

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 %

^E 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)
TX Channel		128	189	251		128	189	251	
Frequency (MHz)		824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot		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 0									
GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		512	661	810		512	661	810	
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot		29.22	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		23.85	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

Ant 4									
GSM850		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		128	189	251		128	189	251	
Frequency (MHz)		824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot		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

		ANT4			ANT0			ANT0			ANT4		
Band		WCDMA II			WCDMA IV			WCDMA V			WCDMA V		
TX Channel		9262	9400	9538	Tune-up Limit (dBm)	1312	1413	1513	Tune-up Limit (dBm)	4132	4182	4233	Tune-up Limit (dBm)
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		626.4	636.4	646.6	
3GPP Rel 99	AMR 12.2Kbps	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 99	RM-C 12.2Kbps	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	HS-DSA Subtest-1	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	HS-DSA Subtest-2	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	HS-DSA Subtest-3	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	HS-DSA Subtest-4	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 8	DC-HSDPA Subtest-1	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 8	DC-HSDPA Subtest-2	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 8	DC-HSDPA Subtest-3	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 8	DC-HSDPA Subtest-4	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	HS-UPA Subtest-1	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	HS-UPA Subtest-2	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	HS-UPA Subtest-3	21.60	21.57	21.56	22.00	21.24	21.14	21.02	22.00	21.69	21.66	21.64	22.00
3GPP Rel 6	HS-UPA Subtest-4	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	HS-UPA Subtest-5	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 7	HSPA+ (16QAM) Subtest-1	19.00	19.34	19.22	20.50	19.23	19.28	19.37	20.50	19.56	19.46	19.33	20.50



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	24	0		
20	QPSK	1	49	22.86	22.89	22.85				
20	QPSK	1	99	22.66	22.67	22.58				
20	QPSK	50	0	21.88	21.86	21.91				
20	QPSK	50	24	21.90	21.90	21.89	23	1		
20	QPSK	50	50	21.81	21.85	21.80				
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	22.08				
20	16QAM	50	0	20.87	20.80	20.97				
20	16QAM	50	24	20.85	20.85	20.92				
20	16QAM	50	50	20.78	20.82	20.78	22	2		
20	16QAM	100	0	20.81	20.81	20.86				
20	64QAM	1	0	20.90	20.97	20.89				
20	64QAM	1	49	21.08	21.08	21.04				
20	64QAM	1	99	20.86	20.86	20.91	21	3		
20	64QAM	50	0	19.85	19.79	19.95				
20	64QAM	50	24	19.82	19.83	19.85				
20	64QAM	50	50	19.76	19.82	19.75				
20	64QAM	100	0	19.82	19.81	19.88				
Channel				18675	18800	19125				
Frequency (MHz)				1867.5	18800	1902.5	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	22.79	22.76	22.77	24	0		
15	QPSK	1	37	22.89	22.90	22.73				
15	QPSK	1	74	22.73	22.75	22.60				
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	22.21	23	1		
15	16QAM	1	74	22.09	22.06	22.16				
15	16QAM	36	0	20.80	20.82	20.94				
15	16QAM	36	20	20.82	20.90	20.87				
15	16QAM	36	39	20.77	20.81	20.87	22	2		
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				
15	64QAM	1	74	20.92	20.96	20.99	22	2		
15	64QAM	36	0	19.80	19.82	19.92				
15	64QAM	36	20	19.80	19.89	19.87				
15	64QAM	36	39	19.79	19.79	19.88				
15	64QAM	75	0	19.77	19.86	19.92	Tune-up limit (dBm)	MPR (dB)		
Channel				18650	18600	19150				
Frequency (MHz)				18658	18800	19055				
10	QPSK	1	0	22.85	22.90	22.83	24	0		
10	QPSK	1	25	22.87	22.88	22.79				
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	21.88	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	22.15	22.25	22.30				
10	16QAM	25	0	20.86	20.91	21.00				
10	16QAM	25	12	20.86	20.88	20.96				
10	16QAM	25	25	20.80	20.88	20.98	22	2		
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				
10	64QAM	1	49	20.94	21.00	21.06	21	3		
10	64QAM	25	0	19.85	19.89	19.96				
10	64QAM	25	12	19.91	19.89	19.90				
10	64QAM	25	25	19.87	19.87	19.96				
10	64QAM	50	0	19.83	19.85	20.00	Tune-up limit (dBm)	MPR (dB)		
Channel				18625	18600	19175				
Frequency (MHz)				18622.5	18800	19075				
5	QPSK	1	0	22.89	22.91	22.78	24	0		
5	QPSK	1	12	22.91	22.91	22.76				
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	21.88	21.97	21.99				
5	16QAM	1	0	22.15	22.28	22.28				
5	16QAM	1	12	22.17	22.28	22.28	23	1		
5	16QAM	1	24	22.11	22.21	22.26				
5	16QAM	12	0	20.94	20.93	20.95				
5	16QAM	12	7	20.82	20.88	20.96				
5	16QAM	12	13	20.79	20.90	20.90	22	2		
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	21.06				
5	64QAM	1	24	20.99	21.08	21.08	22	2		
5	64QAM	12	0	19.82	19.91	19.89				
5	64QAM	12	7	19.81	19.85	19.92				
5	64QAM	12	13	19.78	19.85	19.90				
5	64QAM	25	0	19.85	19.92	19.96	Tune-up limit (dBm)	MPR (dB)		
Channel				18615	18600	19165				
Frequency (MHz)				18612.5	18800	19080.5				
3	QPSK	1	0	22.58	22.88	22.66	24	0		
3	QPSK	1	8	22.54	22.87	22.70				
3	QPSK	1	14	22.64	22.86	22.68				
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	22.23				
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				
3	16QAM	8	7	20.89	20.91	20.96	22	2		
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				
3	64QAM	1	14	20.99	21.07	21.10	22	2		
3	64QAM	8	0	19.95	19.91	19.94				
3	64QAM	8	4	19.85	19.88	19.92				
3	64QAM	8	7	19.84	19.87	19.92				
3	64QAM	15	0	19.81	19.84	19.90	Tune-up limit (dBm)	MPR (dB)		
Channel				18607	18600	19193				
Frequency (MHz)				18607.7	18800	19093.3				
1.4	QPSK	1	0	22.83	22.88	22.71	24	0		
1.4	QPSK	1	3	22.84	22.90	22.73				
1.4	QPSK	1	5	22.82	22.88	22.69				
1.4	QPSK	3	0	22.86	22.91	22.72				
1.4	QPSK	3	1	22.86	22.91	22.75	23	1		
1.4	QPSK	3	3	22.87	22.88	22.73				
1.4	QPSK	6	0	21.86	21.88	21.90				
1.4	16QAM	1	0	22.16	22.23	22.24				
1.4	16QAM	1	3	22.13	22.18	22.22	23	1		
1.4	16QAM	1	5	22.13	22.24	22.22				
1.4	16QAM	3	0	21.85	21.91	21.92				
1.4	16QAM	3	1	21.85	21.89	21.88				
1.4	16QAM	3	3	21.83	21.86	21.86	22	2		
1.4	16QAM	6	0	20.89	20.99	20.95				
1.4	64QAM	1	0	20.98	21.06	21.06				
1.4	64QAM	1	3	21.02	21.05	21.08				
1.4	64QAM	1	5	21.01	21.03	21.02	22	2		
1.4	64QAM	3	0	20.89	20.95	20.97				
1.4	64QAM	3	1	20.91	20.97	20.97				
1.4	64QAM	3	3	20.87	20.91	20.95				
1.4	64QAM	6	0	19.82	19.88	19.86	21	3		

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	24	0		
10	QPSK	1	25	22.67	22.99	22.66				
10	QPSK	1	49	22.49	22.89	22.59				
10	QPSK	25	0	21.96	21.90	21.66				
10	QPSK	25	12	21.61	21.55	21.67	23	1		
10	QPSK	25	25	21.65	21.49	21.72				
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	20.79	20.59	20.63				
10	16QAM	25	25	20.50	20.87	20.51	22	2		
10	16QAM	50	0	20.59	20.80	20.69				
10	64QAM	1	0	20.69	20.74	20.96				
10	64QAM	1	25	20.71	20.75	20.59				
10	64QAM	1	49	20.84	20.56	20.78	22	2		
10	64QAM	25	0	19.73	19.77	19.64				
10	64QAM	25	12	19.52	19.54	19.68				
10	64QAM	25	25	19.58	19.83	19.78				
10	64QAM	50	0	19.58	19.67	19.56	21	3		
Channel				20425	20525	20625				
Frequency (MHz)				826.5	836.5	846.5				
5	QPSK	1	0	22.58	22.48	22.48	24	0		
5	QPSK	1	12	22.58	22.49	22.48				
5	QPSK	1	24	22.49	22.50	22.67				
5	QPSK	12	0	21.55	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				
5	64QAM	1	24	20.66	20.76	20.68	22	2		
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				
5	64QAM	25	0	19.52	19.59	19.55	21	3		
Channel				20415	20525	20635				
Frequency (MHz)				825.5	836.5	847.5				
3	QPSK	1	0	22.58	22.80	22.51	24	0		
3	QPSK	1	8	22.54	22.67	22.46				
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	21.67	21.56				
3	QPSK	15	0	21.65	21.80	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	21.59				
3	16QAM	8	0	20.63	20.80	20.55				
3	16QAM	8	4	20.63	20.84	20.78				
3	16QAM	8	7	20.71	20.66	20.57	22	2		
3	16QAM	15	0	20.63	20.66	20.58				
3	64QAM	1	0	20.79	20.79	20.80				
3	64QAM	1	8	20.69	20.79	20.66				
3	64QAM	1	14	20.70	20.79	20.56	22	2		
3	64QAM	8	0	19.76	19.71	19.57				
3	64QAM	8	4	19.52	19.82	19.65				
3	64QAM	8	7	19.75	19.68	19.66				
3	64QAM	15	0	19.47	19.66	19.54	21	3		
Channel				20407	20525	20643				
Frequency (MHz)				824.7	836.5	848.3				
1.4	QPSK	1	0	22.66	22.52	22.80	24	0		
1.4	QPSK	1	3	22.49	22.61	22.54				
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	23	1		
1.4	QPSK	3	3	22.66	22.56	22.47				
1.4	QPSK	6	0	21.54	21.63	21.58				
1.4	16QAM	1	0	21.73	21.80	21.58				
1.4	16QAM	1	3	21.87	21.87	22.03	23	1		
1.4	16QAM	1	5	21.80	21.90	21.72				
1.4	16QAM	3	0	21.48	21.61	21.68				
1.4	16QAM	3	1	21.61	21.63	21.69				
1.4	16QAM	3	3	21.63	21.52	21.48	22	2		
1.4	16QAM	6	0	20.56	20.53	20.47				
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	20.58	20.91	20.51				
1.4	64QAM	3	1	20.65	20.80	20.59				
1.4	64QAM	3	3	20.50	20.78	20.64				
1.4	64QAM	6	0	19.49	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 (dBm)	MPR (dB)				
Channel				20850	21100	21350						
Frequency (MHz)				2510	2535	2560						
20	QPSK	1	0	22.66	22.98	22.67	24	0				
20	QPSK	1	49	22.66	22.52	22.55						
20	QPSK	1	99	22.66	22.71	22.55						
20	QPSK	50	0	21.73	21.89	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	21.73	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	22	2				
20	16QAM	50	24	20.82	20.77	20.74						
20	16QAM	50	50	20.81	20.72	20.76						
20	16QAM	100	0	20.75	20.70	20.70						
20	64QAM	1	0	20.76	20.70	20.72	22	2				
20	64QAM	1	49	20.96	20.94	20.93						
20	64QAM	1	99	20.84	20.88	20.80						
20	64QAM	50	0	19.69	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)				2507.5	2535	2562.5	Tune-up limit (dBm)	MPR (dB)				
15	QPSK	1	0	22.75	22.75	22.76	24	0				
15	QPSK	1	37	22.75	22.75	22.76						
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	21.92	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	21.07	22	2				
15	16QAM	36	20	21.07	21.07	20.86						
15	16QAM	36	39	21.11	21.03	20.97						
15	16QAM	75	0	21.05	21.01	20.85						
15	64QAM	1	0	21.13	21.10	20.96	22	2				
15	64QAM	1	37	21.26	21.26	21.12						
15	64QAM	1	74	21.22	21.25	21.09						
15	64QAM	36	0	20.02	19.98	19.85						
15	64QAM	36	20	20.06	20.04	19.89	21	3				
15	64QAM	36	39	20.05	19.99	19.92						
15	64QAM	75	0	20.08	20.06	19.85						
Channel				20800	21100	21400				Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565						
10	QPSK	1	0	22.89	22.81	22.78	24	0				
10	QPSK	1	26	22.97	22.95	22.77						
10	QPSK	1	49	22.96	22.94	22.78						
10	QPSK	25	0	22.10	22.08	22.06						
10	QPSK	25	12	22.14	22.04	22.05	23	1				
10	QPSK	25	25	22.16	22.11	22.06						
10	QPSK	50	0	22.13	22.12	22.11						
10	16QAM	1	0	22.38	22.33	22.26						
10	16QAM	1	26	22.43	22.46	22.33	23	1				
10	16QAM	1	49	22.40	22.40	22.37						
10	16QAM	25	0	21.12	21.04	21.01						
10	16QAM	25	12	21.17	21.03	21.00						
10	16QAM	25	25	21.15	21.09	20.99	22	2				
10	16QAM	50	0	21.08	21.06	21.00						
10	64QAM	1	0	21.20	21.14	21.08						
10	64QAM	1	25	21.28	21.26	21.20						
10	64QAM	1	49	21.27	21.27	21.23	22	2				
10	64QAM	25	0	20.09	20.09	20.01						
10	64QAM	25	12	20.16	20.02	20.01						
10	64QAM	25	25	20.13	20.09	19.98						
10	64QAM	50	0	20.12	20.01	19.98	21	3				
Channel				20775	21100	21425				Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5						
5	QPSK	1	0	22.75	22.83	22.83				24	0	
5	QPSK	1	12	22.91	22.90	22.90						
5	QPSK	1	24	22.89	22.88	22.90						
5	QPSK	12	0	22.00	22.03	21.87						
5	QPSK	12	7	22.01	21.99	21.85	23	1				
5	QPSK	12	13	22.02	22.05	21.85						
5	QPSK	25	0	22.06	22.04	21.96						
5	16QAM	1	0	22.31	22.34	22.31						
5	16QAM	1	12	22.39	22.39	22.18	23	1				
5	16QAM	1	24	22.42	22.36	22.17						
5	16QAM	12	0	21.04	21.02	20.87						
5	16QAM	12	7	21.06	21.01	20.83						
5	16QAM	12	13	21.10	21.02	20.82	22	2				
5	16QAM	25	0	21.08	21.03	20.85						
5	64QAM	1	0	21.20	21.19	20.98						
5	64QAM	1	12	21.22	21.03	21.04						
5	64QAM	1	24	21.27	21.24	21.08	22	2				
5	64QAM	12	0	20.01	19.98	19.81						
5	64QAM	12	7	20.05	19.98	19.82						
5	64QAM	12	13	20.03	19.96	19.81						
5	64QAM	25	0	20.09	20.02	19.83	21	3				



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				23060	23095	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	22.78	22.02	22.85	24	0	
10	QPSK	1	25	22.56	22.66	22.83			
10	QPSK	1	49	22.90	22.80	22.80			
10	QPSK	25	0	21.97	22.05	21.86			
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	21.78	22.02	21.80			
10	16QAM	1	0	22.21	21.98	22.05			
10	16QAM	1	25	22.15	22.19	21.99	23	1	
10	16QAM	1	49	22.21	22.00	22.21			
10	16QAM	25	0	20.99	20.67	20.86			
10	16QAM	25	12	20.91	20.94	20.86			
10	16QAM	25	25	21.12	20.77	20.81	22	2	
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			
10	64QAM	1	49	21.02	20.89	21.23	22	2	
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			
10	64QAM	50	0	20.05	19.75	19.72	21	3	
Channel				23035	23095	23155			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	22.81	22.75	22.90	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	20.82	20.76	20.74			
5	16QAM	12	7	20.86	20.81	20.86			
5	16QAM	12	13	20.89	20.78	20.67	22	2	
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			
5	64QAM	1	24	21.35	21.26	20.88	22	2	
5	64QAM	12	0	19.93	19.70	19.65			
5	64QAM	12	7	19.83	19.79	19.67			
5	64QAM	12	13	19.64	19.77	19.58			
5	64QAM	25	0	19.85	19.84	19.73	21	3	
Channel				23025	23095	23165			
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	22.58	22.57	22.81	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			
3	16QAM	1	8	22.00	22.44	22.01	23	1	
3	16QAM	1	14	22.01	22.14	22.02			
3	16QAM	8	0	20.80	20.88	20.68			
3	16QAM	8	4	21.00	20.92	20.71			
3	16QAM	8	7	20.85	20.84	20.73	22	2	
3	16QAM	15	0	20.90	20.86	20.67			
3	64QAM	1	0	21.17	20.96	20.91			
3	64QAM	1	8	20.94	20.99	20.88			
3	64QAM	1	14	20.98	21.12	20.88	22	2	
3	64QAM	8	0	19.84	19.87	19.67			
3	64QAM	8	4	19.80	19.83	19.69			
3	64QAM	8	7	19.91	19.88	19.67			
3	64QAM	15	0	19.78	19.74	19.59	21	3	
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	23	1	
1.4	QPSK	3	3	22.59	22.71	22.57			
1.4	QPSK	6	0	21.98	21.89	21.62			
1.4	16QAM	1	0	22.12	22.24	22.06			
1.4	16QAM	1	3	22.24	22.33	22.10	23	1	
1.4	16QAM	1	5	22.23	22.28	22.10			
1.4	16QAM	3	0	21.87	21.78	21.59			
1.4	16QAM	3	1	21.89	21.84	21.58			
1.4	16QAM	3	3	21.85	21.84	21.65	22	2	
1.4	16QAM	6	0	20.88	21.03	20.77			
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	20.55	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 (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	22.69	22.71						
10	QPSK	1	49	22.71	22.66	22.55						
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	21.68	21.53	21.59						
10	QPSK	50	0	21.58	21.69	21.66						
10	16QAM	1	0	21.94	21.86	21.97						
10	16QAM	1	25	21.87	21.90	21.94	23	1				
10	16QAM	1	49	21.92	21.90	21.74						
10	16QAM	25	0	20.87	20.82	20.91						
10	16QAM	25	12	20.88	20.83	20.85						
10	16QAM	25	25	20.86	20.78	20.78	22	2				
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						
10	64QAM	1	49	20.43	20.43	20.31	21	3				
10	64QAM	25	0	19.34	19.32	19.39						
10	64QAM	25	12	19.37	19.33	19.33						
10	64QAM	25	25	19.37	19.26	19.25	22	2				
10	64QAM	50	0	19.35	19.31	19.27						
Channel				23035	23095	23155						
Frequency (MHz)				701.5	707.5	713.5						
5	QPSK	1	0	22.67	22.71	22.69	24	0				
5	QPSK	1	0	21.84	21.72	21.68						
5	QPSK	1	24	22.66	22.67	22.53						
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	21.98	21.94	23	1				
5	16QAM	1	24	21.89	21.82	21.74						
5	16QAM	12	0	20.84	20.76	20.88						
5	16QAM	12	14	20.78	20.72	20.83						
5	16QAM	12	13	20.79	20.73	20.69	22	2				
5	16QAM	25	0	20.84	20.78	20.82						
5	64QAM	1	0	20.44	20.51	20.43						
5	64QAM	1	12	20.34	20.55	20.42						
5	64QAM	1	24	20.42	20.50	20.30	22	2				
5	64QAM	12	0	19.36	19.33	19.35						
5	64QAM	12	7	19.33	19.35	19.24						
5	64QAM	12	13	19.27	19.29	19.27						
5	64QAM	25	0	19.26	19.27	19.27	21	3				
5	64QAM	25	12	19.26	19.25	19.25						
Channel				23025	23095	23165						
Frequency (MHz)				700.5	707.5	714.5						
3	QPSK	1	0	22.68	22.82	22.83	24	0				
3	QPSK	1	8	22.68	22.68	22.60						
3	QPSK	1	14	22.66	22.69	22.55						
3	QPSK	8	0	21.63	21.61	21.61						
3	QPSK	8	4	21.63	21.66	21.55	23	1				
3	QPSK	8	7	21.64	21.59	21.55						
3	QPSK	15	0	21.60	21.59	21.57						
3	16QAM	1	0	21.96	21.87	21.81						
3	16QAM	1	8	21.89	21.94	21.85	23	1				
3	16QAM	1	14	21.82	21.90	21.82						
3	16QAM	8	0	20.85	20.87	20.86						
3	16QAM	8	4	20.87	20.87	20.84						
3	16QAM	8	7	20.88	20.88	20.84	22	2				
3	16QAM	15	0	20.84	20.82	20.78						
3	16QAM	1	0	20.54	20.44	20.39						
3	64QAM	1	8	20.48	20.50	20.43						
3	64QAM	1	14	20.49	20.55	20.35	22	2				
3	64QAM	8	0	19.33	19.34	19.31						
3	64QAM	8	4	19.35	19.36	19.25						
3	64QAM	8	7	19.36	19.30	19.23						
3	64QAM	15	0	19.28	19.24	19.19	21	3				
Channel				23017	23095	23173						
Frequency (MHz)				699.7	707.5	715.3						
1.4	QPSK	1	0	22.65	22.64	22.59			24	0		
1.4	QPSK	1	3	22.68	22.69	22.57						
1.4	QPSK	1	5	22.65	22.67	22.50						
1.4	QPSK	3	0	22.66	22.65	22.53						
1.4	QPSK	3	1	22.68	22.67	22.54	23	1				
1.4	QPSK	3	3	22.67	22.68	22.54						
1.4	QPSK	6	0	21.85	21.83	21.56						
1.4	16QAM	1	0	21.79	21.80	21.80						
1.4	16QAM	1	3	21.97	21.89	21.79	23	1				
1.4	16QAM	1	5	21.84	21.94	21.74						
1.4	16QAM	3	0	21.68	21.57	21.50						
1.4	16QAM	3	1	21.71	21.66	21.61						
1.4	16QAM	3	3	21.62	21.66	21.55	22	2				
1.4	16QAM	6	0	20.88	20.89	20.82						
1.4	64QAM	1	0	20.45	20.55	20.33						
1.4	64QAM	1	3	20.52	20.51	20.39						
1.4	64QAM	1	5	20.43	20.46	20.33	22	2				
1.4	64QAM	3	0	20.40	20.44	20.26						
1.4	64QAM	3	1	20.46	20.37	20.31						
1.4	64QAM	3	3	20.44	20.37	20.27						
1.4	64QAM	6	0	19.24	19.27	19.16	21	3				



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	24	0	
10	QPSK	1	25	22.79	22.87	22.87			
10	QPSK	1	49	22.88	22.78	22.99			
10	QPSK	25	0	21.73	21.74	21.69	23	1	
10	QPSK	25	12	21.57	21.59	21.71			
10	QPSK	25	25	21.58	21.56	21.60			
10	QPSK	50	0	21.61	21.72	21.70	23	1	
10	16QAM	1	0	21.81	22.11	21.75			
10	16QAM	1	25	22.05	21.96	21.67			
10	16QAM	1	49	21.75	22.09	22.13	22	2	
10	16QAM	25	0	20.60	20.68	20.66			
10	16QAM	25	12	20.71	20.71	20.72			
10	16QAM	25	25	20.58	20.61	20.62	22	2	
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	21	3	
10	64QAM	25	25	19.58	19.51	19.57			
10	64QAM	50	0	19.54	19.55	19.64			
Channel				23795	23790	23805	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				709.5	710	710.5			
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	22.49			
5	QPSK	12	0	21.64	21.79	21.71	23	1	
5	QPSK	12	7	21.71	21.69	21.61			
5	QPSK	12	13	21.72	21.64	21.61			
5	QPSK	25	0	21.76	21.70	21.66	23	1	
5	16QAM	1	0	22.25	22.16	21.98			
5	16QAM	1	12	21.90	21.82	22.06			
5	16QAM	1	24	21.75	21.87	21.79	22	2	
5	16QAM	12	0	20.61	20.72	20.68			
5	16QAM	12	7	20.70	20.72	20.63			
5	16QAM	12	13	20.70	20.55	20.62	22	2	
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	19.57	19.60	19.62	21	3	
5	64QAM	12	13	19.69	19.47	19.63			
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	22.65	24	0	
10	QPSK	1	25	22.71	22.71	22.70			
10	QPSK	1	49	22.56	22.55	22.52			
10	QPSK	25	0	21.63	21.71	21.70	23	1	
10	QPSK	25	12	21.66	21.65	21.65			
10	QPSK	25	25	21.49	21.51	21.55			
10	QPSK	50	0	21.60	21.58	21.63	23	1	
10	16QAM	1	0	21.91	21.97	21.92			
10	16QAM	1	25	21.87	21.96	21.80			
10	16QAM	1	49	21.70	21.69	21.67	22	2	
10	16QAM	25	0	20.87	20.88	20.92			
10	16QAM	25	12	20.85	20.79	20.77			
10	16QAM	25	25	20.71	20.72	20.73	22	2	
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				23795	23790	23805	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				709.5	710	710.5			
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	22.62	22.67	22.55			
5	QPSK	12	0	21.62	21.69	21.66	23	1	
5	QPSK	12	7	21.60	21.64	21.59			
5	QPSK	12	13	21.58	21.53	21.50			
5	QPSK	25	0	21.64	21.63	21.57	23	1	
5	16QAM	1	0	21.84	21.95	21.88			
5	16QAM	1	12	21.91	21.81	21.75			
5	16QAM	1	24	21.72	21.88	21.68	22	2	
5	16QAM	12	0	20.83	20.84	20.81			
5	16QAM	12	7	20.77	20.83	20.71			
5	16QAM	12	13	20.73	20.70	20.68	22	2	
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	21	3	
5	64QAM	12	13	19.25	19.24	19.20			
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)				831.5	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	22.72	22.83	22.77			
15	QPSK	36	0	21.55	21.74	21.68	23	1	
15	QPSK	36	20	21.65	21.69	21.71			
15	QPSK	36	39	21.52	21.72	21.69			
15	QPSK	75	0	21.57	21.77	21.73	23	1	
15	16QAM	1	0	21.83	21.91	22.04			
15	16QAM	1	37	21.91	22.08	21.95			
15	16QAM	1	74	21.85	21.97	21.97	22	2	
15	16QAM	36	0	20.61	20.75	20.68			
15	16QAM	36	20	20.69	20.69	20.70			
15	16QAM	36	39	20.52	20.74	20.65	21	3	
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	19.86	19.86			
Channel				26767	26865	26960	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	0	22.80	22.78	22.71	24	0	
10	QPSK	1	25	22.72	22.83	22.79			
10	QPSK	1	49	22.70	22.69	22.70			
10	QPSK	25	0	21.53	21.66	21.86	23	1	
10	QPSK	25	12	21.66	21.73	21.71			
10	QPSK	25	25	21.62	21.81	21.78			
10	QPSK	50	0	21.58	21.76	21.87	23	1	
10	16QAM	1	0	21.84	21.91	22.04			
10	16QAM	1	25	21.96	21.96	21.96			
10	16QAM	1	49	21.95	21.88	22.04	22	2	
10	16QAM	25	0	20.51	20.65	20.84			
10	16QAM	25	12	20.64	20.70	20.72			
10	16QAM	25	25	20.81	20.79	20.77	22	2	
10	16QAM	50	0	20.55	20.69	20.81			
10	64QAM	1	0	20.74	20.81	20.79			
10	64QAM	1	25	20.84	20.88	20.89	22	2	
10	64QAM	1	49	20.85	20.82	20.80			
10	64QAM	25	0	19.75	19.87	19.88			
10	64QAM	25	12	19.87	19.92	19.86	21	3	
10	64QAM	25	25	19.78	19.98	19.96			
10	64QAM	50	0	19.74	19.88	19.98			
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	0	22.81	22.68	22.74	24	0	
5	QPSK	1	12	22.66	22.79	22.73			
5	QPSK	1	24	22.68	22.73	22.73			
5	QPSK	12	0	21.60	21.69	21.70	23	1	
5	QPSK	12	1	21.64	21.74	21.69			
5	QPSK	12	13	21.70	21.75	21.69			
5	QPSK	25	0	21.65	21.69	21.70	23	1	
5	16QAM	1	0	21.81	21.83	21.96			
5	16QAM	1	12	21.83	22.05	21.90			
5	16QAM	1	24	21.95	21.86	21.98	22	2	
5	16QAM	12	0	20.57	20.63	20.66			
5	16QAM	12	7	20.64	20.65	20.64			
5	16QAM	12	13	20.83	20.67	20.67	22	2	
5	16QAM	25	0	20.65	20.70	20.65			
5	64QAM	1	0	20.75	20.82	20.82			
5	64QAM	1	12	20.70	20.88	20.84	22	2	
5	64QAM	1	24	20.78	20.81	20.82			
5	64QAM	12	0	19.75	19.85	19.91			
5	64QAM	12	7	19.85	19.88	19.89	21	3	
5	64QAM	12	13	19.83	19.88	19.88			
5	64QAM	25	0	19.82	19.88	19.86			
Channel				26802	26865	27025	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				815.5	831.5	847.5			
3	QPSK	1	0	22.81	22.78	22.66	24	0	
3	QPSK	1	8	22.57	22.71	22.68			
3	QPSK	1	14	22.58	22.69	22.69			
3	QPSK	8	0	21.58	21.68	21.69	23	1	
3	QPSK	8	4	21.57	21.67	21.66			
3	QPSK	8	7	21.58	21.67	21.67			
3	QPSK	15	0	21.56	21.70	21.65	23	1	
3	16QAM	1	0	21.78	21.94	21.86			
3	16QAM	1	8	21.83	22.00	21.83			
3	16QAM	1	14	21.77	21.89	21.97	22	2	
3	16QAM	6	0	20.56	20.73	20.76			
3	16QAM	8	0	20.63	20.74	20.74			
3	16QAM	8	7	20.80	20.75	20.72	22	2	
3	16QAM	15	0	20.58	20.72	20.67			
3	64QAM	1	0	20.70	20.93	20.73			
3	64QAM	1	8	20.70	20.84	20.82	22	2	
3	64QAM	1	14	20.67	20.82	20.76			
3	64QAM	8	0	19.79	19.84	19.88			
3	64QAM	8	4	19.76	19.87	19.86	21	3	
3	64QAM	8	7	19.76	19.89	19.88			
3	64QAM	15	0	19.73	19.88	19.88			
Channel				26907	26965	27033	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				814.7	831.5	849.3			
1.4	QPSK	1	0	22.59	22.73	22.70	24	0	
1.4	QPSK	1	3	22.58	22.75	22.74			
1.4	QPSK	3	0	22.80	22.72	22.66			
1.4	QPSK	3	1	22.80	22.72	22.72	23	1	
1.4	QPSK	3	3	22.61	22.72	22.75			
1.4	QPSK	6	0	21.57	21.73	21.68			
1.4	16QAM	1	0	21.86	21.94	21.87	23	1	
1.4	16QAM	1	3	21.81	22.02	21.93			
1.4	16QAM	1	5	21.85	21.97	21.96			
1.4	16QAM	3	0	21.53	21.75	21.70	23	1	
1.4	16QAM	3	1	21.56	21.67	21.75			
1.4	16QAM	3	3	21.59	21.62	21.68			
1.4	16QAM	6	0	20.66	20.73	20.75	22	2	
1.4	64QAM	1	0	20.73	20.85	20.80			
1.4	64QAM	1	3	20.68	20.80	20.82			
1.4	64QAM	1	5	20.62	20.86	20.86	22	2	
1.4	64QAM	3	0	20.67	20.71	20.74			
1.4	64QAM	3	1	20.64	20.76	20.72			
1.4	64QAM	3	3	20.62	20.72	20.77	21	3	
1.4	64QAM	6	0	19.72	19.81	19.79			



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				26765	26865	26965				
Frequency (MHz)				821.5	831.5	841.5				
15	QPSK	1	0	23.25	23.36	23.31	24	0		
15	QPSK	1	37	23.18	23.26	23.33				
15	QPSK	1	74	23.14	23.16	23.21				
15	QPSK	36	0	22.25	22.38	22.28				
15	QPSK	36	20	22.18	22.21	22.22	23	1		
15	QPSK	36	39	22.29	22.23	22.15				
15	QPSK	75	0	22.33	22.41	22.24				
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	21.26				
15	16QAM	36	39	21.29	21.28	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				
15	64QAM	1	74	21.29	21.27	21.25	21	3		
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				
15	64QAM	75	0	20.32	20.35	20.22	21	3		
Channel				26760	26865	26960				
Frequency (MHz)				819 <th>833.5</th> <th>844</th>	833.5	844				
10	QPSK	1	0	23.31	23.33	23.18	24	0		
10	QPSK	1	25	23.08	23.28	23.27				
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	23	1		
10	QPSK	25	25	22.39	22.27	22.04				
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	21.48	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	21	3		
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				
10	64QAM	50	0	20.36	20.45	20.21	21	3		
Channel				26765	26865	27015				
Frequency (MHz)				816.5	831.5	846.5				
5	QPSK	1	0	23.34	23.28	23.26	24	0		
5	QPSK	1	12	23.19	23.27	23.24				
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	23	1		
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	22.35	23	1		
5	16QAM	1	24	22.32	22.04	22.28				
5	16QAM	12	0	21.38	21.51	21.25				
5	16QAM	12	7	21.20	21.24	21.37				
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				
5	64QAM	1	24	21.10	21.23	21.41	21	3		
5	64QAM	12	0	20.07	20.27	19.94				
5	64QAM	12	7	20.30	20.20	20.35				
5	64QAM	12	13	20.34	20.14	20.21				
5	64QAM	25	0	20.39	20.46	20.33	21	3		
Channel				26765	26865	27025				
Frequency (MHz)				815.5	831.5	847.5				
3	QPSK	1	0	23.27	23.13	23.19	24	0		
3	QPSK	1	8	23.10	23.15	23.13				
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	23	1		
3	QPSK	8	7	22.25	22.31	22.23				
3	QPSK	15	0	22.22	22.09	22.51				
3	16QAM	1	0	22.16	22.42	22.31				
3	16QAM	1	8	22.02	22.02	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	21.25				
3	16QAM	8	7	21.11	21.30	21.51	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	21.06	21.34	21.22				
3	64QAM	1	14	21.09	21.32	21.33	21	3		
3	64QAM	8	0	20.21	20.22	20.06				
3	64QAM	8	4	20.20	20.11	20.48				
3	64QAM	8	7	20.41	20.24	20.12				
3	64QAM	15	0	20.45	20.38	20.37	21	3		
Channel				26897	26865	27033				
Frequency (MHz)				814.7	831.5	848.3				
1.4	QPSK	1	0	23.13	23.05	23.16	24	0		
1.4	QPSK	1	3	23.20	23.28	23.24				
1.4	QPSK	1	5	22.97	23.35	23.01				
1.4	QPSK	3	0	22.10	22.53	22.42				
1.4	QPSK	3	1	22.20	22.48	22.42	23	1		
1.4	QPSK	3	3	22.13	22.35	22.08				
1.4	QPSK	6	0	22.23	22.20	22.36				
1.4	16QAM	1	0	22.19	22.35	22.12				
1.4	16QAM	1	3	22.10	21.96	22.26	23	1		
1.4	16QAM	1	5	22.22	21.95	22.40				
1.4	16QAM	3	0	21.83	21.58	21.19				
1.4	16QAM	3	1	21.22	21.16	21.20				
1.4	16QAM	3	3	21.19	21.41	21.41	22	2		
1.4	16QAM	6	0	21.47	21.44	21.42				
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	21.36	22	2		
1.4	64QAM	3	0	20.07	20.10	20.14				
1.4	64QAM	3	1	20.20	20.08	20.53				
1.4	64QAM	3	3	20.40	20.17	20.04				
1.4	64QAM	6	0	20.42	20.28	20.37	21	3		

Band 38 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				37950	38000	38150						
Frequency (MHz)				2260	2295	2610						
20	QPSK	1	0	22.57	22.86	22.54	24	0				
20	QPSK	1	49	22.81	22.77	22.78						
20	QPSK	1	99	22.62	22.59	22.62						
20	QPSK	50	0	21.85	21.93	21.84						
20	QPSK	50	24	21.82	21.90	21.90	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						
20	16QAM	1	49	22.01	22.00	21.99	23	1				
20	16QAM	1	99	21.87	21.84	21.83						
20	16QAM	50	0	20.86	20.86	20.84						
20	16QAM	50	24	20.92	20.90	20.91						
20	16QAM	50	50	20.90	20.88	20.86	22	2				
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	20.58	20.56	20.57						
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				37825	38000	38175	Tune-up limit (dBm)	MPR (db)				
Frequency (MHz)				2262	2262	2258						
15	QPSK	1	0	22.62	22.62	22.58	24	0				
15	QPSK	1	37	22.80	22.78	22.83						
15	QPSK	1	74	22.67	22.64	22.65						
15	QPSK	36	0	21.81	21.83	21.81						
15	QPSK	36	20	21.82	21.86	21.85	23	1				
15	QPSK	36	39	21.85	21.87	21.86						
15	QPSK	36	50	21.89	21.89	21.84						
15	16QAM	1	0	21.88	21.87	21.83						
15	16QAM	1	37	22.00	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	16QAM	1	0	20.58	20.58	20.53	22	2				
15	64QAM	1	37	20.70	20.69	20.71						
15	64QAM	1	74	20.63	20.61	20.62						
15	64QAM	36	0	19.82	19.84	19.84		21	3			
15	64QAM	36	20	19.82	19.85	19.81						
15	64QAM	36	39	19.86	19.84	19.86						
15	64QAM	75	0	19.84	19.83	19.81						
Channel				37975	38000	38025	Tune-up limit (dBm)				MPR (db)	
Frequency (MHz)				2270	2295	2615						
10	QPSK	1	0	22.70	22.76	22.72	24	0				
10	QPSK	1	25	22.79	22.78	22.81						
10	QPSK	1	49	22.77	22.75	22.76						
10	QPSK	25	0	21.88	21.88	21.87						
10	QPSK	25	12	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	22.06	21.96						
10	16QAM	1	25	21.99	21.98	22.00	23	1				
10	16QAM	1	49	21.98	21.96	21.97						
10	16QAM	25	0	20.88	20.89	20.87						
10	16QAM	25	12	20.89	20.87	20.89						
10	16QAM	25	25	20.89	20.89	20.90	22	2				
10	16QAM	50	0	20.93	20.90	20.91						
10	64QAM	1	0	20.65	20.68	20.64	22	2				
10	64QAM	1	25	20.70	20.70	20.71						
10	64QAM	1	49	20.69	20.67	20.69						
10	64QAM	25	0	19.84	19.82	19.83	21	3				
10	64QAM	25	12	19.85	19.83	19.84						
10	64QAM	25	25	19.87	19.82	19.86						
10	64QAM	50	0	19.83	19.83	19.84						
Channel				37775	38000	38220				Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				2272	2295	2617.5						
5	QPSK	1	0	22.70	22.72	22.74	24	0				
5	QPSK	1	12	22.77	22.78	22.75						
5	QPSK	1	24	22.73	22.72	22.77						
5	QPSK	12	0	21.92	21.90	21.88		23	1			
5	QPSK	12	7	21.89	21.90	21.89						
5	QPSK	12	13	21.84	21.89	21.91						
5	QPSK	25	0	21.92	21.91	21.90	23	1				
5	16QAM	1	0	21.99	21.98	21.99						
5	16QAM	1	12	22.02	21.97	21.99						
5	16QAM	1	24	22.03	22.01	21.98		23	1			
5	16QAM	12	0	20.87	20.86	20.83						
5	16QAM	12	7	20.85	20.81	20.85						
5	16QAM	12	13	20.80	20.83	20.82		22	2			
5	16QAM	25	0	20.88	20.91	20.90						
5	64QAM	1	0	20.67	20.69	20.70		22	2			
5	64QAM	1	12	20.70	20.70	20.67						
5	64QAM	1	24	20.72	20.70	20.73						
5	64QAM	12	0	19.82	19.82	19.81		21	3			
5	64QAM	12	7	19.82	19.79	19.83						
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 Mod Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.74	22.72	22.87	22.77	22.87	24
20	QPSK	1	49	22.54	22.52	22.57	22.59	22.59	
20	QPSK	1	99	22.59	22.59	22.62	22.61	22.50	
20	QPSK	50	0	21.88	21.83	21.94	21.89	21.80	
20	QPSK	50	24	21.83	21.87	21.87	21.88	21.87	23
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	
20	16QAM	1	49	21.98	21.96	21.97	21.99	21.90	23
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	20.82	
20	16QAM	50	24	20.90	20.90	20.89	20.88	20.83	
20	16QAM	50	50	20.89	20.89	20.85	20.87	20.81	22
20	16QAM	100	0	20.83	20.90	20.87	20.89	20.77	
20	64QAM	1	0	20.53	20.50	20.51	20.53	20.53	
20	64QAM	1	49	20.69	20.68	20.70	20.70	20.64	
20	64QAM	1	99	20.56	20.57	20.57	20.54	20.72	22
20	64QAM	50	0	19.78	19.75	19.79	19.83	19.75	
20	64QAM	50	24	19.79	19.79	19.80	19.85	19.75	
20	64QAM	50	50	19.80	19.79	19.81	19.83	19.75	
20	64QAM	100	0	19.87	19.91	19.90	19.84	19.82	21
Channel				39725	40173	40620	41069	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.62	22.61	22.66	22.68	22.65	24.00
15	QPSK	1	37	22.73	22.77	22.76	22.80	22.73	
15	QPSK	1	74	22.59	22.64	22.69	22.66	22.58	
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
15	QPSK	36	39	21.87	21.84	21.83	21.87	21.77	
15	QPSK	36	50	21.89	21.87	21.90	21.90	21.83	
15	16QAM	1	0	21.89	21.86	21.91	21.91	21.85	
15	16QAM	1	24	21.86	21.88	21.89	21.90	21.86	23
15	16QAM	1	74	21.85	21.91	21.92	21.89	21.79	
15	16QAM	36	0	20.77	20.77	20.76	20.84	20.79	
15	16QAM	36	20	20.82	20.79	20.79	20.85	20.79	
15	16QAM	36	39	20.79	20.78	20.79	20.87	20.74	22
15	16QAM	36	50	20.80	20.85	20.86	20.87	20.84	
15	16QAM	50	0	20.56	20.58	20.58	20.67	20.61	
15	64QAM	1	37	20.66	20.68	20.71	20.74	20.61	
15	64QAM	1	74	20.58	20.63	20.63	20.64	20.54	22
15	64QAM	1	99	20.52	20.56	20.56	20.55	20.55	
15	64QAM	36	0	19.82	19.82	19.85	19.86	19.82	
15	64QAM	36	20	19.85	19.82	19.80	19.86	19.81	
15	64QAM	36	39	19.87	19.82	19.84	19.86	19.79	21
15	64QAM	36	50	19.82	19.82	19.85	19.86	19.81	
15	64QAM	75	0	19.84	19.86	19.83	19.90	19.81	
Channel				39700	40170	40620	41060	41500	
Frequency (MHz)				2501.0	25457	2593	2640.0	2687.5	
10	QPSK	1	0	22.68	22.68	22.73	22.76	22.71	24.00
10	QPSK	1	28	22.77	22.76	22.83	22.81	22.71	
10	QPSK	1	69	22.70	22.71	22.76	22.76	22.66	
10	QPSK	1	108	21.85	21.89	21.90	21.94	21.86	
10	QPSK	25	12	21.91	21.88	21.87	21.89	21.84	23
10	QPSK	25	28	21.88	21.89	21.86	21.93	21.89	
10	QPSK	50	0	21.89	21.89	21.89	21.94	21.88	
10	16QAM	1	0	21.84	21.88	21.88	21.92	21.82	
10	16QAM	1	25	22.00	21.98	22.02	21.99	21.93	23
10	16QAM	1	49	21.94	21.96	21.98	21.96	21.87	
10	16QAM	25	0	20.87	20.88	20.89	20.91	20.86	
10	16QAM	25	12	20.91	20.88	20.89	20.92	20.85	
10	16QAM	25	28	20.92	20.87	20.89	20.94	20.90	22
10	16QAM	25	50	20.92	20.92	20.91	20.94	20.87	
10	16QAM	1	0	20.63	20.64	20.67	20.70	20.65	
10	16QAM	1	25	20.69	20.68	20.72	20.69	20.66	
10	16QAM	1	49	20.65	20.66	20.69	20.67	20.60	22
10	16QAM	25	0	19.83	19.83	19.83	19.86	19.80	
10	16QAM	25	12	19.84	19.82	19.84	19.87	19.83	
10	16QAM	25	28	19.84	19.83	19.84	19.89	19.83	
10	16QAM	25	50	19.83	19.83	19.82	19.85	19.78	21
Channel				39675	40148	40620	41033	41505	
Frequency (MHz)				2498.5	2545.8	2593	2640.0	2687.5	
5	QPSK	1	0	22.69	22.72	22.76	22.77	22.72	24.00
5	QPSK	1	12	22.73	22.69	22.79	22.76	22.72	
5	QPSK	1	24	22.77	22.70	22.79	22.74	22.69	
5	QPSK	12	0	21.89	21.89	21.89	21.95	21.85	
5	QPSK	12	7	21.86	21.89	21.90	21.90	21.84	23
5	QPSK	12	13	21.84	21.88	21.84	21.92	21.81	
5	QPSK	12	19	21.90	21.91	21.91	21.92	21.85	
5	16QAM	1	0	21.95	21.97	21.99	21.96	21.91	
5	16QAM	1	12	21.99	21.96	22.00	21.98	21.91	23
5	16QAM	1	24	21.86	21.98	22.01	22.00	21.90	
5	16QAM	12	7	20.83	20.88	20.84	20.87	20.80	
5	16QAM	12	7	20.83	20.83	20.83	20.86	20.79	
5	16QAM	12	13	20.81	20.80	20.80	20.87	20.78	22
5	16QAM	25	0	20.91	20.93	20.90	20.94	20.85	
5	16QAM	1	0	20.67	20.67	20.67	20.69	20.64	
5	16QAM	1	12	20.66	20.64	20.72	20.69	20.64	
5	16QAM	1	24	20.70	20.69	20.73	20.73	20.65	22
5	16QAM	12	0	19.81	19.82	19.81	19.84	19.79	
5	16QAM	12	7	19.80	19.79	19.82	19.84	19.77	
5	16QAM	12	13	19.80	19.78	19.78	19.84	19.74	
5	16QAM	25	0	19.85	19.85	19.84	19.88	19.84	21
Channel				39650	40145	40620	41008	41484	

Reduced Power**Ant 4 Head**

CellMNO	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	156	161	201		156	161	201	
TX Channel	824.2	836.4	849.8		824.2	836.4	849.8	
Frequency (MHz)	824.2	836.4	849.8		824.2	836.4	849.8	
GSM 1 Tx slot	28.31	28.31	28.44	29.50	19.31	19.31	19.44	20.50
GPRS 1 Tx slot	28.26	28.31	28.14	29.50	19.26	19.31	19.14	20.50
GPRS 2 Tx slots	27.25	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	21.31	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	14.96	15.00
EDGE 3 Tx slots	18.24	18.34	17.90	19.00	13.98	13.78	13.66	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	WCDMA V			Tune-up Limit (dBm)	WCDMA II			Tune-up Limit (dBm)
	TX Channel	4132	4162		4253	9562	9560	
Rx Channel		4407	4407	4468		9600	9600	
Frequency (MHz)		826.4	836.4	846.6		1652.4	1660	1657.5
3GPP Rel 99	AMR 12.2Kbps	21.37	21.39	21.34	22.00	21.38	21.39	21.07
3GPP Rel 99	RMC 12.2Kbps	21.41	21.51	21.48	22.00	21.62	21.65	21.52
3GPP Rel 6	HSPA Subtest-1	20.41	20.40	20.48	21.00	20.40	20.43	20.29
3GPP Rel 6	HSPA Subtest-2	20.42	20.43	20.49	21.00	20.44	20.42	20.28
3GPP Rel 6	HSPA Subtest-3	19.90	19.91	19.98	20.50	19.91	19.94	19.80
3GPP Rel 6	HSPA 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	HSPA Subtest-1	18.43	18.40	18.48	19.00	18.70	18.72	18.58
3GPP Rel 6	HSPA Subtest-2	18.39	18.42	18.46	19.00	18.44	18.44	18.29
3GPP Rel 6	HSPA Subtest-3	19.40	19.42	19.46	20.00	19.41	19.45	19.30
3GPP Rel 6	HSPA Subtest-4	19.40	19.43	19.46	19.00	18.43	18.41	18.29
3GPP Rel 6	HSPA 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				23060	23095	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	21.75	21.82	21.76	22.5	0	
10	QPSK	1	25	21.56	21.57	21.52			
10	QPSK	1	49	21.46	21.56	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	20.55	20.48			
10	16QAM	1	25	20.38	20.41	20.39	21.5	1	
10	16QAM	1	49	20.52	20.41	20.40			
10	16QAM	25	0	19.43	19.51	19.47			
10	16QAM	25	12	19.41	19.43	19.38			
10	16QAM	25	25	19.43	19.37	19.39	20.5	2	
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			
10	64QAM	1	49	19.46	19.34	19.43	20.5	2	
10	64QAM	25	0	18.40	18.46	18.48			
10	64QAM	25	12	18.43	18.39	18.36			
10	64QAM	25	25	18.40	18.33	18.34			
10	64QAM	50	0	18.39	18.56	18.31	19.5	3	
Channel				23035	23095	23155			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	21.47	21.53	21.44	22.5	0	
5	QPSK	1	12	21.61	21.48	21.57			
5	QPSK	1	24	21.35	21.60	21.39			
5	QPSK	12	0	20.41	20.53	20.50			
5	QPSK	12	7	20.29	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			
5	16QAM	12	13	19.35	19.34	19.35	20.5	2	
5	16QAM	25	0	19.34	19.59	19.20			
5	64QAM	1	0	19.47	19.55	19.53			
5	64QAM	1	12	19.45	19.51	19.42			
5	64QAM	1	24	19.48	19.44	19.45	20.5	2	
5	64QAM	12	0	18.41	18.39	18.61			
5	64QAM	12	7	18.36	18.41	18.32			
5	64QAM	12	13	18.29	18.31	18.39			
5	64QAM	25	0	18.37	18.66	18.44	19.5	3	
Channel				23025	23095	23165			
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	21.61	21.61	21.42	22.5	0	
3	QPSK	1	8	21.54	21.49	21.55			
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	20.19	20.36	20.32			
3	16QAM	1	0	20.48	20.66	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	19.69	19.62			
3	16QAM	8	4	19.64	19.57	19.41			
3	16QAM	8	7	19.36	19.31	19.20	20.5	2	
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			
3	64QAM	1	14	19.55	19.48	19.59	20.5	2	
3	64QAM	8	0	18.32	18.46	18.65			
3	64QAM	8	4	18.34	18.42	18.35			
3	64QAM	8	7	18.25	18.29	18.38			
3	64QAM	15	0	18.32	18.73	18.50	19.5	3	
Channel				23017	23095	23173			
Frequency (MHz)				699.7	707.5	716.3			
1.4	QPSK	1	0	21.53	21.61	21.57	22.5	0	
1.4	QPSK	1	3	21.60	21.61	21.46			
1.4	QPSK	1	5	21.51	21.57	21.52			
1.4	QPSK	3	0	20.75	20.90	20.77			
1.4	QPSK	3	1	20.85	20.91	20.69	21.5	1	
1.4	QPSK	3	3	20.74	20.82	20.50			
1.4	QPSK	6	0	20.13	20.25	20.51			
1.4	16QAM	1	0	20.49	20.61	20.45			
1.4	16QAM	1	3	20.43	20.19	20.14	21.5	1	
1.4	16QAM	1	5	20.55	20.47	20.51			
1.4	16QAM	3	0	20.63	20.57	20.49			
1.4	16QAM	3	1	20.34	20.46	20.53			
1.4	16QAM	3	3	20.16	20.16	20.32	20.5	2	
1.4	16QAM	6	0	19.46	19.57	19.24			
1.4	64QAM	1	0	19.36	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	18.68	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				23780	23790	23800			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	21.61	21.61	21.65	22.5	0	
10	QPSK	1	25	21.33	21.32	21.35			
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	20.26	20.58	20.33			
10	16QAM	1	25	20.55	20.51	20.12	21.5	1	
10	16QAM	1	49	20.21	20.58	20.67			
10	16QAM	25	0	19.06	19.26	19.14			
10	16QAM	25	12	19.26	19.25	19.19			
10	16QAM	25	25	19.08	19.16	19.20	20.5	2	
10	16QAM	50	0	19.20	19.14	19.19			
10	64QAM	1	0	19.38	19.25	19.46			
10	64QAM	1	25	19.49	19.45	19.38			
10	64QAM	1	49	19.33	19.29	19.22	20.5	2	
10	64QAM	25	0	18.03	17.98	18.16			
10	64QAM	25	12	18.28	18.15	18.12			
10	64QAM	25	25	18.08	18.01	18.13			
10	64QAM	50	0	17.99	18.02	18.22	19.5	3	
Channel				23755	23790	23825			
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	21.51	21.57	21.78	22.5	0	
5	QPSK	1	12	21.34	21.44	21.42			
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			
5	16QAM	12	13	19.15	19.13	19.12	20.5	2	
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			
5	64QAM	1	24	19.38	19.38	19.22	20.5	2	
5	64QAM	12	0	18.16	18.12	18.11			
5	64QAM	12	7	18.26	18.21	18.26			
5	64QAM	12	13	18.12	18.08	18.04			
5	64QAM	25	0	18.07	18.01	18.10	19.5	3	

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	19	0	
Frequency (MHz)				18650	18900	19000			
20	QPSK	1	0	18.04	18.06	17.86	18	1	
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			
20	QPSK	50	50	17.11	17.06	17.15	18	1	
20	QPSK	100	0	17.10	17.08	17.01			
20	16QAM	1	0	17.13	17.07	17.14			
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	17	2	
20	16QAM	50	24	16.53	16.32	16.28			
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			
20	64QAM	1	49	15.82	15.75	15.63	17	2	
20	64QAM	1	99	15.84	15.81	15.67			
20	64QAM	50	0	15.73	15.75	15.58			
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	16	3	
Channel				18675 <th>18900</th> <th>19125</th>	18900	19125			
Frequency (MHz)				1867.5 <th>1880<th>1902.5</th><th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	1880 <th>1902.5</th> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	1902.5	Tune-up limit (dBm)	MPR (dB)	
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			
15	QPSK	36	20	16.55	16.52	16.44			
15	QPSK	36	39	16.53	16.51	16.41	18	1	
15	QPSK	75	0	16.64	16.53	16.54			
15	16QAM	1	0	17.06	17.22	17.10			
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	39	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			
15	64QAM	1	37	15.80	15.93	15.51	17	2	
15	64QAM	1	74	15.88	15.70	15.65			
15	64QAM	36	0	15.03	15.06	15.07			
15	64QAM	36	20	15.08	15.05	15.09			
15	64QAM	36	39	15.18	15.05	15.13			
15	64QAM	75	0	15.19	15.02	15.03	16	3	
Channel				18650	18900	19150			
Frequency (MHz)				1865 <th>1880</th> <th>1905<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	1880	1905 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
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			
10	QPSK	25	12	16.67	16.54	16.50			
10	QPSK	25	25	16.64	16.60	16.49	18	1	
10	QPSK	50	0	16.60	16.63	16.58			
10	16QAM	1	0	17.05	17.46	17.55			
10	16QAM	1	25	17.22	17.47	17.42			
10	16QAM	1	49	17.40	17.24	17.15			
10	16QAM	25	0	15.66	15.65	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			
10	64QAM	1	25	15.85	15.80	15.72	17	2	
10	64QAM	1	49	16.01	16.04	15.95			
10	64QAM	25	0	15.07	15.13	15.05			
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	16	3	
Channel				18625 <th>18900</th> <th>19175</th>	18900	19175			
Frequency (MHz)				1862.5 <th>1880</th> <th>1907.5</th> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	1880	1907.5	Tune-up limit (dBm)	MPR (dB)	
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			
5	QPSK	12	7	16.92	16.83	16.76			
5	QPSK	12	13	16.96	16.86	16.73	18	1	
5	QPSK	25	0	16.91	16.87	16.83			
5	16QAM	1	0	17.61	17.39	17.60			
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	18	1	
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			
5	64QAM	1	12	16.27	16.08	16.07	17	2	
5	64QAM	1	24	16.26	16.18	16.02			
5	64QAM	12	0	15.46	15.34	15.17			
5	64QAM	12	7	15.44	15.30	15.20			
5	64QAM	12	13	15.46	15.30	15.29			
5	64QAM	25	0	15.37	15.36	15.30	16	3	
Channel				18615	18900	19185			
Frequency (MHz)				1861.5 <th>1880</th> <th>1908.5</th> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	1880	1908.5	Tune-up limit (dBm)	MPR (dB)	
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			
3	QPSK	8	4	16.57	16.52	16.38			
3	QPSK	8	7	16.53	16.50	16.46	18	1	
3	QPSK	15	0	16.55	16.53	16.45			
3	16QAM	1	0	16.80	16.80	16.77			
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			
3	64QAM	1	8	15.58	15.43	15.80	17	2	
3	64QAM	1	14	15.85	15.63	15.63			
3	64QAM	8	0	15.08	15.12	15.02			
3	64QAM	8	4	15.04	15.07	15.16			
3	64QAM	8	7	15.03	15.18	15.23			
3	64QAM	15	0	15.09	15.05	15.08	16	3	
Channel				18597	18900	19183			
Frequency (MHz)				1859.7	1880	1908.3	Tune-up limit (dBm)	MPR (dB)	
1.4	QPSK	1	0	17.42	17.51	17.40	19	0	
1.4	QPSK	1	3	17.46	17.48	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			
1.4	QPSK	3	3	17.53	17.45	17.41	18	1	
1.4	QPSK	6	0	16.54	16.59	16.37			
1.4	16QAM	1	0	17.15	17.03	17.16			
1.4	16QAM	1	3	17.10	17.21	17.06			
1.4	16QAM	1	5	17.32	17.14	17.26			
1.4	16QAM	3	0	16.66	16.43	16.36	18	1	
1.4	16QAM	3	1	16.59	16.69	16.48			
1.4	16QAM	3	3	16.57	16.55	16.62			
1.4	16QAM	6	0	15.48	15.64	15.44	17	2	
1.4	64QAM	1	0	15.77	15.90	15.64			
1.4	64QAM	1	3	16.09	15.83	15.67			
1.4	64QAM	1	5	15.73	15.88	15.61	17	2	
1.4	64QAM	3	0	15.64	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			
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.	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	14.20	14.45	14.30	16	0		
20	QPSK	1	49	14.48	14.50	14.33				
20	QPSK	1	99	14.30	14.37	14.38				
20	QPSK	50	0	13.56	13.60	13.55				
20	QPSK	50	24	13.46	13.40	13.43	15	1		
20	QPSK	50	50	13.48	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	13.77	13.51	13.52	15	1		
20	16QAM	1	99	13.56	13.58	13.46				
20	16QAM	50	0	12.37	12.52	12.29				
20	16QAM	50	24	12.44	12.39	12.30				
20	16QAM	50	50	12.44	12.36	12.32	14	2		
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				
20	64QAM	1	99	12.46	12.45	12.70	14	2		
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				
20	64QAM	100	0	11.33	11.41	11.39	13	3		
Channel							Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)							172022	172322	172622	
15	QPSK	1	0	14.11	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	13.41	13.44	13.31				
15	QPSK	36	20	13.33	13.40	13.39	15	1		
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				
15	16QAM	36	20	12.39	12.37	12.30				
15	16QAM	36	39	12.46	12.22	12.33	14	2		
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				
15	64QAM	1	74	12.59	12.53	12.68	14	2		
15	64QAM	36	0	11.36	11.38	11.30				
15	64QAM	36	20	11.36	11.46	11.47				
15	64QAM	36	39	11.37	11.52	11.35				
15	64QAM	75	0	11.37	11.41	11.40	13	3		
Channel							Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)							172022	172322	172622	
10	QPSK	1	0	14.54	14.44	14.30	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	13.48	13.41				
10	QPSK	25	12	13.44	13.46	13.38	15	1		
10	QPSK	25	25	13.44	13.41	13.38				
10	QPSK	50	0	13.48	13.47	13.45				
10	16QAM	1	0	13.80	13.77	14.06				
10	16QAM	1	25	13.90	13.82	14.20	15	1		
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				
10	16QAM	25	25	12.47	12.45	12.41	14	2		
10	16QAM	50	0	12.42	12.48	12.43				
10	64QAM	1	0	12.92	12.75	12.64				
10	64QAM	1	25	12.44	12.42	12.77				
10	64QAM	1	49	12.48	12.52	12.62	14	2		
10	64QAM	25	0	11.46	11.57	11.56				
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	13	3		
Channel							Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)							172022	172322	172647	
5	QPSK	1	0	14.55	14.49	14.33	16	0		
5	QPSK	1	12	14.60	14.46	14.36				
5	QPSK	1	24	14.48	14.53	14.43				
5	QPSK	12	0	13.44	13.44	13.42				
5	QPSK	12	7	13.40	13.39	13.35	15	1		
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				
5	16QAM	1	12	13.83	14.03	13.84	15	1		
5	16QAM	1	24	14.05	13.78	13.62				
5	16QAM	12	0	12.51	12.43	12.41				
5	16QAM	12	7	12.47	12.42	12.48				
5	16QAM	12	13	12.43	12.30	12.36	14	2		
5	16QAM	25	0	12.84	12.83	12.74				
5	64QAM	1	0	13.08	12.59	12.72				
5	64QAM	1	12	12.64	12.88	12.94				
5	64QAM	1	24	12.61	12.79	12.64	14	2		
5	64QAM	12	0	11.49	11.52	11.47				
5	64QAM	12	7	11.30	11.26	11.28				
5	64QAM	12	13	11.35	11.41	11.29				
5	64QAM	25	0	11.35	11.27	11.34	13	3		
Channel							Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)							171987	172322	172657	
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	13.39				
3	QPSK	8	4	13.45	13.30	13.38	15	1		
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				
3	16QAM	1	8	13.74	13.77	13.92	15	1		
3	16QAM	1	14	13.75	14.12	13.86				
3	16QAM	8	0	12.51	12.35	12.39				
3	16QAM	8	4	12.50	12.43	12.37				
3	16QAM	8	7	12.28	12.43	12.32	14	2		
3	16QAM	15	0	12.30	12.36	12.44				
3	64QAM	1	0	12.58	12.61	12.55				
3	64QAM	1	8	12.64	12.29	12.60	14	2		
3	64QAM	1	14	12.45	12.40	12.61				
3	64QAM	8	0	11.49	11.32	11.36				
3	64QAM	8	4	11.50	11.30	11.34				
3	64QAM	8	7	11.41	11.41	11.21	13	3		
3	64QAM	15	0	11.31	11.42	11.31				
3	64QAM	15	8	11.30	11.32	11.05				
Channel							Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)							1717.5	1745	1778.5	
1.4	QPSK	1	0	14.51	14.36	14.03	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	14.48	13.41	13.33				
1.4	16QAM	1	0	13.63	13.66	13.58				
1.4	16QAM	1	3	13.75	13.60	13.67	15	1		
1.4	16QAM	1	5	13.73	13.85	14.07				
1.4	16QAM	3	0	13.39	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	14	2		
1.4	16QAM	6	0	12.46	12.56	12.43				
1.4	64QAM	1	0	12.72	12.71	12.68				
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	12.76	12.76	12.64				
1.4	64QAM	3	1	12.40	12.48	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 42 ANT5 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				42190	42590	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	15	1	
20	16QAM	1	0	13.94	14.07	13.84			
20	16QAM	1	49	13.92	14.06	13.77			
20	16QAM	1	99	13.92	14.05	13.83	14	2	
20	16QAM	50	0	13.12	13.20	12.89			
20	16QAM	50	24	13.11	13.19	12.85			
20	16QAM	50	50	13.09	13.12	12.85	14	2	
20	16QAM	100	0	13.20	13.18	12.89			
20	64QAM	1	0	13.12	13.17	12.89			
20	64QAM	1	49	13.13	13.19	12.90	13	3	
20	64QAM	1	99	13.14	13.16	12.86			
20	64QAM	50	0	12.12	12.19	11.87			
20	64QAM	50	24	12.14	12.18	11.90	14	2	
20	64QAM	50	50	12.14	12.20	11.87			
20	64QAM	100	0	12.14	12.18	11.87			
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500	3542.5			
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	13.49	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	13.56			
15	16QAM	1	74	13.59	13.39	13.54	14	2	
15	16QAM	36	0	12.46	12.36	12.39			
15	16QAM	36	20	12.49	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	11.39	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	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	14.50	14.47	14.50	16	0	
10	QPSK	1	25	14.49	14.29	14.46			
10	QPSK	1	49	14.36	14.27	14.51			
10	QPSK	25	0	13.60	13.39	13.54	15	1	
10	QPSK	25	12	13.63	13.40	13.43			
10	QPSK	25	25	13.61	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	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3452.5	3500	3547.5			
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	13.68	13.47	13.60	14	2	
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	11.56			

Ant 0 Sensor&Hotspot									
GSM900				GSM1800				GSM1900	
Burst Average Power (dBm)		Frame-Average Power (dBm)		Burst Average Power (dBm)		Frame-Average Power (dBm)		Burst Average Power (dBm)	
TX Channel	128	189	251	Limit (dBm)	128	189	251	Limit (dBm)	128
Frequency (MHz)	812.2	836.4	848.8	24.2	812.2	836.4	848.8	24.2	812.2
GSM 1 Tx slot	27.99	27.94	28.44	29.50	18.99	18.94	19.44	20.50	20.50
GPRS 1 Tx slot	28.13	28.08	28.18	29.50	19.13	19.08	19.18	20.50	20.50
GPRS 2 Tx slot	26.90	27.28	27.22	28.00	20.90	21.28	21.22	22.00	22.00
GPRS 3 Tx slot	25.28	25.59	25.36	26.00	21.62	21.33	21.10	21.74	21.74
GPRS 4 Tx slot	24.33	24.17	24.39	25.00	21.33	21.17	21.39	22.00	22.00
EDGE 1 Tx slot	22.01	21.93	21.78	23.00	13.01	12.93	12.78	14.00	14.00
EDGE 2 Tx slot	20.45	20.29	20.37	21.00	14.45	14.29	14.37	15.00	15.00
EDGE 3 Tx slot	18.04	17.60	17.57	19.00	13.78	13.34	13.31	14.74	14.74
EDGE 4 Tx slot	16.39	16.51	16.58	17.00	13.39	13.51	13.58	14.00	14.00

Ant 4 Sensor&Hotspot									
GSM900				GSM1800				GSM1900	
Burst Average Power (dBm)		Frame-Average Power (dBm)		Burst Average Power (dBm)		Frame-Average Power (dBm)		Burst Average Power (dBm)	
TX Channel	128	189	251	Limit (dBm)	128	189	251	Limit (dBm)	128
Frequency (MHz)	812.2	836.4	848.8	24.2	812.2	836.4	848.8	24.2	812.2
GSM 1 Tx slot	31.91	31.73	31.84	33.00	22.91	22.73	22.84	24.00	24.00
GPRS 1 Tx slot	31.74	31.95	31.84	33.00	22.74	22.95	22.84	24.00	24.00
GPRS 2 Tx slot	30.62	30.88	30.90	31.50	24.62	24.88	24.90	25.50	25.50
GPRS 3 Tx slot	28.71	29.13	28.80	29.50	24.45	24.87	24.64	25.24	25.24
GPRS 4 Tx slot	27.86	27.78	27.74	28.50	24.86	24.78	24.74	25.50	25.50
EDGE 1 Tx slot	25.24	25.16	25.09	26.50	16.24	16.16	16.09	17.50	17.50
EDGE 2 Tx slot	23.82	23.95	23.78	24.50	17.82	17.95	17.78	18.50	18.50
EDGE 3 Tx slot	21.50	21.49	21.55	22.50	17.24	17.23	17.29	18.24	18.24
EDGE 4 Tx slot	20.00	20.24	20.04	20.50	17.00	17.24	17.04	17.50	17.50

Ant 0 Sensor									
GSM900				GSM1800				GSM1900	
Burst Average Power (dBm)		Frame-Average Power (dBm)		Burst Average Power (dBm)		Frame-Average Power (dBm)		Burst Average Power (dBm)	
TX Channel	512	661	810	Limit (dBm)	512	661	810	Limit (dBm)	512
Frequency (MHz)	1800.2	1800	1800.8	19.00	1800.2	1800	1800.8	19.00	1800.2
GSM 1 Tx slot	23.45	23.44	23.09	24.00	14.45	14.44	14.09	15.00	15.00
GPRS 1 Tx slot	23.09	23.03	23.08	24.00	14.09	14.03	14.06	15.00	15.00
GPRS 2 Tx slot	22.49	22.25	22.34	23.00	16.49	16.25	16.34	17.00	17.00
GPRS 3 Tx slot	20.42	20.71	20.68	21.00	16.16	16.45	16.42	16.74	16.74
GPRS 4 Tx slot	19.79	19.48	19.60	20.00	16.79	16.48	16.60	17.00	17.00
EDGE 1 Tx slot	19.21	19.19	19.10	19.50	10.21	10.19	10.10	10.50	10.50
EDGE 2 Tx slot	17.42	17.45	17.47	17.50	11.42	11.45	11.47	11.50	11.50
EDGE 3 Tx slot	15.44	15.45	15.28	15.50	11.18	11.19	11.02	11.24	11.24
EDGE 4 Tx slot	13.91	13.79	13.62	14.00	10.91	10.79	10.62	11.00	11.00

Ant 0 Handheld									
GSM900				GSM1800				GSM1900	
Burst Average Power (dBm)		Frame-Average Power (dBm)		Burst Average Power (dBm)		Frame-Average Power (dBm)		Burst Average Power (dBm)	
TX Channel	128	189	251	Limit (dBm)	128	189	251	Limit (dBm)	128
Frequency (MHz)	812.2	836.4	848.8	24.2	812.2	836.4	848.8	24.2	812.2
GSM 1 Tx slot	30.75	31.04	30.92	32.50	21.75	22.04	21.92	23.50	23.50
GPRS 1 Tx slot	30.81	30.93	30.89	32.50	21.81	21.93	21.89	23.50	23.50
GPRS 2 Tx slot	29.97	30.11	29.91	31.00	23.97	24.11	23.91	25.00	25.00
GPRS 3 Tx slot	28.08	28.22	28.10	29.00	23.62	23.96	23.84	24.74	24.74
GPRS 4 Tx slot	26.96	27.04	26.79	28.00	23.96	24.04	23.79	25.00	25.00
EDGE 1 Tx slot	24.46	24.47	24.44	26.00	15.46	15.47	15.44	17.00	17.00
EDGE 2 Tx slot	23.00	22.98	22.88	24.00	17.00	16.98	16.88	18.00	18.00
EDGE 3 Tx slot	20.83	20.49	20.41	22.00	16.57	16.23	16.15	17.74	17.74
EDGE 4 Tx slot	19.16	19.27	19.25	20.00	16.16	16.27	16.25	17.00	17.00

Ant 0 Hotspot									
GSM900				GSM1800				GSM1900	
Burst Average Power (dBm)		Frame-Average Power (dBm)		Burst Average Power (dBm)		Frame-Average Power (dBm)		Burst Average Power (dBm)	
TX Channel	512	661	810	Limit (dBm)	512	661	810	Limit (dBm)	512
Frequency (MHz)	1800.2	1800	1800.8	19.00	1800.2	1800	1800.8	19.00	1800.2
GSM 1 Tx slot	22.71	22.49	22.34	23.00	13.71	13.49	13.24	14.00	14.00
GPRS 1 Tx slot	22.62	22.37	22.73	23.00	13.62	13.37	13.73	14.00	14.00
GPRS 2 Tx slot	21.57	21.47	21.46	22.00	15.57	15.47	15.46	16.00	16.00
GPRS 3 Tx slot	19.95	19.63	19.74	20.00	15.65	15.37	15.48	15.74	15.74
GPRS 4 Tx slot	18.67	18.83	18.75	19.00	15.07	15.83	15.75	16.00	16.00
EDGE 1 Tx slot	18.23	18.44	18.06	18.50	9.23	9.44	9.06	9.50	9.50
EDGE 2 Tx slot	16.21	16.44	16.34	16.50	10.21	10.44	10.34	10.50	10.50
EDGE 3 Tx slot	14.38	14.47	14.44	14.50	10.10	10.21	10.18	10.24	10.24
EDGE 4 Tx slot	13.57	13.22	13.32	13.00	10.57	10.22	10.32	10.00	10.00

ANT0 Sensor&Hotspot									
WCDMA V				WCDMA IV				WCDMA III	
Burst Average Power (dBm)		Frame-Average Power (dBm)		Burst Average Power (dBm)		Frame-Average Power (dBm)		Burst Average Power (dBm)	
TX Channel	4132	4182	4233	Limit (dBm)	4132	4182	4233	Limit (dBm)	4132
Frequency (MHz)	4367	4407	4458	23.00	4367	4407	4458	23.00	4367
GSM 1 Tx slot	22.52	22.50	22.10	23.00	18.52	18.50	18.10	23.00	23.00
GPRS 1 Tx slot	22.24	22.31	22.12	23.00	18.72	18.83	18.82	19.50	19.50
GPRS 2 Tx slot	21.76	21.73	21.65	22.00	17.80	17.84	17.80	18.00	18.00
GPRS 3 Tx slot	21.71	21.67	21.64	22.00	17.87	17.81	17.76	18.00	18.00
GPRS 4 Tx slot	21.20	21.15	21.24	21.50	17.41	17.40	17.29	18.50	18.50
EDGE 1 Tx slot	21.13	21.26	21.16	21.50	17.40	17.24	17.32	18.50	18.50
EDGE 2 Tx slot	21.69	21.68	21.67	22.00	17.85	17.77	17.87	18.00	18.00
EDGE 3 Tx slot	21.63	21.63	21.68	22.00	17.82	17.74	17.86	18.00	18.00
EDGE 4 Tx slot	21.27	21.23	21.12	21.50	17.48	17.35	17.27	17.50	17.50
GSM 1 Tx slot	21.10	21.16	21.18	21.50	17.39	17.30	17.24	18.50	18.50
GPRS 1 Tx slot	19.67	19.58	19.66	20.00	15.94	16.02	16.00	14.13	14.13
GPRS 2 Tx slot	19.67	19.68	19.61	20.00	16.00	15.88	16.03	15.50	15.50
GPRS 3 Tx slot	20.75	20.62	20.72	21.00	17.11	16.95	16.82	17.50	17.50
GPRS 4 Tx slot	19.32	19.36	19.40	20.00	15.64	15.40	15.55	16.50	16.50
EDGE 1 Tx slot	20.73	20.66	20.71	22.00	17.62	17.66	18.09	18.50	18.50
EDGE 2 Tx slot	18.52	18.42	18.29	19.50	15.08	15.07	15.17	16.00	16.00

ANT0 Hotspot									
WCDMA V				WCDMA IV				WCDMA III	
Burst Average Power (dBm)		Frame-Average Power (dBm)		Burst Average Power (dBm)		Frame-Average Power (dBm)		Burst Average Power (dBm)	
TX Channel	4132	4182	4233	Limit (dBm)	4132	4182	4233	Limit (dBm)	4132
Frequency (MHz)	4367	4407	4458	23.00	4367	4407	4458	23.00	4367
GSM 1 Tx slot	22.52	22.50	22.10	23.00	18.52	18.50	18.10	23.00	23.00
GPRS 1 Tx slot	22.24	22.31	22.12	23.00	18.72	18.83	18.82	19.50	19.50
GPRS 2 Tx slot	21.76	21.73	21.65	22.00	17.80	17.84	17.80	18.00	18.00
GPRS 3 Tx slot	21.71	21.67	21.64	22.00	17.87	17.81	17.76	18.00	18.00
GPRS 4 Tx slot	21.20	21.15	21.24	21.50	17.41	17.40	17.29	18.50	18.50
EDGE 1 Tx slot	21.13	21.26	21.16	21.50	17.40	17.24	17.32	18.50	18.50
EDGE 2 Tx slot	21.69	21.68	21.67	22.00	17.85	17.77	17.87	18.00	18.00
EDGE 3 Tx slot	21.63	21.63	21.68	22.00	17.82	17.74	17.86	18.00	18.00
EDGE 4 Tx slot	21.27	21.23	21.12	21.50	17.48	17.35	17.27	17.50	17.50
GSM 1 Tx slot	21.10	21.16	21.18	21.50	17.39	17.30	17.24	18.50	18.50
GPRS 1 Tx slot	19.67	19.58	19.66	20.00	15.94	16.02	16.00	14.13	14.13
GPRS 2 Tx slot	19.67	19.68	19.61	20.00	16.00	15.88	16.03	15.50	15.50
GPRS 3 Tx slot	20.75	20.62	20.72	21.00	17.11	16.95	16.82	17.50	17.50
GPRS 4 Tx slot	19.32	19.36	19.40	20.00	15.64	15.40	15.55	16.50	16.50
EDGE 1 Tx slot	20.73	20.66	20.71	22.00	17.62	17.66	18.09	18.50	18.50
EDGE 2 Tx slot	18.52	18.42	18.29	19.50	15.08	15.07	15.17	16.00	16.00

ANT0 Handheld									
WCDMA V				WCDMA IV					

Ant 0 Handheld								
GSM1900	Burst Average Power (dBm)			Time-up	Frame-Average Power (dBm)			Time-up
TX Channel	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1852.8	1868	1928.8	(dBm)	1852.2	1868	1928.8	(dBm)
GSM 1 Tx slot	29.01	29.03	29.14	29.50	20.01	20.03	20.14	20.50
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	26.82	26.85	26.99	26.50	21.85	21.88	21.93	22.34
GPRS 4 Tx slots	24.81	24.75	24.97	25.50	21.81	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	22.19	22.02	23.00	16.08	16.19	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	15.95	16.01	15.97	16.50



Band 4 ANT0 For Sensor										
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				20050	20175	20300				
Frequency (MHz)				1720	1732.5	1745				
20	QPSK	1	0	18.38	18.46	18.35	19.5	0		
20	QPSK	1	49	18.44	18.38	18.37				
20	QPSK	1	99	18.45	18.41	18.42				
20	QPSK	50	0	17.40	17.43	17.47				
20	QPSK	50	24	17.45	17.49	17.47				
20	QPSK	50	50	17.45	17.45	17.41	18.5	1		
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	17.45	17.40				
20	16QAM	1	99	17.35	17.46	17.49				
20	16QAM	50	0	16.46	16.49	16.46	17.5	2		
20	16QAM	50	24	16.41	16.44	16.48				
20	16QAM	50	50	16.42	16.51	16.46				
20	16QAM	100	0	16.44	16.43	16.45				
20	64QAM	1	0	16.39	16.50	16.46				
20	64QAM	1	49	16.45	16.45	16.45	17.5	2		
20	64QAM	1	99	16.46	16.44	16.52				
20	64QAM	50	0	15.49	15.46	15.43				
20	64QAM	50	24	15.39	15.45	15.50				
20	64QAM	50	50	15.45	15.51	15.48				
20	64QAM	100	0	15.43	15.50	15.49	16.5	3		
Channel				20025	20175	20325				
Frequency (MHz)				1717.5	1732.5	1747.5				
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	17.68	17.74	17.81				
15	QPSK	36	20	17.62	17.72	17.79				
15	QPSK	36	39	17.62	17.79	17.81	18.5	1		
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				
15	16QAM	1	74	17.87	17.95	18.07				
15	16QAM	36	0	16.64	16.71	16.86	17.5	2		
15	16QAM	36	20	16.65	16.76	16.87				
15	16QAM	36	39	16.63	16.80	16.95				
15	16QAM	75	0	16.71	16.78	16.90				
15	64QAM	1	0	16.92	16.94	16.84				
15	64QAM	1	37	17.07	17.21	17.13	17.5	2		
15	64QAM	1	74	16.84	16.96	16.97				
15	64QAM	36	0	15.66	15.79	15.79				
15	64QAM	36	20	15.54	15.66	15.87				
15	64QAM	36	39	15.68	15.63	15.63				
15	64QAM	75	0	15.66	15.72	15.63	16.5	3		
Channel				20000 <th>20175</th> <th>20300</th>	20175	20300				
Frequency (MHz)				1715	1732.5	1750				
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				
10	QPSK	25	25	17.66	17.71	17.86	18.5	1		
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	18.00	18.05				
10	16QAM	1	49	18.16	18.04	18.20				
10	16QAM	25	0	16.81	16.87	16.79	17.5	2		
10	16QAM	25	12	16.80	16.70	16.96				
10	16QAM	25	25	16.85	16.73	16.91				
10	16QAM	50	0	16.86	16.78	16.94				
10	64QAM	1	0	16.89	17.07	17.23				
10	64QAM	1	25	17.04	17.07	17.08	17.5	2		
10	64QAM	1	49	17.11	17.31	17.16				
10	64QAM	25	0	15.79	15.71	15.82				
10	64QAM	25	12	15.59	15.73	15.74				
10	64QAM	25	25	15.77	15.82	15.81				
10	64QAM	50	0	15.69	15.72	15.81	16.5	3		
Channel				19975	20175	20375				
Frequency (MHz)				1712.5 <th>1732.5</th> <th>1752.5</th>	1732.5	1752.5				
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	18.34	18.22				
5	QPSK	12	0	17.77	17.68	17.84				
5	QPSK	12	7	17.60	17.69	17.72				
5	QPSK	12	13	17.48	17.79	17.74	18.5	1		
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				
5	16QAM	1	24	17.83	17.96	18.07				
5	16QAM	12	0	16.87	16.81	16.78	17.5	2		
5	16QAM	12	7	16.75	16.83	16.79				
5	16QAM	12	13	16.70	16.75	16.90				
5	16QAM	25	0	16.69	16.78	17.03				
5	64QAM	1	0	17.09	17.11	17.16				
5	64QAM	1	12	16.91	17.09	16.93	17.5	2		
5	64QAM	1	24	17.25	17.40	17.00				
5	64QAM	12	0	15.52	15.76	15.75				
5	64QAM	12	7	15.72	15.77	15.82				
5	64QAM	12	13	15.48	15.95	15.88				
5	64QAM	25	0	15.63	15.96	15.89	16.5	3		
Channel				19965	20175	20365				
Frequency (MHz)				1711.5	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				
3	QPSK	8	7	17.68	17.80	17.91	18.5	1		
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				
3	16QAM	1	14	17.95	18.13	18.16				
3	16QAM	8	0	16.47	16.63	16.57	17.5	2		
3	16QAM	8	4	16.62	16.80	16.75				
3	16QAM	8	7	16.50	16.69	16.71				
3	16QAM	15	0	16.67	16.56	16.67				
3	64QAM	1	0	16.79	16.91	16.92				
3	64QAM	1	8	17.02	16.99	16.94	17.5	2		
3	64QAM	1	14	16.82	17.08	16.84				
3	64QAM	8	0	15.83	15.74	15.98				
3	64QAM	8	4	15.53	15.60	15.92				
3	64QAM	8	7	15.72	15.83	15.78				
3	64QAM	15	0	15.86	15.57	15.75	16.5	3		
Channel				19950	20175	20350				
Frequency (MHz)				1710.7	1732.5	1754.3				
1.4	QPSK	1	0	18.40	18.43	18.32	19.5	0		
1.4	QPSK	1	3	18.40	18.33	18.39				
1.4	QPSK	1	5	18.16	18.35	18.27				
1.4	QPSK	3	0	18.35	18.45	18.38				
1.4	QPSK	3	3	18.36	18.24	18.33				
1.4	QPSK	6	0	17.71	17.83	17.80	18.5	1		
1.4	16QAM	1	0	18.34	18.25	18.31				
1.4	16QAM	1	3	18.12	18.32	17.98				
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	17.5	2		
1.4	16QAM	3	3	17.57	17.90	17.87				
1.4	16QAM	6	0	16.72	16.87	16.98				
1.4	64QAM	1	0	17.14	17.06	17.06				
1.4	64QAM	1	3	16.90	17.17	16.73				
1.4	64QAM	1	5	16.84	16.95	17.20	17.5	2		
1.4	64QAM	3	0	16.83	16.86	16.71				
1.4	64QAM	3	1	16.82	16.86	16.69				
1.4	64QAM	3	3	16.65	16.69	16.82				
1.4	64QAM	6	0	15.63	15.90	15.66				



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							26765	26865	26965
Frequency (MHz)							26765	26865	26965
15	QPSK	1	0	22.67	22.76	22.71	23.5	0	
15	QPSK	1	37	22.63	22.71	22.67			
15	QPSK	1	74	22.64	22.74	22.66			
15	QPSK	36	0	21.66	21.70	21.65	22.5	1	
15	QPSK	36	20	21.62	21.68	21.64			
15	QPSK	36	39	21.62	21.65	21.62			
15	QPSK	75	0	21.60	21.61	21.56	22.5	1	
15	16QAM	1	0	21.65	21.76	21.69			
15	16QAM	1	37	21.64	21.70	21.67			
15	16QAM	1	74	21.64	21.74	21.67	21.5	2	
15	16QAM	36	0	20.67	20.71	20.64			
15	16QAM	36	20	20.63	20.68	20.65			
15	16QAM	36	39	20.62	20.63	20.60	21.5	2	
15	16QAM	75	0	20.60	20.60	20.54			
15	16QAM	1	0	20.68	20.71	20.64			
15	64QAM	1	37	20.67	20.69	20.64	20.5	3	
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							26740	26865	26990
Frequency (MHz)							819	831.5	844
10	QPSK	1	0	22.65	22.56	22.60	23.5	0	
10	QPSK	1	25	22.73	22.48	22.62			
10	QPSK	1	49	22.72	22.73	22.68			
10	QPSK	25	0	21.75	21.95	22.07	22.5	1	
10	QPSK	25	12	21.71	21.91	21.91			
10	QPSK	25	25	21.78	21.87	21.80			
10	QPSK	50	0	21.79	21.98	21.93	22.5	1	
10	16QAM	1	0	22.12	22.04	21.94			
10	16QAM	1	25	22.12	22.06	22.07			
10	16QAM	1	49	21.84	21.74	21.95	21.5	2	
10	16QAM	25	0	20.62	21.12	21.16			
10	16QAM	25	12	20.65	20.98	20.98			
10	16QAM	25	25	20.95	21.11	21.02	21.5	2	
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	20.5	3	
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	19.86	20.06	20.06			
10	64QAM	50	0	19.81	20.09	20.03			
Channel							26715	26865	27015
Frequency (MHz)							816.5	831.5	846.5
5	QPSK	1	0	22.49	22.72	22.50	23.5	0	
5	QPSK	1	12	22.33	22.67	22.40			
5	QPSK	1	24	22.55	22.40	22.46			
5	QPSK	12	0	21.69	22.01	21.87	22.5	1	
5	QPSK	12	7	21.72	21.91	21.82			
5	QPSK	12	13	21.80	21.93	21.86			
5	QPSK	25	0	21.72	21.83	21.88	22.5	1	
5	16QAM	1	0	22.11	22.07	21.79			
5	16QAM	1	12	21.88	22.12	21.86			
5	16QAM	1	24	21.73	21.97	22.16	21.5	2	
5	16QAM	12	0	20.82	21.08	21.02			
5	16QAM	12	7	20.81	21.11	20.91			
5	16QAM	12	13	20.86	21.03	20.97	21.5	2	
5	16QAM	25	0	20.84	21.08	21.01			
5	64QAM	1	0	20.91	21.05	20.97			
5	64QAM	1	12	20.95	21.21	21.06	21.5	2	
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	19.90			
5	64QAM	25	0	19.82	20.13	19.90			
Channel							26705	26865	27025
Frequency (MHz)							815.5	831.5	847.5
3	QPSK	1	0	22.40	22.63	22.48	23.5	0	
3	QPSK	1	8	22.36	22.62	22.45			
3	QPSK	1	14	22.31	22.68	22.52			
3	QPSK	8	0	21.66	21.86	21.82	22.5	1	
3	QPSK	8	4	21.67	21.87	21.75			
3	QPSK	8	7	21.65	21.90	21.81			
3	QPSK	15	0	21.65	21.80	21.79	22.5	1	
3	16QAM	1	0	21.98	22.44	22.12			
3	16QAM	1	8	22.35	22.48	22.47			
3	16QAM	1	14	22.26	22.19	22.13	21.5	2	
3	16QAM	8	0	20.81	21.15	20.92			
3	16QAM	8	4	20.69	21.02	20.98			
3	16QAM	8	7	20.86	21.11	20.90	21.5	2	
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	19.75	20.53	19.77			
3	64QAM	8	4	19.69	20.61	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							26697	26865	27033
Frequency (MHz)							814.7	831.5	848.3
1.4	QPSK	1	0	22.57	22.66	22.48	23.5	0	
1.4	QPSK	1	3	22.49	22.73	22.55			
1.4	QPSK	1	5	22.56	22.71	22.68			
1.4	QPSK	3	0	22.37	22.62	22.45	22.5	1	
1.4	QPSK	3	1	22.26	22.60	22.45			
1.4	QPSK	3	3	22.37	22.60	22.45			
1.4	QPSK	6	0	21.62	21.88	21.81	22.5	1	
1.4	16QAM	1	0	22.19	22.34	22.19			
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	21.84			
1.4	16QAM	3	1	21.69	21.97	21.88			
1.4	16QAM	3	3	21.59	22.02	21.93	21.5	2	
1.4	16QAM	6	0	20.97	21.19	20.92			
1.4	64QAM	1	0	20.94	21.19	21.22			
1.4	64QAM	1	3	20.82	21.01	20.91	21.5	2	
1.4	64QAM	1	5	20.87	21.31	21.00			
1.4	64QAM	3	0	20.93	21.14	21.15			
1.4	64QAM	3	1	20.90	20.98	21.28	20.5	3	
1.4	64QAM	3	3	21.02	21.21	20.99			
1.4	64QAM	6	0	19.79	20.01	19.86			

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				20050	20175	20300			
Frequency (MHz)				17270	17325	1745			
20	QPSK	1	0	22.01	22.03	21.99	23	0	
20	QPSK	1	49	21.99	22.01	21.96			
20	QPSK	1	99	21.99	22.00	21.95			
20	QPSK	50	0	21.03	20.99	20.95	22	1	
20	QPSK	50	24	21.00	20.95	20.94			
20	QPSK	50	50	21.01	20.96	20.91			
20	QPSK	100	0	21.01	21.01	21.05	22	1	
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	21.00	20.98	20.93			
20	16QAM	50	0	20.03	19.99	19.95	21	2	
20	16QAM	50	24	20.02	19.98	19.95			
20	16QAM	50	50	20.04	20.01	19.95			
20	16QAM	100	0	20.04	20.01	19.93	21	2	
20	64QAM	1	0	20.05	19.98	19.93			
20	64QAM	1	49	20.03	19.97	19.94	20	3	
20	64QAM	1	99	20.05	20.01	19.96			
20	64QAM	50	0	19.02	18.99	18.95	20	3	
20	64QAM	50	24	19.05	18.98	18.96			
20	64QAM	50	50	19.05	18.90	18.92			
20	64QAM	100	0	19.02	19.01	18.97			
Channel				20050	20175	20300	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1732.5	1747.5			
15	QPSK	1	0	22.01	21.93	21.97	23	0	
15	QPSK	1	37	21.98	21.91	22.02			
15	QPSK	1	74	22.01	21.99	22.01			
15	QPSK	36	0	21.00	21.10	21.17	22	1	
15	QPSK	36	20	21.02	21.09	21.19			
15	QPSK	36	39	21.01	21.14	21.28			
15	QPSK	75	0	21.14	21.13	21.23	22	1	
15	16QAM	1	0	21.50	21.40	21.41			
15	16QAM	1	37	21.54	21.39	21.22			
15	16QAM	1	74	21.17	21.60	21.61	21	2	
15	16QAM	36	0	20.18	20.35	20.35			
15	16QAM	36	20	20.18	20.27	20.40			
15	16QAM	36	39	20.17	20.32	20.43	20	3	
15	16QAM	75	0	20.25	20.34	20.38			
15	64QAM	1	0	20.44	20.39	20.57			
15	64QAM	1	37	20.54	20.64	20.77	21	2	
15	64QAM	1	74	20.40	20.63	20.46			
15	64QAM	36	0	19.21	19.33	19.43			
15	64QAM	36	20	19.22	19.26	19.41	20	3	
15	64QAM	36	39	19.20	19.36	19.48			
15	64QAM	75	0	19.15	19.26	19.50			
Channel				20000	20175	20350	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1732.5	1750			
10	QPSK	1	0	22.01	21.99	21.96	23	0	
10	QPSK	1	25	21.92	21.82	21.92			
10	QPSK	1	49	22.01	21.99	21.95			
10	QPSK	25	0	21.03	21.18	21.25	22	1	
10	QPSK	25	12	21.12	21.17	21.25			
10	QPSK	25	25	21.11	21.15	21.25			
10	QPSK	50	0	21.08	21.28	21.34	22	1	
10	16QAM	1	0	21.82	21.57	21.45			
10	16QAM	1	25	21.54	21.40	21.43			
10	16QAM	1	49	21.64	21.87	21.48	21	2	
10	16QAM	25	0	20.31	20.32	20.38			
10	16QAM	25	12	20.27	20.39	20.52			
10	16QAM	25	25	20.32	20.39	20.35	21	2	
10	16QAM	50	0	20.27	20.37	20.49			
10	64QAM	1	0	20.43	20.39	20.78			
10	64QAM	1	25	20.46	20.46	20.57	21	2	
10	64QAM	1	49	20.56	20.58	20.35			
10	64QAM	25	0	19.25	19.32	19.46			
10	64QAM	25	12	19.17	19.37	19.47	20	3	
10	64QAM	25	25	19.28	19.42	19.37			
10	64QAM	50	0	19.21	19.29	19.46			
Channel				19975	20175	20375	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1721.5	1732.5	1753.5			
5	QPSK	1	0	21.99	21.92	21.95	23	0	
5	QPSK	1	12	22.02	22.02	21.95			
5	QPSK	1	24	22.01	22.02	21.92			
5	QPSK	12	0	21.13	21.16	21.31	22	1	
5	QPSK	12	7	21.01	21.18	21.29			
5	QPSK	12	13	21.05	21.21	21.24			
5	QPSK	25	0	21.01	21.20	21.25	22	1	
5	QPSK	25	0	21.54	21.57	21.83			
5	16QAM	1	12	21.81	21.71	21.59			
5	16QAM	1	24	21.62	21.61	21.47	21	2	
5	16QAM	12	0	20.17	20.30	20.44			
5	16QAM	12	7	20.18	20.24	20.35			
5	16QAM	12	13	20.10	20.31	20.31	21	2	
5	16QAM	25	0	20.17	20.33	20.44			
5	64QAM	1	0	20.31	20.58	20.47			
5	64QAM	1	12	20.38	20.75	20.37	21	2	
5	64QAM	1	24	20.46	20.68	20.45			
5	64QAM	12	0	19.15	19.31	19.38			
5	64QAM	12	7	19.19	19.36	19.35	20	3	
5	64QAM	12	13	19.14	19.23	19.33			
5	64QAM	25	0	19.16	19.32	19.39			
Channel				19965	20175	20385	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1711.5	1732.5	1753.5			
3	QPSK	1	0	21.95	22.02	21.93	23	0	
3	QPSK	1	8	21.87	22.01	21.99			
3	QPSK	1	14	21.96	21.91	21.98			
3	QPSK	8	0	21.04	21.15	21.12	22	1	
3	QPSK	8	4	21.03	21.17	21.15			
3	QPSK	8	7	20.98	21.10	21.08			
3	QPSK	15	0	21.01	21.12	21.29	22	1	
3	16QAM	1	0	21.54	21.60	21.76			
3	16QAM	1	8	21.59	21.67	21.64			
3	16QAM	1	14	21.39	21.59	21.69	21	2	
3	16QAM	8	0	20.22	20.31	20.38			
3	16QAM	8	4	20.21	20.40	20.24			
3	16QAM	8	7	20.26	20.37	20.38	21	2	
3	16QAM	15	0	20.22	20.25	20.33			
3	64QAM	1	0	20.47	20.55	20.89			
3	64QAM	1	8	20.61	20.43	20.51	21	2	
3	64QAM	1	14	20.46	20.62	20.70			
3	64QAM	8	0	19.27	19.22	19.46			
3	64QAM	8	4	19.31	19.41	19.24	20	3	
3	64QAM	8	7	19.25	19.29	19.36			
3	64QAM	15	0	19.08	19.33	19.15			
Channel				19957	20175	20393	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1710.7	1732.5	1754.3			
1.4	QPSK	1	0	21.83	21.98	21.88	23	0	
1.4	QPSK	1	3	21.98	22.02	22.01			
1.4	QPSK	1	5	21.96	21.96	21.96			
1.4	QPSK	3	0	22.00	21.97	22.01	22	1	
1.4	QPSK	3	1	22.01	21.92	21.94			
1.4	QPSK	3	3	21.98	21.92	21.86			
1.4	QPSK	6	0	21.00	21.16	21.24	22	1	
1.4	16QAM	1	0	21.48	21.38	21.47			
1.4	16QAM	1	3	21.21	21.38	21.67			
1.4	16QAM	1	5	21.38	21.20	21.31	22	1	
1.4	16QAM	3	0	21.09	21.28	21.15			
1.4	16QAM	3	1	20.93	21.02	21.29			
1.4	16QAM	3	3	21.05	21.24	21.01	21	2	
1.4	16QAM	6	0	20.29	20.39	20.57			
1.4	64QAM	1	0	20.45	20.49	20.40			
1.4	64QAM	1	3	20.24	20.54	20.26	21	2	
1.4	64QAM	3	0	20.53	20.39	20.40			
1.4	64QAM	3	5	20.20	20.26	20.43			
1.4	64QAM	3	1	20.27	20.35	20.55	20	3	
1.4	64QAM	3	3	20.31	20.27	20.48			
1.4	64QAM	6	0	19.10	19.26	19.26			

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				18700	18900	19100				
Frequency (MHz)				1860	1880	1900				
20	QPSK	1	0	18.73	18.82	18.69		19.5	0	
20	QPSK	1	49	18.47	18.41	18.61				
20	QPSK	1	99	18.62	18.54	18.49				
20	QPSK	50	0	17.21	17.29	17.03				
20	QPSK	50	24	17.19	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	49	17.47	17.57	17.49		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	16.18	16.17	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	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1857.5	1880	1902.5				
15	QPSK	1	0	18.08	18.02	18.06		19.5	0	
15	QPSK	1	37	18.02	18.03	18.02				
15	QPSK	1	74	18.12	18.05	18.05				
15	QPSK	36	0	17.35	17.34	17.39				
15	QPSK	36	20	17.38	17.32	17.27		18.5	1	
15	QPSK	36	39	17.31	17.33	17.23				
15	QPSK	75	0	17.38	17.42	17.35				
15	16QAM	1	0	17.82	17.66	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	36	0	16.45	16.44	16.47				
15	16QAM	36	20	16.46	16.51	16.36		17.5	2	
15	16QAM	36	39	16.40	16.40	16.29				
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	36	0	15.55	15.47	15.40				
15	64QAM	36	20	15.48	15.51	15.34		16.5	3	
15	64QAM	36	39	15.41	15.47	15.29				
15	64QAM	75	0	15.47	15.41	15.34				
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1855	1880	1905				
10	QPSK	1	0	18.07	18.11	17.89		19.5	0	
10	QPSK	1	25	18.09	18.06	18.08				
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	17.16		18.5	1	
10	QPSK	25	25	17.40	17.43	17.31				
10	QPSK	50	0	17.44	17.42	17.32				
10	16QAM	1	0	17.89	17.85	17.89				
10	16QAM	1	25	17.99	17.84	17.62		18.5	1	
10	16QAM	1	49	17.62	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		17.5	2	
10	64QAM	1	25	16.72	16.75	16.43				
10	64QAM	1	49	16.70	16.89	16.40				
10	64QAM	25	0	15.53	15.44	15.50				
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	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1852.5	1880	1907.5				
5	QPSK	1	0	18.04	18.11	18.04		19.5	0	
5	QPSK	1	12	18.05	18.07	18.06				
5	QPSK	1	24	18.06	18.08	18.09				
5	QPSK	12	0	17.35	17.37	17.26				
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	17.67		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	16.28		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	16.61	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	15.26		16.5	3	
5	64QAM	12	13	15.54	15.40	15.27				
5	64QAM	25	0	15.45	15.33	15.35				
Channel				18615	18900	19165	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1851.5	1880	1908.5				
3	QPSK	1	0	18.12	18.11	18.09		19.5	0	
3	QPSK	1	8	18.03	18.12	18.11				
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	17.31	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	16QAM	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				18907	18990	19193	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1880.7	1890	1899.3				
1.4	QPSK	1	0	18.03	18.01	18.05		19.5	0	
1.4	QPSK	1	3	18.06	17.96	17.91				
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		18.5	1	
1.4	QPSK	3	3	18.11	18.07	17.85				
1.4	QPSK	6	0	17.27	17.37	17.31				
1.4	16QAM	1	0	17.64	17.62	17.62				
1.4	16QAM	1	3	17.74	17.66	17.57		18.5	1	
1.4	16QAM	1	5	17.62	17.68	17.60				
1.4	16QAM	3	0	17.40	17.54	17.16				
1.4	16QAM	3	1	17.42	17.29	17.38		17.5	2	
1.4	16QAM	3	3	17.36	17.52	17.21				
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		17.5	2	
1.4	64QAM	1	5	16.71	16.76	16.52				
1.4	64QAM	3	0	16.57	16.27	16.40				
1.4	64QAM	3	1	16.54	16.64	16.50		17.5	2	
1.4	64QAM	3	3	16.63	16.36	16.47				
1.4	64QAM	6	0	15.39	15.37	15.25				

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.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	16.65	16.70	16.66	18	0
20	QPSK	1	49	16.63	16.68	16.63		
20	QPSK	1	99	16.63	16.68	16.63		
20	QPSK	50	0	15.76	15.77	15.70		
20	QPSK	50	24	15.72	15.73	15.67	17	1
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	49	15.71	15.73	15.67	17	1
20	16QAM	1	99	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	16	2
20	16QAM	100	0	14.77	14.76	14.70		
20	64QAM	1	0	14.75	14.77	14.70		
20	64QAM	1	49	14.78	14.75	14.71		
20	64QAM	1	99	14.74	14.78	14.72	16	2
20	64QAM	50	0	13.75	13.76	13.68		
20	64QAM	50	24	13.77	13.78	13.70		
20	64QAM	50	50	13.75	13.78	13.71		
20	64QAM	100	0	13.75	13.77	13.68	15	3
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	16.26	16.52	16.37	18	0
15	QPSK	1	37	16.16	16.42	16.62		
15	QPSK	1	74	16.37	16.36	16.38		
15	QPSK	36	0	15.34	15.40	15.35		
15	QPSK	36	20	15.39	15.40	15.37	17	1
15	QPSK	36	39	15.41	15.38	15.37		
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	1
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	2
15	16QAM	75	0	14.41	14.43	14.31		
15	64QAM	1	0	14.71	14.48	14.51		
15	64QAM	1	37	14.59	14.74	14.58		
15	64QAM	1	74	14.34	14.63	14.59	16	2
15	64QAM	36	0	13.34	13.44	13.40		
15	64QAM	36	20	13.36	13.41	13.36		
15	64QAM	36	39	13.42	13.33	13.40		
15	64QAM	75	0	13.35	13.36	13.29	15	3
Channel				20800	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	16.45	16.36	16.26	18	0
10	QPSK	1	25	16.26	16.40	16.40		
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	17	1
10	QPSK	25	25	15.42	15.42	15.41		
10	QPSK	50	0	15.44	15.45	15.44		
10	16QAM	1	0	15.57	15.02	15.89		
10	16QAM	1	25	15.56	15.52	15.61	17	1
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	2
10	16QAM	50	0	14.37	14.35	14.32		
10	64QAM	1	0	14.38	14.64	14.62		
10	64QAM	1	25	14.66	14.65	14.62		
10	64QAM	1	49	14.36	14.69	14.54	16	2
10	64QAM	25	0	13.50	13.44	13.39		
10	64QAM	25	12	13.35	13.33	13.43		
10	64QAM	25	25	13.40	13.34	13.43		
10	64QAM	50	0	13.40	13.37	13.46	15	3
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	16.59	16.42	16.42	18	0
5	QPSK	1	12	16.42	16.33	16.52		
5	QPSK	1	24	16.64	16.49	16.43		
5	QPSK	12	0	15.44	15.39	15.49		
5	QPSK	12	7	15.36	15.37	15.41	17	1
5	QPSK	12	13	15.42	15.36	15.42		
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	1
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	2
5	16QAM	25	0	14.37	14.40	14.40		
5	64QAM	1	0	14.68	14.62	14.55		
5	64QAM	1	12	14.62	14.77	14.68		
5	64QAM	1	24	14.77	15.05	14.92	16	2
5	64QAM	12	0	13.38	13.29	13.46		
5	64QAM	12	7	13.42	13.42	13.36		
5	64QAM	12	13	13.34	13.31	13.36		
5	64QAM	25	0	13.40	13.35	13.39	15	3
Channel				20900	21100	21400		
Frequency (MHz)				2507.5	2535	2562.5		

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.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350	2130	2595
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	20.53	20.70	20.66	21.5	0
20	QPSK	1	49	20.44	20.40	20.33		
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	20.5	1
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	18.95	20.5	1
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	19.5	2
20	16QAM	100	0	18.19	18.24	18.16		
20	64QAM	1	0	18.22	18.11	18.14		
20	64QAM	1	49	18.12	18.09	18.09		
20	64QAM	1	99	18.05	17.98	18.07	19.5	2
20	64QAM	50	0	17.16	17.24	17.07		
20	64QAM	50	24	17.14	17.18	17.12		
20	64QAM	50	50	17.04	17.10	17.15		
20	64QAM	100	0	17.11	17.18	17.12	18.5	3
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	20.05	20.12	20.07	21.5	0
15	QPSK	1	37	20.13	20.14	20.03		
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	20.5	1
15	QPSK	36	39	19.23	19.18	19.19		
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	1
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		
15	16QAM	36	39	18.22	18.31	18.09	19.5	2
15	16QAM	75	0	18.18	18.27	18.15		
15	64QAM	1	0	18.22	18.08	18.09		
15	64QAM	1	37	18.14	18.13	18.09		
15	64QAM	1	74	17.96	18.00	18.07	19.5	2
15	64QAM	36	0	17.11	17.18	17.16		
15	64QAM	36	20	17.11	17.11	17.01		
15	64QAM	36	39	16.99	17.16	17.18		
15	64QAM	75	0	17.04	17.11	17.06	18.5	3
Channel				20800	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	20.13	19.71	19.75	21.5	0
10	QPSK	1	25	19.84	19.84	19.74		
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	20.5	1
10	QPSK	25	25	18.52	18.53	18.56		
10	QPSK	50	0	18.59	18.56	18.51		
10	16QAM	1	0	19.31	19.51	19.21		
10	16QAM	1	25	19.21	19.36	19.53	20.5	1
10	16QAM	1	49	19.56	19.64	19.30		
10	16QAM	25	0	17.63	17.57	17.58		
10	16QAM	25	12	17.57	17.59	17.58		
10	16QAM	25	25	17.66	17.60	17.60	19.5	2
10	16QAM	50	0	17.54	17.75	17.60		
10	64QAM	1	0	17.56	17.66	17.58		
10	64QAM	1	25	17.91	17.65	17.58		
10	64QAM	1	49	17.86	17.75	17.80	19.5	2
10	64QAM	25	0	17.22	17.07	17.02		
10	64QAM	25	12	17.02	17.14	17.09		
10	64QAM	25	25	17.00	17.32	17.25		
10	64QAM	50	0	17.01	17.02	16.94	18.5	3
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	19.95	20.01	20.10	21.5	0
5	QPSK	1	12	20.25	20.26	20.08		
5	QPSK	1	24	20.13	20.19	20.09		
5	QPSK	12	0	18.96	19.14	19.14		
5	QPSK	12	7	19.07	19.46	19.17	20.5	1
5	QPSK	12	13	18.98	19.07	18.98		
5	QPSK	25	0	19.13	19.30	19.07		
5	16QAM	1	0	19.30	19.31	19.50		
5	16QAM	1	12	19.33	19.48	19.64	20.5	1
5	16QAM	1	24	19.59	19.74	19.74		
5	16QAM	12	0	18.20	17.98	18.94		
5	16QAM	12	7	18.15	17.91	17.99		
5	16QAM	12	13	17.96	18.05	17.93	19.5	2
5	16QAM	25	0	18.02	18.10	18.24		
5	64QAM	1	0	18.38	18.31	18.28		
5	64QAM	1	12	18.30	18.55	18.41		
5	64QAM	1	24	18.72	18.66	18.50	19.5	2
5	64QAM	12	0	16.97	17.50	16.85		
5	64QAM	12	7	17.01	17.01	17.18		
5	64QAM	12	13	17.25	17.03	17.12		
5	64QAM	25	0	17.04	16.85	17.19	18.5	3

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 Low Middle Ch / Freq	Power High Middle 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	17.93	17.90	17.89		19.5	1	
20	QPSK	50	24	17.77	17.84	17.82	17.88	17.87				
20	QPSK	50	50	17.78	17.82	17.89	17.86	17.85				
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		19.5	1	
20	16QAM	1	49	18.09	18.09	18.10	18.07	18.01				
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		18.5	2	
20	16QAM	50	24	16.75	16.84	16.81	16.88	16.86				
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		18.5	2	
20	64QAM	1	49	16.82	16.86	16.92	16.89	16.88				
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		17.5	3	
20	64QAM	50	24	15.81	15.86	15.95	15.90	15.88				
20	64QAM	50	50	15.81	15.88	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	18.82	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	17.76		19.5	1	
15	QPSK	36	20	17.83	17.72	17.91	17.92	17.85				
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		19.5	1	
15	16QAM	1	37	17.88	17.99	18.02	18.04	17.95				
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		18.5	2	
15	16QAM	36	20	16.76	16.66	16.84	16.98	16.76				
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		18.5	2	
15	64QAM	1	0	16.82	16.88	16.92	16.94	16.82				
15	64QAM	1	37	16.68	16.77	16.78	16.82	16.85				
15	64QAM	1	74	16.70	16.73	16.94	16.88	16.82				
15	64QAM	36	0	15.81	15.78	15.89	15.96	15.77		17.5	3	
15	64QAM	36	20	15.86	15.77	15.91	15.95	15.81				
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	18.89	18.92	18.90	18.96	18.90				
10	QPSK	1	49	18.88	18.92	19.07	19.03	18.95				
10	QPSK	25	0	17.85	17.88	17.87	18.00	17.88		19.5	1	
10	QPSK	25	12	17.87	17.77	17.92	17.92	17.80				
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		19.5	1	
10	16QAM	1	0	17.90	18.32	18.15	18.20	18.02				
10	16QAM	1	25	17.91	17.99	18.07	18.17	17.99				
10	16QAM	1	49	18.11	18.09	18.27	18.22	18.02		19.5	1	
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		18.5	2	
10	64QAM	1	25	16.74	16.79	16.92	16.91	16.84				
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		17.5	3	
10	64QAM	25	12	15.93	15.87	15.99	16.04	15.88				
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	41565				
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5				
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		19.5	1	
5	QPSK	12	7	17.82	17.82	17.88	17.90	17.82				
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		19.5	1	
5	16QAM	1	12	17.98	17.82	17.98	18.00	17.98				
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		18.5	2	
5	16QAM	12	7	16.73	16.70	16.90	16.88	16.82				
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		18.5	2	
5	64QAM	1	12	16.68	16.67	16.86	16.78	16.89				
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		17.5	3	
5	64QAM	12	7	15.84	15.82	15.93	15.97	15.87				
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 Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dbm)	MPR (db)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	22.82	22.88	22.92	22.81	22.79	23.5	0		
20	QPSK	1	49	22.74	22.76	22.81	22.51	22.54				
20	QPSK	1	99	22.55	22.62	22.74	22.53	22.54				
20	QPSK	50	0	21.12	21.20	21.09	21.13	21.00	22.5	1		
20	QPSK	50	24	21.07	21.16	21.04	21.08	20.97				
20	QPSK	50	50	21.09	21.15	21.08	21.12	20.96				
20	QPSK	100	0	21.03	21.10	21.12	21.04	21.11	22.5	1		
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				
20	16QAM	1	99	21.11	21.16	21.17	21.12	21.03	21.5	2		
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				
20	16QAM	50	50	20.09	20.16	20.04	20.12	19.95	21.5	2		
20	16QAM	100	0	20.05	20.09	20.11	20.05	20.13				
20	64QAM	1	49	20.13	20.20	20.08	20.14	20.01				
20	64QAM	1	99	20.11	20.21	20.09	20.13	19.98	20.5	3		
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	64QAM	50	50	20.10	20.21	20.23	20.19	20.08	20.5	3		
20	64QAM	100	0	20.12	20.19	20.23	20.18	20.10				
Channel				39725	40173	40620	41068	41515				
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	22.11	22.02	22.17	22.03	22.15	23.50	0		
15	QPSK	1	37	22.13	22.20	22.12	22.02	22.13				
15	QPSK	1	74	22.16	22.13	22.20	22.12	22.08				
15	QPSK	38	0	22.03	22.01	21.84	21.82	20.13	22.5	1		
15	QPSK	38	20	21.86	22.12	21.72	21.67	21.86				
15	QPSK	38	39	21.69	21.66	21.78	21.69	21.87				
15	QPSK	75	0	21.76	21.76	21.88	21.69	21.95	22.5	1		
15	16QAM	1	0	21.31	21.38	21.39	21.41	21.26				
15	16QAM	1	37	21.41	21.44	21.37	21.40	21.32				
15	16QAM	1	74	21.22	21.32	21.42	21.31	21.21	21.5	2		
15	16QAM	38	0	20.25	20.13	20.21	20.24	20.13				
15	16QAM	38	20	20.13	20.08	20.21	20.25	20.15				
15	16QAM	38	39	20.21	20.08	20.27	20.20	20.15	20.5	3		
15	16QAM	75	0	20.21	20.20	20.28	20.32	20.19				
15	64QAM	1	0	19.73	19.78	19.87	19.98	19.83				
15	64QAM	1	37	19.83	19.77	19.87	19.93	19.75	21.5	2		
15	64QAM	1	74	19.87	19.86	19.86	19.86	19.76				
15	64QAM	38	0	19.15	19.11	19.20	19.28	19.15				
15	64QAM	38	20	19.18	19.09	19.23	19.24	19.14	20.5	3		
15	64QAM	38	39	19.19	19.06	19.17	19.24	19.12				
15	64QAM	75	0	19.16	19.14	19.33	19.30	19.19				
Channel				39700	40160	40620	41080	41549				
Frequency (MHz)				2501	2547	2593	2638	2687.5				
10	QPSK	1	0	22.02	22.10	22.02	22.28	22.24	23.50	0		
10	QPSK	1	25	22.03	22.04	22.02	22.15	22.00				
10	QPSK	1	49	22.00	21.94	22.11	22.09	22.08				
10	QPSK	25	0	20.69	20.71	20.77	20.87	20.74	22.5	1		
10	QPSK	25	12	20.71	20.66	20.82	20.81	20.68				
10	QPSK	25	25	20.78	20.65	20.79	20.82	20.72				
10	QPSK	50	0	20.77	20.74	20.76	20.90	20.76	22.5	1		
10	16QAM	1	0	20.80	20.88	21.01	21.07	20.92				
10	16QAM	1	25	20.93	20.83	20.97	20.93	20.84				
10	16QAM	1	49	20.87	20.79	20.88	20.90	20.92	21.5	2		
10	16QAM	25	0	19.64	19.62	19.78	19.82	19.72				
10	16QAM	25	12	19.71	19.66	19.81	19.84	19.73				
10	16QAM	25	25	19.76	19.63	19.83	19.80	19.75	21.5	2		
10	64QAM	50	0	19.79	19.73	19.79	19.90	19.72				
10	64QAM	1	0	19.77	19.63	19.86	19.77	19.75				
10	64QAM	1	25	19.69	19.68	19.84	19.66	19.62	20.5	3		
10	64QAM	1	49	19.68	19.65	19.81	19.70	19.51				
10	64QAM	25	0	18.72	18.74	18.84	18.92	18.74				
10	64QAM	25	12	18.80	18.61	18.81	18.91	18.73	20.5	3		
10	64QAM	25	25	18.88	18.64	18.67	18.89	18.53				
10	64QAM	50	0	18.85	18.68	18.78	18.88	18.73				
Channel				39675	40145	40620	41003	41565				
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5				
5	QPSK	1	0	22.00	22.16	22.11	22.12	22.01	23.50	0		
5	QPSK	1	12	22.02	21.97	22.16	22.15	22.08				
5	QPSK	1	24	22.03	22.03	22.16	22.16	21.99				
5	QPSK	12	0	21.00	21.03	21.10	21.16	21.04	22.5	1		
5	QPSK	12	7	20.98	20.92	21.07	21.07	21.03				
5	QPSK	12	13	20.99	20.97	21.06	21.10	21.01				
5	QPSK	25	0	21.00	20.95	21.13	21.11	21.01	22.5	1		
5	16QAM	1	0	21.17	21.27	21.37	21.32	21.16				
5	16QAM	1	12	21.11	21.18	21.25	21.20	21.16				
5	16QAM	1	24	21.23	21.32	21.40	21.29	21.16	21.5	2		
5	16QAM	12	0	19.99	19.95	20.09	20.14	20.02				
5	16QAM	12	7	19.92	19.89	20.02	19.96	19.94				
5	16QAM	12	13	19.94	19.93	20.01	20.04	19.93	20.5	3		
5	16QAM	25	0	19.99	19.95	20.06	20.18	20.08				
5	64QAM	1	0	19.58	19.73	19.89	19.93	19.63				
5	64QAM	1	12	19.66	19.51	19.63	19.66	19.58	21.5	2		
5	64QAM	1	24	19.77	19.78	19.94	19.79	19.68				
5	64QAM	12	0	19.20	19.01	19.08	19.18	19.06				
5	64QAM	12	7	19.16	18.98	19.05	19.12	19.02	20.5	3		
5	64QAM	12	13	18.94	18.97	19.08	19.10	19.01				
5	64QAM	25	0	18.96	19.02	19.16	19.13	19.02				

Band 42 Ant 5 For Sensor&Hotspot									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Main Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990	17	0	
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	15.75	15.91	15.87	16	1	
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	14.58	14.51	14.53			
20	QPSK	50	50	14.55	14.51	14.53	15	2	
20	QPSK	100	0	14.35	14.39	14.31			
20	16QAM	1	0	14.82	14.87	14.83			
20	16QAM	1	49	14.80	14.54	14.57			
20	16QAM	1	99	14.63	14.41	14.56			
20	16QAM	50	0	13.84	13.84	13.63	14	3	
20	16QAM	50	24	13.61	13.55	13.51			
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			
20	64QAM	1	49	13.68	13.51	13.58	15	2	
20	64QAM	1	99	13.44	13.45	13.40			
20	64QAM	50	0	12.92	12.71	12.69			
20	64QAM	50	24	12.97	12.68	12.51			
20	64QAM	50	50	12.49	12.52	12.57			
20	64QAM	100	0	12.19	12.49	12.20	14	3	
Channel				42165	42590	43015			
Frequency (MHz)				3457.5	3500	3542.5	17	0	
15	QPSK	1	0	15.39	15.32	15.38			
15	QPSK	1	37	15.33	15.16	15.21	16	1	
15	QPSK	1	74	15.39	15.15	15.17			
15	QPSK	38	0	14.96	14.86	14.84			
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	2	
15	16QAM	1	0	14.79	14.92	14.70			
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	16QAM	38	20	13.64	13.61	13.58	14	3	
15	16QAM	38	39	13.49	13.57	13.52			
15	16QAM	75	0	13.16	13.40	13.39			
15	64QAM	1	0	13.87	13.89	13.79			
15	64QAM	1	37	13.60	13.51	13.66			
15	64QAM	1	74	13.48	13.52	13.55	15	2	
15	64QAM	38	0	12.78	12.56	12.77			
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	17	0	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	15.35	15.30	15.30	16	1	
10	QPSK	1	25	15.35	15.09	15.15			
10	QPSK	1	49	15.18	15.25	15.14			
10	QPSK	25	0	15.29	15.38	15.05			
10	QPSK	25	12	14.98	14.89	14.95			
10	QPSK	25	25	14.75	14.99	14.75	15	2	
10	QPSK	50	0	14.55	14.80	14.68			
10	16QAM	1	0	15.14	15.36	15.09			
10	16QAM	1	25	14.94	14.81	14.94			
10	16QAM	1	49	14.71	14.95	14.41			
10	16QAM	25	0	14.38	14.08	13.81	14	3	
10	16QAM	25	12	13.68	14.15	13.87			
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			
10	64QAM	1	25	13.68	13.89	14.02	15	2	
10	64QAM	1	49	13.84	13.55	13.75			
10	64QAM	25	0	13.31	12.82	12.81			
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	14	3	
Channel				42115	42590	43055			
Frequency (MHz)				3452.5	3500	3547.5	17	0	
5	QPSK	1	0	15.23	15.35	15.26			
5	QPSK	1	12	15.32	15.12	15.28	16	1	
5	QPSK	1	24	15.09	15.38	15.04			
5	QPSK	12	0	14.93	15.01	14.66			
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	15	2	
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			
5	16QAM	12	0	14.15	14.03	13.53			
5	16QAM	12	7	13.47	13.61	13.44	14	3	
5	16QAM	12	13	13.65	13.36	13.44			
5	16QAM	25	0	13.33	13.24	13.46			
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	15	2	
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 Middle Ch / Freq.	Power High Ch / Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
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	19.63			
20	QPSK	50	24	19.78	19.94	19.62			
20	QPSK	50	50	19.80	19.94	19.61	21	1	
20	QPSK	100	0	19.94	19.95	19.66			
20	16QAM	1	0	19.87	19.92	19.69			
20	16QAM	1	49	19.83	19.91	19.67			
20	16QAM	1	99	19.84	19.87	19.67			
20	16QAM	50	0	18.81	18.95	18.65	20	2	
20	16QAM	50	24	18.80	18.93	18.61			
20	16QAM	50	50	18.80	18.95	18.62			
20	16QAM	100	0	18.95	18.96	18.65			
20	64QAM	1	0	18.81	18.99	18.62			
20	64QAM	1	49	18.79	18.98	18.61	20	2	
20	64QAM	1	99	18.81	18.96	18.62			
20	64QAM	50	0	17.82	17.96	17.65			
20	64QAM	50	24	17.79	17.98	17.62			
20	64QAM	50	50	17.80	17.98	17.63			
20	64QAM	100	0	17.82	17.96	17.65	19	3	
Channel				42165	42590	43015			
Frequency (MHz)				3457.5	3500	3542.5	Turn-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	20.96	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	20.07	20.14			
15	QPSK	38	20	20.41	20.09	20.13			
15	QPSK	38	39	20.42	20.01	20.16	21	1	
15	QPSK	75	0	20.48	20.04	20.22			
15	16QAM	1	0	20.55	20.26	20.29			
15	16QAM	1	37	20.56	20.55	20.42			
15	16QAM	1	74	20.49	20.46	20.46	21	1	
15	16QAM	38	0	20.45	19.03	19.08			
15	16QAM	38	20	20.46	18.98	19.10			
15	16QAM	38	39	20.39	18.99	19.13			
15	16QAM	75	0	20.50	19.09	19.20	20	2	
15	64QAM	1	0	19.08	18.76	18.81			
15	64QAM	1	37	19.12	18.77	18.88			
15	64QAM	1	74	19.05	18.68	18.92			
15	64QAM	38	0	18.41	18.03	18.20			
15	64QAM	38	20	18.43	18.01	18.10	19	3	
15	64QAM	38	39	18.37	17.97	18.15			
15	64QAM	75	0	18.44	18.05	18.13			
Channel				42140	42590	43040			
Frequency (MHz)				3455	3500	3545	Turn-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	20.26	20.26	20.26	22	0	
10	QPSK	1	25	20.33	20.02	20.28			
10	QPSK	1	49	20.26	20.07	20.26			
10	QPSK	25	0	19.32	19.09	19.21			
10	QPSK	25	12	19.28	19.08	19.10			
10	QPSK	25	25	19.26	19.10	19.23	21	1	
10	QPSK	50	0	19.30	19.12	19.23			
10	16QAM	1	0	19.34	19.25	19.32			
10	16QAM	1	25	19.41	19.22	19.33			
10	16QAM	1	49	19.33	19.19	19.40	21	1	
10	16QAM	25	0	18.30	18.11	18.21			
10	16QAM	25	12	18.33	18.06	18.20			
10	16QAM	25	25	18.31	18.06	18.24			
10	16QAM	50	0	19.33	19.11	19.26	20	2	
10	64QAM	1	0	19.19	18.13	19.20			
10	64QAM	1	25	19.27	18.07	18.25			
10	64QAM	1	49	18.16	18.03	18.28			
10	64QAM	25	0	17.32	17.69	17.25	20	2	
10	64QAM	25	12	17.33	17.69	17.22			
10	64QAM	25	25	17.30	17.11	17.23			
10	64QAM	50	0	17.29	17.08	17.19			
Channel				42115	42590	43065	Turn-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	20.26	20.16	20.28	22	0	
5	QPSK	1	12	20.34	20.12	20.29			
5	QPSK	1	24	20.27	20.14	20.26			
5	QPSK	12	0	19.30	19.11	19.26			
5	QPSK	12	7	19.25	19.10	19.20			
5	QPSK	12	13	19.28	19.08	19.24	21	1	
5	QPSK	25	0	19.28	19.06	19.24			
5	16QAM	1	0	19.37	19.23	19.40			
5	16QAM	1	12	19.38	19.23	19.28			
5	16QAM	1	24	19.34	19.22	19.41	21	1	
5	16QAM	12	0	18.70	18.54	18.60			
5	16QAM	12	7	18.73	18.50	18.60			
5	16QAM	12	13	18.72	18.48	18.61			
5	16QAM	25	0	18.83	18.60	18.74	20	2	
5	64QAM	1	0	18.41	18.33	18.48			
5	64QAM	1	12	18.55	18.30	18.38			
5	64QAM	1	24	18.42	18.28	18.41			
5	64QAM	12	0	17.78	17.63	17.73	19	3	
5	64QAM	12	7	17.77	17.58	17.71			
5	64QAM	12	13	17.75	17.52	17.68			
5	64QAM	25	0	17.83	17.59	17.74			



Band 4 Ant 0 For Sensor ENDC											
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Modem Ch. / Freq.	Power HTFS 20175	Power HTFS 20350	Turn-up (dBm)	APRS (dB)		
Channel										APRS (dB)	
Frequency (MHz)										APRS (dB)	
25	QPSK	1	0	15.21	15.22	15.21			17	0	
25	QPSK	1	40	14.97	14.98	15.04					
25	QPSK	1	80	15.00	15.00	15.11					
25	QPSK	50	0	14.22	14.25	14.08					
25	QPSK	50	24	14.08	14.20	14.08			18	1	
25	QPSK	50	50	13.95	14.10	14.04					
25	QPSK	100	0	13.89	13.99	13.93					
25	16QAM	1	0	13.99	14.25	14.25					
25	16QAM	1	40	14.18	14.20	14.15			18	1	
25	16QAM	1	80	14.22	14.20	14.05					
25	16QAM	50	0	13.28	13.32	13.34					
25	16QAM	50	24	12.97	13.30	13.06					
25	16QAM	50	50	13.22	13.36	13.04			15	2	
25	16QAM	100	0	12.99	13.15	13.33					
25	8QAM	1	0	13.19	13.28	13.23					
25	8QAM	1	40	13.11	13.24	13.18			15	2	
25	8QAM	1	80	13.10	13.27	13.04					
25	8QAM	50	0	12.02	12.15	12.05					
25	8QAM	50	24	12.02	12.15	12.05			14	3	
25	8QAM	50	50	11.97	12.30	12.02					
25	8QAM	100	0	12.26	12.31	12.24					
Channel										APRS (dB)	
Frequency (MHz)										APRS (dB)	
2025	20175	20350	Turn-up (dBm)	APRS (dB)							
17.75	17.75	17.75	17.75	17.75							
15	QPSK	1	0	15.19	15.12	15.23			17	0	
15	QPSK	1	37	14.96	15.19	15.05					
15	QPSK	1	74	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	13.92	14.01	14.02					
15	16QAM	1	0	13.90	14.30	14.28					
15	16QAM	1	37	14.18	14.31	14.25			16	1	
15	16QAM	1	74	14.20	14.25	14.09					
15	16QAM	36	0	13.23	13.28	13.34					
15	16QAM	36	20	12.96	13.30	13.08			15	2	
15	16QAM	75	0	13.10	13.15	13.25					
15	8QAM	1	0	13.10	13.20	13.15					
15	8QAM	1	37	13.13	13.25	13.25			15	2	
15	8QAM	1	74	13.04	13.18	13.06					
15	8QAM	36	0	12.04	12.22	12.13					
15	8QAM	36	20	11.96	12.07	12.09			14	3	
15	8QAM	36	50	11.97	12.38	12.16					
15	8QAM	75	0	12.32	12.10	12.16					
Channel										APRS (dB)	
Frequency (MHz)										APRS (dB)	
2025	20175	20350	Turn-up (dBm)	APRS (dB)							
17.75	17.75	17.75	17.75	17.75							
10	QPSK	1	0	15.10	15.10	15.11			17	0	
10	QPSK	1	25	15.01	15.17	15.04					
10	QPSK	1	49	15.08	15.04	15.14					
10	QPSK	25	0	14.23	14.10	13.98					
10	QPSK	25	12	14.13	14.21	14.18			18	1	
10	QPSK	25	25	14.04	13.98	13.98					
10	QPSK	50	0	13.85	14.01	14.02					
10	16QAM	1	0	13.98	14.20	14.17					
10	16QAM	1	25	14.22	14.31	14.15			16	1	
10	16QAM	1	49	14.28	14.19	14.06					
10	16QAM	25	0	13.24	13.34	13.30					
10	16QAM	25	12	12.99	13.20	13.05			15	2	
10	16QAM	25	25	13.20	13.27	13.27					
10	16QAM	50	0	13.09	13.10	13.25					
10	8QAM	1	0	13.32	13.37	13.22			15	2	
10	8QAM	1	25	13.04	13.31	13.17					
10	8QAM	1	49	12.96	13.25	13.01					
10	8QAM	25	0	12.10	12.11	12.26					
10	8QAM	25	12	12.00	12.10	12.05			14	3	
10	8QAM	25	25	12.02	12.40	12.13					
10	8QAM	50	0	12.16	12.23	12.09					
Channel										APRS (dB)	
Frequency (MHz)										APRS (dB)	
2025	20175	20350	Turn-up (dBm)	APRS (dB)							
17.75	17.75	17.75	17.75	17.75							
5	QPSK	1	0	15.17	15.12	15.13			17	0	
5	QPSK	1	12	15.09	15.12	14.97					
5	QPSK	1	24	15.03	15.10	15.06					
5	QPSK	12	0	14.02	14.11	14.03					
5	QPSK	12	7	14.16	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	16QAM	1	0	14.00	14.27	14.21					
5	16QAM	1	12	14.13	14.20	14.24			16	1	
5	16QAM	1	24	14.20	14.20	14.12					
5	16QAM	12	0	13.20	13.20	13.28					
5	16QAM	12	7	13.05	13.20	13.16			15	2	
5	16QAM	12	13	13.23	13.33	13.11					
5	16QAM	25	0	13.01	13.25	13.33					
5	8QAM	1	0	13.32	13.35	13.12			15	2	
5	8QAM	1	12	13.09	13.34	13.21					
5	8QAM	1	24	13.07	13.24	13.12					
5	8QAM	12	0	12.02	12.10	12.13			14	3	
5	8QAM	12	7	12.04	12.18	12.09					
5	8QAM	12	13	12.00	12.40	12.24					
5	8QAM	25	0	12.14	12.21	12.15					
Channel										APRS (dB)	
Frequency (MHz)										APRS (dB)	
2025	20175	20350	Turn-up (dBm)	APRS (dB)							
17.75	17.75	17.75	17.75	17.75							
3	QPSK	1	0	15.06	15.21	15.05			17	0	
3	QPSK	1	14	14.98	15.07	15.05					
3	QPSK	8	0	14.22	14.10	14.00					
3	QPSK	8	4	14.08	14.10	14.15					
3	QPSK	8	7	14.03	13.98	14.07			18	1	
3	QPSK	15	0	13.83	14.05	13.98					
3	16QAM	1	0	13.97	14.31	14.22					
3	16QAM	1	6	14.24	14.20	14.12					
3	16QAM	1	14	14.23	14.20	14.13			16	1	
3	16QAM	8	0	13.17	13.34	13.33					
3	16QAM	8	4	13.07	13.20	13.12					
3	16QAM	8	7	13.23	13.32	13.13			15	2	
3	16QAM	15	0	13.10	13.27	13.27					
3	8QAM	1	0	13.26	13.24	13.25					
3	8QAM	1	6	13.08	13.27	13.27			15	2	
3	8QAM	1	14	13.10	13.26	13.11					
3	8QAM	8	0	12.08	12.10	12.22					
3	8QAM	8	4	12.01	12.09	12.08			14	3	
3	8QAM	8	7	11.99	12.38	12.18					
3	8QAM	15	0	12.24	12.31	12.11					
Channel											APRS (dB)
Frequency (MHz)										APRS (dB)	
2025	20175	20350	Turn-up (dBm)	APRS (dB)							
17.75	17.75	17.75	17.75	17.75							
1.4	QPSK	1	0	15.00	15.21	15.15			17	0	
1.4	QPSK	1	3	15.03	15.14	15.07					
1.4	QPSK	1	5	14.94	15.08	15.11					
1.4	QPSK	3	0	15.12	15.25	15.16					
1.4	QPSK	3	1	15.08	15.10	14.99			18	1	
1.4	QPSK	3	3	15.03	15.12	15.15					
1.4	QPSK	6	0	14.24	14.20	14.12					
1.4	16QAM	1	0	14.01	14.24	14.26					
1.4	16QAM	1	3	14.24	14.25	14.11			18	1	
1.4	16QAM	1	5	14.21	14.30	14.19					
1.4	16QAM	3	0	13.99	14.05	13.97					
1.4	16QAM	3	1	13.95	14.30	14.27					
1.4	16QAM	3	3	14.25	14.25	14.20			16	2	
1.4	16QAM	6	0	13.09	13.17	13.20					
1.4	16QAM	6	3	13.09	13.26	13.10					
1.4	8QAM	1	0	13.32	13.38	13.12			15	2	
1.4	8QAM	1	3	13.03	13.28	13.12					
1.4	8QAM	1	5	13.06	13.37	13.14					
1.4	8QAM	3	0	12.29	12.37	12.14			15	2	
1.4	8QAM	3	1	12.26	12.26	12.38					
1.4	8QAM	3	3	13.25	13.32	13.11					
1.4	8QAM	6	0	12.14	12.22	12.18			14	3	
1.4	8QAM	6	3	12.12	12.22	12.18					
1.4	8QAM	6	5	12.12	12.22	12.18					



Band 5 Ant 0 For Sensor&Hotspot EDC										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Level Ch./F.Freq.	Power Slope Ch./F.Freq.	Power High Ch./F.Freq.	Power High Ch./F.Freq.	Time-up Rate (dBm)	MPH (dB)	
Channel				20450	20525	20580				
Frequency (MHz)				829	836.5	844				
10	QPSK	1	0	19.53	19.54	19.47				
10	QPSK	1	25	19.51	19.52	19.49				
10	QPSK	1	40	19.51	19.52	19.49				
10	QPSK	25	0	18.44	18.47	18.42				
10	QPSK	25	12	18.36	18.44	18.37				
10	QPSK	25	20	18.45	18.43	18.45				
10	QPSK	50	0	18.34	18.38	18.25				
10	16QAM	1	0	18.52	18.52	18.49				
10	16QAM	1	25	18.51	18.52	18.49				
10	16QAM	1	40	18.51	18.51	18.48				
10	16QAM	25	0	17.45	17.46	17.43				
10	16QAM	25	12	17.38	17.45	17.38				
10	16QAM	25	20	17.39	17.41	17.38				
10	16QAM	50	0	17.32	17.39	17.25				
10	64QAM	1	0	17.27	17.34	17.21				
10	64QAM	1	25	17.26	17.32	17.20				
10	64QAM	1	40	17.30	17.35	17.28				
10	64QAM	25	0	16.42	16.48	16.44				
10	64QAM	25	12	16.45	16.48	16.40				
10	64QAM	25	20	16.45	16.45	16.42				
10	64QAM	50	0	16.46	16.45	16.41				
Channel				20455	20525	20585	Time-up Rate (dBm)	MPH (dB)		
Frequency (MHz)				844.5	844.5	844.5				
5	QPSK	1	0	19.44	19.46	19.38				
5	QPSK	1	12	19.44	19.44	19.36				
5	QPSK	1	24	19.44	19.43	19.36				
5	QPSK	12	0	19.38	19.37	19.34				
5	QPSK	12	7	19.33	19.35	19.30				
5	QPSK	12	13	19.33	19.33	19.30				
5	QPSK	25	0	18.25	18.26	18.25				
5	QPSK	1	0	18.46	18.43	18.42				
5	16QAM	1	12	18.41	18.45	18.35				
5	16QAM	1	24	18.42	18.45	18.40				
5	16QAM	12	0	17.36	17.38	17.35				
5	16QAM	12	7	17.30	17.35	17.26				
5	16QAM	12	13	17.32	17.37	17.30				
5	16QAM	25	0	17.25	17.31	17.24				
5	64QAM	1	12	17.22	17.28	17.11				
5	64QAM	1	24	17.21	17.28	17.12				
5	64QAM	12	0	16.34	16.36	16.30				
5	64QAM	12	7	16.36	16.42	16.33				
5	64QAM	12	13	16.38	16.39	16.34				
5	64QAM	25	0	16.36	16.36	16.34				
Channel				20455	20525	20585	Time-up Rate (dBm)	MPH (dB)		
Frequency (MHz)				825.5	836.5	847.5				
3	QPSK	1	0	19.43	19.45	19.38				
3	QPSK	1	8	19.41	19.46	19.35				
3	QPSK	1	14	19.41	19.43	19.36				
3	QPSK	8	0	18.37	18.38	18.36				
3	QPSK	8	4	18.36	18.36	18.36				
3	QPSK	8	8	18.31	18.34	18.31				
3	QPSK	15	0	18.25	18.28	18.14				
3	16QAM	1	0	18.45	18.44	18.39				
3	16QAM	1	8	18.44	18.45	18.36				
3	16QAM	1	14	18.44	18.45	18.37				
3	16QAM	8	0	17.37	17.39	17.35				
3	16QAM	8	4	17.36	17.38	17.37				
3	16QAM	8	7	17.30	17.35	17.31				
3	16QAM	15	0	17.24	17.32	17.14				
3	64QAM	1	0	17.19	17.27	17.11				
3	64QAM	1	8	17.24	17.27	17.11				
3	64QAM	1	14	17.23	17.26	17.11				
3	64QAM	8	0	16.32	16.40	16.38				
3	64QAM	8	4	16.36	16.42	16.33				
3	64QAM	8	7	16.36	16.36	16.34				
3	64QAM	15	0	16.37	16.38	16.35				
Channel				20467	20525	20543	Time-up Rate (dBm)	MPH (dB)		
Frequency (MHz)				824.7	836.5	846.3				
1.4	QPSK	1	0	19.46	19.48	19.38				
1.4	QPSK	1	3	19.44	19.47	19.36				
1.4	QPSK	1	5	19.42	19.45	19.38				
1.4	QPSK	3	0	19.32	19.34	19.31				
1.4	QPSK	3	1	19.26	19.30	19.24				
1.4	QPSK	3	3	19.28	19.33	19.27				
1.4	QPSK	6	0	18.26	18.28	18.14				
1.4	16QAM	1	0	18.44	18.44	18.42				
1.4	16QAM	1	3	18.45	18.46	18.36				
1.4	16QAM	1	5	18.44	18.41	18.37				
1.4	16QAM	3	0	18.39	18.39	18.31				
1.4	16QAM	3	1	18.28	18.32	18.25				
1.4	16QAM	3	3	18.28	18.28	18.28				
1.4	16QAM	6	0	17.24	17.30	17.16				
1.4	64QAM	1	0	17.19	17.26	17.13				
1.4	64QAM	1	3	17.25	17.27	17.13				
1.4	64QAM	1	5	17.23	17.28	17.14				
1.4	64QAM	3	0	17.27	17.32	17.28				
1.4	64QAM	3	1	17.32	17.34	17.25				
1.4	64QAM	3	3	17.29	17.31	17.28				
1.4	64QAM	6	0	16.37	16.38	16.35				

Band 5 For Handheld										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Level Ch./F.Freq.	Power Slope Ch./F.Freq.	Power High Ch./F.Freq.	Power High Ch./F.Freq.	Time-up Rate (dBm)	MPH (dB)	
Channel				20460	20525	20580				
Frequency (MHz)				829	836.5	844				
10	QPSK	1	0	20.49	20.53	20.50				
10	QPSK	1	25	20.51	20.51	20.42			21	0
10	QPSK	1	40	20.51	20.50	20.48				
10	QPSK	25	0	19.45	19.48	19.47				
10	QPSK	25	12	19.38	19.46	19.44			20	1
10	QPSK	25	20	19.47	19.47	19.39				
10	QPSK	50	0	19.35	19.47	19.16				
10	16QAM	1	0	19.47	19.58	19.54				
10	16QAM	1	25	19.46	19.51	19.54			20	1
10	16QAM	1	40	19.45	19.50	19.50				
10	16QAM	25	0	18.50	18.48	18.45				
10	16QAM	25	12	18.36	18.52	18.42				2
10	16QAM	25	20	18.44	18.43	18.35				
10	16QAM	50	0	18.35	18.44	18.31				
10	64QAM	1	0	18.52	18.34	18.26				
10	64QAM	1	25	18.36	18.51	18.29			20	2
10	64QAM	1	40	18.32	18.33	18.23				
10	64QAM	25	0	17.45	17.37	17.30				
10	64QAM	25	12	17.45	17.55	17.41			18	3
10	64QAM	25	20	17.49	17.48	17.45				
10	64QAM	50	0	17.47	17.43	17.37				
Channel				20465	20525	20585		Time-up Rate (dBm)	MPH (dB)	
Frequency (MHz)				829.5	836.5	844.5				
5	QPSK	1	0	20.54	20.45	20.35				
5	QPSK	1	12	20.47	20.51	20.42			21	0
5	QPSK	1	24	20.39	20.47	20.42				
5	QPSK	12	0	19.35	19.41	19.41				
5	QPSK	12	7	19.36	19.37	19.27				
5	QPSK	12	13	19.40	19.35	19.35			20	1
5	QPSK	25	0	18.27	18.28	18.11				
5	16QAM	1	0	19.45	19.47	19.39				
5	16QAM	1	12	19.41	19.44	19.32			20	1
5	16QAM	1	24	19.47	19.52	19.41				
5	16QAM	12	0	18.45	18.35	18.44				
5	16QAM	12	7	18.29	18.31	18.29				
5	16QAM	12	13	18.34	18.36	18.36			18	2
5	16QAM	25	0	18.29	18.40	18.17				
5	16QAM	1	0	18.23	18.25	18.22				
5	16QAM	1	12	18.21	18.30	18.17			18	2
5	64QAM	1	24	18.25	18.37	18.15				
5	64QAM	12	0	17.42	17.39	17.32				
5	64QAM	12	7	17.45	17.42	17.38			18	3
5	64QAM	12	13	17.39	17.38	17.38				
5	64QAM	25	0	17.37	17.32	17.30				
Channel				20475	20525	20585		Time-up Rate (dBm)	MPH (dB)	
Frequency (MHz)				825.5	836.5	847.5				
3	QPSK	1	0	20.40	20.41	20.40				
3	QPSK	1	8	20.45	20.45	20.37			21	0
3	QPSK	1	14	20.36	20.48	20.32				
3	QPSK	8	0	19.37	19.40	19.43				
3	QPSK	8	4	19.36	19.40	19.29				
3	QPSK	8	7	19.36	19.41	19.34			20	1
3	QPSK	15	0	19.28	19.28	19.14				
3	16QAM	1	0	19.50	19.48	19.48				
3	16QAM	1	8	19.45	19.46	19.40			20	1
3	16QAM	1	14	19.42	19.43	19.32				
3	16QAM									
3	16QAM	8	0	19.46	19.48	19.42				
3	16QAM	8	4	19.37	19.38	19.37				
3	16QAM	8	7	19.29	19.35	19.34			19	2
3	16QAM	15	0	18.19	18.25	18.10				
3	64QAM	1	0	18.21	18.24	18.15				
3	64QAM	1	8	18.20	18.32	18.17			19	2
3	64QAM	1	14	18.31	18.31	18.20				
3	64QAM									
3	64QAM	8	0	17.50	17.42	17.42				
3	64QAM	8	4	17.45	17.46	17.42			18	3
3	64QAM	8	7	17.36	17.38	17.30				
3	64QAM	15	0	17.38	17.38	17.23				
Channel				20485	20525	20595		Time-up Rate (dBm)	MPH (dB)	
Frequency (MHz)				824.7	836.5	846.3				
1.4	QPSK	1	0	19.74	20.02	19.96				
1.4	QPSK	1	3	19.75	19.92	19.87				
1.4	QPSK	1	6	19.66	19.96	19.84			21	0
1.4	QPSK	3	0	19.79	19.92	19.75				
1.4	QPSK	3	1	19.81	19.84	19.85				
1.4	QPSK	3	3	19.81	19.84	19.88				
1.4	QPSK	6	0	18.89	19.05	18.76			20	1
1.4	16QAM	1	0	19.09	19.33	19.38				
1.4	16QAM	1	3	19.20	19.24	19.42				
1.4	16QAM	1	6	19.06	19.28	19.17				
1.4	16QAM	3	0	19.15	19.15	19.02			20	1
1.4	16QAM	3	1	18.87	19.00	18.84				
1.4	16QAM	3	3	18.80	18.95	18.89				
1.4	16QAM	6	0	17.86	17.99	17.87			19	2
1.4	16QAM	1	0	18.45	18.51	18.41				
1.4	16QAM	1	3	18.22	18.11	18.28				
1.4	16QAM	1	5	18.03	18.15	18.06				
1.4	16QAM	3	0	18.07	18.20	17.92			19	2
1.4	16QAM	3	3	18.05	18.24	17.80				
1.4	64QAM	3	3	17.90	18.13	18.02				
1.4	64QAM	6	0	16.91	17.01	16.91			18	3



Band 66 Ant 0 For Hotspot ENDC										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch (dBm)	Power Mid Ch (dBm)	Power High Ch (dBm)	Time-up (min)	APRS (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	14.02	14.14	14.11	15.5	0		
20	QPSK	1	40	14.05	14.08	14.18				
20	QPSK	1	80	14.01	14.00	14.00				
20	QPSK	50	0	14.11	14.21	14.21				
20	QPSK	50	24	14.25	14.16	14.14	15.5	0		
20	QPSK	50	50	14.22	14.21	14.27				
20	QPSK	100	0	14.26	14.29	14.25				
20	QPSK	1	0	14.04	14.19	14.15				
20	QPSK	1	40	14.07	14.03	14.19	15.5	0		
20	QPSK	1	80	14.08	14.10	14.02				
20	QPSK	50	0	14.11	14.25	14.18				
20	QPSK	50	24	14.29	14.26	14.20				
20	QPSK	50	50	14.27	14.19	14.25	15.5	0		
20	QPSK	100	0	14.27	14.21	14.25				
20	QPSK	1	0	13.97	14.11	14.07				
20	QPSK	1	40	14.03	14.12	14.13				
20	QPSK	1	80	13.98	14.07	13.96	15.5	0		
20	QPSK	50	0	14.10	14.21	14.20				
20	QPSK	50	24	14.30	14.13	14.20				
20	QPSK	50	50	14.22	14.24	14.26				
20	QPSK	100	0	14.23	14.26	14.18	15.5	0		
Channel										
Frequency (MHz)										
15	QPSK	1	0	13.94	14.18	13.93	15.5	0		
15	QPSK	1	37	13.89	14.01	13.96				
15	QPSK	1	74	13.90	14.04	13.96				
15	QPSK	36	0	14.20	14.14	14.24				
15	QPSK	36	20	14.21	14.21	14.24	15.5	0		
15	QPSK	36	36	14.04	14.16	14.00				
15	QPSK	75	0	14.08	14.16	14.05				
15	QPSK	1	0	13.91	14.17	13.93				
15	QPSK	1	37	14.09	13.85	13.94	15.5	0		
15	QPSK	1	74	14.18	14.05	14.19				
15	QPSK	36	0	13.98	13.97	14.05				
15	QPSK	36	20	14.24	14.00	13.96				
15	QPSK	36	36	14.17	14.24	14.09	15.5	0		
15	QPSK	75	0	14.11	14.19	14.22				
15	QPSK	1	0	14.06	14.26	13.95				
15	QPSK	1	37	14.24	14.02	14.07				
15	QPSK	1	74	13.99	13.97	14.07	15.5	0		
15	QPSK	36	0	14.12	14.09	14.25				
15	QPSK	36	20	14.10	14.11	13.95				
15	QPSK	36	36	14.20	13.84	13.90				
15	QPSK	75	0	13.96	14.05	14.11	15.5	0		
Channel										
Frequency (MHz)										
10	QPSK	1	0	13.85	14.18	14.02	15.5	0		
10	QPSK	1	25	13.86	13.99	13.92				
10	QPSK	1	40	13.83	14.11	13.94				
10	QPSK	25	0	14.19	14.06	14.22				
10	QPSK	25	12	14.16	14.21	14.16	15.5	0		
10	QPSK	25	25	13.91	14.14	13.94				
10	QPSK	50	0	13.99	14.24	14.13				
10	QPSK	1	0	14.16	14.24	13.79				
10	QPSK	1	25	14.04	13.98	13.90	15.5	0		
10	QPSK	1	40	14.20	13.99	14.02				
10	QPSK	25	0	14.03	14.14	14.12				
10	QPSK	25	12	14.16	14.21	14.05				
10	QPSK	25	25	14.13	14.07	13.95	15.5	0		
10	QPSK	50	0	14.13	14.20	14.16				
10	QPSK	1	0	14.21	14.21	14.25				
10	QPSK	1	0	13.83	14.23	14.02				
10	QPSK	1	25	14.14	13.97	13.90	15.5	0		
10	QPSK	1	40	13.98	13.88	14.17				
10	QPSK	25	0	14.14	14.05	14.18				
10	QPSK	25	12	14.02	14.00	13.96				
10	QPSK	25	25	14.07	14.07	13.95	15.5	0		
10	QPSK	50	0	14.03	14.08	14.24				
Channel										
Frequency (MHz)										
5	QPSK	1	0	14.08	14.21	13.93	15.5	0		
5	QPSK	1	12	13.95	14.15	13.86				
5	QPSK	1	24	13.94	14.16	13.90				
5	QPSK	12	0	14.13	14.21	14.09				
5	QPSK	12	7	14.17	14.00	14.15	15.5	0		
5	QPSK	12	13	14.13	14.20	13.85				
5	QPSK	25	0	14.05	13.91	13.96				
5	QPSK	1	0	13.91	14.12	13.88				
5	QPSK	1	12	13.88	14.15	13.88	15.5	0		
5	QPSK	1	24	14.11	14.07	14.01				
5	QPSK	12	0	14.09	14.00	14.24				
5	QPSK	12	7	14.17	14.20	13.92				
5	QPSK	12	13	14.08	14.16	13.91	15.5	0		
5	QPSK	25	0	13.94	14.16	14.21				
5	QPSK	1	0	13.92	14.05	13.95				
5	QPSK	1	12	14.15	13.95	14.07				
5	QPSK	1	24	14.01	14.06	13.91	15.5	0		
5	QPSK	12	0	14.08	14.27	14.27				
5	QPSK	12	7	14.07	14.13	13.95				
5	QPSK	12	13	14.10	13.90	13.89				
5	QPSK	25	0	14.03	14.14	14.21	15.5	0		
Channel										
Frequency (MHz)										
3	QPSK	1	0	13.94	14.07	13.98	15.5	0		
3	QPSK	1	8	13.97	14.12	13.96				
3	QPSK	1	14	14.01	14.01	14.01				
3	QPSK	8	0	14.13	14.11	14.02				
3	QPSK	8	4	14.25	13.90	14.15	15.5	0		
3	QPSK	8	7	14.03	14.22	13.94				
3	QPSK	15	0	14.05	13.79	13.89				
3	QPSK	1	0	13.86	13.95	13.89				
3	QPSK	1	8	13.97	13.71	13.89	15.5	0		
3	QPSK	1	14	14.10	13.88	13.85				
3	QPSK	8	0	13.97	14.01	14.18				
3	QPSK	8	4	14.04	14.28	14.08				
3	QPSK	8	7	14.17	14.04	13.98	15.5	0		
3	QPSK	15	0	13.84	14.19	14.10				
3	QPSK	1	0	13.83	14.16	14.13				
3	QPSK	1	8	14.02	13.98	14.13				
3	QPSK	1	14	14.02	14.09	14.21	15.5	0		
3	QPSK	8	0	14.18	14.23	14.21				
3	QPSK	8	4	14.11	14.07	13.87				
3	QPSK	8	7	14.11	13.73	13.82				
3	QPSK	15	0	13.98	14.04	14.28	15.5	0		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	13.93	13.97	14.11	15.5	0		
1.4	QPSK	1	3	13.96	14.17	14.05				
1.4	QPSK	1	5	13.91	13.96	14.15				
1.4	QPSK	1	3	14.22	14.13	14.06				
1.4	QPSK	1	7	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	14.01	13.98	13.97				
1.4	QPSK	1	0	13.74	13.80	13.84				
1.4	QPSK	1	3	13.79	13.88	13.79	15.5	0		
1.4	QPSK	1	5	14.08	14.03	13.75				
1.4	QPSK	1	7	14.11	14.21	14.14				
1.4	QPSK	1	3	14.12	14.34	14.14				
1.4	QPSK	3	3	14.10	14.02	14.18	15.5	0		
1.4	QPSK	6	0	13.91	14.20	14.22				
1.4	QPSK	1	0	13.98	14.03	14.15				
1.4	QPSK	1	3	14.14	13.88	14.10				
1.4	QPSK	1	5	14.04	14.15	14.05	15.5	0		
1.4	QPSK	1	7	14.11	14.21	14.14				
1.4	QPSK	3	3	14.16	14.21	14.03				
1.4	QPSK	3	3	14.04	13.79	13.89				
1.4	QPSK	6	0	13.93	13.96	14.08	15.5	0		



Band 66 Ant 4 For Handheld											
BW (MHz)	Multicast	RB Size	RB Offset	Power Level Ch. / PPM	Power Margin Ch. / PPM	Power Level Ch. / PPM	Power Margin Ch. / PPM	Time-up Time (min)	MR (dB)		
Channel											
Frequency (MHz)											
20	QPSK	1	0	18.24	18.48	18.24		20.5	0		
20	QPSK	1	46	18.06	18.15	19.15					
20	QPSK	1	90	18.16	18.15	18.76					
20	QPSK	50	0	17.82	17.88	17.79					
20	QPSK	50	24	17.74	17.83	17.88		19.5	1		
20	QPSK	50	50	17.77	17.80	17.71					
20	HQAM	100	0	17.73	17.79	17.77					
20	HQAM	1	0	17.79	17.87	17.71					
20	HQAM	1	46	17.73	17.88	17.65		19.5	1		
20	HQAM	1	90	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					
20	HQAM	50	50	18.79	18.74	18.80		18.5	2		
20	HQAM	100	0	18.77	18.87	18.72					
20	HQAM	1	0	18.71	18.79	18.85					
20	HQAM	1	46	18.76	18.82	18.88					
20	HQAM	1	90	18.81	18.78	18.88		18.5	2		
20	HQAM	50	0	18.76	18.78	18.76					
20	HQAM	50	24	18.71	18.79	18.77					
20	HQAM	50	50	18.77	18.82	18.83					
20	HQAM	100	0	18.68	18.81	18.78		17.5	3		
Channel											
Frequency (MHz)											
15	QPSK	1	0	18.24	18.48	18.24		20.5	0		
15	QPSK	1	37	18.16	18.18	18.14					
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		19.5	1		
15	QPSK	36	36	17.78	17.82	17.72					
15	HQAM	75	0	18.76	18.82	18.78					
15	HQAM	1	0	17.90	17.97	17.74					
15	HQAM	1	37	17.75	17.91	17.73		19.5	1		
15	HQAM	1	74	17.84	17.85	17.80					
15	HQAM	36	0	18.76	18.88	18.78					
15	HQAM	36	20	18.73	18.84	18.77					
15	HQAM	36	36	18.88	18.84	18.78		18.5	2		
15	HQAM	75	0	18.85	18.80	18.82					
15	HQAM	1	0	18.88	18.82	18.71					
15	HQAM	1	37	18.87	18.85	18.72					
15	HQAM	1	74	18.78	18.78	18.88		18.5	2		
15	HQAM	36	0	18.72	18.83	18.78					
15	HQAM	36	20	18.88	18.78	18.79					
15	HQAM	36	36	18.81	18.80	18.71					
15	HQAM	75	0	18.78	18.77	18.82		17.5	3		
Channel											
Frequency (MHz)											
10	QPSK	1	0	18.20	18.48	18.17		20.5	0		
10	QPSK	1	25	18.10	18.13	18.17					
10	QPSK	1	46	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		19.5	1		
10	QPSK	25	25	17.69	17.77	17.67					
10	QPSK	50	0	17.86	17.83	17.88					
10	HQAM	1	0	17.89	17.79	17.88					
10	HQAM	1	25	17.86	17.82	17.85		19.5	1		
10	HQAM	1	46	17.74	17.75	17.71					
10	HQAM	25	0	18.81	18.84	18.78					
10	HQAM	25	12	18.78	18.85	18.81					
10	HQAM	25	25	18.88	18.78	18.84		18.5	2		
10	HQAM	50	0	18.78	18.87	18.88					
10	HQAM	1	0	18.81	18.83	18.74					
10	HQAM	1	25	18.74	18.79	18.75					
10	HQAM	1	46	18.76	18.85	18.86		18.5	2		
10	HQAM	25	0	18.77	18.88	18.75					
10	HQAM	25	12	18.78	18.75	18.75					
10	HQAM	25	25	18.88	18.78	18.84					
10	HQAM	25	12	18.78	18.75	18.75		17.5	3		
10	HQAM	25	25	18.88	18.78	18.84					
10	HQAM	50	0	18.74	18.84	18.74					
10	HQAM	50	0	18.74	18.84	18.74					
Channel											
Frequency (MHz)											
5	QPSK	1	0	18.20	18.58	18.20		20.5	0		
5	QPSK	1	12	18.16	18.08	18.03					
5	QPSK	1	24	18.22	18.15	18.08					
5	QPSK	12	0	17.76	17.84	17.72					
5	QPSK	12	7	17.76	17.73	17.81		19.5	1		
5	QPSK	12	13	17.72	17.71	17.73					
5	QPSK	25	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		19.5	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	18.86	18.88					
5	HQAM	12	13	18.75	18.79	18.71		18.5	2		
5	HQAM	25	0	18.78	18.82	18.78					
5	HQAM	1	0	18.79	18.75	18.68					
5	HQAM	1	12	18.75	18.71	18.68					
5	HQAM	1	24	18.78	18.78	18.68		18.5	2		
5	HQAM	12	0	18.79	18.84	18.75					
5	HQAM	12	7	18.77	18.82	18.78					
5	HQAM	12	13	18.73	18.88	18.78					
5	HQAM	12	13	18.73	18.88	18.80		17.5	3		
5	HQAM	25	0	18.76	18.81	18.83					
5	HQAM	25	0	18.76	18.81	18.83					
5	HQAM	25	0	18.76	18.81	18.83					
Channel											
Frequency (MHz)											
3	QPSK	1	0	18.24	18.81	18.20		20.5	0		
3	QPSK	1	7	18.06	18.03	18.06					
3	QPSK	1	14	18.22	18.24	18.12					
3	QPSK	8	0	17.78	17.88	17.72					
3	QPSK	8	4	17.74	17.75	17.78		19.5	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	8	17.77	17.89	17.88		19.5	1		
3	HQAM	14	0	17.73	17.87	17.73					
3	HQAM	8	0	18.68	18.78	18.80					
3	HQAM	8	4	18.71	18.84	18.74					
3	HQAM	8	7	18.75	18.83	18.75		18.5	2		
3	HQAM	15	0	18.88	18.84	18.78					
3	HQAM	1	0	18.80	18.77	18.72					
3	HQAM	1	8	18.79	18.84	18.75					
3	HQAM	1	14	18.80	18.80	18.83		18.5	2		
3	HQAM	8	0	18.69	18.83	18.71					
3	HQAM	8	4	18.74	18.95	18.73					
3	HQAM	8	7	18.74	18.87	18.84					
3	HQAM	15	0	18.80	18.80	18.79		17.5	3		
Channel											
Frequency (MHz)											
1.4	QPSK	1	0	18.21	18.24	18.24		20.5	0		
1.4	QPSK	1	3	18.18	18.12	18.13					
1.4	QPSK	1	5	18.18	18.23	18.15					
1.4	QPSK	3	0	17.71	17.77	17.85					
1.4	QPSK	3	1	17.77	17.83	17.81		19.5	1		
1.4	QPSK	3	3	17.77	17.77	17.70					
1.4	QPSK	6	0	18.76	18.81	18.77					
1.4	QPSK	6	0	18.76	18.81	18.67					
1.4	HQAM	1	0	17.90	17.90	17.88		19.5	1		
1.4	HQAM	1	3	17.75	17.84	17.86					
1.4	HQAM	1	5	17.79	17.78	17.73					
1.4	HQAM	3	0	18.69	18.81	18.75					
1.4	HQAM	3	1	18.72	18.78	18.72		18.5	2		
1.4	HQAM	3	1	18.72	18.78	18.72					
1.4	HQAM	3	1	18.67	18.81	18.72					
1.4	HQAM	6	0	18.81	18.81	18.67					
1.4	HQAM	1	0	18.77	18.78	18.75		18.5	2		
1.4	HQAM	1	3	18.75	18.78	18.75					
1.4	HQAM	1	5	18.83	18.77	18.67					
1.4	HQAM	3	0	18.75	18.83	18.75					
1.4	HQAM	3	1	18.75	18.83	18.75		17.5	3		
1.4	HQAM	3	1	18.75	18.83	18.75					
1.4	HQAM	3	3	18.74	18.80	18.78					
1.4	HQAM	6	0	18.83	18.88	18.78					



Band 2 ANT4 For Handheld											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F (MHz)	Power Mid Ch. F (MHz)	Power High Ch. F (MHz)	Time-up (sec) (dB)	APRS (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	18.09	18.15	18.03	19.5	0			
20	QPSK	1	40	18.02	18.08	18.00					
20	QPSK	1	80	18.01	18.12	18.06					
20	QPSK	50	0	18.02	18.13	17.91					
20	QPSK	50	24	18.07	18.05	17.79	18.5	1			
20	QPSK	50	50	17.99	18.07	17.74					
20	16QAM	100	0	17.92	17.97	17.72					
20	16QAM	1	0	18.09	18.15	18.03					
20	16QAM	1	40	18.06	18.08	17.98	18.5	1			
20	16QAM	1	80	18.05	18.05	17.97					
20	16QAM	50	0	18.09	17.71	18.78					
20	16QAM	50	24	17.93	17.94	18.74					
20	16QAM	50	50	17.68	17.99	18.75	17.5	2			
20	16QAM	100	0	18.91	18.99	18.75					
20	16QAM	1	0	18.91	18.91	18.72					
20	16QAM	1	40	18.97	18.97	18.86					
20	16QAM	1	80	18.99	18.98	18.73	17.5	2			
20	16QAM	50	0	18.91	18.92	18.83					
20	16QAM	50	24	18.91	18.93	18.83					
20	16QAM	50	50	18.98	18.95	18.92					
20	16QAM	100	0	18.98	18.98	18.78	18.5	3			
Channel											
Frequency (MHz)											
10	QPSK	1	0	17.98	18.02	17.91	19.5	0			
10	QPSK	1	37	17.95	18.02	17.93					
10	QPSK	1	74	17.98	18.01	17.91					
10	QPSK	36	0	18.98	17.91	18.71					
10	QPSK	36	20	18.96	18.96	18.68	18.5	1			
10	QPSK	36	36	18.94	18.95	18.70					
10	QPSK	75	0	18.95	18.97	18.85					
10	16QAM	1	0	18.97	17.93	18.92					
10	16QAM	1	37	18.93	17.98	18.91	18.5	1			
10	16QAM	1	74	18.94	17.98	18.90					
10	16QAM	36	0	18.97	18.99	18.72					
10	16QAM	36	20	15.91	15.97	15.86					
10	16QAM	36	36	15.99	15.97	15.71	17.5	2			
10	16QAM	75	0	15.91	15.95	15.86					
10	16QAM	75	0	15.93	15.92	15.86					
10	16QAM	1	0	15.93	15.95	15.86					
10	16QAM	1	37	15.91	15.98	15.79	17.5	2			
10	16QAM	1	74	15.77	15.79	15.80					
10	16QAM	36	0	14.98	15.00	14.70					
10	16QAM	36	20	14.95	14.96	14.73					
10	16QAM	36	36	14.99	15.00	14.71	18.5	3			
10	16QAM	75	0	14.98	15.04	14.70					
Channel											
Frequency (MHz)											
10	QPSK	1	0	17.97	18.04	17.90	19.5	0			
10	QPSK	1	25	17.95	18.01	17.91					
10	QPSK	1	49	17.98	17.98	17.91					
10	QPSK	25	0	18.95	18.98	18.71					
10	QPSK	25	12	18.96	18.98	18.87	18.5	1			
10	QPSK	25	25	18.94	18.97	18.71					
10	QPSK	50	0	18.93	18.87	18.84					
10	16QAM	1	0	18.95	17.94	18.90					
10	16QAM	1	25	18.95	17.93	18.93	18.5	1			
10	16QAM	1	49	18.95	18.99	18.87					
10	16QAM	25	0	15.98	15.98	15.71					
10	16QAM	25	12	15.93	15.93	15.99					
10	16QAM	25	25	15.96	16.00	15.71	17.5	2			
10	16QAM	50	0	15.94	15.98	15.83					
10	16QAM	1	0	15.83	15.85	15.81					
10	16QAM	1	25	15.82	15.83	15.83					
10	16QAM	1	49	15.78	15.82	15.81	17.5	2			
10	16QAM	25	0	14.98	15.05	14.72					
10	16QAM	25	12	14.95	14.98	14.75					
10	16QAM	25	25	14.98	14.98	14.74					
10	16QAM	50	0	14.95	15.00	14.88	18.5	3			
Channel											
Frequency (MHz)											
5	QPSK	1	0	17.98	18.02	17.92	19.5	0			
5	QPSK	1	12	17.94	18.02	17.91					
5	QPSK	1	24	17.93	18.00	17.88					
5	QPSK	12	0	18.96	17.93	18.71					
5	QPSK	12	13	18.97	18.98	18.88	18.5	1			
5	QPSK	25	0	18.86	18.86	18.86					
5	16QAM	1	0	18.86	17.81	18.83					
5	16QAM	1	12	18.86	17.82	18.82					
5	16QAM	1	24	18.86	18.97	18.86	18.5	1			
5	16QAM	12	0	18.86	18.97	18.71					
5	16QAM	12	7	18.94	18.99	18.86					
5	16QAM	12	13	18.97	18.99	18.70					
5	16QAM	25	0	18.85	18.86	18.87	17.5	2			
5	16QAM	1	0	15.83	15.81	15.78					
5	16QAM	1	12	15.79	15.83	15.80					
5	16QAM	1	24	15.82	15.82	15.82					
5	16QAM	12	0	15.84	15.89	15.80	17.5	2			
5	16QAM	12	7	14.95	14.97	14.71					
5	16QAM	12	13	14.98	15.00	14.70					
5	16QAM	25	0	14.95	15.00	14.89					
Channel											
Frequency (MHz)											
3	QPSK	1	0	17.97	18.01	17.90	19.5	0			
3	QPSK	1	8	17.90	17.98	17.88					
3	QPSK	1	14	17.94	18.01	17.89					
3	QPSK	8	0	18.97	17.81	18.74					
3	QPSK	8	4	18.98	18.98	18.87	18.5	1			
3	QPSK	8	7	18.95	18.98	18.89					
3	QPSK	15	0	18.85	18.87	18.83					
3	16QAM	1	0	18.87	17.83	18.81					
3	16QAM	1	8	18.90	17.81	18.82	18.5	1			
3	16QAM	1	14	18.95	18.98	18.86					
3	16QAM	8	0	15.97	16.00	15.73					
3	16QAM	8	4	15.94	15.99	15.88					
3	16QAM	8	7	15.97	15.99	15.72	17.5	2			
3	16QAM	15	0	15.85	15.86	15.86					
3	16QAM	1	0	15.82	15.83	15.82					
3	16QAM	1	8	15.81	15.83	15.80					
3	16QAM	1	14	15.80	15.79	15.81	17.5	2			
3	16QAM	8	0	14.97	15.00	14.70					
3	16QAM	8	4	14.98	14.98	14.73					
3	16QAM	8	7	15.00	14.97	14.74					
3	16QAM	15	0	14.98	15.04	14.89	18.5	3			
Channel											
Frequency (MHz)											
1.4	QPSK	1	0	17.98	18.01	17.91	19.5	0			
1.4	QPSK	1	3	17.98	18.01	17.91					
1.4	QPSK	1	5	17.93	18.01	17.86					
1.4	QPSK	3	0	17.98	17.99	17.72					
1.4	QPSK	3	1	17.95	17.98	17.88	18.5	1			
1.4	QPSK	3	3	17.93	17.98	17.88					
1.4	QPSK	8	0	18.96	18.98	18.88					
1.4	QPSK	8	0	18.98	17.94	18.90					
1.4	16QAM	1	3	18.93	17.82	18.95	18.5	1			
1.4	16QAM	1	5	18.93	18.98	18.88					
1.4	16QAM	3	0	18.95	18.98	18.72					
1.4	16QAM	3	1	18.93	18.99	18.86					
1.4	16QAM	3	3	18.95	17.80	18.71	17.5	2			
1.4	16QAM	8	0	15.83	15.86	15.83					
1.4	16QAM	1	0	15.82	15.84	15.82					
1.4	16QAM	1	3	15.78	15.84	15.81					
1.4	16QAM	1	5	15.80	15.80	15.82	17.5	2			
1.4	16QAM	3	0	15.97	15.98	15.71					
1.4	16QAM	3	1	15.97	15.99	15.71					
1.4	16QAM	3	3	16.00	16.0		17.5	2			
1.4	16QAM	6	0	14.96	15.01	14.71					
1.4	16QAM	6	0	14.96	15.01	14.71					

Band 7 Ant 4 For Hotspot ENDC									
RF (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq.)	Power Max Ch. (Freq.)	Power High Ch. (Freq.)	Tune-up (dBm)	MPM (dB)	
Channel									
Frequency (MHz)									
20650 21100 21550									
2010 2055 2095									
20	QPSK	1	0	15.08	15.20	15.21			
20	QPSK	1	40	15.10	15.21	15.26	18.5	0	
20	QPSK	1	80	15.20	15.26	15.29			
20	QPSK	50	0	15.18	15.22	15.20			
20	QPSK	50	24	15.11	15.19	15.21	18.5	0	
20	QPSK	50	50	15.08	15.14	15.03			
20	QPSK	100	0	15.11	15.16	15.09			
20	HQAM	1	0	15.07	15.27	15.19			
20	HQAM	1	40	15.11	15.28	15.26	18.5	0	
20	HQAM	1	80	15.20	15.27	15.23			
20	HQAM	50	0	15.17	15.22	15.16			
20	HQAM	50	24	15.18	15.15	15.18	18.5	0	
20	HQAM	50	50	15.08	15.13	14.99			
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	15.07	18.5	0	
20	HQAM	1	80	15.20	15.15	15.27			
20	HQAM	50	0	15.18	15.19	15.13			
20	HQAM	50	24	15.13	15.17	15.18	18.5	0	
20	HQAM	50	50	15.07	15.14	14.97			
20	HQAM	100	0	15.09	15.16	15.11			
Channel									
20650 21100 21575									
Frequency (MHz)									
20200 20650 20950									
15	QPSK	1	0	15.06	15.27	15.18			
15	QPSK	1	37	15.12	15.10	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	36	36	15.10	15.16	15.01			
15	QPSK	75	0	15.16	15.20	15.16			
15	HQAM	1	0	15.05	15.25	15.15			
15	HQAM	1	37	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	15.16			
15	HQAM	36	20	15.12	15.11	15.22	18.5	0	
15	HQAM	36	36	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	37	15.08	15.03	15.03	18.5	0	
15	HQAM	1	74	15.10	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	36	15.08	15.16	14.98			
15	HQAM	75	0	15.04	15.19	15.12			
Channel									
20650 21100 21400									
Frequency (MHz)									
20500 20950 20950									
10	QPSK	1	0	15.08	15.27	15.18			
10	QPSK	1	25	15.12	15.14	15.11	18.5	0	
10	QPSK	1	40	15.18	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	15.08	15.27	14.99			
10	QPSK	50	0	15.12	15.18	15.11			
10	HQAM	1	0	15.08	15.25	15.17			
10	HQAM	1	25	15.07	15.10	15.01	18.5	0	
10	HQAM	1	40	15.28	15.17	15.19			
10	HQAM	25	0	15.23	15.16	15.18			
10	HQAM	25	12	15.08	15.08	15.27	18.5	0	
10	HQAM	25	25	15.07	15.13	15.07			
10	HQAM	50	0	15.11	15.18	15.06			
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	15.23	15.20	18.5	0	
10	HQAM	25	25	15.11	15.14	15.21			
10	HQAM	50	0	15.04	15.23	15.07			
Channel									
20775 21100 21425									
Frequency (MHz)									
20320 20550 2067.5									
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	13	0	15.18	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	15.28	15.16	15.18			
5	HQAM	13	0	15.20	15.21	15.20			
5	HQAM	12	7	15.12	15.11	15.24	18.5	0	
5	HQAM	12	13	15.08	15.13	15.03			
5	HQAM	25	0	15.12	15.17	15.03			
5	HQAM	1	0	15.08	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	15.20			
5	HQAM	13	0	15.07	15.18	15.08			
5	HQAM	12	7	15.23	15.28	15.20	18.5	0	
5	HQAM	12	13	15.08	15.12	14.96			
5	HQAM	25	0	15.07	15.20	15.04			

Band 7 Ant 4 For Handheld									
RF (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq.)	Power Max Ch. (Freq.)	Power High Ch. (Freq.)	Tune-up (dBm)	MPM (dB)	
Channel									
Frequency (MHz)									
20650 21100 21550									
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	16.78	16.75	16.72			
20	QPSK	50	0	16.67	16.60	16.78			
20	QPSK	50	24	16.65	16.77	16.74	18	0	
20	QPSK	50	50	16.54	16.67	16.57			
20	QPSK	100	0	16.65	16.74	16.61			
20	HQAM	1	0	16.65	16.61	16.69			
20	HQAM	1	40	16.70	16.58	16.65	18	0	
20	HQAM	1	80	16.77	16.70	16.62			
20	HQAM	50	0	16.70	16.67	16.72			
20	HQAM	50	24	16.64	16.73	16.65	18	0	
20	HQAM	50	50	16.55	16.61	16.53			
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	16.58	16.62	18	0	
20	HQAM	1	80	16.74	16.73	16.70			
20	HQAM	50	0	16.65	16.75	16.67			
20	HQAM	50	24	16.68	16.73	16.75	18	0	
20	HQAM	50	50	16.55	16.61	16.44			
20	HQAM	100	0	16.64	16.63	16.68			
Channel									
20650 21100 21575									
Frequency (MHz)									
20500 20950 21000 21400									
15	QPSK	1	0	16.50	16.68	16.58			
15	QPSK	1	37	16.72	16.59	16.68	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	36	16.59	16.71	16.48			
15	QPSK	75	0	16.68	16.70	16.65			
15	HQAM	1	0	16.61	16.74	16.72			
15	HQAM	1	37	16.58	16.67	16.54	18	0	
15	HQAM	1	74	16.72	16.68	16.88			
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	36	16.52	16.63	16.58			
15	HQAM	75	0	16.58	16.65	16.54			
15	HQAM	1	0	16.63	16.68	16.64			
15	HQAM	1	37	16.68	16.57	16.36	18	0	
15	HQAM	1	74	16.65	16.65	16.89			
15	HQAM	36	0	16.71	16.77	16.84			
15	HQAM	36	20	16.65	16.70	16.76	18	0	
15	HQAM	36	36	16.55	16.65	16.43			
15	HQAM	75	0	16.62	16.68	16.55			
Channel									
20650 21100 21400									
Frequency (MHz)									
2050 2055 2095									
10	QPSK	1	0	16.54	16.70	16.64			
10	QPSK	1	25	16.60	16.61	16.62	18	0	
10	QPSK	1	49	16.67	16.68	16.69			
10	QPSK	25	0	16.59	16.70	16.63			
10	QPSK	25	12	16.72	16.68	16.65	18	0	
10	QPSK	25	25	16.51	16.67	16.48			
10	QPSK	50	0	16.65	16.62	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	49	16.76	16.63	16.76			
10	HQAM	25	0	16.72	16.73	16.76	18	0	
10	HQAM	25	12	16.63	16.68	16.78			
10	HQAM	25	25	16.58	16.72	16.53			
10	HQAM	50	0	16.67	16.72	16.64			
10	HQAM	1	0	16.61	16.74	16.72			
10	HQAM	1	25	16.62	16.55	16.64	18	0	
10	HQAM	1	49	16.64	16.63	16.70			
10	HQAM	25	0	16.73	16.74	16.76	18	0	
10	HQAM	25	12	16.75	16.69	16.68			
10	HQAM	25	25	16.57	16.62	16.52			
10	HQAM	50	0	16.56	16.78	16.63			
Channel									
20575 21100 21425									
Frequency (MHz)									
2050 2055 2095 2100									
5	QPSK	1	0	16.61	16.75	16.77			
5	QPSK	1	12	16.58	16.61	16.61	18	0	
5	QPSK	1	24	16.75	16.71	16.78			
5	QPSK	12	0	16.75	16.80	16.86			
5	QPSK	12	7	16.63	16.63	16.72	18	0	
5	QPSK	12	13	16.54	16.75	16.62			
5	QPSK	25	0	16.59	16.77	16.51			
5	HQAM	1	0	16.56	16.71	16.72			
5	HQAM	1	12	16.67	16.54	16.67	18	0	
5	HQAM	1	24	16.75	16.63	16.78			
5	HQAM	12	0	16.74	16.77	16.78			
5	HQAM	12	7	16.57	16.58	16.72	18	0	
5	HQAM	12	13	16.84	16.62	16.61			
5	HQAM	25	0	16.59	16.65	16.52			
5	HQAM	1	0	16.61	16.67	16.69			
5	HQAM	1	12	16.62	16.63	16.64	18	0	
5	HQAM	1	24	16.61	16.75	16.72			
5	HQAM	12	0	16.69	16.68	16.74	18	0	
5	HQAM	12	7	16.71	16.77	16.67			
5	HQAM	12	13	16.63	16.67	16.55			
5	HQAM	25	0	16.61	16.68	16.68			

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)				2506	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	15.05	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	14.65	14.55	14.67	14.45	14.44			
20	16QAM	1	49	14.63	14.53	14.65	14.39	14.40			
20	16QAM	1	99	14.06	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	13.50	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	41068	41515	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	15.57	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	14.46	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	15.46	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	14.36	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	41565	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2498.5	2545.8	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	15.56	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	14.38			
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)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	18.89	18.57	18.76	18.45	18.45		
20	QPSK	1	49	18.88	18.60	18.75	18.48	18.37	20	0
20	QPSK	1	99	18.63	18.51	18.78	18.43	18.43		
20	QPSK	50	0	17.44	17.55	17.63	17.39	17.51		
20	QPSK	50	24	17.48	17.60	17.55	17.33	17.36	19	1
20	QPSK	50	50	17.45	17.57	17.55	17.38	17.44		
20	QPSK	100	0	17.48	17.41	17.55	17.53	17.35		
20	16QAM	1	0	17.63	17.53	17.71	17.50	17.44	19	1
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		
20	16QAM	50	0	16.48	16.55	16.62	16.40	16.47	18	2
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		
20	16QAM	100	0	16.44	16.43	16.59	16.59	16.32	18	2
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		
20	64QAM	1	99	16.36	16.48	16.50	16.55	16.31	17	3
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		
20	64QAM	50	50	15.47	15.49	15.56	15.27	15.42	20	0
20	64QAM	100	0	15.37	15.45	15.45	15.46	15.38		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2502.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	18.88	18.51	18.70	18.35	18.33	20.00	0
15	QPSK	1	37	18.60	18.48	18.57	18.35	18.40		
15	QPSK	1	74	18.57	18.53	18.59	18.37	18.43		
15	QPSK	36	0	17.41	17.45	17.53	17.30	17.34	19	1
15	QPSK	36	20	17.32	17.46	17.46	17.23	17.40		
15	QPSK	36	39	17.43	17.42	17.54	17.22	17.35		
15	QPSK	75	0	17.35	17.38	17.48	17.51	17.21	19	1
15	16QAM	1	0	17.82	17.42	17.67	17.46	17.41		
15	16QAM	1	37	17.54	17.44	17.60	17.34	17.39		
15	16QAM	1	74	17.62	17.53	17.61	17.36	17.29	18	2
15	16QAM	36	0	16.31	16.48	16.48	16.34	16.47		
15	16QAM	36	20	16.42	16.47	16.48	16.30	16.38		
15	16QAM	36	39	16.45	16.56	16.53	16.26	16.37	18	2
15	16QAM	75	0	16.41	16.43	16.45	16.51	16.32		
15	64QAM	1	0	16.40	16.48	16.39	16.28	16.41		
15	64QAM	1	37	16.30	16.52	16.52	16.15	16.27	18	2
15	64QAM	1	74	16.36	16.36	16.42	16.46	16.23		
15	64QAM	36	0	15.33	15.45	15.41	15.47	15.31		
15	64QAM	36	20	15.29	15.37	15.47	15.24	15.35	17	3
15	64QAM	36	39	15.41	15.50	15.39	15.17	15.28		
15	64QAM	75	0	15.45	15.43	15.46	15.47	15.19		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	18.55	18.59	18.56	18.43	18.35		
10	QPSK	1	25	18.64	18.46	18.64	18.31	18.33	20	0
10	QPSK	1	49	18.57	18.55	18.54	18.34	18.28		
10	QPSK	25	0	17.33	17.42	17.47	17.25	17.43		
10	QPSK	25	12	17.32	17.42	17.53	17.32	17.33	19	1
10	QPSK	25	25	17.38	17.56	17.49	17.17	17.34		
10	QPSK	50	0	17.37	17.37	17.44	17.46	17.25		
10	16QAM	1	0	17.63	17.48	17.63	17.39	17.48	19	1
10	16QAM	1	25	17.54	17.46	17.60	17.37	17.39		
10	16QAM	1	49	17.60	17.51	17.62	17.40	17.41		
10	16QAM	25	0	16.37	16.43	16.44	16.27	16.44	18	2
10	16QAM	25	12	16.41	16.44	16.49	16.26	16.39		
10	16QAM	25	25	16.40	16.48	16.59	16.31	16.34		
10	16QAM	50	0	16.32	16.44	16.46	16.48	16.32	18	2
10	64QAM	1	0	16.41	16.39	16.38	16.24	16.37		
10	64QAM	1	25	16.39	16.42	16.48	16.28	16.27		
10	64QAM	1	49	16.42	16.30	16.37	16.45	16.25	17	3
10	64QAM	25	0	15.44	15.38	15.43	15.43	15.29		
10	64QAM	25	12	15.40	15.39	15.47	15.28	15.35		
10	64QAM	25	25	15.34	15.51	15.48	15.28	15.22	20	0
10	64QAM	50	0	15.34	15.42	15.46	15.49	15.26		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	18.69	18.52	18.67	18.41	18.38	20	0
5	QPSK	1	12	18.56	18.49	18.65	18.39	18.31		
5	QPSK	1	24	18.64	18.43	18.61	18.31	18.31		
5	QPSK	12	0	17.35	17.42	17.56	17.36	17.38	19	1
5	QPSK	12	7	17.36	17.54	17.54	17.19	17.41		
5	QPSK	12	13	17.42	17.48	17.48	17.24	17.39		
5	QPSK	25	0	17.36	17.39	17.49	17.49	17.17	19	1
5	16QAM	1	0	17.63	17.41	17.68	17.32	17.40		
5	16QAM	1	12	17.66	17.41	17.52	17.30	17.41		
5	16QAM	1	24	17.64	17.48	17.61	17.34	17.31	18	2
5	16QAM	12	0	16.34	16.47	16.43	16.34	16.47		
5	16QAM	12	7	16.31	16.55	16.54	16.21	16.30		
5	16QAM	12	13	16.33	16.52	16.51	16.31	16.38	18	2
5	16QAM	25	0	16.37	16.32	16.47	16.51	16.31		
5	64QAM	1	0	16.40	16.42	16.50	16.29	16.37		
5	64QAM	1	12	16.33	16.48	16.45	16.26	16.26	17	3
5	64QAM	1	24	16.31	16.37	16.46	16.43	16.30		
5	64QAM	12	0	15.33	15.38	15.51	15.39	15.34		
5	64QAM	12	7	15.28	15.41	15.47	15.25	15.28	19	0
5	64QAM	12	13	15.30	15.41	15.46	15.24	15.28		
5	64QAM	25	0	15.46	15.41	15.45	15.39	15.21		

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	UL		Mod	UL#		LTE	BW	DL	DL	With CA	Without CA
	Band			Freq (MHz)	Channel		RB	RB Offset					Tx Power (dBm)	Tx Power (dBm)
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	20525	QPSK	1	0	Band 2	20M	1960	900	23.10	23.14
CA_2A-7A	Band 5	4	10M	836.5	20525	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	20525	QPSK	1	0	Band 4	20M	2132.5	2175	23.10	23.14
	Band 5	4	10M	836.5	20525	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	20525	QPSK	1	0	Band 7	20M	2655	3100	23.10	23.14
	Band 5	4	10M	836.5	20525	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	20525	QPSK	1	0	Band 38	20M	2595	38000	23.04	23.14
CA_5A-66A	Band 5	4	10M	836.5	20525	QPSK	1	0	Band 38	20M	2595	38000	22.83	22.90
	Band 38	1	20M	2595	38000	QPSK	1	0	Band 5	10M	881.5	2525	22.78	22.86
CA_26A-41A	Band 5	0	10M	836.5	20525	QPSK	1	0	Band 41	20M	2593	40620	23.10	23.14
	Band 5	4	10M	836.5	20525	QPSK	1	0	Band 41	20M	2593	40620	22.76	22.90
CA_5A-66A	Band 41	1	20M	2593	40620	QPSK	1	0	Band 5	10M	881.5	2525	22.66	22.87
	Band 5	0	10M	836.5	20525	QPSK	1	0	Band 66	20M	2155	66898	23.10	23.14
CA_26A-41A	Band 5	4	10M	836.5	20525	QPSK	1	0	Band 66	20M	2155	66898	22.76	22.90
	Band 66	4	20M	1745	132322	QPSK	1	0	Band 5	10M	881.5	2525	22.85	22.77
CA_38C	Band 26	0	15M	831.5	26865	QPSK	1	0	Band 41	20M	2593	40620	22.84	22.96
	Band 26	4	15M	831.5	26865	QPSK	1	0	Band 41	20M	2593	40620	23.10	23.12
CA_7B	Band 41	1	20M	2593	40620	QPSK	1	0	Band 26	15M	876.5	8865	22.85	22.87
	Band 7	1	15M	2535	21100	QPSK	1	0	Band 7	5M	2664.3	3193	22.83	22.94
CA_66B	Band 38	1	20M	2585.1	37901	QPSK	1	0	Band 38	20M	2604.3	38098	22.67	22.86
	Band 66	4	15M	1745	132322	QPSK	1	0	Band 66	5M	2164.3	66979	22.86	22.72
CA_4A-4A	Band 66	4	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67094	22.85	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	2687.5	3425	22.78	22.98
	Band 41	1	20M	2593	40620	QPSK	1	0	Band 41	5M	2687.5	41565	22.86	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.	Channel		RB	RB	Band	(MHz)	Freq.	Channel	Band	(MHz)	Freq.	Channel	Tx. Power	Tx. Power
			(MHz)	(MHz)				Offset			(dBm)				(dBm)			
CA_2A-7C	Band 2	4	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.77	22.92
CA_4A-7C	Band 7	1	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	22.9	22.98
	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
CA_5A-7C	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
	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 7	1	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	20M	2155	66886	22.88	22.98
	Band 66	4	20M	1745	132322	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.67	22.77
CA_26A-41C	Band 26	0	15M	831.5	26865	QPSK	1	0	Band 41	20M	2593	40620	Band 41	20M	2612.8	2791	22.88	22.96
	Band 26	4	15M	831.5	26865	QPSK	1	0	Band 41	20M	2593	40620	Band 41	20M	2612.8	2791	23.05	23.12
	Band 41	1	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 26	15M	876.5	8865	22.67	22.87
CA_7A-66A-66A	Band 7	1	20M	2535	21100	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 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	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	22.97	22.99			
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	24.0	0.0	
20	QPSK	1	1	23.22	23.27	23.10			
20	QPSK	1	53	23.21	23.16	23.26			
20	QPSK	1	104	23.03	23.02	23.03	23.0	1.0	
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	23.0	1.0	
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				166300	167300	168300	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)				829	836.5	844			
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)				831.5	836.5	846.5			
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 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	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	24.0	0.0	
20	QPSK	1	1	23.37	23.55	23.17			
20	QPSK	1	53	23.37	23.48	23.41			
20	QPSK	1	104	23.17	23.30	23.17	23.0	1.0	
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	23.0	1.0	
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				500500	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 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	22.85	22.88	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	24.0	0.0	
20	QPSK	1	1	23.67	23.14	23.10			
20	QPSK	1	53	23.11	23.05	22.95			
20	QPSK	1	104	22.75	22.85	22.85	23.0	1.0	
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	21.86	21.96	21.78	23.0	1.0	
20	QPSK	100	0	21.78	21.95	21.90	23.0	1.0	
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	18.69	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				500500	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 Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000	24.0	0.0
Frequency (MHz)				1730	1745	1760		
40	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	22.35	22.36	24.0	0.0
40	PI2 BPSK	216	0	22.17	22.52	22.25	24.0	0.0
40	QPSK	1	1	22.57	22.71	22.44	24.0	0.0
40	QPSK	1	108	22.98	23.06	23.00		
40	QPSK	1	214	22.73	22.70	22.81		
40	QPSK	108	0	21.77	21.82	21.57	24.0	0.0
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	24.0	0.0
40	16QAM	1	1	21.12	21.17	21.33	24.0	0.0
40	64QAM	1	1	19.29	19.79	19.62	24.0	0.0
40	256QAM	1	1	18.14	18.34	18.13	24.0	0.0
Channel				345000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	24.0	0.0
20	QPSK	1	1	22.75	22.81	22.89		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0
15	QPSK	1	1	22.65	22.54	22.82		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	24.0	0.0
10	QPSK	1	1	22.91	22.85	22.81		
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0
5	QPSK	1	1	22.63	22.72	22.69		

n66 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				346000	349000	352000	24.0	0.0
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	22.80	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	22.45	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	24.0	0.0
40	QPSK	1	1	23.01	23.07	23.00		
40	QPSK	1	108	23.01	23.06	23.01		
40	QPSK	1	214	22.68	22.72	22.62	24.0	0.0
40	QPSK	108	0	21.75	21.82	21.52	23.0	1.0
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	24.0	0.0
40	16QAM	1	1	21.16	21.22	21.32		
40	64QAM	1	1	19.33	19.77	19.62		
40	256QAM	1	1	18.12	18.29	18.12	19.5	4.5
Channel				344000	348000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	24.0	0.0
20	PI2 BPSK	1	1	22.89	22.88	22.63		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0
15	PI2 BPSK	1	1	22.56	22.66	22.92		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	24.0	0.0
10	PI2 BPSK	1	1	22.89	22.88	22.63		
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0
5	PI2 BPSK	1	1	23.03	23.01	22.80		

n77 Ant 5 DFT-30									
BW [MHz]	Modulation	RF Size	RF Offset	Power Low Ch. [Freq.]	Power High Ch. [Freq.]	Power High Ch. [Freq.]	Power High Ch. [Freq.]	Time-up time (dBm)	MFR (dB)
Channel									
Frequency [MHz]									
100	P102 BPSK	1	1	23.12	23.12	23.12			
100	P102 BPSK	1	137	23.32	23.32	23.32		24.0	0.0
100	P102 BPSK	1	271	23.20	23.11	23.12			
100	P102 BPSK	135	5	22.89	22.78	22.67	22.5	0.5	
100	P102 BPSK	135	69	23.17	23.42	23.35	23.0	0.5	
100	P102 BPSK	135	133	22.67	22.71	22.69	22.5	0.5	
100	P102 BPSK	270	5	22.28	22.71	22.67			
100	QPSK	1	1	23.29	23.48	23.21			
100	QPSK	1	137	23.21	23.42	23.22	24.0	0.0	
100	QPSK	1	271	23.29	23.34	23.22			
100	QPSK	135	5	23.29	23.28	23.21	24.0	0.0	
100	QPSK	135	69	23.37	23.35	23.22	23.0	0.5	
100	QPSK	135	133	22.34	22.32	22.22	23.0	1.0	
100	QPSK	270	5	22.21	22.28	22.21			
100	16QAM	1	1	21.43	21.28	21.20	22.0	2.0	
100	16QAM	1	1	20.29	20.78	20.77	21.5	2.5	
100	256QAM	1	1	19.01	18.88	18.00	19.5	4.5	
Channel									
Frequency [MHz]									
40	QPSK	1	1	23.34	23.33	23.33	24.0	0.0	
Channel									
Frequency [MHz]									
80	QPSK	1	1	23.29	23.21	23.20	24.0	0.0	
Channel									
Frequency [MHz]									
80	QPSK	1	1	23.22	23.21	23.24	24.0	0.0	
Channel									
Frequency [MHz]									
50	QPSK	1	1	23.21	23.34	23.42	24.0	0.0	
Channel									
Frequency [MHz]									
50	QPSK	1	1	23.22	23.30	23.22	24.0	0.0	
Channel									
Frequency [MHz]									
20	QPSK	1	1	23.11	23.30	23.42	23.0	0.0	
Channel									
Frequency [MHz]									
10	QPSK	1	1	23.11	23.21	23.42	23.0	0.0	
Channel									
Frequency [MHz]									
10	QPSK	1	1	23.41	23.20	23.22	23.0	0.0	

n77 Ant 5 DFT-15									
BW [MHz]	Modulation	RF Size	RF Offset	Power Low Ch. [Freq.]	Power High Ch. [Freq.]	Power High Ch. [Freq.]	Power High Ch. [Freq.]	Time-up time (dBm)	MFR (dB)
Channel									
Frequency [MHz]									
50	P102 BPSK	1	1	23.07	23.16	23.18			
50	P102 BPSK	1	135	23.18	23.28	23.18	24.0	0.0	
50	P102 BPSK	1	268	23.18	23.09	23.09			
50	P102 BPSK	135	5	22.68	22.73	22.62	22.5	0.5	
50	P102 BPSK	135	68	23.08	23.42	23.30	24.0	0.5	
50	P102 BPSK	135	130	22.66	22.69	22.62	22.5	0.5	
50	P102 BPSK	269	5	22.53	22.69	22.69			
50	QPSK	1	1	23.18	23.45	23.18			
50	QPSK	1	135	23.18	23.38	23.18	24.0	0.0	
50	QPSK	1	268	23.18	23.22	23.18			
50	QPSK	135	5	23.18	23.24	23.18	23.0	1.0	
50	QPSK	135	68	23.28	23.27	23.15	23.0	0.5	
50	QPSK	135	130	22.32	22.32	22.22	22.0	1.0	
50	QPSK	269	5	22.28	22.25	22.22			
50	16QAM	1	1	21.41	21.27	21.16	22.0	1.0	
50	16QAM	1	1	20.27	20.72	20.72	21.5	2.5	
50	256QAM	1	1	18.96	18.83	18.07	19.5	4.5	
Channel									
Frequency [MHz]									
40	QPSK	1	1	23.08	23.10	23.28	24.0	0.5	
Channel									
Frequency [MHz]									
30	QPSK	1	1	23.08	23.10	23.28	24.0	0.5	
Channel									
Frequency [MHz]									
15	QPSK	1	1	23.09	23.10	23.29	24.0	0.5	
Channel									
Frequency [MHz]									
10	QPSK	1	1	23.09	23.10	23.28	24.0	0.5	

Par27Q n77_FCC DFT-30									
BW [MHz]	Modulation	RF Size	RF Offset	Power Low Ch. [Freq.]	Power High Ch. [Freq.]	Power High Ch. [Freq.]	Power High Ch. [Freq.]	Time-up time (dBm)	MFR (dB)
Channel									
Frequency [MHz]									
100	P102 BPSK	1	1						
100	P102 BPSK	1	137				24.0	0.0	
100	P102 BPSK	1	271						
100	P102 BPSK	135	5				22.5	0.5	
100	P102 BPSK	135	69				24.0	0.5	
100	P102 BPSK	135	133				22.48	0.5	
100	P102 BPSK	270	5				22.47		
100	QPSK	1	1						
100	QPSK	1	137				24.0	0.0	
100	QPSK	1	271						
100	QPSK	135	5				23.0	0.5	
100	QPSK	135	69				23.0	0.5	
100	QPSK	135	133				22.05	1.0	
100	QPSK	270	5				22.05		
100	16QAM	1	1				20.85	2.0	
100	16QAM	1	1				20.40	2.5	
100	256QAM	1	1				18.65	4.5	
Channel									
Frequency [MHz]									
50	QPSK	1	1	23.05	23.08	23.28	24.0	0.5	
Channel									
Frequency [MHz]									
30	QPSK	1	1	23.08	23.10	23.28	24.0	0.5	
Channel									
Frequency [MHz]									
15	QPSK	1	1	23.09	23.10	23.29	24.0	0.5	
Channel									
Frequency [MHz]									
10	QPSK	1	1	23.07	23.10	23.28	24.0	0.5	
Channel									
Frequency [MHz]									
50	QPSK	1	1	22.78	23.08	23.28	24.0	0.5	
Channel									
Frequency [MHz]									
40	QPSK	1	1	22.78	23.08	23.28	24.0	0.5	
Channel									
Frequency [MHz]									
30	QPSK	1	1	22.78	23.08	23.28	24.0	0.5	
Channel									
Frequency [MHz]									
20	QPSK	1	1	22.78	23.08	23.28	24.0	0.5	
Channel									
Frequency [MHz]									
10	QPSK	1	1	22.78	23.07	23.28	24.0	0.5	
Channel									
Frequency [MHz]									
10	QPSK	1	1	22.78	23.08	23.25	24.0	0.5	

Par27Q n77 Ant 5 DFT-15						
SV [MHz]	Modulation	RB Size	RB Offset	Power Line Ch. Freq. [dBm]	Power Antenna Ch. Freq. [dBm]	Power Tgt. Ch. Freq. [dBm]
Channel						
Frequency (MHz)						
30	PI2 BPSK	1	1	23.14	23.15	23.15
30	PI2 BPSK	1	135	23.13	23.24	23.14
30	PI2 BPSK	1	264	23.16	23.08	23.07
30	PI2 BPSK	135	0	22.82	22.79	22.80
30	PI2 BPSK	135	66	23.07	23.15	23.09
30	PI2 BPSK	135	135	22.82	22.85	22.81
30	PI2 BPSK	270	0	22.66	22.69	22.67
30	QPSK	1	1	23.15	23.43	23.12
30	QPSK	1	135	23.13	23.24	23.11
30	QPSK	1	264	23.16	23.27	23.17
30	QPSK	135	0	23.16	23.24	23.13
30	QPSK	135	66	23.08	23.28	23.15
30	QPSK	135	135	22.82	22.28	22.32
30	QPSK	270	0	22.77	22.26	22.25
30	16QAM	1	1	21.37	21.82	21.13
30	16QAM	1	1	20.83	20.71	20.12
30	256QAM	1	1	18.92	18.82	18.35
Channel						
Frequency (MHz)						
40	QPSK	1	1	23.06	23.39	23.28
Channel						
Frequency (MHz)						
30	QPSK	1	1	23.06	23.39	23.36
Channel						
Frequency (MHz)						
15	QPSK	1	1	23.04	23.39	23.31
Channel						
Frequency (MHz)						
10	QPSK	1	1	23.13	23.39	23.29

n77 Ant 5 HPUE DFT-30						
SV [MHz]	Modulation	RB Size	RB Offset	Power Line Ch. Freq. [dBm]	Power Antenna Ch. Freq. [dBm]	Power Tgt. Ch. Freq. [dBm]
Channel						
Frequency (MHz)						
100	PI2 BPSK	1	1	26.21	26.15	26.12
100	PI2 BPSK	1	137	26.02	26.12	26.23
100	PI2 BPSK	1	271	26.12	26.25	26.12
100	PI2 BPSK	133	0	26.39	26.10	26.11
100	PI2 BPSK	133	66	26.24	26.16	26.23
100	PI2 BPSK	133	138	26.01	26.04	26.31
100	PI2 BPSK	270	0	25.95	26.10	26.04
100	QPSK	1	1	26.12	26.46	26.13
100	QPSK	1	137	26.04	26.12	26.31
100	QPSK	1	271	26.13	26.25	26.23
100	QPSK	133	0	26.26	26.24	26.24
100	QPSK	133	66	26.23	26.24	26.13
100	QPSK	133	138	26.45	26.41	26.32
100	QPSK	270	0	26.21	26.25	26.41
100	16QAM	1	1	24.23	24.34	24.21
100	16QAM	1	1	22.06	22.46	22.87
100	256QAM	1	1	21.90	21.88	21.55
Channel						
Frequency (MHz)						
30	QPSK	1	1	26.41	26.36	26.22
Channel						
Frequency (MHz)						
30	QPSK	1	1	26.23	26.12	26.36
Channel						
Frequency (MHz)						
60	QPSK	1	1	26.23	26.22	26.14
Channel						
Frequency (MHz)						
30	QPSK	1	1	26.23	26.23	26.21
Channel						
Frequency (MHz)						
40	QPSK	1	1	26.21	26.14	26.22
Channel						
Frequency (MHz)						
20	QPSK	1	1	26.23	26.30	27.02
Channel						
Frequency (MHz)						
15	QPSK	1	1	26.23	26.24	26.13
Channel						
Frequency (MHz)						
10	QPSK	1	1	26.11	26.23	26.32

n77 Ant 5 HPUE DFT-15						
SV [MHz]	Modulation	RB Size	RB Offset	Power Line Ch. Freq. [dBm]	Power Antenna Ch. Freq. [dBm]	Power Tgt. Ch. Freq. [dBm]
Channel						
Frequency (MHz)						
30	PI2 BPSK	1	1	26.15	26.15	26.15
30	PI2 BPSK	1	135	25.99	26.09	26.18
30	PI2 BPSK	1	268	26.09	26.18	26.15
30	PI2 BPSK	135	0	25.97	26.09	26.08
30	PI2 BPSK	135	66	26.10	26.11	26.18
30	PI2 BPSK	135	135	25.98	26.00	26.29
30	PI2 BPSK	270	0	25.81	26.01	26.00
30	QPSK	1	1	26.09	26.41	26.08
30	QPSK	1	135	25.99	26.09	26.21
30	QPSK	1	268	26.10	26.13	26.21
30	QPSK	135	0	26.08	26.29	26.46
30	QPSK	135	66	26.20	26.25	26.08
30	QPSK	135	135	26.42	26.37	26.30
30	QPSK	270	0	26.27	26.35	26.36
30	16QAM	1	1	24.22	24.22	24.29
30	16QAM	1	1	22.44	22.81	22.84
30	256QAM	1	1	21.52	21.68	21.53
Channel						
Frequency (MHz)						
40	QPSK	1	1	26.12	26.49	26.13
Channel						
Frequency (MHz)						
30	QPSK	1	1	26.32	26.23	26.16
Channel						
Frequency (MHz)						
15	QPSK	1	1	26.30	26.29	26.21
Channel						
Frequency (MHz)						
10	QPSK	1	1	26.32	26.31	26.19

Par27Q n77_FCC HPUE DFT-30							
SV [MHz]	Modulation	RB Size	RB Offset	Power Line Ch. F (Watt)	Power Minus Ch. F (Watt)	Power High Ch. F (Watt)	Time-up time (dBm)
Channel							
Frequency (MHz)							
100	PSS BPSK	1	1	25.00			
100	PSS BPSK	1	137	25.00			
100	PSS BPSK	1	271	25.00			27.0
100	PSS BPSK	135	0	25.00			25.0
100	PSS BPSK	135	66	25.00			27.0
100	PSS BPSK	135	136	25.00			25.0
100	PSS BPSK	270	0	25.00			27.0
100	QPSK	1	1	25.00			
100	QPSK	1	137	25.00			
100	QPSK	1	271	25.00			27.0
100	QPSK	135	0	25.00			25.0
100	QPSK	135	66	25.00			27.0
100	QPSK	135	136	25.00			25.0
100	QPSK	270	0	25.00			27.0
100	16QAM	1	1	24.20			25.0
100	16QAM	1	1	24.20			24.5
100	256QAM	1	1	21.00			22.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.00	25.00	25.00	27.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.00	25.00	25.00	27.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	25.00	25.00	25.00	27.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	25.00	25.00	25.00	27.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.00	25.00	25.00	27.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	25.00	25.00	25.00	27.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.00	25.00	25.00	27.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	25.00	25.00	25.00	27.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.00	25.00	25.00	27.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	25.00	25.00	25.00	27.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	25.00	25.00	25.00	27.0

Par27Q n77 Ant 5 HPUE DFT-15							
SV [MHz]	Modulation	RB Size	RB Offset	Power Line Ch. F (Watt)	Power Minus Ch. F (Watt)	Power High Ch. F (Watt)	Time-up time (dBm)
Channel							
Frequency (MHz)							
50	PSS BPSK	1	1	25.00	25.00	25.00	
50	PSS BPSK	1	136	25.00	25.00	25.00	27.0
50	PSS BPSK	1	268	25.00	25.00	25.00	
50	PSS BPSK	135	0	25.00	25.00	25.00	27.0
50	PSS BPSK	135	66	25.00	25.00	25.00	27.0
50	PSS BPSK	135	136	25.00	25.00	25.00	27.0
50	PSS BPSK	270	0	25.00	25.00	25.00	
50	QPSK	1	1	25.00	25.00	25.00	
50	QPSK	1	136	25.00	25.00	25.00	27.0
50	QPSK	1	268	25.00	25.00	25.00	
50	QPSK	135	0	25.00	25.00	25.00	27.0
50	QPSK	135	66	25.00	25.00	25.00	27.0
50	QPSK	135	136	25.00	25.00	25.00	27.0
50	QPSK	270	0	25.00	25.00	25.00	
50	16QAM	1	1	24.20	24.20	24.20	27.0
50	16QAM	1	1	24.20	24.20	24.20	27.0
50	256QAM	1	1	21.40	21.40	21.40	27.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	25.00	25.00	25.00	27.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.00	25.00	25.00	27.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	25.00	25.00	25.00	27.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	25.00	25.00	25.00	27.0

n78 Ant 5 DFT-30							
SV [MHz]	Modulation	RB Size	RB Offset	Power Line Ch. F (Watt)	Power Minus Ch. F (Watt)	Power High Ch. F (Watt)	Time-up time (dBm)
Channel							
Frequency (MHz)							
100	PSS BPSK	1	1	25.00			
100	PSS BPSK	1	137	25.00			24.0
100	PSS BPSK	1	271	25.00			23.0
100	PSS BPSK	135	0	25.00			23.0
100	PSS BPSK	135	66	25.00			24.0
100	PSS BPSK	135	136	25.00			23.0
100	PSS BPSK	270	0	25.00			23.0
100	QPSK	1	1	25.00			
100	QPSK	1	137	25.00			24.0
100	QPSK	1	271	25.00			23.0
100	QPSK	135	0	25.00			23.0
100	QPSK	135	66	25.00			24.0
100	QPSK	135	136	25.00			23.0
100	QPSK	270	0	25.00			23.0
100	16QAM	1	1	24.20			23.0
100	16QAM	1	1	24.20			23.0
100	256QAM	1	1	21.00			23.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.00	25.00	25.00	27.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.00	25.00	25.00	27.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	25.00	25.00	25.00	27.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	25.00	25.00	25.00	27.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.00	25.00	25.00	27.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	25.00	25.00	25.00	27.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.00	25.00	25.00	27.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	25.00	25.00	25.00	27.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.00	25.00	25.00	27.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	25.00	25.00	25.00	27.0

n78 Ant 5 DFT-15								
RF [MHz]	Modulation	RF Size	RF Offset	Power Low Ch./Freq. [dBm]	Power Mid Ch./Freq. [dBm]	Power High Ch./Freq. [dBm]	Time-up time [dBm]	MFR [dB]
Channel								
Frequency [MHz]								
30	PSSBPSK	1	1	23.15	23.15	23.15		
30	PSSBPSK	1	137	23.17	23.17	23.17	24.0	0.0
30	PSSBPSK	1	248	23.06	23.06	23.06		
30	PSSBPSK	135	0	23.19	23.19	23.19	23.5	0.5
30	PSSBPSK	135	66	23.31	23.31	23.31	24.0	0.5
30	PSSBPSK	135	130	23.10	23.22	23.20	23.5	0.5
30	PSSBPSK	219	0	23.28	23.17	23.09		
30	QPSK	1	1	23.08	23.41	23.18		
30	QPSK	1	137	23.06	23.39	23.09	24.0	0.0
30	QPSK	1	248	23.13	23.19	23.09		
30	QPSK	135	0	23.09	23.28	23.18	23.0	1.0
30	QPSK	135	66	23.19	23.41	23.31	23.0	0.5
30	QPSK	135	130	23.17	23.27	23.08	23.0	1.0
30	QPSK	219	0	23.11	23.26	23.17		
30	16QAM	1	1	22.33	22.35	22.20	23.0	1.0
30	16QAM	1	1	22.32	22.33	22.18	23.5	2.5
30	256QAM	1	1	21.43	21.47	21.20	19.5	4.5
Channel								
Frequency [MHz]								
40	QPSK	1	1	23.09	23.20	23.10	24.0	0.5
Channel								
Frequency [MHz]								
30	QPSK	1	1	23.08	23.35	23.18	24.0	0.0
Channel								
Frequency [MHz]								
15	QPSK	1	1	23.08	23.29	23.17	24.0	0.0
Channel								
Frequency [MHz]								
10	QPSK	1	1	23.09	23.33	23.15	24.0	0.0

Part2Q n78 Ant 5 DFT-30								
RF [MHz]	Modulation	RF Size	RF Offset	Power Low Ch./Freq. [dBm]	Power Mid Ch./Freq. [dBm]	Power High Ch./Freq. [dBm]	Time-up time [dBm]	MFR [dB]
Channel								
Frequency [MHz]								
100	PSSBPSK	1	1	23.01	23.01	23.01		
100	PSSBPSK	1	137	23.00	23.00	23.00	24.0	0.0
100	PSSBPSK	1	271	23.02	23.02	23.02		
100	PSSBPSK	135	0	23.03	23.03	23.03	23.5	0.5
100	PSSBPSK	135	66	23.25	23.25	23.25	24.0	0.5
100	PSSBPSK	135	130	23.10	23.12	23.12	23.5	0.5
100	PSSBPSK	219	0	23.28	23.17	23.09		
100	QPSK	1	1	23.10	23.33	23.18		
100	QPSK	1	137	23.10	23.39	23.18	24.0	0.0
100	QPSK	1	271	23.13	23.19	23.09		
100	QPSK	135	0	23.10	23.28	23.18	23.0	1.0
100	QPSK	135	66	23.31	23.41	23.31	23.0	0.5
100	QPSK	135	130	23.15	23.27	23.08	23.0	1.0
100	QPSK	219	0	23.11	23.26	23.17		
100	16QAM	1	1	22.40	22.40	22.20	23.0	1.0
100	256QAM	1	1	21.40	21.43	21.15	19.5	4.5
Channel								
Frequency [MHz]								
30	QPSK	1	1	22.97	23.18	22.96	24.0	0.0
Channel								
Frequency [MHz]								
30	QPSK	1	1	22.98	23.20	22.92	24.0	0.0
Channel								
Frequency [MHz]								
70	QPSK	1	1	22.98	23.23	22.94	24.0	0.0
Channel								
Frequency [MHz]								
60	QPSK	1	1	22.90	23.24	22.93	24.0	0.0
Channel								
Frequency [MHz]								
30	QPSK	1	1	22.90	23.20	22.92	24.0	0.0
Channel								
Frequency [MHz]								
40	QPSK	1	1	22.98	23.26	22.93	24.0	0.0
Channel								
Frequency [MHz]								
30	QPSK	1	1	22.98	23.19	22.93	24.0	0.0
Channel								
Frequency [MHz]								
20	QPSK	1	1	22.98	23.21	22.95	24.0	0.0
Channel								
Frequency [MHz]								
20	QPSK	1	1	22.98	23.21	22.98	24.0	0.0
Channel								
Frequency [MHz]								
15	QPSK	1	1	22.98	23.21	22.91	24.0	0.0
Channel								
Frequency [MHz]								
10	QPSK	1	1	22.97	23.24	22.95	24.0	0.0

Part2Q n78 Ant 5 DFT-15								
RF [MHz]	Modulation	RF Size	RF Offset	Power Low Ch./Freq. [dBm]	Power Mid Ch./Freq. [dBm]	Power High Ch./Freq. [dBm]	Time-up time [dBm]	MFR [dB]
Channel								
Frequency [MHz]								
30	PSSBPSK	1	1	23.15	23.15	23.15		
30	PSSBPSK	1	137	23.14	23.17	23.15	24.0	0.0
30	PSSBPSK	1	247	23.01	23.02	23.18		
30	PSSBPSK	135	0	23.17	23.10	23.10	23.5	0.5
30	PSSBPSK	135	66	23.30	23.31	23.09	24.0	0.5
30	PSSBPSK	135	130	23.08	23.20	23.10	23.5	0.5
30	PSSBPSK	219	0	23.20	23.13	23.03		
30	QPSK	1	1	23.06	23.39	23.17		
30	QPSK	1	137	23.04	23.21	23.06	24.0	0.0
30	QPSK	1	271	23.09	23.13	23.08		
30	QPSK	135	0	23.07	23.27	23.10	23.0	1.0
30	QPSK	135	66	23.14	23.39	23.17	23.0	0.5
30	QPSK	135	130	23.13	23.24	23.03	23.0	1.0
30	QPSK	219	0	23.05	23.21	23.10		
30	16QAM	1	1	22.31	22.31	22.16	23.0	1.0
30	16QAM	1	1	22.28	22.28	22.10	23.5	2.5
30	256QAM	1	1	21.41	21.43	21.10	19.5	4.5
Channel								
Frequency [MHz]								
40	QPSK	1	1	23.09	23.12	23.10	24.0	0.0
Channel								
Frequency [MHz]								
30	QPSK	1	1	23.05	23.20	23.07	24.0	0.0
Channel								
Frequency [MHz]								
15	QPSK	1	1	23.00	23.26	23.00	24.0	0.0
Channel								
Frequency [MHz]								
10	QPSK	1	1	23.00	23.26	23.10	24.0	0.0

n78 Ant 5 HPUE DFT-30						
RF [MHz]	Modulation	RB Size	RB Offset	Power Line Ch./Freq. MHz	Power Min/Max Ch./Freq. MHz	Power Avg. Ch./Freq. MHz
Channel						
500	Frequency BPSK	1	1	25.26		
500	PFC BPSK	1	137	25.58		
500	PFC BPSK	1	271	25.29		
500	PFC BPSK	135	0	25.41		
500	PFC BPSK	135	66	25.51		
500	PFC BPSK	135	136	25.48		
500	PFC BPSK	270	0	25.47		
500	QPSK	1	1	25.78		
500	QPSK	1	137	25.68		
500	QPSK	1	271	25.27		
500	QPSK	135	0	25.37		
500	QPSK	135	66	25.68		
500	QPSK	135	136	25.54		
500	QPSK	270	0	25.65		
500	16QAM	1	1	24.84		
500	16QAM	1	1	25.26		
500	256QAM	1	1	21.87		
Channel <td data-kind="ghost"></td> <td data-kind="ghost"></td> <td data-kind="ghost"></td> <td data-kind="ghost"></td> <td data-kind="ghost"></td> <td data-kind="ghost"></td>						
50	Frequency BPSK	1	1	25.00	25.00	25.00
50	QPSK	1	1	25.00	25.00	25.00
50	QPSK	1	1	25.36	25.36	25.36
50	QPSK	1	1	25.72	25.72	25.72
50	QPSK	1	1	26.08	26.08	26.08
50	QPSK	1	1	26.44	26.44	26.44
50	QPSK	1	1	26.80	26.80	26.80
50	QPSK	1	1	27.16	27.16	27.16
50	QPSK	1	1	27.52	27.52	27.52
50	QPSK	1	1	27.88	27.88	27.88
50	QPSK	1	1	28.24	28.24	28.24
50	QPSK	1	1	28.60	28.60	28.60
50	QPSK	1	1	28.96	28.96	28.96
50	QPSK	1	1	29.32	29.32	29.32
50	QPSK	1	1	29.68	29.68	29.68
50	QPSK	1	1	30.04	30.04	30.04
50	QPSK	1	1	30.40	30.40	30.40
50	QPSK	1	1	30.76	30.76	30.76
50	QPSK	1	1	31.12	31.12	31.12
50	QPSK	1	1	31.48	31.48	31.48
50	QPSK	1	1	31.84	31.84	31.84
50	QPSK	1	1	32.20	32.20	32.20
50	QPSK	1	1	32.56	32.56	32.56
50	QPSK	1	1	32.92	32.92	32.92
50	QPSK	1	1	33.28	33.28	33.28
50	QPSK	1	1	33.64	33.64	33.64
50	QPSK	1	1	34.00	34.00	34.00
50	QPSK	1	1	34.36	34.36	34.36
50	QPSK	1	1	34.72	34.72	34.72
50	QPSK	1	1	35.08	35.08	35.08
50	QPSK	1	1	35.44	35.44	35.44
50	QPSK	1	1	35.80	35.80	35.80
50	QPSK	1	1	36.16	36.16	36.16
50	QPSK	1	1	36.52	36.52	36.52
50	QPSK	1	1	36.88	36.88	36.88
50	QPSK	1	1	37.24	37.24	37.24
50	QPSK	1	1	37.60	37.60	37.60
50	QPSK	1	1	37.96	37.96	37.96
50	QPSK	1	1	38.32	38.32	38.32
50	QPSK	1	1	38.68	38.68	38.68
50	QPSK	1	1	39.04	39.04	39.04
50	QPSK	1	1	39.40	39.40	39.40
50	QPSK	1	1	39.76	39.76	39.76
50	QPSK	1	1	40.12	40.12	40.12
50	QPSK	1	1	40.48	40.48	40.48
50	QPSK	1	1	40.84	40.84	40.84
50	QPSK	1	1	41.20	41.20	41.20
50	QPSK	1	1	41.56	41.56	41.56
50	QPSK	1	1	41.92	41.92	41.92
50	QPSK	1	1	42.28	42.28	42.28
50	QPSK	1	1	42.64	42.64	42.64
50	QPSK	1	1	43.00	43.00	43.00
50	QPSK	1	1	43.36	43.36	43.36
50	QPSK	1	1	43.72	43.72	43.72
50	QPSK	1	1	44.08	44.08	44.08
50	QPSK	1	1	44.44	44.44	44.44
50	QPSK	1	1	44.80	44.80	44.80
50	QPSK	1	1	45.16	45.16	45.16
50	QPSK	1	1	45.52	45.52	45.52
50	QPSK	1	1	45.88	45.88	45.88
50	QPSK	1	1	46.24	46.24	46.24
50	QPSK	1	1	46.60	46.60	46.60
50	QPSK	1	1	46.96	46.96	46.96
50	QPSK	1	1	47.32	47.32	47.32
50	QPSK	1	1	47.68	47.68	47.68
50	QPSK	1	1	48.04	48.04	48.04
50	QPSK	1	1	48.40	48.40	48.40
50	QPSK	1	1	48.76	48.76	48.76
50	QPSK	1	1	49.12	49.12	49.12
50	QPSK	1	1	49.48	49.48	49.48
50	QPSK	1	1	49.84	49.84	49.84
50	QPSK	1	1	50.20	50.20	50.20
50	QPSK	1	1	50.56	50.56	50.56
50	QPSK	1	1	50.92	50.92	50.92
50	QPSK	1	1	51.28	51.28	51.28
50	QPSK	1	1	51.64	51.64	51.64
50	QPSK	1	1	52.00	52.00	52.00
50	QPSK	1	1	52.36	52.36	52.36
50	QPSK	1	1	52.72	52.72	52.72
50	QPSK	1	1	53.08	53.08	53.08
50	QPSK	1	1	53.44	53.44	53.44
50	QPSK	1	1	53.80	53.80	53.80
50	QPSK	1	1	54.16	54.16	54.16
50	QPSK	1	1	54.52	54.52	54.52
50	QPSK	1	1	54.88	54.88	54.88
50	QPSK	1	1	55.24	55.24	55.24
50	QPSK	1	1	55.60	55.60	55.60
50	QPSK	1	1	55.96	55.96	55.96
50	QPSK	1	1	56.32	56.32	56.32
50	QPSK	1	1	56.68	56.68	56.68
50	QPSK	1	1	57.04	57.04	57.04
50	QPSK	1	1	57.40	57.40	57.40
50	QPSK	1	1	57.76	57.76	57.76
50	QPSK	1	1	58.12	58.12	58.12
50	QPSK	1	1	58.48	58.48	58.48
50	QPSK	1	1	58.84	58.84	58.84
50	QPSK	1	1	59.20	59.20	59.20
50	QPSK	1	1	59.56	59.56	59.56
50	QPSK	1	1	59.92	59.92	59.92
50	QPSK	1	1	60.28	60.28	60.28
50	QPSK	1	1	60.64	60.64	60.64
50	QPSK	1	1	61.00	61.00	61.00
50	QPSK	1	1	61.36	61.36	61.36
50	QPSK	1	1	61.72	61.72	61.72
50	QPSK	1	1	62.08	62.08	62.08
50	QPSK	1	1	62.44	62.44	62.44
50	QPSK	1	1	62.80	62.80	62.80
50	QPSK	1	1	63.16	63.16	63.16
50	QPSK	1	1	63.52	63.52	63.52
50	QPSK	1	1	63.88	63.88	63.88
50	QPSK	1	1	64.24	64.24	64.24
50	QPSK	1	1	64.60	64.60	64.60
50	QPSK	1	1	64.96	64.96	64.96
50	QPSK	1	1	65.32	65.32	65.32
50	QPSK	1	1	65.68	65.68	65.68
50	QPSK	1	1	66.04	66.04	66.04
50	QPSK	1	1	66.40	66.40	66.40
50	QPSK	1	1	66.76	66.76	66.76
50	QPSK	1	1	67.12	67.12	67.12
50	QPSK	1	1	67.48	67.48	67.48
50	QPSK	1	1	67.84	67.84	67.84
50	QPSK	1	1	68.20	68.20	68.20
50	QPSK	1	1	68.56	68.56	68.56
50	QPSK	1	1	68.92	68.92	68.92
50	QPSK	1	1	69.28	69.28	69.28
50	QPSK	1	1	69.64	69.64	69.64
50	QPSK	1	1	70.00	70.00	70.00
50	QPSK	1	1	70.36	70.36	70.36
50	QPSK	1	1	70.72	70.72	70.72
50	QPSK	1	1	71.08	71.08	71.08
50	QPSK	1	1	71.44	71.44	71.44
50	QPSK	1	1	71.80	71.80	71.80
50	QPSK	1	1	72.16	72.16	72.16
50	QPSK	1	1	72.52	72.52	72.52
50	QPSK	1	1	72.88	72.88	72.88
50	QPSK	1	1	73.24	73.24	73.24
50	QPSK	1	1	73.60	73.60	73.60
50	QPSK	1	1	73.96	73.96	73.96
50	QPSK	1	1	74.32	74.32	74.32
50	QPSK	1	1	74.68	74.68	74.68
50	QPSK	1	1	75.04	75.04	75.04
50	QPSK	1	1	75.40	75.40	75.40
50	QPSK	1	1	75.76	75.76	75.76
50	QPSK	1	1	76.12	76.12	76.12
50	QPSK	1	1	76.48	76.48	76.48
50	QPSK	1	1	76.84	76.84	76.84
50	QPSK	1	1	77.20	77.20	77.20
50	QPSK	1	1	77.56	77.56	77.56
50	QPSK	1	1	77.92	77.92	77.92
50	QPSK	1	1	78.28	78.28	78.28
50	QPSK	1	1	78.64	78.64	78.64
50	QPSK	1	1	79.00	79.00	79.00
50	QPSK	1	1	79.36	79.36	79.36
50	QPSK	1	1	79.72	79.72	79.72
50	QPSK	1	1	80.08	80.08	80.08
50	QPSK	1	1	80.44	80.44	80.44
50	QPSK	1	1	80.80	80.80	80.80
50	QPSK	1	1	81.16	81.16	81.16
50	QPSK	1	1	81.52	81.52	81.52
50	QPSK	1	1	81.88	81.88	81.88
50	QPSK	1	1	82.24	82.24	82.24
50	QPSK	1	1	82.60	82.60	82.60
50	QPSK	1	1	82.96	82.96	82.96
50	QPSK	1	1	83.32	83.32	83.32
50	QPSK	1	1	83.68	83.68	83.68
50	QPSK	1	1	84.04	84.04	84.04
50	QPSK	1	1	84.40	84.40	84.40
50	QPSK	1	1	84.76	84.76	84.76
50	QPSK	1	1	85.12	85.12	85.12
50	QPSK	1	1	85.48	85.48	85.48
50	QPSK	1	1	85.84	85.84	85.84
50	QPSK	1	1	86.20	86.20	86.20
50	QPSK	1	1	86.56	86.56	86.56
50	QPSK	1	1	86.92	86.92	86.92
50	QPSK	1	1	87.28	87.28	87.28
50	QPSK	1	1	87.64	87.64	87.64
50	QPSK	1	1	88.00	88.00	88.00
50	QPSK	1	1	88.36	88.36	88.36
50	QPSK	1	1	88.72	88.72	88.72
50	QPSK	1	1	89.08	89.08	89.08
50	QPSK	1	1	89.44	89.44	89.44
50	QPSK	1	1	89.80	89.80	89.80
50	QPSK	1				

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				346000	349000	352000			
Frequency (MHz)				1720	1745	1760			
40	Pi2 BPSK	1	1	16.59	16.77	16.73			
40	Pi2 BPSK	1	108	16.82	16.74	16.62	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	16.89	16.85	16.87	18.0	0.0	
40	Pi2 BPSK	108	108	16.83	16.23	16.17	18.0	0.0	
40	Pi2 BPSK	216	0	16.34	16.33	16.73			
40	QPSK	1	1	16.36	16.97	16.90			
40	QPSK	1	108	16.86	16.69	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	18.0	0.0	
40	16QAM	1	1	16.61	16.52	16.66	18.0	0.0	
40	64QAM	1	1	16.48	16.56	16.63	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	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	16.53	16.96	16.87	19.0	0.0	
Channel				343000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	16.53	16.82	16.81	18.0	0.0	
Channel				343000	349000	352000	Tune-up limit	MPR	
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)	
10	QPSK	1	1	16.85	16.88	16.94	18.0	0.0	
Channel				342000	349000	350500	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
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				502000	507000	512000			
Frequency (MHz)				2510	2535	2560			
Channel				502000	507000	512000	Tune-up limit	MPR	
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)	
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	13.08	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	13.36	14.0	0.0	
20	QPSK	50	56	13.40	13.46	13.34	14.0	0.0	
20	QPSK	100	0	13.16	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				501500	507000	512500	Tune-up limit	MPR	
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)	
15	QPSK	1	1	13.36	13.40	13.34	14.0	0.0	
Channel				501000	507000	513000	Tune-up limit	MPR	
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)	
10	QPSK	1	1	13.36	13.41	13.33	14.0	0.0	
Channel				500500	507000	513500	Tune-up limit	MPR	
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)	
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				166000	167300	167600			
Frequency (MHz)				834	836.5	839			
20	Pi2 BPSK	1	1	21.15	21.27	21.18			
20	Pi2 BPSK	1	53	21.35	21.35	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	22.0	0.0	
20	16QAM	1	1	20.95	20.80	20.88	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	MPR	
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)	
15	QPSK	1	1	21.11	21.08	21.16	22.0	0.0	
Channel				166800	167300	168800	Tune-up limit	MPR	
Frequency (MHz)				826	836.5	844	(dBm)	(dB)	
10	QPSK	1	1	21.16	21.15	21.10	22.0	0.0	
Channel				166300	167300	167500	Tune-up limit	MPR	
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)	
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 Mediu Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1721	1745	1769			
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	15.85	16.52	15.86	18.0	0.0	
40	PI2 BPSK	108	54	16.53	16.52	16.37	18.0	0.0	
40	PI2 BPSK	108	108	15.69	16.46	15.84			
40	PI2 BPSK	216	0	15.72	16.49	15.71	18.0	0.0	
40	QPSK	1	1	16.52	16.66	16.51			
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	15.24	16.50	15.01	18.0	0.0	
40	QPSK	108	54	16.50	16.32	16.33	18.0	0.0	
40	QPSK	108	108	15.23	16.49	15.14			
40	QPSK	216	0	15.36	16.50	15.38	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 (dB)	
Frequency (MHz)				1721	1745	1770			
20	QPSK	1	1	16.43	16.42	16.38	18.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	16.36	16.41	16.41	18.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	16.38	16.41	16.38	18.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
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 Mediu Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1721	1745	1769			
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	15.86	15.70	15.65	16.5	0.0	
40	PI2 BPSK	108	54	15.75	15.71	15.55	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	16.5	0.0	
40	QPSK	1	1	15.70	15.73	15.70			
40	QPSK	1	108	15.71	15.72	15.72	16.5	0.0	
40	QPSK	1	214	15.34	15.66	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	15.66	15.62	16.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1721	1745	1770			
20	QPSK	1	1	15.59	15.63	15.59	16.5	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	PI2 BPSK	1	1	15.69	15.62	15.60	16.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	PI2 BPSK	1	1	15.65	15.60	15.58	16.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
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 Mediu Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1721	1745	1769			
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	20.09	21.5	0.0	
40	PI2 BPSK	108	54	20.75	20.76	20.61	21.5	0.0	
40	PI2 BPSK	108	108	19.96	20.08	20.08			
40	PI2 BPSK	216	0	19.98	20.20	19.95	21.5	0.0	
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	19.55	19.27	21.5	0.0	
40	QPSK	108	54	20.72	20.75	20.56	21.5	0.0	
40	QPSK	108	108	20.05	20.67	20.04			
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 (dB)	
Frequency (MHz)				1721	1745	1770			
20	QPSK	1	1	20.61	20.68	20.64	21.5	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	PI2 BPSK	1	1	20.62	20.69	20.65	21.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	PI2 BPSK	1	1	20.63	20.70	20.63	21.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
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	18.06	18.08	17.97			
40	QPSK	108	0	18.55	18.56	18.39	20.0	0.0	
40	QPSK	108	54	18.82	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	18.39			
40	16QAM	1	1	18.28	18.19	18.35	20.0	0.0	
40	64QAM	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	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	18.44	18.44	18.42	21.5	0.0	
Channel				343000	348000	353000	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	PI2 BPSK	1	1	18.45	18.48	18.41	21.5	0.0	
Channel				343000	349000	352000	Tune-up limit	MPR	
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)	
10	PI2 BPSK	1	1	18.42	18.46	18.41	21.5	0.0	
Channel				342000	348000	352000	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
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	16.5	0.0	
20	QPSK	100	0	15.23	15.24	15.41			
20	16QAM	1	1	15.33	15.35	15.42	16.5	0.0	
20	64QAM	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	MPR	
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)	
15	PI2 BPSK	1	1	15.41	15.38	15.44	16.5	0.0	
Channel				501000	507000	513000	Tune-up limit	MPR	
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)	
10	PI2 BPSK	1	1	15.35	15.49	15.37	16.5	0.0	
Channel				500500	507000	513500	Tune-up limit	MPR	
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)	
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	20.76	20.62	20.75			
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	21.5	0.0	
20	QPSK	100	0	20.24	20.35	20.41			
20	16QAM	1	1	20.42	20.41	20.65	21.5	0.0	
20	64QAM	1	1	20.66	20.61	20.47	21.5	0.0	
20	256QAM	1	1	18.75	18.68	18.51	21.5	2.0	
Channel				501500	507000	512500	Tune-up limit	MPR	
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)	
15	PI2 BPSK	1	1	20.44	20.38	20.35	21.5	0.0	
Channel				501000	507000	513000	Tune-up limit	MPR	
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)	
10	PI2 BPSK	1	1	20.31	20.38	20.33	21.5	0.0	
Channel				500500	507000	513500	Tune-up limit	MPR	
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)	
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				506000	507000	51000			
Frequency (MHz)				2500	2535	2560			
20	PI2 BPSK	1	1	13.77	13.86	13.65	14.5	0.0	
20	PI2 BPSK	1	53	13.73	13.75	13.87			
20	PI2 BPSK	1	104	13.66	13.84	13.77			
20	PI2 BPSK	50	0	13.76	13.90	13.73	14.5	0.0	
20	PI2 BPSK	50	26	13.86	13.86	13.59	14.5	0.0	
20	PI2 BPSK	50	56	13.93	13.85	13.84	14.5	0.0	
20	PI2 BPSK	100	0	13.54	13.82	13.85	14.5	0.0	
20	QPSK	1	1	13.90	13.93	13.56	14.5	0.0	
20	QPSK	1	53	13.92	13.85	13.57			
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	26	13.86	13.97	13.85	14.5	0.0	
20	QPSK	50	56	13.84	13.75	13.79	14.5	0.0	
20	QPSK	100	0	13.64	13.71	13.75	14.5	0.0	
20	16QAM	1	1	13.76	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				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	PI2 BPSK	1	1	13.72	13.75	13.68	14.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	PI2 BPSK	1	1	13.62	13.79	13.81	14.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	PI2 BPSK	1	1	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				500000	507000	512000			
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	13.42	13.48	13.41	14.0	0.0	
20	PI2 BPSK	1	53	13.42	13.46	13.36			
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	26	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	13.46	13.53	13.44	14.0	0.0	
20	QPSK	1	53	13.44	13.49	13.42			
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	26	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	13.15	14.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	13.13	13.44	13.24	14.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	13.22	13.18	13.32	14.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				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. 500000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 515000	Tune-up limit (dBm)	MPR (dB)	
Channel				500000	507000	515000			
Frequency (MHz)				2507.5	2535	2562.5			
20	PI2 BPSK	1	1	17.32	17.21	17.11	18.0	0.0	
20	PI2 BPSK	1	53	17.47	17.32	17.34			
20	PI2 BPSK	1	104	17.54	17.40	17.14			
20	PI2 BPSK	50	0	17.26	17.43	17.20	18.0	0.0	
20	PI2 BPSK	50	26	17.45	17.38	17.56	18.0	0.0	
20	PI2 BPSK	50	56	17.34	17.20	17.25	18.0	0.0	
20	PI2 BPSK	100	0	16.94	17.10	17.43	18.0	0.0	
20	QPSK	1	1	17.45	17.59	17.44	18.0	0.0	
20	QPSK	1	53	17.52	17.47	17.24			
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	26	17.45	17.55	17.43	18.0	0.0	
20	QPSK	50	56	17.36	17.14	17.23	18.0	0.0	
20	QPSK	100	0	17.16	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	17.26	17.15	18.0	0.0	
20	256QAM	1	1	17.21	17.29	17.09	18.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	PI2 BPSK	1	1	17.15	17.08	17.23	18.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	PI2 BPSK	1	1	17.19	17.21	17.25	18.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	PI2 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)				3750					
100	Pl2 BPSK	1	1	17.38			18.5	0.0	
100	Pl2 BPSK	1	137	17.35					
100	Pl2 BPSK	1	271	17.33					
100	Pl2 BPSK	135	0	17.22			18.5	0.0	
100	Pl2 BPSK	135	69	17.28			18.5	0.0	
100	Pl2 BPSK	135	138	17.26			18.5	0.0	
100	Pl2 BPSK	270	0	17.24			18.5	0.0	
100	QPSK	1	1	17.41					
100	QPSK	1	137	17.38					
100	QPSK	1	271	17.33			18.5	0.0	
100	QPSK	135	0	17.15			18.5	0.0	
100	QPSK	135	69	17.21			18.5	0.0	
100	QPSK	135	138	17.20			18.5	0.0	
100	QPSK	270	0	17.20			18.5	0.0	
100	16QAM	1	1	17.15					
100	64QAM	1	1	17.29					
100	256QAM	1	1	17.00			18.5	0.0	
Channel				648668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
80	QPSK	1	1	17.28	17.33	17.35	18.5	0.0	
Channel				648334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	17.22	17.28	17.31	18.5	0.0	
Channel				650333	650333	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	17.25	17.26	17.24	18.5	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	17.31	17.32	17.25	18.5	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	17.33	17.28	17.24	18.5	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	17.25	17.28	17.31	18.5	0.0	
Channel				647334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3718.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	17.21	17.30	17.24	18.5	0.0	
Channel				647168	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3797.51	(dBm)	(dB)	
15	QPSK	1	1	17.25	17.29	17.35	18.5	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
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				633334					
Frequency (MHz)				3500.01					
100	Pl2 BPSK	1	1	17.05			18.5	0.0	
100	Pl2 BPSK	1	137	16.83					
100	Pl2 BPSK	1	271	16.72					
100	Pl2 BPSK	135	0	16.87			18.5	0.0	
100	Pl2 BPSK	135	69	16.98			18.5	0.0	
100	Pl2 BPSK	135	138	16.96			18.5	0.0	
100	Pl2 BPSK	270	0	16.98			18.5	0.0	
100	QPSK	1	1	17.16					
100	QPSK	1	137	16.86					
100	QPSK	1	271	16.71			18.5	0.0	
100	QPSK	135	0	16.96			18.5	0.0	
100	QPSK	135	69	17.12			18.5	0.0	
100	QPSK	135	138	16.89			18.5	0.0	
100	QPSK	270	0	17.11			18.5	0.0	
100	16QAM	1	1	16.98					
100	64QAM	1	1	16.97					
100	256QAM	1	1	16.89			18.5	0.0	
Channel				633000	633334	633668	Tune-up limit	MPR	
Frequency (MHz)				3495	3500.01	3504.99	(dBm)	(dB)	
80	QPSK	1	1	17.10	17.11	17.08	18.5	0.0	
Channel				632668	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	1	16.95	16.98	16.95	18.5	0.0	
Channel				632333	633334	634332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3500.01	3514.98	(dBm)	(dB)	
70	QPSK	1	1	16.96	16.98	16.97	18.5	0.0	
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3516.96	(dBm)	(dB)	
60	QPSK	1	1	16.99	16.98	16.95	18.5	0.0	
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	1	16.99	16.99	16.97	18.5	0.0	
Channel				631334	633334	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3528.98	(dBm)	(dB)	
40	QPSK	1	1	16.99	17.00	16.94	18.5	0.0	
Channel				630968	633334	635668	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	1	16.98	17.01	16.97	18.5	0.0	
Channel				630600	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3450.01	3500.01	3545.99	(dBm)	(dB)	
15	QPSK	1	1	16.98	16.99	16.96	18.5	0.0	
Channel				630334	633334	636332	Tune-up limit	MPR	
Frequency (MHz)				3445.01	3500.01	3544.99	(dBm)	(dB)	
10	Pl2 BPSK	1	1	16.99	16.99	16.97	18.5	0.0	

Par27O 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)				3750	3740	3760			
100	Pl2 BPSK	1	1	13.42	13.54	13.39	14.5	0.0	
100	Pl2 BPSK	1	137	13.42	13.63	13.40			
100	Pl2 BPSK	1	271	13.38	13.62	13.36			
100	Pl2 BPSK	135	0	13.38	13.63	13.35	14.5	0.0	
100	Pl2 BPSK	135	69	13.05	13.05	13.38	14.5	0.0	
100	Pl2 BPSK	135	138	13.54	13.56	13.35	14.5	0.0	
100	Pl2 BPSK	270	0	13.53	13.56	13.25	14.5	0.0	
100	QPSK	1	1	13.42	13.66	13.42	14.5	0.0	
100	QPSK	1	137	13.42	13.63	13.41			
100	QPSK	1	271	13.40	13.65	13.38			
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	13.05	13.00	13.35	14.5	0.0	
100	QPSK	270	0	13.28	13.53	13.31	14.5	0.0	
100	16QAM	1	1	13.29	13.55	13.31			
100	64QAM	1	1	13.28	13.51	13.30			
100	256QAM	1	1	13.31	13.52	13.29	14.5	0.0	
Channel				648668	650000	662332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3740	3754.98	(dBm)	(dB)	
80	QPSK	1	1	13.30	13.55	13.31	14.5	0.0	
Channel				648334	650000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3740	3759.98	(dBm)	(dB)	
80	QPSK	1	1	13.29	13.55	13.30	14.5	0.0	
Channel				647999	650000	663332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3740	3749.98	(dBm)	(dB)	
60	QPSK	1	1	13.29	13.54	13.30	14.5	0.0	
Channel				648334	650000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3740	3745.98	(dBm)	(dB)	
50	QPSK	1	1	13.31	13.54	13.30	14.5	0.0	
Channel				648000	650000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3740	3760	(dBm)	(dB)	
40	QPSK	1	1	13.28	13.56	13.28	14.5	0.0	
Channel				647334	650000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3740	3769.98	(dBm)	(dB)	
20	QPSK	1	1	13.32	13.54	13.28	14.5	0.0	
Channel				647000	650000	664332	Tune-up limit	MPR	
Frequency (MHz)				3707.50	3740	3767.48	(dBm)	(dB)	
15	QPSK	1	1	13.28	13.55	13.30	14.5	0.0	
Channel				647000	650000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3740	3770	(dBm)	(dB)	
10	QPSK	1	1	13.30	13.53	13.31	14.5	0.0	



Par27Q n77 Ant5_HPUE For ENDC-Head									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power High Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				635334	635334				
Frequency (MHz)				12.41	12.41				
100	P12 BPSK	1	1	12.41	12.47		14.5	0.0	
100	P12 BPSK	1	137	12.47	12.43				
100	P12 BPSK	1	271	12.43	12.47				
100	P12 BPSK	135	0	12.38	12.38		14.5	0.0	
100	P12 BPSK	135	66	12.38	12.38		14.5	0.0	
100	P12 BPSK	135	138	12.38	12.42		14.5	0.0	
100	P12 BPSK	270	0	12.42	12.42				
100	QPSK	1	1	12.51	12.44		14.5	0.0	
100	QPSK	1	137	12.44	12.47				
100	QPSK	1	271	12.47	12.43				
100	QPSK	135	0	12.43	12.45		14.5	0.0	
100	QPSK	135	66	12.45	12.45		14.5	0.0	
100	QPSK	135	138	12.45	12.40		14.5	0.0	
100	QPSK	270	0	12.40	12.37		14.5	0.0	
100	16QAM	1	1	12.36	12.35		14.5	0.0	
100	64QAM	1	1	12.36	12.35		14.5	0.0	
100	256QAM	1	1	12.35	12.35		14.5	0.0	
Channel				635000	635334	635668	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				635668	635334	635000	Tune-up limit	MPR	
Frequency (MHz)				3496.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	1	12.17	12.43	12.19	14.5	0.0	
Channel				635000	635334	635668	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	635334	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3505	(dBm)	(dB)	
50	QPSK	1	1	12.19	12.42	12.18	14.5	0.0	
Channel				631334	635334	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3509.98	(dBm)	(dB)	
40	QPSK	1	1	12.17	12.40	12.20	14.5	0.0	
Channel				630668	635334	635000	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	635334	635166	Tune-up limit	MPR	
Frequency (MHz)				3467.5	3500.01	3542.49	(dBm)	(dB)	
15	QPSK	1	1	12.17	12.44	12.18	14.5	0.0	
Channel				635334	635334	635332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3500.01	3544.98	(dBm)	(dB)	
15	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 High Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	P12 BPSK	1	1	18.99	19.28		20.5	0.0	
100	P12 BPSK	1	137	19.28	19.00				
100	P12 BPSK	1	271	19.00	19.12		20.5	0.0	
100	P12 BPSK	135	0	19.12	19.12		20.5	0.0	
100	P12 BPSK	135	66	19.12	19.20		20.5	0.0	
100	P12 BPSK	135	138	19.20	19.17		20.5	0.0	
100	P12 BPSK	270	0	19.17	19.25		20.5	0.0	
100	QPSK	1	1	19.41	19.18		20.5	0.0	
100	QPSK	1	137	19.18	19.10				
100	QPSK	1	271	19.10	19.20		20.5	0.0	
100	QPSK	135	0	19.20	19.21		20.5	0.0	
100	QPSK	135	66	19.21	19.11		20.5	0.0	
100	QPSK	135	138	19.11	19.20		20.5	0.0	
100	QPSK	270	0	19.20	18.33		20.5	0.0	
100	16QAM	1	1	18.52	18.52		20.5	0.0	
100	64QAM	1	1	18.52	18.52		19.5	1.0	
100	256QAM	1	1	17.48					
Channel				649668	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				649000	650000	651000	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				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.05	3750	3750.05	(dBm)	(dB)	
60	QPSK	1	1	18.41	18.57	18.49	20.5	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3755.02	(dBm)	(dB)	
50	QPSK	1	1	18.44	18.53	18.55	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	3760.02	(dBm)	(dB)	
20	QPSK	1	1	18.47	18.45	18.43	20.5	0.0	
Channel				647168	650000	653234	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3762.51	(dBm)	(dB)	
15	QPSK	1	1	18.55	18.62	18.57	20.5	0.0	
Channel				647000	650000	653000	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				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	P12 BPSK	1	1	17.18			18.0	0.0	
100	P12 BPSK	1	137	17.15					
100	P12 BPSK	1	271	17.05			18.0	0.0	
100	P12 BPSK	135	0	17.09			18.0	0.0	
100	P12 BPSK	135	66	17.17			18.0	0.0	
100	P12 BPSK	135	138	17.12			18.0	0.0	
100	P12 BPSK	270	0	17.12			18.0	0.0	
100	QPSK	1	1	17.21			18.0	0.0	
100	QPSK	1	137	17.19					
100	QPSK	1	271	17.09			18.0	0.0	
100	QPSK	135	0	17.12			18.0	0.0	
100	QPSK	135	66	17.18			18.0	0.0	
100	QPSK	135	138	17.16			18.0	0.0	
100	QPSK	270	0	17.15			18.0	0.0	
100	16QAM	1	1	17.08			18.0	0.0	
100	64QAM	1	1	17.08			18.0	0.0	
100	256QAM	1	1	17.07			18.0	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	17.01	17.04	17.07	18.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	17.05	17.11	17.06	18.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	17.02	17.05	17.13	18.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	17.05	17.03	17.10	18.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.02			
50	QPSK	1	1	17.00	17.02	17.05	18.0	0.0	
Channel				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	17.05	17.10	17.05	18.0	0.0	
Channel				647334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	17.01	17.06	17.05	18.0	0.0	
Channel				647000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3700	3750	3750			
15	QPSK	1	1	17.06	17.08	17.02	18.0	0.0	
Channel				647000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3700	3750	3750			
10	QPSK	1	1	17.10	17.02	17.06	18.0	0.0	



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)				650000	650000	650000			
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137		23.04		24.0	0.0	
100	PI2 BPSK	1	271		23.34		24.0	0.0	
100	PI2 BPSK	136	0		23.17		23.5	0.5	
100	PI2 BPSK	136	69		23.37		24.0	0.0	
100	PI2 BPSK	136	138		23.24		23.5	0.5	
100	PI2 BPSK	270	0		23.20		24.0	0.0	
100	QPSK	1	1		23.45				
100	QPSK	1	137		23.32		23.5	0.5	
100	QPSK	1	271		23.22				
100	QPSK	136	0		23.26		23.0	1.0	
100	QPSK	136	69		23.44		24.0	0.0	
100	QPSK	136	138		23.30		23.0	1.0	
100	QPSK	270	0		23.25				
100	16QAM	1	1		22.40		23.0	1.0	
100	64QAM	1	1		21.20		21.5	2.5	
100	256QAM	1	1		18.52		19.5	4.5	
Channel									
Frequency (MHz)				648668	650000	650334	Tune-up limit (dBm)	MPR	
80	QPSK	1	1	23.22	23.21	23.32	24.0	0.0	
Channel									
Frequency (MHz)				648334	650000	650368	Tune-up limit (dBm)	MPR	
80	QPSK	1	1	23.21	23.22	23.22	24.0	0.0	
Channel									
Frequency (MHz)				3735	3750	3765	Tune-up limit (dBm)	MPR	
70	QPSK	1	1	23.12	23.22	23.15	24.0	0.0	
Channel									
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR	
60	QPSK	1	1	23.34	23.33	23.31	24.0	0.0	
Channel									
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR	
50	QPSK	1	1	23.25	23.26	23.12	24.0	0.0	
Channel									
Frequency (MHz)				648000	650000	650000	Tune-up limit (dBm)	MPR	
40	QPSK	1	1	23.12	23.22	23.31	24.0	0.0	
Channel									
Frequency (MHz)				647334	650000	650368	Tune-up limit (dBm)	MPR	
20	QPSK	1	1	23.36	23.34	23.15	24.0	0.0	
Channel									
Frequency (MHz)				647168	650000	650334	Tune-up limit (dBm)	MPR	
15	QPSK	1	1	23.25	23.32	23.35	24.0	0.0	
Channel									
Frequency (MHz)				647000	650000	650000	Tune-up limit (dBm)	MPR	
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)				3500.01					
100	PI2 BPSK	1	1		18.63				
100	PI2 BPSK	1	137		18.42		20.5	0.0	
100	PI2 BPSK	1	271		18.30				
100	PI2 BPSK	136	0		18.51		20.5	0.0	
100	PI2 BPSK	136	69		18.40		20.5	0.0	
100	PI2 BPSK	136	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	136	0		18.54		20.5	0.0	
100	QPSK	136	69		18.62		20.5	0.0	
100	QPSK	136	138		18.53		20.5	0.0	
100	QPSK	270	0		18.61				
100	16QAM	1	1		18.59		20.5	0.0	
100	64QAM	1	1		18.56		20.5	0.0	
100	256QAM	1	1		18.52		19.5	1.0	
Channel									
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR	
80	QPSK	1	1	18.41	18.54	18.39	20.5	0.0	
Channel									
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR	
80	QPSK	1	1	18.41	18.56	18.40	20.5	0.0	
Channel									
Frequency (MHz)				632334	633334	634332	Tune-up limit (dBm)	MPR	
70	QPSK	1	1	18.38	18.52	18.40	20.5	0.0	
Channel									
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR	
60	QPSK	1	1	18.42	18.54	18.42	20.5	0.0	
Channel									
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR	
50	QPSK	1	1	18.37	18.51	18.39	20.5	0.0	
Channel									
Frequency (MHz)				631334	633334	635332	Tune-up limit (dBm)	MPR	
40	QPSK	1	1	18.38	18.55	18.42	20.5	0.0	
Channel									
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR	
20	QPSK	1	1	18.41	18.55	18.43	20.5	0.0	
Channel									
Frequency (MHz)				630334	633334	636332	Tune-up limit (dBm)	MPR	
15	QPSK	1	1	18.38	18.55	18.42	20.5	0.0	
Channel									
Frequency (MHz)				630000	633334	636668	Tune-up limit (dBm)	MPR	
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)					3500.01				
100	PI2 BPSK	1	1		15.85				
100	PI2 BPSK	1	137		15.83		18.0	0.0	
100	PI2 BPSK	1	271		15.72				
100	PI2 BPSK	136	0		15.87		18.0	0.0	
100	PI2 BPSK	136	69		15.93		18.0	0.0	
100	PI2 BPSK	136	138		15.96		18.0	0.0	
100	PI2 BPSK	270	0		15.98				
100	QPSK	1	1		15.96				
100	QPSK	1	137		15.96		18.0	0.0	
100	QPSK	1	271		15.71				
100	QPSK	136	0		15.96		18.0	0.0	
100	QPSK	136	69		15.93		18.0	0.0	
100	QPSK	136	138		15.95		18.0	0.0	
100	QPSK	270	0		15.91				
100	16QAM	1	1		15.98		18.0	0.0	
100	64QAM	1	1		15.97		18.0	0.0	
100	256QAM	1	1		15.85		18.0	0.0	
Channel									
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR	
80	QPSK	1	1	15.85	15.95	15.79	18.0	0.0	
Channel									
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR	
80	QPSK	1	1	15.85	15.95	15.80	18.0	0.0	
Channel									
Frequency (MHz)				632334	633334	634332	Tune-up limit (dBm)	MPR	
70	QPSK	1	1	15.88	15.92	15.77	18.0	0.0	
Channel									
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR	
60	QPSK	1	1	15.87	15.91	15.78	18.0	0.0	
Channel									
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR	
50	QPSK	1	1	15.85	15.92	15.80	18.0	0.0	
Channel									
Frequency (MHz)				631334	633334	635332	Tune-up limit (dBm)	MPR	
40	QPSK	1	1	15.84	15.93	15.79	18.0	0.0	
Channel									
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR	
20	QPSK	1	1	15.86	15.93	15.81	18.0	0.0	
Channel									
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR	
15	QPSK	1	1	15.86	15.91	15.79	18.0	0.0	
Channel									
Frequency (MHz)				630334	633334	636332	Tune-up limit (dBm)	MPR	
10	PI2 BPSK	1	1	15.86	15.95	15.80	18.0	0.0	



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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)				3503.34					
100	PI2 BPSK	1	1	22.04			24.0	0.0	
100	PI2 BPSK	1	137	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			24.0	0.0	
100	QPSK	1	1	22.05					
100	QPSK	1	137	21.84					
100	QPSK	1	271	21.68			23.0	1.0	
100	QPSK	136	0	21.93					
100	QPSK	136	69	22.01			24.0	0.0	
100	QPSK	136	138	21.88			23.0	1.0	
100	QPSK	270	0	22.00			23.0	1.0	
100	16QAM	1	1	21.96					
100	64QAM	1	1	21.95			21.5	2.5	
100	256QAM	1	1	18.56			19.5	4.5	
Channel									
Frequency (MHz)				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	21.85	21.91	21.89	24.0	0.0	
Channel				630668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3496.02	3500.01	3510		24.0	0.0
80	QPSK	1	1	21.88	21.95	21.86			
Channel				632668	633334	634332	Tune-up limit (dBm)		
Frequency (MHz)				3495.01	3500.01	3514.98		24.0	0.0
70	QPSK	1	1	21.85	21.90	21.85			
Channel				632000	633334	634666	Tune-up limit (dBm)		
Frequency (MHz)				3490	3500.01	3519.99		24.0	0.0
60	QPSK	1	1	21.89	21.91	21.90			
Channel				631668	633334	635000	Tune-up limit (dBm)		
Frequency (MHz)				3476.02	3500.01	3525		24.0	0.0
50	QPSK	1	1	21.86	21.93	21.89			
Channel				631334	633334	635332	Tune-up limit (dBm)		
Frequency (MHz)				3470.01	3500.01	3529.98		24.0	0.0
40	QPSK	1	1	21.89	21.84	21.89			
Channel				631000	633334	635666	Tune-up limit (dBm)		
Frequency (MHz)				3465	3500.01	3534.99		24.0	0.0
20	QPSK	1	1	21.87	21.93	21.87			
Channel				630251	633334	636250	Tune-up limit (dBm)		
Frequency (MHz)				3462.51	3500.01	3537.48		24.0	0.0
15	QPSK	1	1	21.90	21.90	21.89			
Channel				630668	633334	636000	Tune-up limit (dBm)		
Frequency (MHz)				3460.02	3500.01	3540		24.0	0.0
10	PI2 BPSK	1	1	21.87	21.93	21.90			

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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)				650000	656000	662000		18.5	0.0	
100	PI2 BPSK	1	1	17.05	17.54	17.21	18.5			
100	PI2 BPSK	1	137	17.03	17.51	17.20				
100	PI2 BPSK	1	271	17.02	17.54	17.19	18.5	0.0		
100	PI2 BPSK	136	0	17.01	17.55	17.17				
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				
100	QPSK	136	138	17.42	17.50	17.43	18.5	0.0		
100	QPSK	270	0	17.28	17.48	17.23				
100	16QAM	1	1	17.27	17.47	17.21	18.5	0.0		
100	64QAM	1	1	17.25	17.45	17.22				
100	256QAM	1	1	17.24	17.47	17.20				
Channel										
Frequency (MHz)				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	16.94	17.48	17.12	18.5	0.0		
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3740.01	3840	3940.02		18.5	0.0	
80	QPSK	1	1	16.94	17.43	17.11				
Channel				649000	656000	663000	Tune-up limit (dBm)			
Frequency (MHz)				3730.02	3840	3950.01		18.5	0.0	
60	QPSK	1	1	16.93	17.42	17.09				
Channel				648334	656000	663668	Tune-up limit (dBm)	18.5	0.0	
Frequency (MHz)				3725.01	3940	3945.02				
50	QPSK	1	1	16.93	17.44	17.09				
Channel				648000	656000	664000	Tune-up limit (dBm)	18.5	0.0	
Frequency (MHz)				3720	3940	3940				
40	QPSK	1	1	16.93	17.45	17.11				
Channel				647334	656000	664668	Tune-up limit (dBm)	18.5	0.0	
Frequency (MHz)				3710.01	3840	3970.02				
20	QPSK	1	1	16.96	17.44	17.13				
Channel				647000	656000	665334	Tune-up limit (dBm)	18.5	0.0	
Frequency (MHz)				3707.52	3840	3972.51				
15	QPSK	1	1	16.95	17.47	17.12				
Channel				646000	656000	666000	Tune-up limit (dBm)	18.5	0.0	
Frequency (MHz)				3705	3840	3975				
10	QPSK	1	1	16.94	17.46	17.12				

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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)				650000	656000	662000			
100	PI2 BPSK	1	1	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	16.30	17.0	0.0	
100	PI2 BPSK	136	138	16.06	16.07	16.05	17.0	0.0	
100	PI2 BPSK	270	0	16.15	16.04	16.16			
100	QPSK	1	1	16.12	16.44	16.01			
100	QPSK	1	137	16.20	16.08	16.05	17.0	0.0	
100	QPSK	1	271	16.19	16.06	16.09			
100	QPSK	136	0	16.13	16.08	16.21			
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	64QAM	1	1	16.07	16.17	16.22	17.0	0.0	
100	256QAM	1	1	16.03	16.20	16.12	17.0	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	15.99	16.33	15.68	17.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	15.98	16.31	15.89	17.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	15.98	16.33	15.87	17.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.01	3840	3960.02			
50	QPSK	1	1	16.01	16.31	15.87	17.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
40	QPSK	1	1	15.98	16.30	15.89	17.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	15.99	16.30	15.86	17.0	0.0	
Channel				647000	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3700.02	3840	3972.01			
15	QPSK	1	1	15.99	16.30	15.86	17.0	0.0	
Channel				646334	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3700	3840	3975			
10	QPSK	1	1	16.01	16.30	15.87	17.0	0.0	



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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)				3750	3840	3930			
100	Pl2 BPSK	1	1	20.31	20.54	20.41			
100	Pl2 BPSK	1	137	20.31	20.52	20.40	21.0	0.0	
100	Pl2 BPSK	1	271	20.25	20.53	20.40			
100	Pl2 BPSK	136	0	20.26	20.53	20.42	21.0	0.0	
100	Pl2 BPSK	136	69	20.52	20.48	20.38	21.0	0.0	
100	Pl2 BPSK	136	138	20.79	20.47	20.33	21.0	0.0	
100	Pl2 BPSK	270	0	20.36	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	21.0	0.0	
100	QPSK	270	0	20.37	20.41	20.24	21.0	0.0	
100	16QAM	1	1	20.36	20.40	20.22	21.0	0.0	
100	64QAM	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)				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	20.21	20.43	20.30	21.0	0.0	
Channel									
Frequency (MHz)				3740.01	3840	3940.02	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	20.19	20.44	20.33	21.0	0.0	
Channel									
Frequency (MHz)				3730.02	3840	3960.01	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	20.19	20.42	20.33	21.0	0.0	
Channel									
Frequency (MHz)				3724.01	3840	3965.02	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	20.19	20.44	20.33	21.0	0.0	
Channel									
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	20.18	20.45	20.30	21.0	0.0	
Channel									
Frequency (MHz)				3710.01	3840	3970.02	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	20.19	20.44	20.33	21.0	0.0	
Channel									
Frequency (MHz)				3707.52	3840	3972.51	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	20.19	20.44	20.33	21.0	0.0	
Channel									
Frequency (MHz)				3705	3840	3975	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	20.20	20.42	20.33	21.0	0.0	

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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)					3500.01				
100	Pl2 BPSK	1	1		17.58				
100	Pl2 BPSK	1	137		17.52		18.5	0.0	
100	Pl2 BPSK	1	271		17.48				
100	Pl2 BPSK	136	0		17.49		18.5	0.0	
100	Pl2 BPSK	136	69		17.47		18.5	0.0	
100	Pl2 BPSK	136	138		17.42		18.5	0.0	
100	Pl2 BPSK	270	0		17.43				
100	QPSK	1	1		17.53				
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		18.5	0.0	
100	QPSK	270	0		17.44				
100	16QAM	1	1		17.42		18.5	0.0	
100	64QAM	1	1		17.41		18.5	0.0	
100	256QAM	1	1		17.40		18.5	0.0	
Channel									
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
				3495	3500.01	3504.99	(dBm)		
80	QPSK	1	1	17.53	17.48	17.22	18.5	0.0	
Channel									
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
				3490.02	3500.01	3510	(dBm)		
80	QPSK	1	1	17.24	17.49	17.21	18.5	0.0	
Channel									
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
				3480	3500.01	3519.99	(dBm)		
60	QPSK	1	1	17.29	17.46	17.23	18.5	0.0	
Channel									
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
				3470.01	3500.01	3529.99	(dBm)		
50	QPSK	1	1	17.34	17.44	17.23	18.5	0.0	
Channel									
Frequency (MHz)				631334	633334	635332	Tune-up limit (dBm)	MPR (dB)	
				3460.02	3500.01	3545	(dBm)		
40	QPSK	1	1	17.29	17.50	17.20	18.5	0.0	
Channel									
Frequency (MHz)				630968	633334	636000	Tune-up limit (dBm)	MPR (dB)	
				3460.02	3500.01	3545	(dBm)		
20	QPSK	1	1	17.29	17.49	17.22	18.5	0.0	
Channel									
Frequency (MHz)				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
				3457.5	3500.01	3542.48	(dBm)		
15	QPSK	1	1	17.31	17.49	17.17	18.5	0.0	
Channel									
Frequency (MHz)				630334	633334	636332	Tune-up limit (dBm)	MPR (dB)	
				3455.01	3500.01	3544.98	(dBm)		
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					633334	3500.01			
Frequency (MHz)					18.03				
100	Pl2 BPSK	1	1		18.01				
100	Pl2 BPSK	1	137		18.01		17.0	0.0	
100	Pl2 BPSK	1	271		18.96				
100	Pl2 BPSK	136	0		18.99		17.0	0.0	
100	Pl2 BPSK	136	69		18.94		17.0	0.0	
100	Pl2 BPSK	136	138		18.89		17.0	0.0	
100	Pl2 BPSK	270	0		18.93				
100	QPSK	1	1		18.06				
100	QPSK	1	137		18.98		17.0	0.0	
100	QPSK	1	271		18.00				
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				
100	16QAM	1	1		18.92		17.0	0.0	
100	64QAM	1	1		18.89		17.0	0.0	
100	256QAM	1	1		18.90		17.0	0.0	
Channel				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3504.99			
95	QPSK	1	1	15.79	15.98	15.78			
Channel				633266	633334	633402	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	15.80	15.98	15.80	17.0	0.0	
Channel				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3509.99			
60	QPSK	1	1	15.86	15.92	15.78	17.0	0.0	
Channel				633668	633334	633000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495.00	3500.01	3495.01			
50	QPSK	1	1	15.87	15.90	15.84	17.0	0.0	
Channel				633154	633334	633532	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3491.01	3500.01	3509.98			
40	QPSK	1	1	15.79	15.93	15.79	17.0	0.0	
Channel				630668	633334	633000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3500			
20	QPSK	1	1	15.80	15.90	15.76	17.0	0.0	
Channel				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495.00	3500.01	3504.99			
15	QPSK	1	1	15.88	15.94	15.77	17.0	0.0	
Channel				633532	633334	633000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3493.01	3500.01	3494.98			
10	QPSK	1	1	15.88	15.93	15.80	17.0	0.0	

Par27Q n77 Ant5_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				633334					
Frequency (MHz)				3500.01					
100	Pl2 BPSK	1	1	18.01			21.0	0.0	
100	Pl2 BPSK	1	137	18.97					
100	Pl2 BPSK	1	271	18.94					
100	Pl2 BPSK	135	0	18.97			21.0	0.0	
100	Pl2 BPSK	135	69	18.92			21.0	0.0	
100	Pl2 BPSK	135	138	18.88			21.0	0.0	
100	Pl2 BPSK	270	0	18.92					
100	QPSK	1	1	18.05			21.0	0.0	
100	QPSK	1	137	18.96					
100	QPSK	1	271	18.99					
100	QPSK	135	0	18.92			21.0	0.0	
100	QPSK	135	69	18.94			21.0	0.0	
100	QPSK	135	138	18.88			21.0	0.0	
100	QPSK	270	0	18.90					
100	16QAM	1	1	18.89			21.0	0.0	
100	64QAM	1	1	18.87			21.0	0.0	
100	256QAM	1	1	18.86			20.5	0.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3504.99			
90	QPSK	1	1	18.80	18.91	18.84	21.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	18.83	18.97	18.80	21.0	0.0	
Channel				632332	633334	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3519.99			
60	QPSK	1	1	18.87	18.93	18.81	21.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3473.01	3500.01	3526.99			
50	QPSK	1	1	18.85	18.96	18.83	21.0	0.0	
Channel				631334	633334	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3529.99			
40	QPSK	1	1	18.88	18.92	18.81	21.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	18.88	18.96	18.81	21.0	0.0	
Channel				630000	633334	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.48			
15	QPSK	1	1	18.83	18.94	18.85	21.0	0.0	
Channel				630334	633334	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3544.98			
10	QPSK	1	1	18.85	18.91	18.78	21.0	0.0	

Conducted Power for WLAN/BT

2.4GHz WLAN	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		Note
	Mode	Channel	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	14.86	16.00	Not Required	16.00	97.46
		6	2437	17.16	19.00		17.50	
		11	2462	13.99	15.00		15.00	
	802.11n-HT20 MCS0	1	2412	14.33	16.00		16.00	97.30
		6	2437	15.14	17.00		17.00	
		11	2462	13.95	15.50		15.50	

5.2GHz WLAN	Ant 3 Full Power Standalone_For Head 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		Note
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	36	5180	16.12	18.00		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		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		16.50		13.00		14.50	
	802.11ac-VHT20 MCS0	36	5180	16.02	18.00		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		16.50		13.00		14.50	97.75
		46	5230	16.01	18.00		16.50		13.00		14.50	
	802.11ac-VHT80 MCS0	42	5210	14.25	16.00		16.00		13.00	13.63	14.50	94.75

5.3GHz WLAN	Ant 3 Full Power Standalone_For Head 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		Note
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	52	5260	16.17	18.00		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	5260	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		13.00		15.00	
	802.11ac-VHT20 MCS0	52	5260	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		16.50		13.00		15.00	97.75
		62	5310	14.91	16.50	14.91	16.50		13.00		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

5.5GHz WLAN	Ant 3 Full Power Standalone_For Head 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		Note
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	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		13.50		14.50	
		144	5720	16.36	18.00	Not Required	17.00		13.50		14.50	
	802.11n-HT20 MCS0	100	5500	15.00	17.00	15.00	17.00	Not Required	13.50	12.88	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		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	Not Required	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	
		100	5500	16.02	18.00	Not Required	17.00		13.50		14.50	97.31
	802.11ac-VHT20 MCS0	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		14.50	
		144	5720	16.25	18.00	Not Required	17.00		13.50		14.50	
	802.11ac-VHT40 MCS0	102	5510	14.65	16.50	14.65	16.50	Not Required	13.50		14.50	97.75
		110	5550	16.00	18.00	Not Required	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	
		106	5530	12.07	14.00	12.07	14.00	11.55	13.50	12.07	14.00	94.75
	802.11ac-VHT80 MCS0	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	

	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		Note
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
5.8GHz WLAN	802.11a 6Mbps	149	5745	16.36	18.00		16.00		12.50		13.50		12.00	97.46
		157	5785	16.47	18.00		16.00		12.50		13.50		12.00	
		165	5825	16.42	18.00		16.00		12.50		13.50		12.00	
	802.11n-HT20 MCS0	149	5745	15.04	17.00		16.00		12.50		13.50		12.00	97.28
		157	5785	15.26	17.00		16.00		12.50		13.50		12.00	
		165	5825	15.25	17.00		16.00		12.50		13.50		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		16.00		12.50		13.50		12.00	
	802.11ac-VHT20 MCS0	149	5745	16.29	18.00		16.00		12.50		13.50		12.00	97.31
		167	5785	16.37	18.00		16.00		12.50		13.50		12.00	
		165	5825	16.30	18.00		16.00		12.50		13.50		12.00	
	802.11ac-VHT40 MCS0	151	5755	16.06	18.00		16.00		12.50		13.50		12.00	97.75
159		5795	16.04	18.00	16.00		12.50		13.50		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