13.21	14.0	0.0	

n7 Ant4 For ENDC-Handheld									
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	Pi/2 BPSK	1	1	2410	2535	2560			
20	Pi/2 BPSK	1	53	17.47	17.32	17.34	18.0	0.0	
20	Pi/2 BPSK	1	104	17.54	17.40	17.14			
20	Pi/2 BPSK	50	0	17.25	17.43	17.20	18.0	0.0	
20	Pi/2 BPSK	50	28	17.45	17.38	17.56	18.0	0.0	
20	Pi/2 BPSK	50	56	17.34	17.20	17.25			
20	Pi/2 BPSK	100	0	16.94	17.10	17.43	18.0	0.0	
20	QPSK	1	1	17.45	17.59	17.24			
20	QPSK	1	53	17.52	17.47	17.24	18.0	0.0	
20	QPSK	1	104	17.37	17.24	17.15			
20	QPSK	50	0	17.29	17.54	17.40	18.0	0.0	
20	QPSK	50	28	17.45	17.55	17.43	18.0	0.0	
20	QPSK	50	56	17.36	17.14	17.23			
20	QPSK	100	0	17.18	17.13	17.32	18.0	0.0	
20	16QAM	1	1	17.17	17.24	17.34	18.0	0.0	
20	64QAM	1	1	17.15	17.20	17.15	18.0	0.0	
20	256QAM	1	1	17.21	17.29	17.09	18.0	0.0	
Channel									
Frequency (MHz)									
15	Pi/2 BPSK	1	1	2517.5	2535	2552.5			
15	Pi/2 BPSK	1	1	17.15	17.09	17.23	18.0	0.0	
Channel									
Frequency (MHz)									
10	Pi/2 BPSK	1	1	17.19	17.21	17.25	18.0	0.0	
Channel									
Frequency (MHz)									
5	Pi/2 BPSK	1	1	2502.5	2535	2567.5			
5	Pi/2 BPSK	1	1	17.28	17.31	17.32	18.0	0.0	



n78 Ant5 HPUE For Head									
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)									
100	PI2 BPSK	1	1	17.28	17.35	17.35			
100	PI2 BPSK	1	137	17.35	17.35	17.35	18.5	0.0	
100	PI2 BPSK	1	271	17.33	17.33	17.33			
100	PI2 BPSK	135	0	17.22	17.22	17.22	18.5	0.0	
100	PI2 BPSK	135	69	17.26	17.26	17.26	18.5	0.0	
100	PI2 BPSK	135	138	17.26	17.26	17.26	18.5	0.0	
100	PI2 BPSK	270	0	17.24	17.24	17.24			
100	QPSK	1	1	17.41	17.41	17.41			
100	QPSK	1	137	17.38	17.38	17.38	18.5	0.0	
100	QPSK	1	271	17.33	17.33	17.33			
100	QPSK	135	0	17.15	17.15	17.15	18.5	0.0	
100	QPSK	135	69	17.21	17.21	17.21	18.5	0.0	
100	QPSK	135	138	17.20	17.20	17.20	18.5	0.0	
100	QPSK	270	0	17.20	17.20	17.20			
100	16QAM	1	1	17.15	17.15	17.15	18.5	0.0	
100	16QAM	1	1	17.29	17.29	17.29	18.5	0.0	
100	256QAM	1	1	17.00	17.00	17.00	18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.28	17.33	17.33	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.22	17.28	17.31	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.25	17.26	17.24	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.31	17.32	17.25	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.33	17.28	17.24	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.28	17.28	17.31	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.21	17.30	17.24	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.25	17.29	17.35	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.24	17.28	17.33	18.5	0.0	

Part27Q n78 Ant5 HPUE For Head									
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)									
100	PI2 BPSK	1	1	17.05	17.05	17.05			
100	PI2 BPSK	1	137	16.83	16.83	16.83	18.5	0.0	
100	PI2 BPSK	1	271	16.72	16.72	16.72			
100	PI2 BPSK	135	0	16.87	16.87	16.87	18.5	0.0	
100	PI2 BPSK	135	69	16.96	16.96	16.96	18.5	0.0	
100	PI2 BPSK	135	138	16.96	16.96	16.96	18.5	0.0	
100	PI2 BPSK	270	0	16.98	16.98	16.98			
100	QPSK	1	1	17.16	17.16	17.16			
100	QPSK	1	137	16.96	16.96	16.96	18.5	0.0	
100	QPSK	1	271	16.71	16.71	16.71			
100	QPSK	135	0	16.96	16.96	16.96	18.5	0.0	
100	QPSK	135	69	17.12	17.12	17.12	18.5	0.0	
100	QPSK	135	138	16.99	16.99	16.99	18.5	0.0	
100	QPSK	270	0	17.11	17.11	17.11			
100	16QAM	1	1	16.98	16.98	16.98	18.5	0.0	
100	16QAM	1	1	16.97	16.97	16.97	18.5	0.0	
100	256QAM	1	1	16.99	16.99	16.99	18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.10	17.11	17.08	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.95	16.98	16.95	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.96	16.98	16.97	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.99	16.98	16.95	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.99	16.98	16.95	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.99	16.99	16.97	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.99	17.01	16.97	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.98	16.99	16.96	18.5	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	16.99	16.99	16.97	18.5	0.0	

Par27Q n77 Ant5 HPUE For ENDC-Head									
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)									
100	PI2 BPSK	1	1	13.42	13.54	13.39			
100	PI2 BPSK	1	137	13.42	13.42	13.42	14.5	0.0	
100	PI2 BPSK	1	271	13.38	13.62	13.36			
100	PI2 BPSK	135	0	13.38	13.63	13.35	14.5	0.0	
100	PI2 BPSK	135	69	13.55	13.65	13.38	14.5	0.0	
100	PI2 BPSK	135	138	13.54	13.56	13.35	14.5	0.0	
100	PI2 BPSK	270	0	13.53	13.56	13.25			
100	QPSK	1	1	13.42	13.66	13.42			
100	QPSK	1	137	13.42	13.63	13.41	14.5	0.0	
100	QPSK	1	271	13.40	13.65	13.35			
100	QPSK	135	0	13.41	13.65	13.39	14.5	0.0	
100	QPSK	135	69	13.57	13.66	13.37	14.5	0.0	
100	QPSK	135	138	13.55	13.60	13.35	14.5	0.0	
100	QPSK	270	0	13.28	13.53	13.31			
100	16QAM	1	1	13.29	13.55	13.31	14.5	0.0	
100	16QAM	1	1	13.26	13.51	13.36	14.5	0.0	
100	256QAM	1	1	13.31	13.52	13.29	14.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	13.30	13.55	13.31	14.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.29	13.55	13.30	14.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	13.29	13.54	13.30	14.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.31	13.54	13.30	14.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	13.29	13.56	13.28	14.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.22	13.54	13.29	14.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.28	13.55	13.30	14.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.30	13.53	13.31	14.5	0.0	



Par27Q n77 Ant5_HPUE For ENDC-H2d										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	12.43	12.43	12.43				
100	PI2 BPSK	1	137	12.47	12.47	12.47	14.5	0.0		
100	PI2 BPSK	1	271	12.47	12.47	12.47				
100	PI2 BPSK	135	0	12.47	12.47	12.47	14.5	0.0		
100	PI2 BPSK	135	69	12.38	12.38	12.38	14.5	0.0		
100	PI2 BPSK	135	138	12.38	12.38	12.38	14.5	0.0		
100	PI2 BPSK	270	0	12.42	12.42	12.42				
100	QPSK	1	1	12.51	12.51	12.51	14.5	0.0		
100	QPSK	1	137	12.44	12.44	12.44				
100	QPSK	1	271	12.47	12.47	12.47				
100	QPSK	135	0	12.43	12.43	12.43	14.5	0.0		
100	QPSK	135	69	12.44	12.44	12.44	14.5	0.0		
100	QPSK	135	138	12.35	12.35	12.35	14.5	0.0		
100	QPSK	270	0	12.40	12.40	12.40				
100	16QAM	1	1	12.37	12.37	12.37	14.5	0.0		
100	64QAM	1	1	12.36	12.36	12.36	14.5	0.0		
100	256QAM	1	1	12.35	12.35	12.35	14.5	0.0		
Channel				633000	633334	633668	Tune-up limit	MPR		
Frequency (MHz)				3495	3500.01	3504.99	(dBm)	(dB)		
90	QPSK	1	1	12.17	12.45	12.17	14.5	0.0		
Channel				636968	633334	633668	Tune-up limit	MPR		
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)		
80	QPSK	1	1	12.17	12.43	12.19	14.5	0.0		
Channel				633000	633334	633668	Tune-up limit	MPR		
Frequency (MHz)				3480	3500.01	3519.99	(dBm)	(dB)		
60	QPSK	1	1	12.15	12.44	12.19	14.5	0.0		
Channel				631668	633334	635000	Tune-up limit	MPR		
Frequency (MHz)				3476.02	3500.01	3526	(dBm)	(dB)		
50	QPSK	1	1	12.19	12.42	12.18	14.5	0.0		
Channel				631334	633334	635332	Tune-up limit	MPR		
Frequency (MHz)				3470.01	3500.01	3529.98	(dBm)	(dB)		
40	QPSK	1	1	12.17	12.40	12.20	14.5	0.0		
Channel				630668	633334	636000	Tune-up limit	MPR		
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)		
20	QPSK	1	1	12.19	12.43	12.20	14.5	0.0		
Channel				635500	633334	638168	Tune-up limit	MPR		
Frequency (MHz)				3457.5	3500.01	3542.49	(dBm)	(dB)		
15	QPSK	1	1	12.17	12.44	12.18	14.5	0.0		
Channel				636334	633334	638332	Tune-up limit	MPR		
Frequency (MHz)				3455.01	3500.01	3544.98	(dBm)	(dB)		
10	QPSK	1	1	12.18	12.44	12.17	14.5	0.0		

n78 Ant5_HPUE For Sensor										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	18.99	18.99	18.99				
100	PI2 BPSK	1	137	19.28	19.28	19.28	20.5	0.0		
100	PI2 BPSK	1	271	19.00	19.00	19.00				
100	PI2 BPSK	135	0	19.12	19.12	19.12	20.5	0.0		
100	PI2 BPSK	135	69	19.32	19.32	19.32	20.5	0.0		
100	PI2 BPSK	135	138	19.20	19.20	19.20	20.5	0.0		
100	PI2 BPSK	270	0	19.17	19.17	19.17				
100	QPSK	1	1	19.41	19.41	19.41	20.5	0.0		
100	QPSK	1	137	19.20	19.20	19.20				
100	QPSK	1	271	19.16	19.16	19.16				
100	QPSK	135	0	19.20	19.20	19.20	20.5	0.0		
100	QPSK	135	69	19.21	19.21	19.21	20.5	0.0		
100	QPSK	135	138	19.11	19.11	19.11	20.5	0.0		
100	QPSK	270	0	19.20	19.20	19.20				
100	16QAM	1	1	18.33	18.33	18.33	20.5	0.0		
100	64QAM	1	1	18.52	18.52	18.52	20.5	0.0		
100	256QAM	1	1	17.48	17.48	17.48	19.5	1.0		
Channel				648968	650000	650334	Tune-up limit	MPR		
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)		
90	QPSK	1	1	18.44	18.53	18.43	20.5	0.0		
Channel				649334	650000	650668	Tune-up limit	MPR		
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)		
80	QPSK	1	1	18.38	18.46	18.47	20.5	0.0		
Channel				648968	650000	651334	Tune-up limit	MPR		
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)		
70	QPSK	1	1	18.54	18.46	18.53	20.5	0.0		
Channel				648968	650000	651668	Tune-up limit	MPR		
Frequency (MHz)				3730.01	3750	3770.01	(dBm)	(dB)		
60	QPSK	1	1	18.41	18.57	18.49	20.5	0.0		
Channel				648334	650000	651968	Tune-up limit	MPR		
Frequency (MHz)				3720.01	3750	3775.02	(dBm)	(dB)		
50	QPSK	1	1	18.44	18.53	18.52	20.5	0.0		
Channel				648000	650000	652000	Tune-up limit	MPR		
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)		
40	QPSK	1	1	18.34	18.40	18.40	20.5	0.0		
Channel				647634	650000	652668	Tune-up limit	MPR		
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)		
20	QPSK	1	1	18.47	18.45	18.43	20.5	0.0		
Channel				647168	650000	653334	Tune-up limit	MPR		
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)		
15	QPSK	1	1	18.55	18.62	18.57	20.5	0.0		
Channel				647000	650000	653668	Tune-up limit	MPR		
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)		
10	QPSK	1	1	18.44	18.42	18.55	20.5	0.0		

n78 Ant5_HPUE For Hotspot										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	17.18	17.18	17.18				
100	PI2 BPSK	1	137	17.15	17.15	17.15	18.0	0.0		
100	PI2 BPSK	1	271	17.05	17.05	17.05				
100	PI2 BPSK	135	0	17.09	17.09	17.09	18.0	0.0		
100	PI2 BPSK	135	69	17.17	17.17	17.17	18.0	0.0		
100	PI2 BPSK	135	138	17.12	17.12	17.12	18.0	0.0		
100	PI2 BPSK	270	0	17.12	17.12	17.12				
100	QPSK	1	1	17.21	17.21	17.21	18.0	0.0		
100	QPSK	1	137	17.19	17.19	17.19				
100	QPSK	1	271	17.09	17.09	17.09				
100	QPSK	135	0	17.12	17.12	17.12	18.0	0.0		
100	QPSK	135	69	17.18	17.18	17.18	18.0	0.0		
100	QPSK	135	138	17.16	17.16	17.16	18.0	0.0		
100	QPSK	270	0	17.15	17.15	17.15				
100	16QAM	1	1	17.14	17.14	17.14	18.0	0.0		
100	64QAM	1	1	17.08	17.08	17.08	18.0	0.0		
100	256QAM	1	1	17.07	17.07	17.07	18.0	0.0		
Channel				648968	650000	650334	Tune-up limit	MPR		
Frequency (MHz)				3748.02	3750	3755.01	(dBm)	(dB)		
90	QPSK	1	1	17.01	17.04	17.07	18.0	0.0		
Channel				649334	650000	650668	Tune-up limit	MPR		
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)		
80	QPSK	1	1	17.05	17.11	17.08	18.0	0.0		
Channel				649000	650000	651000	Tune-up limit	MPR		
Frequency (MHz)				3735	3750	3765.02	(dBm)	(dB)		
70	QPSK	1	1	17.02	17.05	17.13	18.0	0.0		
Channel				648968	650000	651334	Tune-up limit	MPR		
Frequency (MHz)				3730.01	3750	3770.01	(dBm)	(dB)		
60	QPSK	1	1	17.05	17.03	17.10	18.0	0.0		
Channel				648334	650000	651668	Tune-up limit	MPR		
Frequency (MHz)				3720.01	3750	3775.02	(dBm)	(dB)		
50	QPSK	1	1	17.00	17.02	17.05	18.0	0.0		
Channel				648000	650000	652000	Tune-up limit	MPR		
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)		
40	QPSK	1	1	17.08	17.10	17.05	18.0	0.0		
Channel				647634	650000	652668	Tune-up limit	MPR		
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)		
20	QPSK	1	1	17.01	17.08	17.05	18.0	0.0		
Channel				647168	650000	653334	Tune-up limit	MPR		
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)		
15	QPSK	1	1	17.06	17.08	17.02	18.0	0.0		
Channel				647000	650000	653668	Tune-up limit	MPR		
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)		





n78 Ant5_HPUE For Handheld									
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)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137		23.04				
100	PI2 BPSK	1	271		23.34		24.0	0.0	
100	PI2 BPSK	1	271		23.05				
100	PI2 BPSK	135	0		23.17		23.5	0.5	
100	PI2 BPSK	135	69		23.37		24.0	0.0	
100	PI2 BPSK	135	138		23.24		23.5	0.5	
100	PI2 BPSK	270	0		23.20				
100	QPSK	1	1		23.45				
100	QPSK	1	137		23.32		24.0	0.0	
100	QPSK	1	271		23.22				
100	QPSK	135	0		23.26		23.0	1.0	
100	QPSK	135	69		24.44		24.0	0.0	
100	QPSK	135	138		23.30		23.0	1.0	
100	QPSK	270	0		23.25				
100	16QAM	1	1		22.40		23.0	1.0	
100	16QAM	1	1		21.20		21.5	2.5	
100	16QAM	1	1		18.52		19.5	4.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64868	65000	65034	Tune-up limit (dBm)	MPR (dB)	
				3745.02	3750	3765.01			
80	QPSK	1	1	23.22	23.21	23.32	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64834	65000	65068	Tune-up limit (dBm)	MPR (dB)	
				3740.01	3750	3760.02			
80	QPSK	1	1	23.21	23.22	23.22	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	3735	3750	3765	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	23.12	23.22	23.15	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	64868	65000	65134	Tune-up limit (dBm)	MPR (dB)	
				3730.02	3750	3760.02			
60	QPSK	1	1	23.34	23.33	23.31	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	64834	65000	65168	Tune-up limit (dBm)	MPR (dB)	
				3725.01	3750	3765.02			
50	QPSK	1	1	23.25	23.26	23.12	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	64800	65000	65000	Tune-up limit (dBm)	MPR (dB)	
				3720	3750	3780			
40	QPSK	1	1	23.12	23.22	23.31	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	64734	65000	65068	Tune-up limit (dBm)	MPR (dB)	
				3710.01	3750	3760.02			
20	QPSK	1	1	23.38	23.34	23.15	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	64700	65000	65000	Tune-up limit (dBm)	MPR (dB)	
				3705	3750	3795			
15	QPSK	1	1	23.25	23.32	23.35	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	64634	65000	65000	Tune-up limit (dBm)	MPR (dB)	
				3700	3750	3800			
10	QPSK	1	1	23.33	23.36	23.38	24.0	0.0	

Part27Q n78 Ant5_HPUE For Sensor									
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)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	137		18.53				
100	PI2 BPSK	1	271		18.42		20.5	0.0	
100	PI2 BPSK	1	271		18.30				
100	PI2 BPSK	135	0		18.51		20.5	0.0	
100	PI2 BPSK	135	69		18.80		20.5	0.0	
100	PI2 BPSK	135	138		18.53		20.5	0.0	
100	PI2 BPSK	270	0		18.61				
100	QPSK	1	1		18.66				
100	QPSK	1	137		18.44		20.5	0.0	
100	QPSK	1	271		18.32				
100	QPSK	135	0		18.54		20.5	0.0	
100	QPSK	135	69		18.62		20.5	0.0	
100	QPSK	135	138		18.53		20.5	0.0	
100	QPSK	270	0		18.61				
100	16QAM	1	1		18.59		20.5	0.0	
100	16QAM	1	1		18.55		20.5	0.0	
100	16QAM	1	1		18.52		19.5	1.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	63800	63834	63868	Tune-up limit (dBm)	MPR (dB)	
				3485	3500.01	3514.99			
80	QPSK	1	1	18.41	18.54	18.39	20.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	63868	63834	63800	Tune-up limit (dBm)	MPR (dB)	
				3490.02	3500.01	3510			
80	QPSK	1	1	18.41	18.56	18.40	20.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	63800	63834	63868	Tune-up limit (dBm)	MPR (dB)	
				3485.01	3500.01	3514.98			
70	QPSK	1	1	18.38	18.52	18.40	20.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63800	63834	63868	Tune-up limit (dBm)	MPR (dB)	
				3480	3500.01	3518.98			
60	QPSK	1	1	18.42	18.54	18.42	20.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63168	63834	63800	Tune-up limit (dBm)	MPR (dB)	
				3475.02	3500.01	3525			
50	QPSK	1	1	18.37	18.51	18.39	20.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	63134	63834	63832	Tune-up limit (dBm)	MPR (dB)	
				3470.01	3500.01	3528.98			
40	QPSK	1	1	18.38	18.55	18.42	20.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	63868	63834	63800	Tune-up limit (dBm)	MPR (dB)	
				3465.02	3500.01	3540			
20	QPSK	1	1	18.41	18.55	18.43	20.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	63800	63834	63832	Tune-up limit (dBm)	MPR (dB)	
				3457.5	3500.01	3542.49			
15	QPSK	1	1	18.38	18.55	18.42	20.5	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	63868	63834	63800	Tune-up limit (dBm)	MPR (dB)	
				3450.01	3500.01	3544.98			
10	PI2 BPSK	1	1	18.42	18.54	18.39	20.5	0.0	

Part27Q n78 Ant5_HPUE For Hotspot									
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)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	137		18.55				
100	PI2 BPSK	1	271		18.83		18.0	0.0	
100	PI2 BPSK	1	271		18.72				
100	PI2 BPSK	135	0		18.51		18.87	0.0	
100	PI2 BPSK	135	69		18.93		19.0	0.0	
100	PI2 BPSK	135	138		18.56		18.96	0.0	
100	PI2 BPSK	270	0		18.98		18.0	0.0	
100	QPSK	1	1		18.96				
100	QPSK	1	137		18.96		18.0	0.0	
100	QPSK	1	271		18.71				
100	QPSK	135	0		18.96		18.0	0.0	
100	QPSK	135	69		18.83		18.0	0.0	
100	QPSK	135	138		18.82		18.0	0.0	
100	QPSK	270	0		18.61				
100	16QAM	1	1		18.98		18.0	0.0	
100	16QAM	1	1		18.97		18.0	0.0	
100	16QAM	1	1		18.82		18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	63800	63834	63868	Tune-up limit (dBm)	MPR (dB)	
				3485	3500.01	3514.99			
80	QPSK	1	1	18.84	18.95	18.79	18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	63868	63834	63800	Tune-up limit (dBm)	MPR (dB)	
				3490.02	3500.01	3510			
80	QPSK	1	1	18.85	18.95	18.80	18.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	63800	63834	63868	Tune-up limit (dBm)	MPR (dB)	
				3485.01	3500.01	3514.98			
70	QPSK	1	1	18.88	18.92	18.77	18.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63800	63834	63868	Tune-up limit (dBm)	MPR (dB)	
				3480	3500.01	3518.98			
60	QPSK	1	1	18.87	18.91	18.78	18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63168	63834	63800	Tune-up limit (dBm)	MPR (dB)	
				3475.02	3500.01	3525			
50	QPSK	1	1	18.85	18.92	18.80	18.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	63134	63834	63832	Tune-up limit (dBm)	MPR (dB)	



Part27Q n78 Ant5_HPUE For Handheld									
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)									
100	PI2 BPSK	1	1	3563.34					
100	PI2 BPSK	1	137	22.04			24.0	0.0	
100	PI2 BPSK	1	271	21.82					
100	PI2 BPSK	1	271	21.71					
100	PI2 BPSK	136	0	21.85			23.5	0.5	
100	PI2 BPSK	136	69	21.95			24.0	0.0	
100	PI2 BPSK	136	138	21.95			23.5	0.5	
100	PI2 BPSK	270	0	21.95					
100	QPSK	1	1	22.05					
100	QPSK	1	137	21.94			24.0	0.0	
100	QPSK	1	271	21.95					
100	QPSK	136	0	21.93			23.0	1.0	
100	QPSK	136	69	22.01			24.0	0.0	
100	QPSK	136	138	21.98			23.0	1.0	
100	QPSK	270	0	22.00					
100	16QAM	1	1	21.96			23.0	1.0	
100	16QAM	1	1	21.95			21.5	2.5	
100	16QAM	1	1	18.56			19.5	4.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.55	21.51	21.89	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3490.02	3500.01	3510	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.85	21.90	21.85	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.89	21.91	21.90	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.88	21.93	21.89	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.87	21.93	21.87	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.87	21.93	21.87	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.87	21.93	21.90	24.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	21.87	21.93	21.90	24.0	0.0	

n77 Ant 5 HPUE For ENDC-Sensor									
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)									
100	PI2 BPSK	1	1	3750	3840	3930			
100	PI2 BPSK	1	137	17.05	17.54	17.21			
100	PI2 BPSK	1	137	17.03	17.51	17.20	18.5	0.0	
100	PI2 BPSK	1	271	17.02	17.54	17.19			
100	PI2 BPSK	136	0	17.01	17.55	17.17	18.5	0.0	
100	PI2 BPSK	136	69	17.41	17.48	17.42	18.5	0.0	
100	PI2 BPSK	136	138	17.40	17.48	17.42			
100	PI2 BPSK	270	0	17.28	17.47	17.20	18.5	0.0	
100	QPSK	1	1	17.07	17.57	17.23			
100	QPSK	1	137	17.03	17.53	17.20	18.5	0.0	
100	QPSK	1	271	17.05	17.55	17.21			
100	QPSK	136	0	17.03	17.56	17.20	18.5	0.0	
100	QPSK	136	69	17.43	17.50	17.45	18.5	0.0	
100	QPSK	136	138	17.42	17.50	17.43			
100	QPSK	270	0	17.28	17.48	17.23	18.5	0.0	
100	16QAM	1	1	17.27	17.47	17.21	18.5	0.0	
100	16QAM	1	1	17.25	17.45	17.22	18.5	0.0	
100	16QAM	1	1	17.24	17.47	17.20	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.54	17.48	17.12	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3840	3940.01	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.94	17.43	17.11	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3730.02	3840	3940.01	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.93	17.44	17.09	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.93	17.45	17.11	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3720.01	3840	3940.01	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.96	17.44	17.13	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.95	17.47	17.12	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.94	17.46	17.12	18.5	0.0	

n77 Ant 5 HPUE For ENDC-Hotspot									
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)									
100	PI2 BPSK	1	1	3750	3840	3930			
100	PI2 BPSK	1	137	16.13	16.16	16.19			
100	PI2 BPSK	1	137	16.03	16.08	16.25	17.0	0.0	
100	PI2 BPSK	1	271	16.05	16.11	16.20			
100	PI2 BPSK	136	0	16.08	16.22	16.14	17.0	0.0	
100	PI2 BPSK	136	69	16.06	16.10	16.38	17.0	0.0	
100	PI2 BPSK	136	138	16.06	16.07	16.05			
100	PI2 BPSK	270	0	16.15	16.04	16.16	17.0	0.0	
100	QPSK	1	1	16.12	16.44	16.01			
100	QPSK	1	137	16.20	16.06	16.05	17.0	0.0	
100	QPSK	1	271	16.19	16.06	16.05			
100	QPSK	136	0	16.13	16.08	16.01	17.0	0.0	
100	QPSK	136	69	16.10	16.28	16.22	17.0	0.0	
100	QPSK	136	138	16.12	16.24	16.01			
100	QPSK	270	0	16.14	16.16	16.05	17.0	0.0	
100	16QAM	1	1	16.12	16.18	16.15	17.0	0.0	
100	16QAM	1	1	16.07	16.17	16.22	17.0	0.0	
100	16QAM	1	1	16.03	16.20	16.12	17.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.19	16.33	15.88	17.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3840	3940.01	17.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.98	16.33	15.87	17.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3730.02	3840	3940.01	17.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.01	16.31	15.87	17.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3720.01	3840	3940.01	17.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.98	16.30	15.89	17.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3710.01	3840	3970.02	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.99	16.32	15.86	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.99	16.30	15.86	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.01	16.30	15.87	17.0	0.0	



n77 Ant 5 HPUE For ENDC-Handheld										
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)										
100	PI2 BPSK	1	1	20.31	20.54	20.41				
100	PI2 BPSK	1	137	20.31	20.52	20.40	21.0	0.0		
100	PI2 BPSK	1	271	20.25	20.53	20.40				
100	PI2 BPSK	136	0	20.26	20.53	20.42	21.0	0.0		
100	PI2 BPSK	136	69	20.52	20.48	20.35	21.0	0.0		
100	PI2 BPSK	136	138	20.79	20.47	20.33	21.0	0.0		
100	PI2 BPSK	270	0	20.38	20.38	20.24				
100	QPSK	1	1	20.31	20.55	20.44				
100	QPSK	1	137	20.31	20.53	20.43	21.0	0.0		
100	QPSK	1	271	20.28	20.54	20.41				
100	QPSK	136	0	20.27	20.53	20.43	21.0	0.0		
100	QPSK	136	69	20.44	20.49	20.38	21.0	0.0		
100	QPSK	136	138	20.42	20.47	20.34				
100	QPSK	270	0	20.37	20.41	20.24				
100	16QAM	1	1	20.38	20.40	20.22	21.0	0.0		
100	16QAM	1	1	18.85	18.90	18.70	21.0	0.0		
100	256QAM	1	1	18.78	18.88	18.58	19.5	1.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	20.21	20.43	20.30	21.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	20.19	20.44	20.33	21.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	20.19	20.42	20.33	21.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	20.19	20.44	20.33	21.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	20.18	20.45	20.30	21.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	20.19	20.44	20.33	21.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	20.19	20.44	20.33	21.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	20.20	20.42	20.33	21.0	0.0		

Par27Q n77 Ant5_HPUE For ENDC-Sensor										
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)										
100	PI2 BPSK	1	1		3500.01					
100	PI2 BPSK	1	137		17.53					
100	PI2 BPSK	1	271		17.52		18.5	0.0		
100	PI2 BPSK	136	0		17.48					
100	PI2 BPSK	136	69		17.49		18.5	0.0		
100	PI2 BPSK	136	138		17.47					
100	PI2 BPSK	270	0		17.42		18.5	0.0		
100	QPSK	1	1		17.59					
100	QPSK	1	137		17.52		18.5	0.0		
100	QPSK	1	271		17.51					
100	QPSK	136	0		17.46		18.5	0.0		
100	QPSK	136	69		17.49		18.5	0.0		
100	QPSK	136	138		17.44					
100	QPSK	270	0		17.44		18.5	0.0		
100	16QAM	1	1		17.42		18.5	0.0		
100	16QAM	1	1		17.41		18.5	0.0		
100	256QAM	1	1		17.40		18.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3498	3500.01	3504.98				
Channel										
Frequency (MHz)										
80	QPSK	1	1	17.53	17.48	17.22	18.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	17.24	17.49	17.21	18.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	3480	3500.01	3519.98				
Channel										
Frequency (MHz)										
60	QPSK	1	1	17.29	17.46	17.23	18.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	17.34	17.44	17.23	18.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	17.29	17.50	17.20	18.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	17.29	17.48	17.22	18.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	17.31	17.49	17.17	18.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	17.25	17.43	17.20	18.5	0.0		

Par27Q n77 Ant5_HPUE For ENDC-Hotspot										
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)										
100	PI2 BPSK	1	1		3500.01					
100	PI2 BPSK	1	137		18.03				17.0	0.0
100	PI2 BPSK	1	271		18.01					
100	PI2 BPSK	136	0		18.96					
100	PI2 BPSK	136	69		18.99		17.0	0.0		
100	PI2 BPSK	136	138		18.94				17.0	0.0
100	PI2 BPSK	270	0		18.99				17.0	0.0
100	QPSK	1	1		18.96					
100	QPSK	1	137		18.95		17.0	0.0		
100	QPSK	1	271		18.90					
100	QPSK	136	0		18.91		17.0	0.0		
100	QPSK	136	69		18.96		17.0	0.0		
100	QPSK	136	138		18.92				17.0	0.0
100	QPSK	270	0		18.93				17.0	0.0
100	16QAM	1	1		18.92		17.0	0.0		
100	16QAM	1	1		18.89		17.0	0.0		
100	256QAM	1	1		18.90		17.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3495	3500.01	3504.98				
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.79	18.94	18.78	17.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.80	18.98	18.80	17.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	3480	3500.01	3519.98				
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.86	18.92	18.78	17.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.87	18.90	18.84	17.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.79	18.93	18.79	17.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.80	18.90	18.78	17.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.88	18.94	18.77	17.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.88	18.93	18.80	17.0	0.0		



Par27Q n77 Ant6_HPUE For ENDC-Handheld							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Middle Ch. (Freq)	Power High Ch. (Freq)	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1		3500.01		
100	PI2 BPSK	1	137		19.01		
100	PI2 BPSK	1	271		18.97		21.0
100	PI2 BPSK	1	0		18.94		
100	PI2 BPSK	135	0		18.97		21.0
100	PI2 BPSK	135	69		18.92		21.0
100	PI2 BPSK	135	138		18.88		21.0
100	PI2 BPSK	270	0		18.92		21.0
100	QPSK	1	1		19.05		
100	QPSK	1	137		18.96		21.0
100	QPSK	1	271		18.99		
100	QPSK	135	0		18.92		21.0
100	QPSK	135	69		18.94		21.0
100	QPSK	135	138		18.88		21.0
100	QPSK	270	0		18.90		21.0
100	16QAM	1	1		18.89		21.0
100	16QAM	1	1		18.87		21.0
100	256QAM	1	1		18.86		20.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	3495	3500.01	3504.99	MPR (dB)
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.90	18.91	18.94	21.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.83	18.97	18.80	21.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	18.87	18.93	18.81	21.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.85	18.96	18.83	21.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.88	18.92	18.81	21.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.88	18.96	18.81	21.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.83	18.94	18.85	21.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.85	18.91	18.78	21.0



**Conducted Power for WLAN/BT**

Mode	Channel	Ant 3 Full Power Standalone_For Head Standalone_For Body Worn Standalone_For Handheld Simultaneous_For Handheld				Ant 3 For_Hotspot Simultaneous_For Head Simultaneous_For Body Worn		Duty Cycle %	Note
		Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit			
802.11b 1Mbps	1	2412	18.00	20.00	15.89	17.50	100.00		
	6	2437	18.28	20.00	16.31	17.50			
	11	2462	18.01	20.00	15.85	17.50			
802.11g 6Mbps	1	2412	14.88	16.00	Not Required	16.00	97.48		
	6	2437	17.16	19.00		17.50			
	11	2462	13.59	15.00		15.00			
802.11n-HT20 MCS0	1	2412	14.33	16.00	Not Required	16.00	97.30		
	6	2437	15.14	17.00		17.00			
	11	2462	13.95	15.50		15.50			

Mode	Channel	Ant 3 Full Power Standalone_For Body Worn Standalone_For Handheld Simultaneous_For Handheld				Ant 3 Standalone_For Head		Ant 3 Simultaneous_For Head		Ant 3 For_Hotspot		Duty Cycle %	Note
		Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit			
802.11a 6Mbps	36	5180	16.12	18.00	Not Required	16.50	13.00	14.50	97.46				
	40	5200	16.16	18.00		16.50						13.00	14.50
	44	5220	16.06	18.00		16.50						13.00	14.50
	48	5240	16.10	18.00		16.50						13.00	14.50
802.11n-HT20 MCS0	36	5180	15.02	17.00	Not Required	16.50	13.00	14.50	97.28				
	40	5200	15.04	17.00		16.50						13.00	14.50
	44	5220	15.00	17.00		16.50						13.00	14.50
	48	5240	15.01	17.00		16.50						13.00	14.50
802.11n-HT40 MCS0	38	5190	15.04	17.00	Not Required	16.50	Not Required	13.00	Not Required	14.50	97.19		
	46	5230	15.01	17.00	Not Required	16.50	Not Required	13.00	Not Required	14.50			
802.11ac-VHT20 MCS0	36	5180	16.02	18.00	Not Required	16.50	13.00	14.50	97.31				
	40	5200	16.06	18.00		16.50						13.00	14.50
	44	5220	16.00	18.00		16.50						13.00	14.50
	48	5240	16.01	18.00		16.50						13.00	14.50
802.11ac-VHT40 MCS0	38	5190	15.05	17.00	Not Required	16.50	Not Required	13.00	Not Required	14.50	97.75		
	46	5230	16.01	18.00	Not Required	16.50	Not Required	13.00	Not Required	14.50			
802.11ac-VHT80 MCS0	42	5210	14.25	16.00	Not Required	16.00	Not Required	13.00	13.63	14.50	94.75		

Mode	Channel	Ant 3 Full Power Standalone_For Body Worn Standalone_For Handheld Simultaneous_For Handheld				Ant 3 Standalone_For Head		Ant 3 Simultaneous_For Head		Ant 3 Simultaneous_For Body Worn		Duty Cycle %	Note
		Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit			
802.11a 6Mbps	52	5280	16.17	18.00	Not Required	16.50	13.00	15.00	97.46				
	56	5280	16.18	18.00		16.50						13.00	15.00
	60	5300	16.16	18.00		16.50						13.00	15.00
	64	5320	16.08	18.00		16.50						13.00	15.00
802.11n-HT20 MCS0	52	5280	15.07	17.00	Not Required	16.50	13.00	15.00	97.28				
	56	5280	15.10	17.00		16.50						13.00	15.00
	60	5300	15.03	17.00		16.50						13.00	15.00
	64	5320	15.01	17.00		16.50						13.00	15.00
802.11n-HT40 MCS0	54	5270	15.00	17.00	14.93	16.50	Not Required	13.00	Not Required	15.00	97.19		
	62	5310	14.77	16.50	14.77	16.50	Not Required	13.00	Not Required	15.00			
802.11ac-VHT20 MCS0	52	5280	16.09	18.00	Not Required	16.50	13.00	15.00	97.31				
	56	5280	16.07	18.00		16.50						13.00	15.00
	60	5300	16.04	18.00		16.50						13.00	15.00
	64	5320	16.03	18.00		16.50						13.00	15.00
802.11ac-VHT40 MCS0	54	5270	16.04	18.00	Not Required	16.50	Not Required	13.00	Not Required	15.00	97.75		
	62	5310	14.91	16.50	14.91	16.50	Not Required	13.00	Not Required	15.00			
802.11ac-VHT80 MCS0	58	5290	13.21	15.00	13.21	15.00	11.09	13.00	13.21	15.00	94.75		

Mode	Channel	Ant 3 Full Power Standalone_For Body Worn Standalone_For Handheld Simultaneous_For Handheld				Ant 3 Standalone_For Head		Ant 3 Simultaneous_For Head		Ant 3 Simultaneous_For Body Worn		Duty Cycle %	Note		
		Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit					
802.11a 6Mbps	100	5500	16.22	18.00	Not Required	17.00	13.50	14.50	97.46						
	116	5580	16.27	18.00		17.00						13.50	14.50		
	124	5620	16.39	18.00		17.00						13.50	14.50		
	132	5660	16.41	18.00		17.00						13.50	14.50		
	140	5700	13.95	15.50		13.95						15.50	Not Required	14.50	
	144	5720	16.38	18.00		Not Required						17.00	Not Required	14.50	
802.11n-HT20 MCS0	100	5500	15.00	17.00	15.00	17.00	13.50	14.50	97.28						
	116	5580	15.13	17.00	15.13	17.00	13.50	14.50							
	124	5620	15.23	17.00	15.23	17.00	13.50	14.50							
	132	5660	15.29	17.00	15.29	17.00	13.50	14.50							
	140	5700	12.88	14.50	12.88	14.50	13.50	12.88				14.50			
	144	5720	15.25	17.00	15.25	17.00	13.50	14.50							
802.11n-HT40 MCS0	102	5510	14.54	16.00	14.54	16.00	13.50	14.50	97.19						
	110	5550	15.04	17.00	15.04	17.00	13.50	14.50							
	126	5630	15.19	17.00	15.19	17.00	13.50	14.50							
	134	5670	15.26	17.00	15.26	17.00	13.50	14.50							
	142	5710	15.32	17.00	15.32	17.00	13.50	14.50							
	146	5730	15.32	17.00	15.32	17.00	13.50	14.50							
802.11ac-VHT20 MCS0	100	5500	16.02	18.00	Not Required	17.00	13.50	14.50	97.31						
	116	5580	16.26	18.00		17.00						13.50	14.50		
	124	5620	16.32	18.00		17.00						13.50	14.50		
	132	5660	16.27	18.00		17.00						13.50	14.50		
	140	5700	12.97	14.50		12.97						14.50	13.50	12.97	14.50
	144	5720	16.25	18.00		Not Required						17.00	Not Required	13.50	14.50
802.11ac-VHT40 MCS0	102	5510	14.65	16.50	14.65	16.50	13.50	14.50	97.75						
	110	5550	16.00	18.00	17.00	13.50	14.50								
	126	5630	16.05	18.00	17.00	13.50	14.50								
	134	5670	15.79	17.50	17.00	13.50	14.50								
	142	5710	16.31	18.00	17.00	13.50	14.50								
	146	5730	16.31	18.00	17.00	13.50	14.50								
802.11ac-VHT80 MCS0	106	5530	12.07	14.00	12.07	14.00	11.55	13.50	12.07	14.00	94.75				
	122	5610	16.08	18.00	15.09	17.00	11.65	13.50	12.55	14.50					
	138	5690	16.22	18.00	15.18	17.00	11.75	13.50	12.78	14.50					
	146	5730	16.31	18.00	17.00	13.50	14.50								

Mode	Channel	Ant 3 Full Power Standalone_For Body Worn Standalone_For Handheld				Ant 3 Standalone_For Head Simultaneous_For Handheld		Ant 3 Simultaneous_For Head		Ant 3 Simultaneous_For Body Worn		Ant 3 For_Hotspot		Duty Cycle %	Note
		Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit			
802.11a 6Mbps	148	5745	16.36	18.00	Not Required	18.00	12.50	13.50	97.46						
	157	5785	16.47	18.00		18.00						12.50	12.00		
	165	5825	16.42	18.00		18.00						12.50	12.00		
802.11n-HT20 MCS0	148	5745	15.04	17.00	Not Required	16.00	12.50	13.50	97.28						
	157	5785	15.26	17.00		16.00						12.50	12.00		
	165	5825	15.25	17.00		16.00						12.50	12.00		
802.11n-HT40 MCS0	151	5755	15.35	17.00	Not Required	16.00	Not Required	12.50	Not Required	13.50	Not Required	12.00	97.19		
	159	5795	15.26	17.00	Not Required	16.00	Not Required	12.50	Not Required	13.50	Not Required	12.00			
802.11ac-VHT20 MCS0	148	5745	16.29	18.00	Not Required	18.00	12.50	13.50	97.31						
	157	5785	16.37	18.00		18.00						12.50	12.00		
	165	5825	16.30	18.00		18.00						12.50	12.00		
802.11ac-VHT40 MCS0	151	5755	16.06	18.00	Not Required	18.00	Not Required	12.50	Not Required	13.50	Not Required	12.00	97.75		
	159	5795	16.04	18.00	Not Required	18.00	Not Required	12.50	Not Required	13.50	Not Required	12.00			
802.11ac-VHT80 MCS0	155	5775	16.05	18.00	14.44	16.00	11.05	12.50	11.67	13.50	10.89	12.00	94.75		

**BT BR/EDR**

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	10.56	8.59	8.59
	CH 39	2441	10.59	8.69	8.58
	CH 78	2480	10.39	8.50	8.49
Tune-up Limit			11.5	10	10

**BT LE 4.0**

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-up Limit
			GFSK	
LE	CH 00	2402	5.51	6.50
	CH 19	2440	5.83	6.50
	CH 39	2480	4.67	6.50

**BT LE 5.0**

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-up Limit
LE	CH 00	2402	5.51	6.50
	CH 19	2440	5.77	6.50
	CH 39	2480	4.69	6.50