

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

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

10785	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10786	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10787	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	± 9.6 %
10788	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10789	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10790	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10791	AAE	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	± 9.6 %
10792	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	± 9.6 %
10793	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	± 9.6 %
10794	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10795	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	± 9.6 %
10796	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10797	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10798	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10799	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10801	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10802	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	± 9.6 %
10803	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10805	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10809	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10810	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10812	AAD	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10817	AAE	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10818	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10819	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	± 9.6 %
10820	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10821	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10822	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10823	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10824	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10825	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10827	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10828	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10829	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	± 9.6 %
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	± 9.6 %
10832	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	± 9.6 %
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	± 9.6 %
10835	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10836	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	± 9.6 %
10837	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	± 9.6 %
10839	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10840	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	± 9.6 %
10841	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	± 9.6 %
10843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	± 9.6 %
10844	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10846	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10854	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10856	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10858	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10859	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10860	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %

10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10864	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10865	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10868	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	± 9.6 %
10869	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10870	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	± 9.6 %
10871	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10872	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	± 9.6 %
10873	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10874	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10875	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10876	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	± 9.6 %
10877	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	± 9.6 %
10878	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10879	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	± 9.6 %
10880	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	± 9.6 %
10881	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10882	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	± 9.6 %
10883	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	± 9.6 %
10884	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	± 9.6 %
10885	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10886	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10887	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10888	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	± 9.6 %
10889	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	± 9.6 %
10890	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	± 9.6 %
10891	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	± 9.6 %
10892	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10897	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	± 9.6 %
10898	AAB	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10899	AAB	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10900	AAB	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10901	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10902	AAB	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10903	AAB	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10904	AAB	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10905	AAB	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10906	AAB	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10907	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	± 9.6 %
10908	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10909	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	± 9.6 %
10910	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10911	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10912	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10913	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10914	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	± 9.6 %
10915	AAB	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10916	AAB	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10917	AAB	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10918	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10919	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10920	AAB	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10921	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10922	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	± 9.6 %

10923	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10924	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10925	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	± 9.6 %
10926	AAB	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10927	AAB	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10928	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10929	AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10930	AAC	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10931	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10932	AAC	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10933	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10935	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10937	AAC	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	± 9.6 %
10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10939	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	± 9.6 %
10940	AAC	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	± 9.6 %
10941	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10942	AAC	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10943	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	± 9.6 %
10944	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	± 9.6 %
10945	AAC	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10947	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10948	AAC	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10949	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10950	AAC	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10951	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	± 9.6 %
10952	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	± 9.6 %
10953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	± 9.6 %
10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	± 9.6 %
10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	± 9.6 %
10956	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	± 9.6 %
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	± 9.6 %
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	± 9.6 %
10959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	± 9.6 %
10960	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	± 9.6 %
10961	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	± 9.6 %
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	± 9.6 %
10963	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10964	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	± 9.6 %
10965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	± 9.6 %
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10967	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	± 9.6 %
10968	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	± 9.6 %
10972	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	± 9.6 %
10973	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	± 9.6 %
10974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	± 9.6 %
10978	AAA	ULLA BDR	ULLA	2.23	± 9.6 %
10979	AAA	ULLA HDR4	ULLA	7.02	± 9.6 %
10980	AAA	ULLA HDR8	ULLA	8.82	± 9.6 %
10981	AAA	ULLA HDRp4	ULLA	1.50	± 9.6 %
10982	AAA	ULLA HDRp8	ULLA	1.44	± 9.6 %

^ε 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 level/Default Power level/ Pmax Power Level for WWAN

	Ant0 Default Power			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	Burst Average Power (dBm)							
GSM850	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)								
GSM 1 Tx slot	32.26	32.56	32.73	33.50	23.26	23.56	23.73	24.50
GPRS 1 Tx slot	32.25	32.53	32.72	33.50	23.25	23.53	23.72	24.50
GPRS 2 Tx slots	29.34	29.23	29.27	30.00	23.34	23.23	23.27	24.00
GPRS 3 Tx slots	28.11	28.28	28.26	29.50	23.85	24.02	24.00	25.24
GPRS 4 Tx slots	26.52	26.32	26.27	27.50	23.52	23.32	23.27	24.50
EDGE 1 Tx slot	25.70	25.64	25.69	27.00	16.70	16.64	16.69	18.00
EDGE 2 Tx slots	23.62	23.95	24.02	25.00	17.92	17.95	18.02	18.00
EDGE 3 Tx slots	22.77	22.75	22.77	24.00	18.51	18.49	18.51	19.74
EDGE 4 Tx slots	20.69	20.72	20.73	22.00	17.69	17.72	17.73	19.00

	Ant0 Default Power			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	Burst Average Power (dBm)							
GSM1900	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8	
Frequency (MHz)								
GSM 1 Tx slot	30.05	30.06	29.96	30.50	21.05	21.06	20.96	21.50
GPRS 1 Tx slot	30.04	30.05	29.93	30.50	21.04	21.05	20.93	21.50
GPRS 2 Tx slots	26.52	26.35	26.66	27.50	20.82	20.35	20.66	21.50
GPRS 3 Tx slots	25.33	25.35	25.19	26.50	21.07	21.09	20.93	22.24
GPRS 4 Tx slots	23.19	23.24	22.78	24.00	20.19	20.24	19.78	21.00
EDGE 1 Tx slot	25.11	25.03	25.21	26.50	16.11	16.03	16.21	17.50
EDGE 2 Tx slots	23.59	23.50	23.57	24.50	17.59	17.50	17.57	18.50
EDGE 3 Tx slots	22.46	22.37	22.55	23.50	18.20	18.11	18.29	19.24
EDGE 4 Tx slots	20.04	20.01	20.10	21.00	17.04	17.01	17.10	18.00

Band	Ant0 Default Power			Tune-up Limit (dBm)	Ant0 Default Power			Tune-up Limit (dBm)	Ant0 Default Power			Tune-up Limit (dBm)	
	WCDMA I				WCDMA IV				WCDMA V				
TX Channel	9282	9400	9538		1312	1413	1513		4132	4182	4233		
Rx Channel	9682	9800	9938		1537	1638	1738		4357	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	24.15	24.19	24.16	25.00	24.10	24.21	24.13	25.00	23.74	23.94	23.94	25.00
3GPP Rel 99	RMC 12.2Kbps	24.16	24.24	24.18	25.00	24.12	24.23	24.14	25.00	23.76	23.99	23.96	25.00
3GPP Rel 6	HSDPA Subtest-1	23.22	23.19	23.34	24.00	23.40	23.51	23.31	24.00	23.02	23.06	23.03	24.00
3GPP Rel 6	HSDPA Subtest-2	23.19	23.23	23.34	24.00	23.35	23.43	23.29	24.00	22.62	23.04	23.03	24.00
3GPP Rel 6	HSDPA Subtest-3	22.68	22.74	22.84	23.50	22.84	22.95	22.82	23.50	22.50	22.51	22.55	23.50
3GPP Rel 6	HSDPA Subtest-4	22.67	22.71	22.43	23.50	22.86	23.00	22.80	23.50	22.61	22.55	22.51	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.91	22.98	23.08	24.00	23.07	23.17	23.00	24.00	22.78	22.85	22.78	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.90	23.03	23.03	24.00	23.14	23.11	23.05	24.00	23.38	22.76	22.69	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.98	22.52	22.61	23.50	22.51	22.70	22.50	23.50	22.26	22.27	22.24	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.41	22.38	22.11	23.50	22.60	22.68	22.51	23.50	22.29	22.21	22.30	23.50
3GPP Rel 6	HSUPA Subtest-1	22.37	22.44	22.17	24.00	22.37	22.50	22.15	24.00	22.38	22.37	22.17	24.00
3GPP Rel 6	HSUPA Subtest-2	21.19	21.20	21.31	22.00	21.34	21.40	21.32	22.00	21.00	21.01	20.98	22.00
3GPP Rel 6	HSUPA Subtest-3	22.21	22.13	22.34	23.00	22.36	22.44	22.26	23.00	22.00	21.98	22.06	23.00
3GPP Rel 6	HSUPA Subtest-4	21.23	21.19	21.30	22.00	21.30	21.42	21.28	22.00	20.99	20.98	20.83	22.00
3GPP Rel 6	HSUPA Subtest-5	23.20	23.20	23.30	24.00	23.12	23.40	23.30	24.00	23.00	23.00	23.10	24.00



Band 2 (1900MHz Band) Ant0 Default Power Part 24

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (Power Mch, Ch, Freq, Ch, Freq), Turn-up (dB), MPR (dB). Rows include QPSK, 16QAM, 64QAM, 256QAM for various frequencies and power levels.

Band 4 (AWS Band) Ant0 Default Power Part 27 (Only on channel required)

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (Power Mch, Ch, Freq, Ch, Freq), Turn-up (dB), MPR (dB). Rows include QPSK, 16QAM, 64QAM, 256QAM for various frequencies and power levels.

Band 5 (Cellular Band) Ant0 Default Power Part 28(Only on channel required)

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (Power Mch, Ch, Freq, Ch, Freq), Turn-up (dB), MPR (dB). Rows include QPSK, 16QAM, 64QAM, 256QAM for various frequencies and power levels.

Band 7 (2600MHz Band) Ant0 Default Power Part 27

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (Power Mch, Ch, Freq, Ch, Freq), Turn-up (dB), MPR (dB). Rows include QPSK, 16QAM, 64QAM, 256QAM for various frequencies and power levels.



Ant1 Default Power								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	199	251		128	199	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)								
GSM 1 Tx slot	32.19	32.05	32.03	33.50	23.19	23.05	23.03	24.50
GPRS 1 Tx slot	32.18	32.02	32.01	33.50	23.18	23.02	23.01	24.50
GPRS 2 Tx slots	29.45	29.25	29.24	30.00	23.45	23.25	23.24	24.00
GPRS 3 Tx slots	28.03	28.05	27.79	29.50	23.77	23.79	23.53	25.24
GPRS 4 Tx slots	26.45	26.25	26.17	27.50	23.45	23.25	23.17	24.50
EDGE 1 Tx slot	25.08	25.13	25.00	26.00	16.08	16.13	16.00	17.00
EDGE 2 Tx slots	23.52	23.49	23.63	25.00	17.52	17.49	17.63	19.00
EDGE 3 Tx slots	22.48	22.35	22.65	24.00	18.22	18.09	18.39	19.74
EDGE 4 Tx slots	20.35	20.25	20.48	22.00	17.35	17.25	17.48	19.00

Ant1 Default Power					
Band	WCDMA V			Tune-up Limit (dBm)	
	4132	4182	4233		
TX Channel	4357	4407	4458		
Rx Channel					
Frequency (MHz)	826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	23.72	23.77	23.71	25.00
3GPP Rel 99	RM 12.2Kbps	23.78	23.79	23.75	25.00
3GPP Rel 6	HSDPA Subtest-1	22.67	22.96	22.81	24.00
3GPP Rel 6	HSDPA Subtest-2	22.55	22.94	22.97	24.00
3GPP Rel 6	HSDPA Subtest-3	22.41	22.41	22.44	23.50
3GPP Rel 6	HSDPA Subtest-4	22.51	22.52	22.50	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.73	22.78	22.73	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.25	22.66	22.68	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.15	22.23	22.10	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.16	22.19	22.25	23.50
3GPP Rel 6	HSUPA Subtest-1	22.36	22.23	22.04	24.00
3GPP Rel 6	HSUPA Subtest-2	20.91	21.01	20.92	22.00
3GPP Rel 6	HSUPA Subtest-3	21.97	21.94	22.04	23.00
3GPP Rel 6	HSUPA Subtest-4	20.92	20.98	20.83	22.00
3GPP Rel 6	HSUPA Subtest-5	22.86	22.87	23.04	24.00



Band 2 (1900MHz Band) Ant1 Default Power Part 24E

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (Ch/Freq), Power (H/Freq), Power (L/Freq), Turn-up (dB), MPR (dB). Rows include various frequency bands and modulation schemes.

Band 4 (AWS Band) Ant1 Default Power Part 24E (only on channel required)

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (Ch/Freq), Power (H/Freq), Power (L/Freq), Turn-up (dB), MPR (dB). Rows include various frequency bands and modulation schemes.

Band 5 (Cellular Band) Ant1 Default Power Part 22H (only on channel required)

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (Ch/Freq), Power (H/Freq), Power (L/Freq), Turn-up (dB), MPR (dB). Rows include various frequency bands and modulation schemes.

Band 7 (2600MHz Band) Ant1 Default Power Part 27

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (Ch/Freq), Power (H/Freq), Power (L/Freq), Turn-up (dB), MPR (dB). Rows include various frequency bands and modulation schemes.



MPT

Band 38(only on channel required) Ant1 Default Power

Table with columns: 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). Rows include various modulation schemes like QPSK, 16QAM, 64QAM, 256QAM, and 5G NR configurations.

Band 38(only on channel required) PC2 Ant1 Default Power

Table with columns: 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). Rows include various modulation schemes like QPSK, 16QAM, 64QAM, 256QAM, and 5G NR configurations.

Band 41 (2.6G Band) Ant1 Default Power

Table with columns: 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). Rows include various modulation schemes like QPSK, 16QAM, 64QAM, 256QAM, and 5G NR configurations.



Reduced Power Mode for WWAN

GSM850	Anti0 DS12 Power							
	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8	824.2	836.4	848.8		
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8		
GSM 1 Tx slot	32.26	32.56	32.73	33.50	23.26	23.56	23.73	24.50
GPRS 1 Tx slot	32.25	32.53	32.72	33.50	23.25	23.53	23.72	24.50
GPRS 2 Tx slots	29.34	29.23	29.27	30.00	23.34	23.23	23.27	24.00
GPRS 3 Tx slots	28.11	28.28	28.26	29.50	23.85	24.02	24.00	25.24
GPRS 4 Tx slots	26.52	26.32	26.27	27.50	23.52	23.32	23.27	24.50
EDGE 1 Tx slot	25.70	25.84	25.89	27.00	16.70	16.84	16.89	18.00
EDGE 2 Tx slots	23.82	23.95	24.02	25.00	17.92	17.95	18.02	19.00
EDGE 3 Tx slots	22.77	22.75	22.77	24.00	18.51	18.49	18.51	19.74
EDGE 4 Tx slots	20.69	20.72	20.73	22.00	17.69	17.72	17.73	19.00

GSM1900	Anti0 DS12 Power							
	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8	1850.2	1880	1909.8		
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8		
GSM 1 Tx slot	30.05	30.06	29.96	30.50	21.05	21.06	20.96	21.50
GPRS 1 Tx slot	30.04	30.05	29.93	30.50	21.04	21.05	20.93	21.50
GPRS 2 Tx slots	26.82	26.35	26.68	27.50	20.82	20.35	20.68	21.50
GPRS 3 Tx slots	25.33	25.35	25.19	26.50	21.07	21.09	20.93	22.24
GPRS 4 Tx slots	23.19	23.24	22.78	24.00	20.19	20.24	19.78	21.00
EDGE 1 Tx slot	25.11	25.03	25.21	26.50	16.11	16.03	16.21	17.50
EDGE 2 Tx slots	23.59	23.50	23.57	24.50	17.59	17.50	17.57	18.50
EDGE 3 Tx slots	22.46	22.37	22.55	23.50	18.20	18.11	18.29	19.24
EDGE 4 Tx slots	20.04	20.01	20.10	21.00	17.04	17.01	17.10	18.00

Band	TX Channel	Rx Channel	Frequency (MHz)	Anti0 DS12 Power				Anti0 DS12 Power				Anti0 DS12 Power				Tune-up Limit (dBm)
				WCDMA I			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
				9262	9400	9538		1312	1413	1513		4132	4182	4233		
				1852.4	1880	1907.6		1537	1638	1738		4357	4407	4468		
								1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps			24.15	24.19	24.16	25.00	24.10	24.21	24.13	25.00	23.74	23.94	23.94	25.00	
3GPP Rel 99	RMC 12.2Kbps			24.16	24.24	24.18	25.00	24.12	24.23	24.14	25.00	23.76	23.99	23.96	25.00	
3GPP Rel 6	HSDPA Subtest-1			23.22	23.19	23.34	24.00	23.40	23.51	23.31	24.00	23.02	23.06	23.03	24.00	
3GPP Rel 6	HSDPA Subtest-2			23.19	23.23	23.34	24.00	23.35	23.43	23.29	24.00	22.62	23.04	23.03	24.00	
3GPP Rel 6	HSDPA Subtest-3			22.68	22.74	22.84	23.50	22.84	22.95	22.82	23.50	22.50	22.51	22.55	23.50	
3GPP Rel 6	HSDPA Subtest-4			22.67	22.71	22.43	23.50	22.86	23.00	22.80	23.50	22.61	22.55	22.51	23.50	
3GPP Rel 8	DC-HSDPA Subtest-1			22.91	22.98	23.06	24.00	23.07	23.17	23.00	24.00	22.78	22.86	22.78	24.00	
3GPP Rel 8	DC-HSDPA Subtest-2			22.90	23.03	23.03	24.00	23.14	23.11	23.05	24.00	22.38	22.76	22.69	24.00	
3GPP Rel 8	DC-HSDPA Subtest-3			22.38	22.52	22.61	23.50	22.51	22.70	22.50	23.50	22.26	22.27	22.24	23.50	
3GPP Rel 8	DC-HSDPA Subtest-4			22.41	22.38	22.11	23.50	22.60	22.68	22.51	23.50	22.29	22.21	22.30	23.50	
3GPP Rel 6	HSUPA Subtest-1			22.37	22.44	22.17	24.00	22.37	22.50	22.15	24.00	22.38	22.37	22.17	24.00	
3GPP Rel 6	HSUPA Subtest-2			21.19	21.20	21.31	22.00	21.34	21.40	21.32	22.00	21.00	21.01	20.98	22.00	
3GPP Rel 6	HSUPA Subtest-3			22.21	22.13	22.34	23.00	22.36	22.44	22.26	23.00	22.00	21.98	22.06	23.00	
3GPP Rel 6	HSUPA Subtest-4			21.23	21.19	21.30	22.00	21.30	21.42	21.28	22.00	20.99	20.98	20.83	22.00	
3GPP Rel 6	HSUPA Subtest-5			23.20	23.20	23.30	24.00	23.12	23.40	23.30	24.00	23.00	23.00	23.10	24.00	

		Ant1 DS12 Power			Frame-Average Power (dBm)			Tune-up Limit (dBm)
GSM850		Burst Average Power (dBm)			129	189	251	
TX Channel		128	189	251	Tune-up Limit (dBm)			
Frequency (MHz)		824.2	836.4	848.8	824.2	836.4	848.8	
GSM 1 Tx slot		31.81	31.79	31.70	32.50	22.81	22.79	22.70
GPRS 1 Tx slot		31.95	31.92	31.78	32.50	22.95	22.92	22.78
GPRS 2 Tx slots		28.17	28.11	28.04	29.50	22.17	22.11	22.04
GPRS 3 Tx slots		26.65	26.57	26.46	27.70	22.39	22.31	22.20
GPRS 4 Tx slots		25.11	25.29	25.19	26.50	22.11	22.29	22.19
EDGE 1 Tx slot		25.45	25.39	25.44	26.00	16.45	16.39	16.44
EDGE 2 Tx slots		23.75	23.82	23.77	25.00	17.75	17.82	17.77
EDGE 3 Tx slots		22.52	22.54	22.48	24.00	18.26	18.28	19.22
EDGE 4 Tx slots		20.48	20.57	20.48	22.00	17.48	17.57	17.48

		Ant1 DS12 Power			Tune-up Limit (dBm)
Band		WCDMA V			
TX Channel		4132	4182	4233	
Rx Channel		4357	4407	4458	
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2kbps	23.86	23.71	23.77	24.50
3GPP Rel 99	RMG 12.2kbps	23.87	23.70	23.74	24.50
3GPP Rel 6	HSDPA Subtest-1	22.71	22.79	22.73	24.50
3GPP Rel 6	HSDPA Subtest-2	22.73	22.85	22.80	24.50
3GPP Rel 6	HSDPA Subtest-3	22.19	22.33	22.32	24.00
3GPP Rel 6	HSDPA Subtest-4	22.20	22.30	22.31	24.00
3GPP Rel 8	DC-HSDPA Subtest-1	22.62	22.57	22.53	24.50
3GPP Rel 8	DC-HSDPA Subtest-2	22.62	22.70	22.60	24.50
3GPP Rel 8	DC-HSDPA Subtest-3	22.09	22.15	22.18	24.00
3GPP Rel 8	DC-HSDPA Subtest-4	22.05	22.11	22.02	24.00
3GPP Rel 6	HSUPA Subtest-1	22.68	22.79	22.74	24.50
3GPP Rel 6	HSUPA Subtest-2	20.70	20.75	20.72	22.50
3GPP Rel 6	HSUPA Subtest-3	21.71	21.73	21.77	23.50
3GPP Rel 6	HSUPA Subtest-4	20.63	20.77	20.75	22.50
3GPP Rel 6	HSUPA Subtest-5	22.70	22.80	22.69	24.50

Ant1 DS12 Simultaneous Power

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		129	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	29.17	29.13	29.12	30.50	20.17	20.13	20.12	21.50
GPRS 1 Tx slot	29.29	29.18	29.13	30.50	20.29	20.18	20.13	21.50
GPRS 2 Tx slots	26.41	26.34	26.23	27.50	20.41	20.34	20.23	21.50
GPRS 3 Tx slots	24.62	24.51	24.45	25.70	20.36	20.25	20.19	21.44
GPRS 4 Tx slots	23.19	23.39	23.21	24.50	20.19	20.39	20.21	21.50
EDGE 1 Tx slot	25.00	25.08	25.11	26.00	16.00	16.08	16.11	17.00
EDGE 2 Tx slots	23.30	23.43	23.46	25.00	17.30	17.43	17.46	19.00
EDGE 3 Tx slots	22.12	22.14	22.18	24.00	17.86	17.88	17.92	19.74
EDGE 4 Tx slots	20.13	20.12	20.16	22.00	17.13	17.12	17.16	19.00

Ant1 DS12 Simultaneous Power

Band TX Channel	WCDMA V			Tune-up Limit (dBm)
	4132	4182	4233	
Rx Channel	4357	4407	4458	
Frequency (MHz)	826.4	838.4	848.6	
3GPP Rel 99 AMR 12.2kbps	22.69	22.84	22.81	23.50
3GPP Rel 99 RMC 12.2kbps	22.71	22.90	22.83	23.50
3GPP Rel 6 HSDPA Subtest-1	21.73	21.79	21.81	22.50
3GPP Rel 6 HSDPA Subtest-2	21.70	21.68	21.78	22.50
3GPP Rel 6 HSDPA Subtest-3	21.21	21.30	21.26	22.00
3GPP Rel 6 HSDPA Subtest-4	21.26	21.21	21.24	22.00
3GPP Rel 6 DC-HSDPA Subtest-1	21.50	21.67	21.49	22.50
3GPP Rel 6 DC-HSDPA Subtest-2	21.42	21.57	21.59	22.50
3GPP Rel 6 DC-HSDPA Subtest-3	20.99	21.17	21.02	22.00
3GPP Rel 6 DC-HSDPA Subtest-4	21.08	21.03	21.06	22.00
3GPP Rel 6 HSUPA Subtest-1	21.70	21.78	21.85	22.50
3GPP Rel 6 HSUPA Subtest-2	19.66	19.75	19.72	20.50
3GPP Rel 6 HSUPA Subtest-3	20.61	20.77	20.73	21.50
3GPP Rel 6 HSUPA Subtest-4	19.67	19.73	19.71	20.50
3GPP Rel 6 HSUPA Subtest-5	21.61	21.77	21.69	22.50



Band 25 (1900MHz Band) Ant1 DS12 Simultaneous Power Part 24E

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (MHz, Ch./Freq., High, Low), Tune-up (dB), MPR (dB). Contains multiple channels of frequency and power data.

Band 26 for FCC Ant1 DS12 Simultaneous Power (only on channel required)

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (MHz, Ch./Freq., High, Low), Tune-up (dB), MPR (dB). Contains multiple channels of frequency and power data.

Band 66 Ant1 DS12 Simultaneous Power

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (MHz, Ch./Freq., High, Low), Tune-up (dB), MPR (dB). Contains multiple channels of frequency and power data.



AnTD DS3 Power								
GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.26	32.56	32.73	33.50	23.26	23.56	23.73	24.50
GPRS 1 Tx slot	32.25	32.53	32.72	33.50	23.25	23.53	23.72	24.50
GPRS 2 Tx slots	29.34	29.23	29.27	30.00	23.34	23.23	23.27	24.00
GPRS 3 Tx slots	28.47	28.28	28.08	29.00	24.21	24.02	23.82	24.74
GPRS 4 Tx slots	26.92	26.73	26.48	27.50	23.92	23.73	23.48	24.50
EDGE 1 Tx slot	25.70	25.64	25.69	27.00	16.70	16.64	16.69	18.00
EDGE 2 Tx slots	23.92	23.95	24.02	25.00	17.92	17.95	18.02	19.00
EDGE 3 Tx slots	22.77	22.75	22.77	24.00	18.51	18.49	18.51	19.74
EDGE 4 Tx slots	20.69	20.72	20.73	22.00	17.69	17.72	17.73	19.00

AnTD DS3 Power								
GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	27.01	26.84	27.01	27.70	18.01	17.84	18.01	18.70
GPRS 1 Tx slot	27.03	26.90	27.23	27.70	18.03	17.90	18.23	18.70
GPRS 2 Tx slots	23.84	24.00	23.72	24.70	17.84	18.00	17.72	18.70
GPRS 3 Tx slots	20.96	21.00	20.82	21.90	16.70	16.74	16.96	17.64
GPRS 4 Tx slots	20.22	20.24	20.11	21.70	17.22	17.24	17.11	18.70
EDGE 1 Tx slot	25.11	25.03	25.21	26.50	16.11	16.03	16.21	17.50
EDGE 2 Tx slots	23.59	23.50	23.57	24.50	17.59	17.50	17.57	18.50
EDGE 3 Tx slots	21.06	21.07	21.05	21.90	16.80	16.81	16.79	17.64
EDGE 4 Tx slots	20.04	20.01	20.10	21.00	17.04	17.01	17.10	18.00

AnTD DS3 Power											
Band	WCDMA II	WCDMA IV	WCDMA V	Tune-up Limit (dBm)	WCDMA V					Tune-up Limit (dBm)	
					9262	9400	9538	4132	4162		4233
TX Channel	9262	9400	9538		1312	1443	1513		4132	4162	4233
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4488
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1759.6		826.4	836.4	846.6
3GPP Rel 99 AMR 12.2Kbps	18.16	18.03	18.19	19.60	18.27	18.32	18.13	19.20	23.38	23.41	23.35
3GPP Rel 99 RMC 12.2Kbps	18.21	18.33	18.18	19.60	18.26	18.33	18.19	19.20	23.46	23.59	23.54
3GPP Rel 6 HSDPA Subtest-1	17.23	17.25	17.35	18.60	17.47	17.69	17.43	19.20	22.61	22.63	22.63
3GPP Rel 6 HSDPA Subtest-2	17.24	17.22	17.33	18.60	17.44	17.31	17.42	19.20	22.13	22.15	22.13
3GPP Rel 6 HSDPA Subtest-3	16.74	16.75	16.85	18.10	16.95	17.17	16.95	18.70	22.08	22.16	22.14
3GPP Rel 6 HSDPA Subtest-4	16.76	16.71	16.83	18.10	16.96	17.11	16.94	18.70	22.32	22.48	22.56
3GPP Rel 8 DC-HSDPA Subtest-1	17.13	16.93	17.08	18.60	17.39	17.44	17.33	19.20	22.31	22.47	22.33
3GPP Rel 8 DC-HSDPA Subtest-2	17.15	17.03	17.13	18.60	17.36	17.38	17.33	19.20	22.01	22.04	21.92
3GPP Rel 8 DC-HSDPA Subtest-3	16.52	16.61	16.71	18.10	16.78	16.91	16.75	18.70	21.80	21.94	21.90
3GPP Rel 8 DC-HSDPA Subtest-4	16.54	16.53	16.58	18.10	16.77	17.02	16.74	18.70	22.60	22.56	22.62
3GPP Rel 6 HSUPA Subtest-1	17.23	17.18	17.30	18.60	17.46	17.58	17.44	19.20	20.59	20.58	20.57
3GPP Rel 6 HSUPA Subtest-2	15.22	15.21	15.26	16.60	15.48	15.59	15.42	17.20	21.64	21.53	21.55
3GPP Rel 6 HSUPA Subtest-3	16.22	16.13	16.21	17.60	16.45	16.68	16.47	18.20	20.65	20.49	20.61
3GPP Rel 6 HSUPA Subtest-4	15.21	15.18	15.34	16.60	15.51	15.68	15.46	17.20	20.64	20.51	20.60
3GPP Rel 6 HSUPA Subtest-5	17.30	17.32	17.40	18.60	17.46	17.57	17.50	19.20	22.64	22.51	22.60



GSM650 TX Channel	Ant1 DSS Power			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	Burst/Average Power (dBm)				129	189	251	
	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	824.2	836.4	848.8	33.50	23.19	23.05	23.03	24.50
GSM 1 Tx slot	32.19	32.05	32.03	33.50	23.19	23.05	23.03	24.50
GPRS 1 Tx slot	32.18	32.02	32.01	33.50	23.18	23.02	23.01	24.50
GPRS 2 Tx slots	29.45	29.25	29.24	30.00	23.45	23.25	23.24	24.00
GPRS 3 Tx slots	28.03	28.05	27.79	29.50	23.77	23.79	23.53	25.24
GPRS 4 Tx slots	26.45	26.25	26.17	27.50	23.45	23.25	23.17	24.50
EDGE 1 Tx slot	25.08	25.13	25.00	26.00	16.08	16.13	16.00	17.00
EDGE 2 Tx slots	23.52	23.49	23.63	25.00	17.52	17.49	17.63	19.00
EDGE 3 Tx slots	22.49	22.35	22.65	24.00	18.22	18.09	18.39	19.74
EDGE 4 Tx slots	20.35	20.25	20.48	22.00	17.35	17.25	17.48	19.00

Band TX Channel	Ant1 DSS Power			Tune-up Limit (dBm)
	WCDMA V			
	4132	4182	4233	
Rx Channel	4357	4407	4458	
Frequency (MHz)	826.4	836.4	846.6	
3GPP Rel 99 AMR 12.2kbps	23.72	23.77	23.71	25.00
3GPP Rel 99 RMC 12.2kbps	23.78	23.70	23.75	25.00
3GPP Rel 6 HSDPA Subtest-1	22.67	22.96	22.91	24.00
3GPP Rel 6 HSDPA Subtest-2	22.55	22.94	22.97	24.00
3GPP Rel 6 HSDPA Subtest-3	22.41	22.41	22.44	23.50
3GPP Rel 6 HSDPA Subtest-4	22.51	22.52	22.50	23.50
3GPP Rel 6 DC-HSDPA Subtest-1	22.73	22.78	22.73	24.00
3GPP Rel 8 DC-HSDPA Subtest-2	22.25	22.66	22.68	24.00
3GPP Rel 8 DC-HSDPA Subtest-3	22.15	22.23	22.10	23.50
3GPP Rel 8 DC-HSDPA Subtest-4	22.16	22.19	22.25	23.50
3GPP Rel 6 HSUPA Subtest-1	22.36	22.23	22.04	24.00
3GPP Rel 6 HSUPA Subtest-2	20.91	21.01	20.92	22.00
3GPP Rel 6 HSUPA Subtest-3	21.97	21.94	22.04	23.00
3GPP Rel 6 HSUPA Subtest-4	20.92	20.98	20.83	22.00
3GPP Rel 6 HSUPA Subtest-5	22.86	22.87	23.04	24.00



Band 7 Ant1 DS3 Power

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power High Ch / Freq, Power Mid Ch / Freq, Tune-up (dB), MPR (dB). Contains 26 sub-headers and multiple rows of power data for various modulation types like QPSK, 16QAM, etc.

Band 12 Ant1 DS3 Power

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power High Ch / Freq, Power Mid Ch / Freq, Tune-up (dB), MPR (dB). Contains 26 sub-headers and multiple rows of power data for various modulation types like QPSK, 16QAM, etc.

Band 13 Ant1 DS3 Power

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power High Ch / Freq, Power Mid Ch / Freq, Tune-up (dB), MPR (dB). Contains 26 sub-headers and multiple rows of power data for various modulation types like QPSK, 16QAM, etc.

Band 17 Ant1 DS3 Power

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power High Ch / Freq, Power Mid Ch / Freq, Tune-up (dB), MPR (dB). Contains 26 sub-headers and multiple rows of power data for various modulation types like QPSK, 16QAM, etc.



Ant0 DS13 Simultaneous Power

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.90	31.77	31.62	32.50	22.90	22.77	22.62	23.50
GPRS 1 Tx slot	31.87	31.73	31.57	32.50	22.87	22.73	22.57	23.50
GPRS 2 Tx slots	28.62	28.43	28.81	29.50	22.62	22.43	22.81	23.50
GPRS 3 Tx slots	26.81	26.91	26.69	27.70	22.55	22.65	22.43	23.44
GPRS 4 Tx slots	25.21	25.37	25.18	26.50	22.21	22.37	22.18	23.50
EDGE 1 Tx slot	25.70	25.64	25.69	27.00	16.70	16.64	16.69	18.00
EDGE 2 Tx slots	23.92	23.95	24.02	25.00	17.92	17.95	18.02	19.00
EDGE 3 Tx slots	22.77	22.75	22.77	24.00	18.51	18.49	18.51	19.74
EDGE 4 Tx slots	20.69	20.72	20.73	22.00	17.69	17.72	17.73	19.00

Ant0 DS13 Simultaneous Power

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	21.92	21.57	21.54	23.50	12.92	12.57	12.54	14.50
GPRS 1 Tx slot	21.82	21.61	21.63	23.50	12.82	12.61	12.63	14.50
GPRS 2 Tx slots	19.29	19.13	19.25	20.50	13.29	13.13	13.25	14.50
GPRS 3 Tx slots	17.47	17.28	17.55	18.70	13.21	13.02	13.29	14.44
GPRS 4 Tx slots	16.48	16.69	16.51	17.50	13.48	13.69	13.51	14.50
EDGE 1 Tx slot	22.37	22.25	22.34	23.50	13.37	13.25	13.34	14.50
EDGE 2 Tx slots	19.26	19.29	19.35	20.50	13.26	13.29	13.35	14.50
EDGE 3 Tx slots	17.42	17.36	17.55	18.70	13.16	13.10	13.29	14.44
EDGE 4 Tx slots	16.04	15.89	16.13	17.50	13.04	12.89	13.13	14.50

Ant0 DS13 Simultaneous Power

Band	Ant0 DS13 Simultaneous Power				Ant0 DS13 Simultaneous Power				Ant0 DS13 Simultaneous Power			
	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
Tx Channel	9682	9460	9538		1312	1413	1513		4132	4462	4233	
Rx Channel	9682	9800	9938	1537	1638	1738	4357	4407	4468			
Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1759.6	836.4	836.4	846.6			
3GPP Rel 99 AMR 12.2Kbps	14.62	14.37	14.59	16.00	15.14	15.21	15.13	16.10	22.13	22.21	22.24	23.50
3GPP Rel 99 RMC 12.2Kbps	14.59	14.63	14.42	16.00	15.15	15.27	15.09	16.10	22.25	22.35	22.30	23.50
3GPP Rel 6 HSDPA Subtest-1	13.76	13.73	13.83	16.00	14.38	14.50	14.32	16.10	21.16	21.15	21.16	23.50
3GPP Rel 6 HSDPA Subtest-2	13.79	13.72	13.81	16.00	14.13	14.52	14.30	16.10	21.14	21.09	21.19	23.50
3GPP Rel 6 HSDPA Subtest-3	13.27	13.18	13.33	15.50	13.90	14.00	13.83	15.60	20.64	20.60	20.68	23.00
3GPP Rel 6 HSDPA Subtest-4	13.20	13.23	13.41	15.50	13.87	13.98	13.81	15.60	20.59	20.65	20.71	23.00
3GPP Rel 8 DC-HSDPA Subtest-1	13.55	13.52	13.54	16.00	14.27	14.36	14.11	16.10	21.06	20.90	20.84	23.50
3GPP Rel 8 DC-HSDPA Subtest-2	13.85	13.41	13.51	16.00	14.11	14.42	14.18	16.10	21.02	21.00	20.96	23.50
3GPP Rel 8 DC-HSDPA Subtest-3	13.15	12.97	13.17	15.50	13.77	13.69	13.74	15.60	20.51	20.45	20.60	23.00
3GPP Rel 8 DC-HSDPA Subtest-4	12.88	13.11	13.32	15.50	13.77	13.83	13.63	15.60	20.50	20.47	20.41	23.00
3GPP Rel 6 HSUPA Subtest-1	13.54	13.61	13.58	16.00	14.34	14.25	14.16	16.10	21.16	21.17	21.18	23.50
3GPP Rel 6 HSUPA Subtest-2	11.49	11.33	11.31	14.00	13.33	13.46	13.24	14.10	19.06	19.13	19.16	21.50
3GPP Rel 6 HSUPA Subtest-3	12.30	12.34	12.26	15.00	13.39	13.29	13.34	15.10	20.26	20.17	20.13	22.50
3GPP Rel 6 HSUPA Subtest-4	11.21	11.16	11.29	14.00	13.32	13.52	13.28	14.10	19.06	19.16	19.17	21.50
3GPP Rel 6 HSUPA Subtest-5	13.62	13.56	13.59	16.00	14.24	14.16	14.30	16.10	21.22	21.17	21.36	23.50



Ant1 DS13 Simultaneous Power

GSM650	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		129	188	251	
TX Channel	824.2	836.4	848.8	32.60	824.2	836.4	848.8	23.60
Frequency (MHz)	31.85	31.78	31.73	32.60	22.85	22.78	22.73	23.60
GSM 1 Tx slot	31.82	31.64	31.61	32.60	22.82	22.64	22.61	23.60
GPRS 2 Tx slots	28.93	28.79	28.76	29.60	22.93	22.79	22.76	23.60
GPRS 3 Tx slots	27.05	27.19	27.15	27.80	22.79	22.93	22.89	23.54
GPRS 4 Tx slots	25.45	25.68	25.55	26.60	22.45	22.68	22.55	23.60
EDGE 1 Tx slot	25.08	25.13	25.00	26.00	16.08	16.13	16.00	17.00
EDGE 2 Tx slots	23.52	23.49	23.63	25.00	17.52	17.49	17.63	19.00
EDGE 3 Tx slots	22.49	22.35	22.65	24.00	18.22	18.09	18.39	19.74
EDGE 4 Tx slots	20.35	20.25	20.48	22.00	17.35	17.25	17.48	19.00

Ant1 DS13 Simultaneous Power

Band	WCDMA V			Tune-up Limit (dBm)
	4132	4182	4233	
TX Channel	4357	4407	4458	
Rx Channel	826.4	836.4	846.6	
Frequency (MHz)				
3GPP Rel 99	AMR 12.2Kbps	22.01	22.16	22.15
3GPP Rel 99	RMC 12.2Kbps	22.06	22.20	22.17
3GPP Rel 6	HSDPA Subtest-1	21.10	21.27	21.24
3GPP Rel 6	HSDPA Subtest-2	21.13	21.19	21.26
3GPP Rel 6	HSDPA Subtest-3	20.64	20.75	20.79
3GPP Rel 6	HSDPA Subtest-4	20.60	20.77	20.83
3GPP Rel 8	DC-HSDPA Subtest-1	20.95	20.96	21.00
3GPP Rel 8	DC-HSDPA Subtest-2	20.83	20.93	21.05
3GPP Rel 8	DC-HSDPA Subtest-3	20.45	20.56	20.55
3GPP Rel 8	DC-HSDPA Subtest-4	20.30	20.63	20.67
3GPP Rel 8	HSUPA Subtest-1	21.00	21.07	21.14
3GPP Rel 6	HSUPA Subtest-2	19.11	19.26	19.29
3GPP Rel 6	HSUPA Subtest-3	20.10	20.13	20.23
3GPP Rel 6	HSUPA Subtest-4	19.13	19.21	19.25
3GPP Rel 6	HSUPA Subtest-5	21.01	21.08	21.05



Ant0 DS16 Power								
GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.26	32.56	32.73	33.50	23.26	23.56	23.73	24.50
GPRS 1 Tx slot	32.25	32.53	32.72	33.50	23.25	23.53	23.72	24.50
GPRS 2 Tx slots	29.34	29.23	29.27	30.00	23.34	23.23	23.27	24.00
GPRS 3 Tx slots	28.11	28.28	28.26	29.50	23.85	24.02	24.00	25.24
GPRS 4 Tx slots	26.52	26.32	26.27	27.50	23.52	23.32	23.27	24.50
EDGE 1 Tx slot	25.70	25.64	25.69	27.00	16.70	16.64	16.69	18.00
EDGE 2 Tx slots	23.92	23.95	24.02	25.00	17.92	17.95	18.02	19.00
EDGE 3 Tx slots	22.77	22.75	22.77	24.00	18.51	18.49	18.51	19.74
EDGE 4 Tx slots	20.69	20.72	20.73	22.00	17.69	17.72	17.73	19.00

Ant0 DS16 Power								
GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	30.05	30.06	29.96	30.50	21.05	21.06	20.96	21.50
GPRS 1 Tx slot	30.04	30.05	29.93	30.50	21.04	21.05	20.93	21.50
GPRS 2 Tx slots	26.82	26.35	26.66	27.50	20.82	20.35	20.66	21.50
GPRS 3 Tx slots	24.95	25.07	24.90	26.00	20.69	20.81	20.64	21.74
GPRS 4 Tx slots	23.21	23.32	23.28	24.00	20.21	20.32	20.28	21.00
EDGE 1 Tx slot	25.11	25.03	25.21	26.50	16.11	16.03	16.21	17.50
EDGE 2 Tx slots	23.59	23.50	23.57	24.50	17.59	17.50	17.57	18.50
EDGE 3 Tx slots	22.46	22.37	22.55	23.50	18.20	18.11	18.29	19.24
EDGE 4 Tx slots	20.04	20.01	20.10	21.00	17.04	17.01	17.10	18.00

Band	Ant0 DS16 Power				Ant0 DS16 Power				Ant0 DS16 Power			
	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
Tx Channel	9682	9460	9538		1312	1413	1513		4132	4162	4233	
Rx Channel	9682	9800	9938		1537	1638	1738		4357	4407	4468	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1759.6		836.4	836.4	846.6	
3GPP Rel 99 AMR 12.2Kbps	20.18	20.22	20.15	21.20	20.67	20.75	20.55	21.80	23.74	23.94	23.94	25.00
3GPP Rel 99 RMC 12.2Kbps	20.19	20.25	20.21	21.20	20.71	20.77	20.61	21.80	23.76	23.99	23.96	25.00
3GPP Rel 6 HSDPA Subtest-1	19.23	19.26	19.35	20.20	19.88	19.93	19.78	20.80	23.02	23.06	23.03	24.00
3GPP Rel 6 HSDPA Subtest-2	19.25	18.89	19.28	20.20	19.87	19.92	19.75	20.80	22.62	23.04	23.03	24.00
3GPP Rel 6 HSDPA Subtest-3	18.75	18.66	18.85	19.70	19.38	19.44	19.28	20.30	22.50	22.51	22.55	23.50
3GPP Rel 6 HSDPA Subtest-4	18.74	18.68	18.48	19.70	19.37	19.44	19.24	20.30	22.61	22.55	22.51	23.50
3GPP Rel 8 DC-HSDPA Subtest-1	18.99	18.96	19.17	20.20	19.67	19.84	19.46	20.80	22.78	22.85	22.78	24.00
3GPP Rel 8 DC-HSDPA Subtest-2	19.13	18.79	19.18	20.20	19.57	19.69	19.68	20.80	22.38	22.76	22.89	24.00
3GPP Rel 8 DC-HSDPA Subtest-3	18.51	18.36	18.56	19.70	19.06	19.29	19.00	20.30	22.26	22.27	22.24	23.50
3GPP Rel 8 DC-HSDPA Subtest-4	18.47	18.39	18.38	19.70	19.14	19.19	19.14	20.30	22.29	22.21	22.30	23.50
3GPP Rel 6 HSUPA Subtest-1	19.21	19.18	19.35	20.20	19.83	19.92	19.76	20.80	22.38	22.37	22.17	24.00
3GPP Rel 6 HSUPA Subtest-2	17.16	17.24	17.26	18.20	17.82	17.96	17.72	18.80	21.00	21.01	20.98	22.00
3GPP Rel 6 HSUPA Subtest-3	18.14	18.13	18.27	19.20	18.85	18.93	18.74	19.80	22.00	21.98	22.06	23.00
3GPP Rel 6 HSUPA Subtest-4	17.22	17.17	17.31	18.20	17.68	17.89	17.76	18.80	20.99	20.98	20.83	22.00
3GPP Rel 6 HSUPA Subtest-5	19.19	19.20	19.28	20.20	19.79	19.85	19.80	20.80	23.00	23.00	23.10	24.00



Band 38(only on channel required) Ant0 DSI6 Power

Table with columns: BW (MHz), Modulation, Channel Frequency (MHz), RB Size, RB Offset, Power Low Ch./Freq, Power Middle Ch./Freq, Power High Ch./Freq, Tune-up limit (dBm), MPR (dB). Rows include various modulation schemes like QPSK, 16QAM, 64QAM, 256QAM, and 5G NR.

Band 38(only on channel required) PC2 Ant0 DSI6 Power

Table with columns: BW (MHz), Modulation, Channel Frequency (MHz), RB Size, RB Offset, Power Low Ch./Freq, Power Middle Ch./Freq, Power High Ch./Freq, Tune-up limit (dBm), MPR (dB). Rows include various modulation schemes like QPSK, 16QAM, 64QAM, 256QAM, and 5G NR.

Band 41 (2.6G Band) Ant0 DSI6 Power

Table with columns: BW (MHz), Modulation, Channel Frequency (MHz), RB Size, RB Offset, Power Low Ch./Freq, Power Middle Ch./Freq, Power High Ch./Freq, Tune-up limit (dBm), MPR (dB). Rows include various modulation schemes like QPSK, 16QAM, 64QAM, 256QAM, and 5G NR.

Ant1 DS16 Power								
GSM650 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		129	188	251	
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8		
GSM 1 Tx slot	32.19	32.05	32.03	33.50	23.19	23.05	23.03	24.50
GPRS 1 Tx slots	32.18	32.02	32.01	33.50	23.18	23.02	23.01	24.50
GPRS 2 Tx slots	29.45	29.25	29.24	30.00	23.45	23.25	23.24	24.00
GPRS 3 Tx slots	28.03	28.05	27.79	29.50	23.77	23.79	23.53	25.24
GPRS 4 Tx slots	26.45	26.25	26.17	27.50	23.45	23.25	23.17	24.50
EDGE 1 Tx slot	25.08	25.13	25.00	26.00	16.08	16.13	16.00	17.00
EDGE 2 Tx slots	23.52	23.49	23.63	25.00	17.52	17.49	17.63	19.00
EDGE 3 Tx slots	22.49	22.35	22.65	24.00	18.22	18.09	18.39	19.74
EDGE 4 Tx slots	20.35	20.25	20.48	22.00	17.35	17.25	17.48	19.00

Ant1 DS16 Power				
Band TX Channel	WCDMA V			Tune-up Limit (dBm)
	4132	4182	4233	
Rx Channel	4357	4407	4458	
Frequency (MHz)	826.4	838.4	850.6	
3GPP Rel 99 AMR 12.2kbps	23.72	23.77	23.71	25.00
3GPP Rel 99 RMC 12.2kbps	23.78	23.70	23.75	25.00
3GPP Rel 6 HSDPA Subtest-1	22.67	22.96	22.91	24.00
3GPP Rel 6 HSDPA Subtest-2	22.55	22.94	22.97	24.00
3GPP Rel 6 HSDPA Subtest-3	22.41	22.41	22.44	23.50
3GPP Rel 6 HSDPA Subtest-4	22.51	22.52	22.50	23.50
3GPP Rel 6 DC-HSDPA Subtest-1	22.73	22.78	22.73	24.00
3GPP Rel 8 DC-HSDPA Subtest-2	22.25	22.66	22.68	24.00
3GPP Rel 8 DC-HSDPA Subtest-3	22.15	22.23	22.10	23.50
3GPP Rel 8 DC-HSDPA Subtest-4	22.16	22.19	22.25	23.50
3GPP Rel 6 HSUPA Subtest-1	22.36	22.23	22.04	24.00
3GPP Rel 6 HSUPA Subtest-2	20.91	21.01	20.92	22.00
3GPP Rel 6 HSUPA Subtest-3	21.97	21.94	22.04	23.00
3GPP Rel 6 HSUPA Subtest-4	20.92	20.98	20.83	22.00
3GPP Rel 6 HSUPA Subtest-5	22.86	22.87	23.04	24.00



SPECTRUM LAB

Band 38(only on channel required) Ant1 DS1E Power

Table with columns: BW (MHz), Modulation, Channel Frequency (MHz), RB Size, RB Offset, Power Low Ch / Freq, Power Middle Ch / Freq, Power High Ch / Freq, Tune-up limit (dBm), MPR (dB). Rows include various modulation types like QPSK, 16QAM, 64QAM, 256QAM at different channel frequencies.

Band 38(only on channel required) PC2 Ant1 DS1E Power

Table with columns: BW (MHz), Modulation, Channel Frequency (MHz), RB Size, RB Offset, Power Low Ch / Freq, Power Middle Ch / Freq, Power High Ch / Freq, Tune-up limit (dBm), MPR (dB). Rows include various modulation types like QPSK, 16QAM, 64QAM, 256QAM at different channel frequencies.

Band 41 (2.6G Band) Ant1 DS1E Power

Table with columns: BW (MHz), Modulation, Channel Frequency (MHz), RB Size, RB Offset, Power Low Ch / Freq, Power Middle Ch / Freq, Power High Ch / Freq, Tune-up limit (dBm), MPR (dB). Rows include various modulation types like QPSK, 16QAM, 64QAM, 256QAM at different channel frequencies.



Band 42 (3.5GHz Band) Ant2 DS16 Power											
BW (MHz)	Multicarrier	RB Size	RB Offset	Power Ch. 1 (F/Freq)	Power Ch. 2 (F/Freq)	Power Ch. 3 (F/Freq)	Power Ch. 4 (F/Freq)	Power Ch. 5 (F/Freq)	Power Ch. 6 (F/Freq)	Power Ch. 7 (F/Freq)	Power Ch. 8 (F/Freq)
Channel Frequency (MHz)											
20	OFDM	1	0	19.24	19.52	19.80					
20	OFDM	1	6	19.25	19.53	19.81	20.8	0			
20	OFDM	1	12	19.25	19.53	19.81					
20	OFDM	5	0	19.24	19.52	19.80	20.8	0			
20	OFDM	5	6	19.25	19.53	19.81					
20	OFDM	5	12	19.25	19.53	19.81					
20	OFDM	10	0	19.24	19.52	19.80	20.8	0			
20	OFDM	10	6	19.25	19.53	19.81					
20	OFDM	10	12	19.25	19.53	19.81					
20	OFDM	20	0	19.24	19.52	19.80	20.8	0			
20	OFDM	20	6	19.25	19.53	19.81					
20	OFDM	20	12	19.25	19.53	19.81					
20	OFDM	40	0	19.24	19.52	19.80	20.8	0			
20	OFDM	40	6	19.25	19.53	19.81					
20	OFDM	40	12	19.25	19.53	19.81					
20	OFDM	80	0	19.24	19.52	19.80	20.8	0			
20	OFDM	80	6	19.25	19.53	19.81					
20	OFDM	80	12	19.25	19.53	19.81					
20	OFDM	160	0	19.24	19.52	19.80	20.8	0			
20	OFDM	160	6	19.25	19.53	19.81					
20	OFDM	160	12	19.25	19.53	19.81					
Channel Frequency (MHz)											
15	OFDM	1	0	19.23	19.51	19.79					
15	OFDM	1	6	19.24	19.52	19.80	20.8	0			
15	OFDM	1	12	19.24	19.52	19.80					
15	OFDM	5	0	19.23	19.51	19.79	20.8	0			
15	OFDM	5	6	19.24	19.52	19.80					
15	OFDM	5	12	19.24	19.52	19.80					
15	OFDM	10	0	19.23	19.51	19.79	20.8	0			
15	OFDM	10	6	19.24	19.52	19.80					
15	OFDM	10	12	19.24	19.52	19.80					
15	OFDM	20	0	19.23	19.51	19.79	20.8	0			
15	OFDM	20	6	19.24	19.52	19.80					
15	OFDM	20	12	19.24	19.52	19.80					
15	OFDM	40	0	19.23	19.51	19.79	20.8	0			
15	OFDM	40	6	19.24	19.52	19.80					
15	OFDM	40	12	19.24	19.52	19.80					
15	OFDM	80	0	19.23	19.51	19.79	20.8	0			
15	OFDM	80	6	19.24	19.52	19.80					
15	OFDM	80	12	19.24	19.52	19.80					
Channel Frequency (MHz)											
10	OFDM	1	0	19.23	19.51	19.79					
10	OFDM	1	6	19.24	19.52	19.80	20.8	0			
10	OFDM	1	12	19.24	19.52	19.80					
10	OFDM	5	0	19.23	19.51	19.79	20.8	0			
10	OFDM	5	6	19.24	19.52	19.80					
10	OFDM	5	12	19.24	19.52	19.80					
10	OFDM	10	0	19.23	19.51	19.79	20.8	0			
10	OFDM	10	6	19.24	19.52	19.80					
10	OFDM	10	12	19.24	19.52	19.80					
10	OFDM	20	0	19.23	19.51	19.79	20.8	0			
10	OFDM	20	6	19.24	19.52	19.80					
10	OFDM	20	12	19.24	19.52	19.80					
10	OFDM	40	0	19.23	19.51	19.79	20.8	0			
10	OFDM	40	6	19.24	19.52	19.80					
10	OFDM	40	12	19.24	19.52	19.80					
10	OFDM	80	0	19.23	19.51	19.79	20.8	0			
10	OFDM	80	6	19.24	19.52	19.80					
10	OFDM	80	12	19.24	19.52	19.80					
Channel Frequency (MHz)											
5	OFDM	1	0	19.23	19.51	19.79					
5	OFDM	1	6	19.24	19.52	19.80	20.8	0			
5	OFDM	1	12	19.24	19.52	19.80					
5	OFDM	5	0	19.23	19.51	19.79	20.8	0			
5	OFDM	5	6	19.24	19.52	19.80					
5	OFDM	5	12	19.24	19.52	19.80					
5	OFDM	10	0	19.23	19.51	19.79	20.8	0			
5	OFDM	10	6	19.24	19.52	19.80					
5	OFDM	10	12	19.24	19.52	19.80					
5	OFDM	20	0	19.23	19.51	19.79	20.8	0			
5	OFDM	20	6	19.24	19.52	19.80					
5	OFDM	20	12	19.24	19.52	19.80					
5	OFDM	40	0	19.23	19.51	19.79	20.8	0			
5	OFDM	40	6	19.24	19.52	19.80					
5	OFDM	40	12	19.24	19.52	19.80					
5	OFDM	80	0	19.23	19.51	19.79	20.8	0			
5	OFDM	80	6	19.24	19.52	19.80					
5	OFDM	80	12	19.24	19.52	19.80					
Channel Frequency (MHz)											
5	OFDM	1	0	19.23	19.51	19.79					
5	OFDM	1	6	19.24	19.52	19.80	20.8	0			
5	OFDM	1	12	19.24	19.52	19.80					
5	OFDM	5	0	19.23	19.51	19.79	20.8	0			
5	OFDM	5	6	19.24	19.52	19.80					
5	OFDM	5	12	19.24	19.52	19.80					
5	OFDM	10	0	19.23	19.51	19.79	20.8	0			
5	OFDM	10	6	19.24	19.52	19.80					
5	OFDM	10	12	19.24	19.52	19.80					
5	OFDM	20	0	19.23	19.51	19.79	20.8	0			
5	OFDM	20	6	19.24	19.52	19.80					
5	OFDM	20	12	19.24	19.52	19.80					
5	OFDM	40	0	19.23	19.51	19.79	20.8	0			
5	OFDM	40	6	19.24	19.52	19.80					
5	OFDM	40	12	19.24	19.52	19.80					
5	OFDM	80	0	19.23	19.51	19.79	20.8	0			
5	OFDM	80	6	19.24	19.52	19.80					
5	OFDM	80	12	19.24	19.52	19.80					
Channel Frequency (MHz)											
5	OFDM	1	0	19.23	19.51	19.79					
5	OFDM	1	6	19.24	19.52	19.80	20.8	0			
5	OFDM	1	12	19.24	19.52	19.80					
5	OFDM	5	0	19.23	19.51	19.79	20.8	0			
5	OFDM	5	6	19.24	19.52	19.80					
5	OFDM	5	12	19.24	19.52	19.80					
5	OFDM	10	0	19.23	19.51	19.79	20.8	0			
5	OFDM	10	6	19.24	19.52	19.80					
5	OFDM	10	12	19.24	19.52	19.80					
5	OFDM	20	0	19.23	19.51	19.79	20.8	0			
5	OFDM	20	6	19.24	19.52	19.80					
5	OFDM	20	12	19.24	19.52	19.80					
5	OFDM	40	0	19.23	19.51	19.79	20.8	0			
5	OFDM	40	6	19.24	19.52	19.80					
5	OFDM	40	12	19.24	19.52	19.80					
5	OFDM	80	0	19.23	19.51	19.79	20.8	0			
5	OFDM	80	6	19.24	19.52	19.80					
5	OFDM	80	12	19.24	19.52	19.80					

Band 42 Part2Q Ant2 DS16 Power											
BW (MHz)	Multicarrier	RB Size	RB Offset	Power Ch. 1 (F/Freq)	Power Ch. 2 (F/Freq)	Power Ch. 3 (F/Freq)	Power Ch. 4 (F/Freq)	Power Ch. 5 (F/Freq)	Power Ch. 6 (F/Freq)	Power Ch. 7 (F/Freq)	Power Ch. 8 (F/Freq)
Channel Frequency (MHz)											
20	OFDM	1	0	19.21	19.49	19.77					
20	OFDM	1	6	19.22	19.50	19.78	20.8	0			
20	OFDM	1	12	19.22	19.50	19.78					
20	OFDM	5	0	19.21	19.49	19.77	20.8	0			
20	OFDM	5	6	19.22	19.50	19.78					
20	OFDM	5	12	19.22	19.50	19.78					
20	OFDM	10	0	19.21	19.49	19.77	20.8	0			
20	OFDM	10	6	19.22	19.50	19.78					
20	OFDM	10	12	19.22	19.50	1					

Ant1 DS16 Simultaneous Power

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8	1850.2	1880	1909.8		
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8		
GSM 1 Tx slot	29.11	29.15	29.13	29.70	20.11	20.15	20.13	20.70
GPRS 1 Tx slot	29.09	29.14	29.11	29.70	20.09	20.14	20.11	20.70
GPRS 2 Tx slots	26.11	26.14	26.23	26.70	20.11	20.14	20.23	20.70
GPRS 3 Tx slots	23.56	23.66	23.41	24.90	19.30	19.40	19.15	20.64
GPRS 4 Tx slots	22.29	22.38	22.33	23.70	19.29	19.38	19.33	20.70
EDGE 1 Tx slot	25.11	25.03	25.21	26.50	18.11	18.03	18.21	17.50
EDGE 2 Tx slots	23.59	23.50	23.57	24.50	17.59	17.50	17.57	18.50
EDGE 3 Tx slots	22.46	22.37	22.55	23.50	18.20	18.11	18.29	19.24
EDGE 4 Tx slots	20.04	20.01	20.10	21.00	17.04	17.01	17.10	18.00

Ant1 DS16 Simultaneous Power

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513	
TX Channel	9662	9600	9638	1537	1638	1738		
Rx Channel	9662	9600	9638	1537	1638	1738		
Frequency (MHz)	1852.4	1880	1907.6	1722.4	1732.6	1752.8		
3GPP Rel 99 AMR 12.2Kbps	18.60	18.69	18.68	19.67	19.77	19.57	20.80	
3GPP Rel 99 RMC 12.2Kbps	18.63	18.72	18.69	19.66	19.76	19.60	20.80	
3GPP Rel 6 HSDPA Subtest-1	17.45	17.46	17.55	18.70	18.69	18.79	18.59	
3GPP Rel 6 HSDPA Subtest-2	17.52	17.51	17.64	18.70	18.70	18.72	18.52	
3GPP Rel 6 HSDPA Subtest-3	16.98	16.89	17.10	18.20	18.18	18.22	18.03	
3GPP Rel 6 HSDPA Subtest-4	16.96	16.93	17.09	18.20	18.19	18.23	18.08	
3GPP Rel 6 DC-HSDPA Subtest-1	17.24	17.20	17.45	18.70	18.60	18.59	18.32	
3GPP Rel 8 DC-HSDPA Subtest-2	17.41	17.35	17.54	18.70	18.54	18.46	18.41	
3GPP Rel 8 DC-HSDPA Subtest-3	16.80	16.71	16.81	18.20	18.02	18.11	17.94	
3GPP Rel 8 DC-HSDPA Subtest-4	16.72	16.71	16.92	18.20	18.09	18.02	17.81	
3GPP Rel 6 HSUPA Subtest-1	17.49	17.47	17.61	18.70	18.59	18.72	18.54	
3GPP Rel 6 HSUPA Subtest-2	15.51	15.41	15.63	16.70	16.62	16.76	16.48	
3GPP Rel 6 HSUPA Subtest-3	16.40	16.51	16.57	17.70	17.63	17.65	17.51	
3GPP Rel 6 HSUPA Subtest-4	15.49	15.44	15.51	16.70	16.67	16.70	16.52	
3GPP Rel 6 HSUPA Subtest-5	17.50	17.47	17.53	18.70	18.62	18.76	18.55	



Band 2 Ant0 DS16 Simultaneous Power											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Power Ch./Freq.	Tune-up (dB)	MFR (dB)			
Channel											
20	QPSK	1	0	20.77	20.89	20.84			22	0	
20	QPSK	1	49	20.83	20.95	20.90					
20	QPSK	1	99	20.89	21.01	20.96					
20	QPSK	50	0	20.75	20.84	20.83					
20	QPSK	24	0	20.83	20.95	20.90					
20	QPSK	50	50	20.76	20.78	20.81			22	0	
20	QPSK	100	0	20.79	20.80	20.83					
20	HQAM	1	0	20.71	20.85	20.86					
20	HQAM	1	49	20.86	20.90	20.79			22	0	
20	HQAM	1	99	20.72	20.83	20.77					
20	HQAM	50	0	20.78	20.78	20.82					
20	HQAM	50	24	20.87	20.99	20.84			22	0	
20	HQAM	50	50	20.71	20.79	20.75					
20	HQAM	100	0	20.78	20.85	20.84					
20	HQAM	1	0	20.69	20.58	20.73					
20	HQAM	1	49	20.67	20.64	20.78			22	0	
20	HQAM	1	99	20.76	20.78	20.89					
20	HQAM	50	0	20.75	20.78	20.85					
20	HQAM	50	24	20.68	20.68	20.46			22	0	
20	HQAM	50	24	20.78	20.78	20.89					
20	HQAM	100	0	20.70	20.72	20.89					
20	ZSSBAM	1	0	19.11	19.21	19.19			20	2	
20	ZSSBAM	1	49	19.11	19.21	19.19					
20	ZSSBAM	1	99	19.10	19.24	19.09					
20	ZSSBAM	50	0	19.28	19.38	19.28					
20	ZSSBAM	50	24	19.24	19.21	19.20			20	2	
20	ZSSBAM	50	50	19.19	19.18	18.99					
20	ZSSBAM	100	0	19.18	19.18	18.99					
Channel											
15	QPSK	1	0	20.89	20.87	20.74			22	0	
15	QPSK	1	37	20.86	20.81	20.81					
15	QPSK	1	74	20.48	20.62	20.60					
15	QPSK	36	0	20.89	20.72	20.40			22	0	
15	QPSK	20	0	20.73	20.68	20.60					
15	QPSK	36	36	20.72	20.72	20.40					
15	HQAM	75	0	20.68	20.78	20.49					
15	HQAM	1	0	20.68	20.68	20.48					
15	HQAM	1	37	20.62	20.58	20.74			22	0	
15	HQAM	1	74	20.64	20.67	20.71					
15	HQAM	36	20	20.61	20.45	20.54			22	0	
15	HQAM	36	36	20.56	20.52	20.52					
15	HQAM	75	0	20.71	20.39	20.57					
15	HQAM	1	0	20.44	20.50	20.58			22	0	
15	HQAM	1	37	20.41	20.41	20.58					
15	HQAM	1	74	20.73	20.64	20.58					
15	HQAM	36	0	20.73	20.69	20.49			22	0	
15	HQAM	36	36	20.64	20.69	20.49					
15	HQAM	75	0	20.57	20.64	20.52					
15	ZSSBAM	1	0	19.04	19.14	19.07			20	2	
15	ZSSBAM	1	37	19.03	19.13	19.07					
15	ZSSBAM	1	74	19.03	19.14	18.95					
15	ZSSBAM	36	20	19.04	19.18	18.94					
15	ZSSBAM	36	36	19.04	19.13	18.95			20	2	
15	ZSSBAM	75	0	19.03	19.09	18.94					
15	ZSSBAM	75	0	19.05	19.07	18.94					
Channel											
10	QPSK	1	0	20.73	20.69	20.81			22	0	
10	QPSK	1	25	20.73	20.69	20.81					
10	QPSK	1	49	20.64	20.62	20.73					
10	QPSK	25	0	20.73	20.69	20.81					
10	QPSK	25	12	20.78	20.74	20.82			22	0	
10	QPSK	25	25	20.62	20.73	20.48					
10	HQAM	75	0	20.73	20.69	20.81					
10	HQAM	1	0	20.67	20.62	20.48					
10	HQAM	1	25	20.68	20.60	20.74			22	0	
10	HQAM	1	49	20.68	20.68	20.81					
10	HQAM	25	0	20.67	20.71	20.58					
10	HQAM	25	12	20.43	20.48	20.53			22	0	
10	HQAM	25	25	20.68	20.69	20.68					
10	HQAM	50	0	20.67	20.48	20.53					
10	HQAM	1	0	20.44	20.49	20.71			22	0	
10	HQAM	1	25	20.52	20.52	20.81					
10	HQAM	1	49	20.64	20.76	20.81					
10	HQAM	25	0	20.73	20.65	20.46			22	0	
10	HQAM	25	12	20.67	20.67	20.68					
10	HQAM	25	25	20.76	20.71	20.58					
10	ZSSBAM	1	0	20.67	20.59	20.83					
10	ZSSBAM	1	25	19.06	19.15	19.18			20	2	
10	ZSSBAM	1	49	19.06	19.14	19.02					
10	ZSSBAM	50	0	19.07	19.21	19.05					
10	ZSSBAM	50	12	19.09	19.08	19.15			20	2	
10	ZSSBAM	25	25	19.13	19.08	18.93					
10	ZSSBAM	50	0	19.11	19.07	19.21					
Channel											
5	QPSK	1	0	20.72	20.70	20.70			22	0	
5	QPSK	1	12	20.62	20.75	20.70					
5	QPSK	1	24	20.61	20.59	20.69					
5	QPSK	12	0	20.71	20.69	20.69					
5	QPSK	12	7	20.81	20.73	20.59			22	0	
5	QPSK	12	13	20.63	20.75	20.56					
5	HQAM	1	0	20.73	20.71	20.81					
5	HQAM	1	0	20.66	20.63	20.50			22	0	
5	HQAM	1	12	20.61	20.57	20.70					
5	HQAM	12	13	20.73	20.65	20.68					
5	HQAM	12	0	20.70	20.62	20.69			22	0	
5	HQAM	12	7	20.42	20.48	20.53					
5	HQAM	12	13	20.73	20.65	20.68					
5	HQAM	25	0	20.85	20.49	20.54			22	0	
5	HQAM	1	0	20.48	20.45	20.60			22	0	
5	HQAM	1	12	20.63	20.63	20.71					
5	HQAM	1	24	20.72	20.73	20.54					
5	HQAM	12	0	20.68	20.69	20.45			22	0	
5	HQAM	12	7	20.53	20.57	20.69					
5	HQAM	12	13	20.85	20.75	20.58			22	0	
5	HQAM	25	0	20.67	20.62	20.64					
5	ZSSBAM	1	0	19.04	19.21	19.05					
5	ZSSBAM	1	12	19.06	19.18	19.11			20	2	
5	ZSSBAM	1	24	19.02	19.14	18.96					
5	ZSSBAM	12	0	19.05	19.16	19.20					
5	ZSSBAM	12	7	19.09	19.12	19.17			20	2	
5	ZSSBAM	12	13	19.06	19.03	18.97					
5	ZSSBAM	25	0	19.15	19.08	19.17			20	2	
Channel											
3	QPSK	1	0	20.74	20.81	20.73			22	0	
3	QPSK	1	8	20.67	20.89	20.82					
3	QPSK	1	14	20.59	20.69	20.72					
3	QPSK	8	0	20.68	20.69	20.44					
3	QPSK	8	4	20.81	20.74	20.63			22	0	
3	QPSK	8	7	20.73	20.65	20.47					
3	HQAM	15	0	20.70	20.68	20.63					
3	HQAM	1	0	20.65	20.61	20.45			22	0	
3	HQAM	1	8	20.62	20.47	20.78					
3	HQAM	1	14	20.69	20.68	20.71					
3	HQAM	8	4	20.47	20.48	20.65			22	0	
3	HQAM	8	7	20.74	20.63	20.73					
3	HQAM	15	0	20.73	20.48	20.50					
3	HQAM	1	0	20.61	20.49	20.71			22	0	
3	HQAM	1	8	20.60	20.57	20					



Band 25 Ant0 DS16 Simultaneous Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Med Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dB)	MPE (dB)		
Channel										
				1860	1880	1900				
20	QPSK	1	0	20.78	21.52	20.88				
20	QPSK	1	49	20.80	20.77	20.82	22	0		
20	QPSK	50	0	20.64	20.88	20.67				
20	QPSK	50	24	20.85	20.75	20.81				
20	QPSK	50	50	20.78	20.89	20.83	22	0		
20	QPSK	100	0	20.69	20.82	20.78				
20	HQAM	1	0	20.58	20.73	20.65				
20	HQAM	1	49	20.72	20.82	20.78	22	0		
20	HQAM	1	99	20.87	20.72	20.81				
20	HQAM	50	0	20.79	20.81	20.79				
20	HQAM	50	24	20.58	20.77	20.81				
20	HQAM	50	50	20.86	20.86	20.73	22	0		
20	HQAM	100	0	20.64	20.75	20.67				
20	HQAM	1	0	20.74	20.72	20.68				
20	HQAM	1	49	20.58	20.76	20.86	22	0		
20	HQAM	1	99	20.79	20.71	20.75				
20	HQAM	50	0	20.72	20.64	20.65				
20	HQAM	50	24	20.61	20.78	20.86				
20	HQAM	50	50	20.63	20.99	20.58	22	0		
20	HQAM	100	0	20.67	20.59	20.72				
20	SSBQAM	1	0	19.49	19.49	19.86				
20	SSBQAM	1	49	19.17	19.32	19.27	20	2		
20	SSBQAM	1	99	19.26	19.28	19.17				
20	SSBQAM	50	0	19.27	19.33	19.22				
20	SSBQAM	50	24	19.11	19.23	19.25	20	2		
20	SSBQAM	50	50	19.20	19.06	19.19				
20	SSBQAM	100	0	19.23	19.18	19.19				

Channel										
				187.6	189.0	190.5	Tune-up limit (dB)	MPE (dB)		
15	QPSK	1	0	20.88	20.83	20.69				
15	QPSK	1	37	20.78	20.70	20.71	22	0		
15	QPSK	1	74	20.79	20.84	20.82				
15	QPSK	36	0	20.87	20.82	20.80				
15	QPSK	36	20	20.78	20.88	20.81	22	0		
15	QPSK	36	36	20.88	20.71	20.73				
15	HQAM	1	0	20.69	20.78	20.74				
15	HQAM	1	74	20.65	20.79	20.82	22	0		
15	HQAM	1	37	20.74	20.48	20.72				
15	HQAM	36	0	20.89	20.79	20.76				
15	HQAM	36	20	20.58	20.80	20.67	22	0		
15	HQAM	36	36	20.47	20.78	20.71				
15	HQAM	75	0	20.45	20.67	20.82				
15	HQAM	1	0	20.69	20.74	20.59	22	0		
15	HQAM	1	37	20.44	20.77	20.73				
15	HQAM	1	74	20.55	20.72	20.82				
15	HQAM	36	0	20.70	20.39	20.58				
15	HQAM	36	20	20.81	20.71	20.63	22	0		
15	HQAM	36	36	20.53	20.90	20.71				
15	HQAM	75	0	20.60	20.67	20.65				
15	SSBQAM	1	0	19.15	19.33	19.21				
15	SSBQAM	1	37	19.07	19.34	19.21	20	2		
15	SSBQAM	1	74	19.26	19.21	19.11				
15	SSBQAM	36	0	19.28	19.14	19.23				
15	SSBQAM	36	20	19.07	19.14	19.24	20	2		
15	SSBQAM	36	36	19.04	18.97	19.05				
15	SSBQAM	75	0	19.15	19.15	19.13				

Channel										
				1859	1874	1889	Tune-up limit (dB)	MPE (dB)		
10	QPSK	1	0	20.80	20.84	20.71				
10	QPSK	1	25	20.84	20.84	20.88	22	0		
10	QPSK	1	49	20.65	20.80	20.79				
10	QPSK	25	0	20.69	20.79	20.81				
10	QPSK	25	12	20.78	20.71	20.74	22	0		
10	QPSK	25	25	20.75	20.71	20.86				
10	HQAM	1	0	20.55	20.69	20.58				
10	HQAM	1	25	20.56	20.80	20.68	22	0		
10	HQAM	1	49	20.69	20.70	20.73				
10	HQAM	25	0	20.66	20.78	20.80				
10	HQAM	25	12	20.51	20.75	20.75	22	0		
10	HQAM	25	25	20.47	20.75	20.71				
10	HQAM	50	0	20.40	20.77	20.59				
10	HQAM	1	0	20.68	20.83	20.56	22	0		
10	HQAM	1	25	20.83	20.74	20.81				
10	HQAM	1	49	20.73	20.67	20.72				
10	HQAM	25	0	20.67	20.66	20.66	22	0		
10	HQAM	25	12	20.83	20.80	20.83				
10	HQAM	25	25	20.83	20.62	20.74				
10	HQAM	50	0	20.67	20.58	20.62				
10	HQAM	1	0	19.22	19.25	19.20				
10	SSBQAM	1	25	19.07	19.25	19.20	20	2		
10	SSBQAM	1	49	19.27	19.24	19.18				
10	SSBQAM	25	0	19.27	19.24	19.15				
10	SSBQAM	25	12	19.09	19.32	19.11	20	2		
10	SSBQAM	25	25	19.10	19.04	19.15				
10	SSBQAM	50	0	19.17	19.08	19.07				

Channel										
				1862.5	1880	1897.5	Tune-up limit (dB)	MPE (dB)		
5	QPSK	1	0	20.68	20.85	20.81				
5	QPSK	1	12	20.78	20.83	20.77	22	0		
5	QPSK	1	24	20.78	20.82	20.81				
5	QPSK	12	0	20.69	20.75	20.81				
5	QPSK	12	7	20.76	20.78	20.59	22	0		
5	QPSK	12	13	20.71	20.55	20.69				
5	QPSK	25	0	20.62	20.76	20.74				
5	HQAM	1	0	20.65	20.58	20.63				
5	HQAM	1	12	20.73	20.55	20.78	22	0		
5	HQAM	1	24	20.51	20.75	20.71				
5	HQAM	12	0	20.65	20.83	20.77				
5	HQAM	12	7	20.66	20.76	20.81	22	0		
5	HQAM	12	13	20.81	20.68	20.72				
5	HQAM	25	0	20.39	20.78	20.69				
5	HQAM	1	0	20.74	20.60	20.52	22	0		
5	HQAM	1	12	20.62	20.73	20.81				
5	HQAM	1	24	20.73	20.84	20.68				
5	HQAM	12	0	20.65	20.53	20.65	22	0		
5	HQAM	12	7	20.69	20.80	20.49				
5	HQAM	12	13	20.43	20.47	20.69				
5	HQAM	25	0	20.69	20.50	20.66				
5	SSBQAM	1	0	19.21	19.27	19.28				
5	SSBQAM	1	12	19.12	19.27	19.14	20	2		
5	SSBQAM	1	24	19.20	19.18	19.17				
5	SSBQAM	12	0	19.20	19.23	19.12				
5	SSBQAM	12	7	19.09	19.17	19.27	20	2		
5	SSBQAM	12	13	19.11	19.02	19.10				
5	SSBQAM	25	0	19.13	19.03	19.02				

Channel										
				1865.5	1884	1899.5	Tune-up limit (dB)	MPE (dB)		
3	QPSK	1	0	20.65	20.79	20.73				
3	QPSK	1	6	20.77	20.84	20.84	22	0		
3	QPSK	1	14	20.82	20.74	20.75				
3	QPSK	6	0	20.68	20.75	20.83				
3	QPSK	6	4	20.67	20.71	20.72	22	0		
3	QPSK	6	7	20.65	20.81	20.82				
3	QPSK	15	0	20.61	20.77	20.82				
3	HQAM	1	0	20.69	20.74	20.58	22	0		
3	HQAM	1	6	20.75	20.59	20.69				
3	HQAM	1	14	20.60	20.67	20.63				
3	HQAM	6	0	20.69	20.82	20.64	22	0		
3	HQAM	6	4	20.63	20.70	20.70				
3	HQAM	6	7	20.65	20.65	20.67				
3	HQAM	15	0	20.52	20.77	20.68				
3	HQAM	1	0							



Band 41 (2.6G Band) Ant0 DS16 Simultaneous Power										
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	22.92	23.02	23.24	22.87	22.87	23.5	0
20	QPSK	1	49	23.09	23.14	23.19	23.19	23.17		
20	QPSK	1	99	23.02	23.13	23.23	22.98	23.14		
20	QPSK	50	0	22.79	22.97	23.06	22.73	22.84	23.5	0
20	QPSK	50	24	22.93	22.86	22.84	22.94	23.01		
20	QPSK	50	50	22.90	23.03	22.89	22.86	22.94		
20	QPSK	100	0	22.90	22.96	23.04	22.84	22.92	23.5	0
20	16QAM	1	0	22.83	22.81	22.86	22.60	22.71		
20	16QAM	1	49	22.89	22.93	22.86	22.64	22.67		
20	16QAM	1	99	22.84	22.89	22.88	22.79	22.86	23.5	0
20	16QAM	50	0	22.40	22.54	22.73	22.38	22.46		
20	16QAM	50	24	22.61	22.57	22.64	22.69	22.64		
20	16QAM	50	50	22.57	22.59	22.68	22.54	22.70	23.5	0
20	16QAM	100	0	22.31	22.51	22.62	22.35	22.33		
20	64QAM	1	0	22.49	22.60	22.68	22.37	22.46		
20	64QAM	1	49	22.67	22.59	22.64	22.63	22.52	23.5	0
20	64QAM	1	99	22.55	22.61	22.65	22.31	22.50		
20	64QAM	50	0	22.42	22.66	22.72	22.41	22.46		
20	64QAM	50	24	22.58	22.51	22.45	22.64	22.62	23.5	0
20	64QAM	50	50	22.60	22.72	22.54	22.46	22.65		
20	64QAM	100	0	22.59	22.66	22.67	22.54	22.62		
20	256QAM	1	0	21.63	21.61	21.92	21.59	21.66	23	0.5
20	256QAM	1	49	21.72	21.79	21.80	21.82	21.77		
20	256QAM	1	99	21.74	21.78	21.91	21.69	21.79		
20	256QAM	50	0	21.50	21.60	21.76	21.42	21.43	23	0.5
20	256QAM	50	24	21.63	21.56	21.48	21.57	21.65		
20	256QAM	50	50	21.54	21.74	21.55	21.47	21.59		
20	256QAM	100	0	21.50	21.65	21.68	21.44	21.58		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	22.88	22.90	23.13	22.79	22.74	24	0
15	QPSK	1	37	22.94	22.99	23.07	23.11	23.11		
15	QPSK	1	74	22.95	23.05	23.08	22.83	23.06		
15	QPSK	36	0	22.69	22.90	22.92	22.63	22.75	23.5	0
15	QPSK	36	20	22.81	22.82	22.76	22.78	22.87		
15	QPSK	36	39	22.77	22.93	22.77	22.79	22.91		
15	QPSK	75	0	22.79	22.83	22.91	22.75	22.81	23.5	0
15	16QAM	1	0	22.73	22.66	22.80	22.48	22.59		
15	16QAM	1	37	22.74	22.80	22.73	22.54	22.59		
15	16QAM	1	74	22.78	22.81	22.85	22.69	22.81	23.5	0
15	16QAM	36	0	22.30	22.40	22.66	22.33	22.41		
15	16QAM	36	20	22.47	22.50	22.57	22.61	22.62		
15	16QAM	36	39	22.52	22.55	22.55	22.45	22.60	23.5	0
15	16QAM	75	0	22.26	22.40	22.55	22.27	22.19		
15	64QAM	1	0	22.33	22.55	22.55	22.26	22.41		
15	64QAM	1	37	22.60	22.55	22.53	22.61	22.44	23.5	0
15	64QAM	1	74	22.46	22.50	22.54	22.22	22.37		
15	64QAM	36	0	22.34	22.59	22.65	22.33	22.38		
15	64QAM	36	20	22.48	22.42	22.43	22.59	22.51	23.5	0
15	64QAM	36	39	22.57	22.59	22.51	22.43	22.52		
15	64QAM	75	0	22.55	22.56	22.52	22.47	22.53		
15	256QAM	1	0	21.48	21.48	21.88	21.49	21.56	23	0.5
15	256QAM	1	37	21.64	21.68	21.70	21.69	21.67		
15	256QAM	1	74	21.66	21.66	21.77	21.58	21.77		
15	256QAM	36	0	21.36	21.46	21.63	21.30	21.31	23	0.5
15	256QAM	36	20	21.47	21.44	21.39	21.46	21.56		
15	256QAM	36	39	21.43	21.65	21.46	21.38	21.56		
15	256QAM	75	0	21.43	21.58	21.64	21.31	21.50		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	22.88	22.94	23.17	22.75	22.83	24	0
10	QPSK	1	25	23.02	23.07	23.04	23.08	23.05		
10	QPSK	1	49	22.96	23.04	23.12	22.86	23.02		
10	QPSK	25	0	22.64	22.84	23.00	22.67	22.73	23.5	0
10	QPSK	25	12	22.88	22.71	22.76	22.82	22.98		
10	QPSK	25	25	22.81	22.91	22.74	22.77	22.90		
10	QPSK	50	0	22.81	22.86	22.98	22.80	22.89	23.5	0
10	16QAM	1	0	22.72	22.75	22.73	22.50	22.65		
10	16QAM	1	25	22.76	22.83	22.72	22.50	22.60		
10	16QAM	1	49	22.72	22.84	22.77	22.63	22.84	23.5	0
10	16QAM	25	0	22.26	22.52	22.69	22.27	22.41		
10	16QAM	25	12	22.50	22.48	22.53	22.65	22.51		
10	16QAM	25	25	22.51	22.56	22.63	22.41	22.61	23.5	0
10	16QAM	50	0	22.21	22.39	22.53	22.22	22.20		
10	64QAM	1	0	22.44	22.50	22.59	22.29	22.36		
10	64QAM	1	25	22.63	22.46	22.54	22.60	22.43	23.5	0
10	64QAM	1	49	22.43	22.48	22.58	22.18	22.48		
10	64QAM	25	0	22.29	22.54	22.58	22.36	22.30		
10	64QAM	25	12	22.46	22.36	22.42	22.50	22.52	23.5	0
10	64QAM	25	25	22.47	22.67	22.43	22.31	22.58		
10	64QAM	50	0	22.43	22.61	22.53	22.44	22.56		
10	256QAM	1	0	21.59	21.53	21.79	21.56	21.63	23	0.5
10	256QAM	1	25	21.69	21.75	21.69	21.79	21.69		
10	256QAM	1	49	21.68	21.74	21.87	21.58	21.65		
10	256QAM	25	0	21.41	21.56	21.69	21.32	21.35	23	0.5
10	256QAM	25	12	21.55	21.54	21.45	21.50	21.62		
10	256QAM	25	25	21.51	21.65	21.46	21.34	21.54		
10	256QAM	50	0	21.36	21.58	21.56	21.32	21.43		
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	22.86	22.99	23.16	22.82	22.82	24	0
5	QPSK	1	12	22.99	23.04	23.11	23.10	23.10		
5	QPSK	1	24	22.90	23.04	23.12	22.96	23.02		
5	QPSK	12	0	22.75	22.91	22.91	22.59	22.77	23.5	0
5	QPSK	12	7	22.84	22.79	22.73	22.85	22.99		
5	QPSK	12	13	22.82	22.90	22.82	22.75	22.90		
5	QPSK	25	0	22.75	22.85	22.97	22.68	22.88	23.5	0
5	16QAM	1	0	22.77	22.70	22.74	22.45	22.62		
5	16QAM	1	12	22.80	22.83	22.74	22.53	22.62		
5	16QAM	1	24	22.69	22.85	22.83	22.63	22.78	23.5	0
5	16QAM	12	0	22.28	22.45	22.58	22.31	22.32		
5	16QAM	12	7	22.56	22.42	22.54	22.59	22.51		
5	16QAM	12	13	22.45	22.55	22.58	22.39	22.68	23.5	0
5	16QAM	25	0	22.26	22.40	22.56	22.24	22.19		
5	64QAM	1	0	22.46	22.56	22.55	22.26	22.32		
5	64QAM	1	12	22.64	22.48	22.53	22.58	22.50	23.5	0
5	64QAM	1	24	22.41	22.57	22.53	22.19	22.46		
5	64QAM	12	0	22.39	22.53	22.69	22.32	22.38		
5	64QAM	12	7	22.47	22.36	22.37	22.51	22.55	23.5	0
5	64QAM	12	13	22.55	22.58	22.49	22.31	22.51		
5	64QAM	25	0	22.51	22.50	22.57	22.39	22.54		
5	256QAM	1	0	21.56	21.50	21.79	21.44	21.63	23	0.5
5	256QAM	1	12	21.64	21.66	21.67	21.73	21.66		
5	256QAM	1	24	21.71	21.70	21.79	21.61	21.71		
5	256QAM	12	0	21.47	21.48	21.65	21.39	21.41	23	0.5
5	256QAM	12	7	21.48	21.44	21.33	21.52	21.50		
5	256QAM	12	13	21.42	21.71	21.46	21.34	21.53		
5	256QAM	25	0	21.44	21.50	21.56	21.29	21.43		



Band 2 Ant1 DS16 Simultaneous Power												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MPE (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.37	20.50	20.59						
20	QPSK	1	49	20.34	20.33	20.37			22	0		
20	QPSK	50	0	20.38	20.43	20.59						
20	QPSK	50	24	20.37	20.41	20.59						
20	QPSK	50	50	20.28	20.31	20.38			22	0		
20	QPSK	100	0	20.31	20.25	20.37						
20	HQAM	1	0	20.31	20.40	20.39						
20	HQAM	1	49	20.26	20.39	20.31			22	0		
20	HQAM	1	99	20.31	20.33	20.32						
20	HQAM	50	0	20.24	20.27	20.38						
20	HQAM	50	24	20.33	20.40	20.41			22	0		
20	HQAM	50	50	20.19	20.31	20.21						
20	HQAM	100	0	20.24	20.32	20.27						
20	HQAM	1	0	20.20	20.29	20.31						
20	HQAM	1	49	20.19	20.38	20.36			22	0		
20	HQAM	50	0	20.37	20.38	20.38						
20	HQAM	50	0	20.19	20.25	20.17						
20	HQAM	50	24	20.21	20.29	20.29						
20	HQAM	50	24	20.21	20.29	20.27			22	0		
20	HQAM	100	0	20.16	20.34	20.27						
20	HQAM	1	0	19.23	19.24	19.20						
20	HQAM	1	49	19.23	19.24	19.20			20	2		
20	HQAM	1	99	19.38	19.34	19.23						
20	HQAM	50	0	19.25	19.27	19.27						
20	HQAM	50	24	19.21	19.22	19.14						
20	HQAM	50	50	19.31	19.28	19.24			20	2		
20	HQAM	100	0	19.25	19.27	19.25						
Channel												
Frequency (MHz)												
15	QPSK	1	0	20.33	20.36	20.38						
15	QPSK	1	37	20.29	20.41	20.32			22	0		
15	QPSK	1	74	20.34	20.32	20.36						
15	QPSK	36	0	20.32	20.41	20.36						
15	QPSK	36	36	20.22	20.39	20.32						
15	QPSK	36	36	20.30	20.31	20.36			22	0		
15	QPSK	75	0	20.27	20.34	20.31						
15	HQAM	1	0	20.26	20.40	20.31						
15	HQAM	1	37	20.23	20.37	20.27			22	0		
15	HQAM	1	74	20.36	20.36	20.36						
15	HQAM	36	0	20.24	20.29	20.40						
15	HQAM	36	36	20.30	20.35	20.38			22	0		
15	HQAM	75	0	20.21	20.35	20.23						
15	HQAM	75	0	20.21	20.35	20.23						
15	HQAM	1	0	20.19	20.22	20.28						
15	HQAM	37	0	20.37	20.32	20.38			22	0		
15	HQAM	1	74	20.33	20.35	20.27						
15	HQAM	36	0	20.19	20.25	20.17						
15	HQAM	36	36	20.17	20.29	20.28						
15	HQAM	36	36	20.15	20.19	20.31			22	0		
15	HQAM	75	0	20.12	20.31	20.27						
15	HQAM	1	0	19.26	19.26	19.26						
15	HQAM	1	37	19.22	19.21	19.20			20	2		
15	HQAM	1	74	19.32	19.32	19.26						
15	HQAM	36	0	19.21	19.26	19.21						
15	HQAM	36	36	19.20	19.25	19.12						
15	HQAM	36	36	19.29	19.23	19.23			20	2		
15	HQAM	75	0	19.18	19.18	19.23						
Channel												
Frequency (MHz)												
10	QPSK	1	0	20.27	20.38	20.38						
10	QPSK	1	25	20.27	20.38	20.38			22	0		
10	QPSK	1	49	20.31	20.28	20.39						
10	QPSK	25	0	20.33	20.41	20.33						
10	QPSK	25	12	20.22	20.38	20.24						
10	QPSK	25	25	20.29	20.29	20.40			22	0		
10	HQAM	1	0	20.20	20.38	20.34						
10	HQAM	1	25	20.23	20.38	20.25			22	0		
10	HQAM	1	49	20.30	20.33	20.34						
10	HQAM	1	99	20.30	20.30	20.30						
10	HQAM	25	0	20.21	20.28	20.42						
10	HQAM	25	12	20.30	20.38	20.41			22	0		
10	HQAM	25	25	20.23	20.33	20.32						
10	HQAM	50	0	20.16	20.32	20.24						
10	HQAM	1	0	20.19	20.22	20.26						
10	HQAM	25	0	20.18	20.29	20.29			22	0		
10	HQAM	1	49	20.30	20.33	20.27						
10	HQAM	25	0	20.16	20.24	20.15						
10	HQAM	25	12	20.21	20.18	20.23						
10	HQAM	25	25	20.16	20.21	20.32			22	0		
10	HQAM	50	0	20.16	20.29	20.25						
10	HQAM	1	0	19.25	19.25	19.25						
10	HQAM	1	25	19.27	19.23	19.21			20	2		
10	HQAM	1	49	19.33	19.30	19.22						
10	HQAM	1	99	19.24	19.23	19.26						
10	HQAM	25	12	19.19	19.24	19.08						
10	HQAM	25	25	19.27	19.29	19.26			20	2		
10	HQAM	50	0	19.07	19.15	19.28						
Channel												
Frequency (MHz)												
5	QPSK	1	0	20.15	20.34	20.37						
5	QPSK	1	12	20.27	20.37	20.35			22	0		
5	QPSK	1	24	20.34	20.33	20.40						
5	QPSK	12	0	20.14	20.41	20.37						
5	QPSK	12	7	20.26	20.38	20.26						
5	QPSK	12	13	20.26	20.28	20.37						
5	HQAM	1	0	20.23	20.33	20.33						
5	HQAM	1	0	20.25	20.38	20.33			22	0		
5	HQAM	12	0	20.18	20.33	20.32						
5	HQAM	12	7	20.31	20.39	20.41			22	0		
5	HQAM	12	13	20.18	20.33	20.32						
5	HQAM	25	0	20.17	20.34	20.28						
5	HQAM	1	0	20.19	20.22	20.25						
5	HQAM	12	0	20.17	20.38	20.29			22	0		
5	HQAM	1	24	20.33	20.30	20.29						
5	HQAM	12	0	20.14	20.28	20.14						
5	HQAM	12	7	20.16	20.29	20.29						
5	HQAM	12	13	20.17	20.22	20.31			22	0		
5	HQAM	25	0	20.10	20.31	20.26						
5	HQAM	1	0	19.08	19.09	18.87						
5	HQAM	1	12	19.26	19.21	19.18			20	2		
5	HQAM	1	24	19.30	19.29	19.22						
5	HQAM	12	0	19.01	19.06	18.86						
5	HQAM	12	7	19.18	19.22	19.13						
5	HQAM	12	13	19.26	19.27	19.26			20	2		
5	HQAM	25	0	19.11	19.15	19.30						
Channel												
Frequency (MHz)												
3	QPSK	1	0	20.14	20.32	20.34						
3	QPSK	1	8	20.24	20.43	20.38			22	0		
3	QPSK	1	14	20.34	20.33	20.40						
3	QPSK	8	0	20.17	20.45	20.36						
3	QPSK	8	4	20.26	20.34	20.27						
3	QPSK	8	7	20.30	20.34	20.37			22	0		
3	HQAM	1	0	20.24	20.26	20.34						
3	HQAM	1	0	20.28	20.41	20.30			22	0		
3	HQAM	1	8	20.26	20.35	20.25						
3	HQAM	8	0	20.29	20.38	20.30						
3	HQAM	8	4	20.22	20.34	20.42			22	0		
3	HQAM	8	7	20.22	20.38	20.21						
3	HQAM	16	0	20.17	20.33	20.26						
3	HQAM	1	0	20.16	20.22	20.26						
3	HQAM	1	8	20.29	20.35	20.36			22	0		
3	HQAM	1	14	20.31	20.33	20.28						
3	HQAM	8	0	20.17	20.22	20.18						
3	HQAM	8	4	20.21	20.18	20.29						
3	HQAM	8	7	20.21	20.18	20.27			22	0		
3	HQAM	16	0	20.12	20.27	20.27						
3	HQAM	1	0	19.00	19.04	18.86						
3	HQAM	1	8	19.24	19.22	19.18			20	2		
3	HQAM	1	14	19.28	19.28	19.23						
3	HQAM	8	0	19.01	19.00	18.97						
3	HQAM	8	4	19.19	19.20	19.12						
3	HQAM	8	7	19.28	19.29	19.29			20	2		
3	HQAM	16	0	19.09	19.15	19.27						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	20.32	20.41	20.39						
1.4	QPSK	1	3	20.25	20.43	20.36						
1.4	QPSK	1	5	20.30	20.29	20.38			22	0		
1.4	QPSK											



Band 25 Ant1 DS16 Simultaneous Power													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up Limit (dB)	MPE (dB)					
Channel													
Frequency (MHz)													
20	QPSK	1	0	20.51	20.56	20.50			22	0			
20	QPSK	1	49	20.45	20.44	20.51							
20	QPSK	50	0	20.50	20.50	20.51							
20	QPSK	50	24	20.57	20.51	20.45							
20	QPSK	50	50	20.42	20.45	20.49			22	0			
20	QPSK	100	0	20.43	20.37	20.31							
20	HQAM	1	0	20.43	20.33	20.34							
20	HQAM	1	49	20.40	20.31	20.42			22	0			
20	HQAM	1	99	20.42	20.48	20.45							
20	HQAM	50	0	20.50	20.42	20.32							
20	HQAM	50	24	20.46	20.34	20.32							
20	HQAM	50	50	20.34	20.44	20.42			22	0			
20	HQAM	100	0	20.38	20.46	20.42							
20	HQAM	1	0	20.36	20.39	20.42							
20	HQAM	1	49	20.34	20.30	20.40			22	0			
20	HQAM	1	99	20.48	20.30	20.40							
20	HQAM	50	24	20.35	20.36	20.40							
20	HQAM	50	50	20.32	20.34	20.41			22	0			
20	HQAM	100	0	20.27	20.45	20.42							
20	SSBQAM	1	0	17.93	17.75	17.65							
20	SSBQAM	1	49	17.99	17.95	17.94			19	3			
20	SSBQAM	1	99	18.06	18.07	17.86							
20	SSBQAM	50	24	17.96	17.82	17.82							
20	SSBQAM	50	24	17.96	17.95	17.89			19	3			
20	SSBQAM	50	50	18.05	18.00	18.00							
20	SSBQAM	100	0	17.78	17.74	18.00							
Channel													
Frequency (MHz)													
15	QPSK	1	0	20.40	20.49	20.46			22	0			
15	QPSK	1	37	20.44	20.50	20.35							
15	QPSK	1	74	20.44	20.43	20.51							
15	QPSK	36	0	20.40	20.32	20.40							
15	QPSK	36	20	20.33	20.50	20.38			22	0			
15	QPSK	36	36	20.37	20.45	20.44							
15	HQAM	1	0	20.43	20.31	20.40							
15	HQAM	1	37	20.40	20.47	20.43			22	0			
15	HQAM	1	74	20.38	20.45	20.48							
15	HQAM	36	0	20.37	20.40	20.48							
15	HQAM	36	20	20.42	20.30	20.49			22	0			
15	HQAM	36	36	20.33	20.45	20.38							
15	HQAM	1	0	20.33	20.34	20.38							
15	HQAM	1	37	20.28	20.49	20.46			22	0			
15	HQAM	1	74	20.44	20.47	20.44							
15	HQAM	36	0	20.29	20.36	20.30							
15	HQAM	36	20	20.33	20.32	20.38			22	0			
15	HQAM	36	36	20.30	20.35	20.38							
15	HQAM	75	0	20.27	20.44	20.38							
15	SSBQAM	1	0	17.70	17.71	17.61							
15	SSBQAM	1	37	17.89	17.92	17.90			19	3			
15	SSBQAM	1	74	18.05	18.06	17.86							
15	SSBQAM	36	0	17.73	17.81	17.86							
15	SSBQAM	36	20	17.97	17.92	17.83			19	3			
15	SSBQAM	36	36	18.05	18.00	17.86							
15	SSBQAM	75	0	17.65	17.84	17.83							
Channel													
Frequency (MHz)													
10	QPSK	1	0	20.48	20.44	20.46			22	0			
10	QPSK	1	25	20.41	20.52	20.48							
10	QPSK	1	49	20.43	20.41	20.52							
10	QPSK	25	0	20.46	20.51	20.45							
10	QPSK	25	12	20.32	20.51	20.40			22	0			
10	QPSK	25	25	20.42	20.41	20.49							
10	HQAM	1	0	20.42	20.33	20.43							
10	HQAM	1	25	20.37	20.49	20.42			22	0			
10	HQAM	1	49	20.38	20.44	20.46							
10	HQAM	25	0	20.35	20.42	20.52							
10	HQAM	25	12	20.42	20.33	20.50			22	0			
10	HQAM	25	25	20.30	20.40	20.42							
10	HQAM	50	0	20.32	20.43	20.39							
10	HQAM	1	0	20.33	20.40	20.38							
10	HQAM	1	25	20.31	20.51	20.45			22	0			
10	HQAM	1	49	20.45	20.46	20.47							
10	HQAM	25	0	20.31	20.35	20.29							
10	HQAM	25	12	20.35	20.33	20.34			22	0			
10	HQAM	25	25	20.31	20.35	20.37							
10	HQAM	50	0	20.23	20.45	20.41							
10	SSBQAM	1	0	17.70	17.74	17.63							
10	SSBQAM	1	25	17.87	17.86	17.81			19	3			
10	SSBQAM	1	49	18.05	18.04	17.84							
10	SSBQAM	25	0	17.77	17.80	17.67							
10	SSBQAM	25	12	17.88	17.84	17.81			19	3			
10	SSBQAM	25	25	18.03	17.96	17.97							
10	SSBQAM	50	0	17.68	17.62	17.96							
Channel													
Frequency (MHz)													
5	QPSK	1	0	20.47	20.53	20.43			22	0			
5	QPSK	1	12	20.43	20.51	20.51							
5	QPSK	1	24	20.40	20.41	20.48							
5	QPSK	12	0	20.46	20.51	20.45							
5	QPSK	12	7	20.35	20.48	20.38			22	0			
5	QPSK	12	13	20.39	20.46	20.46							
5	QPSK	12	19	20.40	20.33	20.40							
5	HQAM	1	0	20.40	20.31	20.40							
5	HQAM	1	12	20.37	20.49	20.39			22	0			
5	HQAM	1	24	20.42	20.45	20.45							
5	HQAM	12	0	20.40	20.41	20.47							
5	HQAM	12	7	20.45	20.50	20.51			22	0			
5	HQAM	12	13	20.32	20.42	20.38							
5	HQAM	12	19	20.37	20.45	20.47							
5	HQAM	25	0	20.36	20.38	20.37			22	0			
5	HQAM	25	7	20.29	20.45	20.47							
5	HQAM	25	14	20.47	20.47	20.43							
5	HQAM	12	0	20.31	20.40	20.30			22	0			
5	HQAM	12	7	20.38	20.33	20.33							
5	HQAM	12	13	20.29	20.31	20.29							
5	HQAM	12	19	20.32	20.41	20.42			22	0			
5	SSBQAM	1	0	17.68	17.76	17.64							
5	SSBQAM	1	12	17.89	17.95	17.80			19	3			
5	SSBQAM	1	24	18.01	18.07	17.84							
5	SSBQAM	12	0	17.76	17.78	17.68							
5	SSBQAM	12	7	17.85	17.84	17.87			19	3			
5	SSBQAM	12	13	18.02	17.96	18.00							
5	SSBQAM	25	0	17.68	17.60	17.66							
Channel													
Frequency (MHz)													
3	QPSK	1	0	20.51	20.55	20.45			22	0			
3	QPSK	1	6	20.46	20.52	20.48							
3	QPSK	1	14	20.42	20.41	20.50							
3	QPSK	3	0	20.29	20.53	20.51							
3	QPSK	3	6	20.36	20.47	20.38			22	0			
3	QPSK	3	14	20.41	20.43	20.47							
3	QPSK	6	0	20.42	20.35	20.46							
3	HQAM	1	0	20.38	20.33	20.46							
3	HQAM	1	6	20.38	20.50	20.37			22	0			
3	HQAM	1	14	20.40	20.43	20.45							
3	HQAM	6	0	20.45	20.51	20.51			22	0			
3	HQAM	6	7	20.30	20.45</								



Band 38 Ant1 DS16 Simultaneous Power											
BW (MHz)	Modulation	Channel	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
		Frequency (MHz)			3760	3800	3810				
20	QPSK	1	0	0	20.35	20.51	20.32				
20	QPSK	1	49	0	20.25	20.38	20.39	21.8	0		
20	QPSK	1	99	0	20.33	20.35	20.29				
20	QPSK	50	0	0	20.25	20.30	20.32				
20	QPSK	50	24	0	20.42	20.27	20.36				
20	QPSK	50	50	0	20.39	20.41	20.26				
20	QPSK	100	0	0	20.38	20.43	20.24	21.8	0		
20	16QAM	1	0	0	20.23	20.30	20.32				
20	16QAM	1	49	0	20.38	20.39	20.30	21.8	0		
20	16QAM	1	99	0	20.42	20.41	20.36				
20	16QAM	50	0	0	20.24	20.27	20.31				
20	16QAM	50	24	0	20.38	20.32	20.27				
20	16QAM	50	50	0	20.37	20.39	20.26				
20	16QAM	100	0	0	20.38	20.34	20.39	21.8	0		
20	64QAM	1	0	0	20.21	20.32	20.29				
20	64QAM	1	49	0	20.40	20.39	20.37	21.8	0		
20	64QAM	1	99	0	20.33	20.36	20.30				
20	64QAM	50	0	0	20.25	20.23	20.31				
20	64QAM	50	24	0	20.32	20.35	20.29				
20	64QAM	50	50	0	20.26	20.28	20.36	21.8	0		
20	64QAM	100	0	0	20.34	20.37	20.23				
20	256QAM	1	0	0	20.23	20.20	20.28				
20	256QAM	1	49	0	20.48	20.44	20.36	21.8	0		
20	256QAM	1	99	0	20.36	20.35	20.29				
20	256QAM	50	0	0	20.30	20.27	20.34				
20	256QAM	50	24	0	20.33	20.32	20.26				
20	256QAM	50	50	0	20.29	20.37	20.30	21.8	0		
20	256QAM	100	0	0	20.35	20.40	20.22				
Channel											
Frequency (MHz)		3765	3800	3815				Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	0	20.33	20.46	20.28				
15	QPSK	1	37	0	20.20	20.36	20.38	21.8	0		
15	QPSK	1	74	0	20.31	20.32	20.32				
15	QPSK	36	0	0	20.32	20.35	20.32				
15	QPSK	36	20	0	20.37	20.23	20.34				
15	QPSK	36	39	0	20.34	20.37	20.22	21.8	0		
15	QPSK	75	0	0	20.37	20.39	20.28				
15	16QAM	1	0	0	20.21	20.35	20.32				
15	16QAM	1	37	0	20.33	20.33	20.23	21.8	0		
15	16QAM	1	74	0	20.39	20.27	20.35				
15	16QAM	36	0	0	20.23	20.24	20.27				
15	16QAM	36	20	0	20.40	20.37	20.35				
15	16QAM	36	39	0	20.35	20.35	20.23	21.8	0		
15	16QAM	75	0	0	20.37	20.31	20.36				
15	64QAM	1	0	0	20.15	20.20	20.21				
15	64QAM	1	37	0	20.36	20.35	20.34	21.8	0		
15	64QAM	1	74	0	20.30	20.31	20.26				
15	64QAM	36	0	0	20.23	20.22	20.29				
15	64QAM	36	20	0	20.36	20.31	20.40				
15	64QAM	36	39	0	20.32	20.24	20.31	21.8	0		
15	64QAM	75	0	0	20.31	20.33	20.20				
15	256QAM	1	0	0	20.21	20.18	20.25				
15	256QAM	1	37	0	20.32	20.33	20.25	21.8	0		
15	256QAM	36	0	0	20.26	20.24	20.33				
15	256QAM	36	20	0	20.36	20.36	20.24				
15	256QAM	36	39	0	20.27	20.28	20.24	21.8	0		
15	256QAM	75	0	0	20.33	20.36	20.21				
Channel											
Frequency (MHz)		3765	3800	3805				Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	0	20.33	20.49	20.29				
10	QPSK	1	25	0	20.22	20.35	20.34	21.8	0		
10	QPSK	1	49	0	20.29	20.31	20.27				
10	QPSK	25	0	0	20.20	20.46	20.32				
10	QPSK	25	12	0	20.38	20.25	20.33				
10	QPSK	25	25	0	20.35	20.36	20.23	21.8	0		
10	QPSK	50	0	0	20.35	20.40	20.21				
10	16QAM	1	0	0	20.20	20.28	20.29				
10	16QAM	1	25	0	20.38	20.36	20.29	21.8	0		
10	16QAM	1	49	0	20.37	20.39	20.34				
10	16QAM	25	0	0	20.21	20.25	20.26				
10	16QAM	25	12	0	20.34	20.26	20.34				
10	16QAM	25	25	0	20.33	20.37	20.25	21.8	0		
10	16QAM	50	0	0	20.36	20.30	20.35				
10	64QAM	1	0	0	20.19	20.21	20.24				
10	64QAM	1	25	0	20.22	20.45	20.32				
10	64QAM	1	49	0	20.32	20.32	20.28	21.8	0		
10	64QAM	25	0	0	20.20	20.21	20.29				
10	64QAM	25	12	0	20.34	20.34	20.31				
10	64QAM	25	25	0	20.32	20.33	20.21	21.8	0		
10	64QAM	50	0	0	20.32	20.35	20.21				
10	256QAM	1	0	0	20.22	20.16	20.27				
10	256QAM	1	25	0	20.43	20.32	20.37				
10	256QAM	1	49	0	20.34	20.31	20.27	21.8	0		
10	256QAM	25	0	0	20.25	20.25	20.29				
10	256QAM	25	12	0	20.38	20.33	20.22				
10	256QAM	25	25	0	20.27	20.34	20.26	21.8	0		
10	256QAM	50	0	0	20.32	20.38	20.18				
Channel											
Frequency (MHz)		3775	3800	3825				Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	0	20.33	20.49	20.29				
5	QPSK	1	12	0	20.23	20.34	20.36	21.8	0		
5	QPSK	1	24	0	20.28	20.34	20.27				
5	QPSK	12	0	0	20.22	20.47	20.30				
5	QPSK	12	7	0	20.38	20.23	20.34				
5	QPSK	12	13	0	20.35	20.36	20.23	21.8	0		
5	QPSK	25	0	0	20.36	20.38	20.19				
5	16QAM	1	0	0	20.21	20.27	20.30				
5	16QAM	1	12	0	20.35	20.36	20.29				
5	16QAM	1	24	0	20.39	20.38	20.33	21.8	0		
5	16QAM	12	0	0	20.19	20.25	20.28				
5	16QAM	12	7	0	20.35	20.30	20.25				
5	16QAM	12	13	0	20.36	20.37	20.21	21.8	0		
5	16QAM	25	0	0	20.37	20.31	20.36				
5	64QAM	1	0	0	20.18	20.18	20.27				
5	64QAM	1	12	0	20.39	20.36	20.35				
5	64QAM	1	24	0	20.29	20.34	20.28	21.8	0		
5	64QAM	12	0	0	20.23	20.22	20.26				
5	64QAM	12	7	0	20.35	20.34	20.21				
5	64QAM	12	13	0	20.22	20.26	20.21	21.8	0		
5	64QAM	25	0	0	20.33	20.33	20.21				
5	256QAM	1	0	0	20.20	20.17	20.25				
5	256QAM	1	12	0	20.42	20.36	20.31				
5	256QAM	1	24	0	20.32	20.33	20.26	21.8	0		
5	256QAM	12	0	0	20.26	20.22	20.30				
5	256QAM	12	7	0	20.37	20.35	20.24				
5	256QAM	12	13	0	20.25	20.34	20.28	21.8	0		
5	256QAM	25	0	0	20.33	20.35	20.17				

Band 38 PC2 Ant1 DS16 Simultaneous Power											
BW (MHz)	Modulation	Channel	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
		Frequency (MHz)			3760	3800	3810				
20	QPSK	1	0	0	22.29	22.36	22.34				
20	QPSK	1	49	0	22.31	22.27	22.17	23.4	0		
20	QPSK	1	99	0	22.64	22.31	22.22				
20	QPSK	50	0	0	22.28	22.33	22.14				
20	QPSK	50	24	0	22.17	22.13	22.27				
20	QPSK	50	50	0	22.16	22.21	22.22	23.4	0		
20	QPSK	100	0	0	22.13	22.25	22.18				
20	16QAM	1	0	0	22.02	22.11	22.12				
20	16QAM	1	49	0	22.18	22.02	22.17	23.4	0		
20	16QAM	1	99	0	22.20	22.14	22.23				
20	16QAM	50	0	0	22.14	22.13	22.23				
20	16QAM	50	24	0	22.14	22.13	22.23				
20	16QAM	50	50	0	22.16	22.17	22.24	23.4	0		
20	16QAM	100	0	0	22.14	22.13	22.18				
20	64QAM	1	0	0	22.16	22.14	22.21				
20	64QAM	1	49	0	22.19	22.14	22.08	23.4	0		
20	64QAM	1	99	0	22.25	22.18	22.11				
20	64QAM	50	0	0	21.99	22.01	22.10				
20	64QAM	50	24	0	22.02	22.05	22.12				
20	64QAM	50	50	0	22.03	22.15	22.				



Band 42 (3.5GHz Band) Ant2 DS16 Simultaneous Power

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./F.Freq., Power High Ch./F.Freq., Power Low Ch./F.Freq., Frequency Band (MHz), MPR (dB). Includes sub-headers for Channel, Frequency Bands (1-20), and Channel.

Band 42 Part2(70) Ant2 DS16 Simultaneous Power

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./F.Freq., Power High Ch./F.Freq., Power Low Ch./F.Freq., Frequency Band (MHz), MPR (dB). Includes sub-headers for Channel, Frequency Bands (1-20), and Channel.

Band 43 (3.7GHz Band) Ant2 DS16 Simultaneous Power

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./F.Freq., Power High Ch./F.Freq., Power Low Ch./F.Freq., Frequency Band (MHz), MPR (dB). Includes sub-headers for Channel, Frequency Bands (1-20), and Channel.

Band 48 FCC Ant2 DS16 Simultaneous Power

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./F.Freq., Power High Ch./F.Freq., Power Low Ch./F.Freq., Frequency Band (MHz), MPR (dB). Includes sub-headers for Channel, Frequency Bands (1-20), and Channel.

Uplink CA Power

Full Power & DSI2 & DSI6									
CA_7C Ant 0									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Intra Band UL CA Measured Power (dBm)	Non CA Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	99	1	0	23.24	23.36	24.00
21100	21298	QPSK	1	99	1	0	23.32	23.47	24.00
21350	21152	QPSK	1	0	1	99	23.36	23.41	24.00

DSI3									
CA_7C Ant 0									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Intra Band UL CA Measured Power (dBm)	Non CA Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	99	1	0	18.31	18.39	19.70
21100	21298	QPSK	1	99	1	0	18.65	18.71	19.70
21350	21152	QPSK	1	0	1	99	18.63	18.67	19.70

DSI3 Simultaneous									
CA_7C Ant 0									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Intra Band UL CA Measured Power (dBm)	Non CA Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	99	1	0	13.87	13.99	15.20
21100	21298	QPSK	1	99	1	0	14.11	14.19	15.20
21350	21152	QPSK	1	0	1	99	14.06	14.13	15.20

Full Power									
CA_7C Ant 1									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Intra Band UL CA Measured Power (dBm)	Non CA Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	99	1	0	22.25	22.39	24.00
21100	21298	QPSK	1	99	1	0	22.39	22.53	24.00
21350	21152	QPSK	1	0	1	99	22.16	22.3	24.00

DSI2									
CA_7C Ant 1									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Intra Band UL CA Measured Power (dBm)	Non CA Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	99	1	0	17.31	17.39	18.40
21100	21298	QPSK	1	99	1	0	17.35	17.41	18.40
21350	21152	QPSK	1	0	1	99	17.33	17.36	18.40

DSI3									
CA_7C Ant 1									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Intra Band UL CA Measured Power (dBm)	Non CA Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	99	1	0	18.21	18.33	19.70
21100	21298	QPSK	1	99	1	0	18.61	18.69	19.70
21350	21152	QPSK	1	0	1	99	18.61	18.63	19.70

DSI3 Simultaneous									
CA_7C Ant 1									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Intra Band UL CA Measured Power (dBm)	Non CA Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	99	1	0	15.21	15.3	16.70
21100	21298	QPSK	1	99	1	0	15.33	15.45	16.70
21350	21152	QPSK	1	0	1	99	15.31	15.39	16.70

DSI6									
CA_7C Ant 1									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Intra Band UL CA Measured Power (dBm)	Non CA Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	99	1	0	19.54	19.65	20.70
21100	21298	QPSK	1	99	1	0	19.61	19.75	20.70
21350	21152	QPSK	1	0	1	99	19.63	19.65	20.70

Downlink CA Power

2CA DL

CA List	PCC										SCC				Power	
	LTE		BW	UL		Mod.	ULF		LTE		DL	DL	With CA	Without CA		
	Band	Ant	(MHz)	Freq.	Channel		RB	Offset	Band	BW					Freq.	Channel
CA_2A-17A	Band 2	Ant0	10M	1880	18900	QPSK	1	0	Band 17	10M	740	5790	22.61	22.71		
	Band 2	Ant1	10M	1880	18900	QPSK	1	0	Band 17	10M	740	5790	21.73	22.78		
	Band 17	Ant0	10M	710	23790	QPSK	1	0	Band 2	10M	1960	900	22.85	22.88		
CA_4A-17A	Band 17	Ant1	10M	710	23790	QPSK	1	0	Band 2	10M	1960	900	22.43	22.59		
	Band 4	Ant0	10M	1732.5	20175	QPSK	1	0	Band 17	10M	740	5790	23.03	23.09		
	Band 4	Ant1	10M	1732.5	20175	QPSK	1	0	Band 17	10M	740	5790	21.93	21.97		
CA_5A-41A	Band 17	Ant0	10M	710	23790	QPSK	1	0	Band 4	10M	2132.5	2175	22.79	22.88		
	Band 17	Ant1	10M	710	23790	QPSK	1	0	Band 4	10M	2132.5	2175	22.37	22.59		
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 41	20M	2593	40620	22.79	22.86		
CA_7B	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 41	20M	2593	40620	22.19	22.33		
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	Band 5	10M	881.5	2525	23.55	23.64		
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	Band 5	10M	881.5	2525	22.45	22.98		
CA_7A-26A	Band 7	Ant0	15M	2535	21100	QPSK	1	0	Band 7	5M	2664.3	3193	23.33	23.44		
	Band 7	Ant1	15M	2535	21100	QPSK	1	0	Band 7	5M	2664.3	3193	22.57	22.67		
CA_7A-42A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	Band 26	15M	876.5	8865	23.39	23.46		
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	Band 26	15M	876.5	8865	22.68	22.71		
	Band 26	Ant0	15M	831.5	26865	QPSK	1	0	Band 7	20M	2655	3100	22.55	22.61		
CA_7A-42A (Part27Q)	Band 26	Ant1	15M	831.5	26865	QPSK	1	0	Band 7	20M	2655	3100	22.45	22.40		
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	Band 42	20M	3575	43340	23.36	23.46		
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	Band 42	20M	3575	43340	22.63	22.71		
CA_12A-25A	Band 42	Ant2	20M	3575	43340	QPSK	1	0	Band 7	20M	2655	3100	21.98	22.04		
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	Band 42	20M	3500	42590	23.34	23.46		
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	Band 42	20M	3500	42590	22.68	22.71		
CA_26A-41A	Band 42	Ant2	20M	3500	42590	QPSK	1	0	Band 7	20M	2655	3100	21.97	22.03		
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0	Band 25	20M	1960	8340	22.86	22.93		
	Band 12	Ant1	10M	707.5	23095	QPSK	1	0	Band 25	20M	1960	8340	22.59	22.67		
CA_38C	Band 25	Ant0	20M	1880	26340	QPSK	1	0	Band 12	10M	737.5	5095	22.76	22.89		
	Band 25	Ant1	20M	1880	26340	QPSK	1	0	Band 12	10M	737.5	5095	23.21	23.28		
	Band 26	Ant0	15M	831.5	26865	QPSK	1	0	Band 41	20M	2593	40620	22.59	22.61		
CA_41A-41A	Band 26	Ant1	15M	831.5	26865	QPSK	1	0	Band 41	20M	2593	40620	22.16	22.40		
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	Band 26	15M	876.5	8865	23.56	23.64		
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	Band 26	15M	876.5	8865	22.87	22.98		
CA_41A-42A	Band 38	Ant0	20M	2585.1	37901	QPSK	1	0	Band 38	20M	2604.9	38099	23.34	23.49		
	Band 38	Ant1	20M	2585.1	37901	QPSK	1	0	Band 38	20M	2604.9	38099	22.67	22.80		
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	Band 41	5M	2687.5	41565	23.52	23.64		
CA_41A-42A (Part27Q)	Band 41	Ant1	20M	2593	40620	QPSK	1	0	Band 41	5M	2687.5	41565	22.86	22.98		
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	Band 42	20M	3575	42340	23.54	23.64		
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	Band 42	20M	3575	43340	22.84	22.98		
CA_42A-42A (Part27Q)	Band 42	Ant2	20M	3575	43340	QPSK	1	0	Band 41	20M	2593	40620	21.97	22.04		
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	Band 42	20M	3500	42590	23.55	23.64		
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	Band 42	20M	3500	42590	22.83	22.98		
CA_66B	Band 42	Ant2	20M	3500	42590	QPSK	1	0	Band 41	20M	2593	40620	21.98	22.03		
	Band 42	Ant2	20M	3575	43340	QPSK	1	0	Band 42	5M	3597.5	43065	21.86	22.04		
CA_66C	Band 42	Ant2	20M	3500	42590	QPSK	1	0	Band 42	5M	3547.5	43065	21.96	22.03		
	Band 66	Ant0	15M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	22.99	23.09		
CA_66C	Band 66	Ant1	15M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	21.83	22.00		
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	23.03	23.15		
CA_66C	Band 66	Ant1	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	21.93	22.05		



3CA DL

3CA List	PCC										SCC1				SCC2				Power	
	LTE		BW (MHz)	UL		Mod.	UL# RB	UL Offset	LTE		DL Freq. (MHz)	DL Channel	LTE		DL Freq. (MHz)	DL Channel	Tx. Power (dBm)	Tx. Power (dBm)		
	Band	Ant		UL	UL				Band	BW			Band	BW						
CA_2A_4A_5A	Band 2	AnD	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	22.67	22.82		
	Band 2	AnT1	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	21.72	21.82		
	Band 4	AnD	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	22.98	23.12		
	Band 4	AnT1	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	22.12	22.02		
	Band 5	AnD	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	22.70	22.86		
Band 5	AnT1	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	22.53	22.33			
CA_2A_4A_7A	Band 2	AnD	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	22.71	22.82		
	Band 2	AnT1	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	21.69	21.82		
	Band 4	AnD	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	22.97	23.12		
	Band 4	AnT1	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	22.05	22.02		
	Band 7	AnD	20M	2535	21100	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	23.36	23.46		
Band 7	AnT1	20M	2535	21100	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	22.56	22.71			
CA_2A_4A_12A	Band 2	AnD	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	22.73	22.82		
	Band 2	AnT1	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	21.70	21.82		
	Band 4	AnD	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 12	10M	737.5	5095	22.99	23.12		
	Band 4	AnT1	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 12	10M	737.5	5095	22.05	22.02		
	Band 12	AnD	10M	707.5	23095	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	22.80	22.93		
Band 12	AnT1	10M	707.5	23095	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	22.59	22.67			
CA_2A_5A_7A	Band 2	AnD	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	22.69	22.82		
	Band 2	AnT1	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	21.76	21.82		
	Band 5	AnD	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	22.74	22.86		
	Band 5	AnT1	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	22.26	22.33		
	Band 7	AnD	20M	2535	21100	QPSK	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	23.28	23.46		
Band 7	AnT1	20M	2535	21100	QPSK	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	22.59	22.71			
CA_2A_5A_66A	Band 2	AnD	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 66	20M	2155	66886	22.65	22.82		
	Band 2	AnT1	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 66	20M	2155	66886	21.67	21.82		
	Band 5	AnD	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 66	20M	2155	66886	22.76	22.86		
	Band 5	AnT1	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 66	20M	2155	66886	22.13	22.33		
	Band 66	AnD	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	23.00	23.15		
Band 66	AnT1	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	21.97	22.05			
CA_2A_7C	Band 2	AnD	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.72	22.82		
	Band 2	AnT1	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	21.69	21.82		
	Band 7	AnD	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	23.33	23.46		
	Band 7	AnT1	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	22.60	22.71		
	Band 2	AnD	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	22.76	22.82		
CA_2A_7A_7A	Band 2	AnT1	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	21.68	21.82		
	Band 7	AnD	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 2	20M	1960	900	23.37	23.46		
	Band 7	AnT1	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 2	20M	1960	900	22.60	22.71		
	Band 2	AnD	20M	1880	18900	QPSK	1	0	Band 12	10M	737.5	5095	Band 66	20M	2155	66886	22.64	22.82		
	Band 2	AnT1	20M	1880	18900	QPSK	1	0	Band 12	10M	737.5	5095	Band 66	20M	2155	66886	21.76	21.82		
CA_2A-12A-66A	Band 12	AnD	10M	707.5	23095	QPSK	1	0	Band 2	20M	1960	900	Band 66	20M	2155	66886	22.75	22.93		
	Band 12	AnT1	10M	707.5	23095	QPSK	1	0	Band 2	20M	1960	900	Band 66	20M	2155	66886	22.56	22.67		
	Band 66	AnD	20M	1745	132322	QPSK	1	0	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	23.07	23.15		
	Band 66	AnT1	20M	1745	132322	QPSK	1	0	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	21.94	22.05		
	Band 4	AnD	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.97	23.12		
CA_4A-7C	Band 4	AnT1	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.17	22.02		
	Band 7	AnD	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 4	20M	2132.5	2175	23.42	23.46		
	Band 7	AnT1	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 4	20M	2132.5	2175	22.60	22.71		
	Band 26	AnD	15M	831.5	28865	QPSK	1	0	Band 41	20M	2593	40620	Band 41	20M	2612.8	40818	22.50	22.61		
	Band 26	AnT1	15M	831.5	28865	QPSK	1	0	Band 41	20M	2593	40620	Band 41	20M	2612.8	40818	22.34	22.40		
CA_26A-41C	Band 41	AnD	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 26	15M	876.5	8865	23.60	23.64		
	Band 41	AnT1	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 26	15M	876.5	8865	22.81	22.98		
	Band 41	AnD	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 42	20M	3575	43340	23.48	23.64		
	Band 41	AnT1	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 42	20M	3575	43340	22.64	22.98		
	Band 42	AnI2	20M	3575	43340	QPSK	1	0	Band 41	20M	2593	40620	Band 41	20M	2612.8	40818	21.96	22.04		
CA_41C-42A (Pair127Q)	Band 41	AnD	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 42	20M	3575	42340	23.46	23.64		
	Band 41	AnT1	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 42	20M	3575	42340	22.85	22.98		
	Band 42	AnI2	20M	3500	42590	QPSK	1	0	Band 41	20M	2593	40620	Band 41	20M	2612.8	40818	21.97	22.03		
	Band 41	AnD	20M	2593	40620	QPSK	1	0	Band 42	20M	3575	43340	Band 42	20M	3594.8	43338	23.60	23.64		
	Band 41	AnT1	20M	2593	40620	QPSK	1	0	Band 42	20M	3575	43340	Band 42	20M	3594.8	43338	22.91	22.98		
CA_41A-42C (Pair127Q)	Band 42	AnI2	20M	3575	43340	QPSK	1	0	Band 42	20M	3594.8	43338	Band 41	20M	2593	40620	21.98	22.04		
	Band 41	AnD	20M	2593	40620	QPSK	1	0	Band 42	20M	3500	42590	Band 42	20M	3519.8	42788	23.58	23.64		
	Band 41	AnT1	20M	2593	40620	QPSK	1	0	Band 42	20M	3500	42590	Band 42	20M	3519.8	42788	22.90	22.98		
	Band 42	AnI2	20M	3500	42590	QPSK	1	0	Band 42	20M	3519.8	42788	Band 41	20M	2593	40620	21.89	22.03		
	Band 42	AnI2	20M	3560	43190	QPSK	1	0	Band 42	20M	3579.8	43388	Band 42	20M	3599.6	43586	21.99	22.00		
CA_42D CA_42D(Pair127Q)	Band 42	AnI2	20M	3460	42190	QPSK	1	0	Band 42	20M	3479.8	42388	Band 42	20M	3499.6	42586	21.91	21.93		



4CA DL

Configure	PCC								SCC1				SCC2				SCC3				Power	
	LTE		BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	RB Offset	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)
CA_5A_7A_66A_66A	Band 5	0	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.80	22.86
	Band 5	1	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.17	22.33
	Band 7	0	20M	2535	21100	QPSK	1	0	Band 5	10M	881.5	2525	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	23.32	23.46
	Band 7	1	20M	2535	21100	QPSK	1	0	Band 5	10M	881.5	2525	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.60	22.71
	Band 66	0	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	Band 7	20M	2674.8	3298	22.98	23.15
CA_7C_66A_66A	Band 66	1	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	Band 7	20M	2674.8	3298	21.93	22.05
	Band 7	0	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	23.40	23.46
	Band 7	1	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.64	22.71
	Band 66	0	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	23.03	23.15
	Band 66	1	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.00	22.05
CA_41C_42C	Band 41	Ant0	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 42	20M	3575	43340	Band 42	20M	3594.8	43538	23.51	23.64
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 42	20M	3575	43340	Band 42	20M	3594.8	43538	22.81	22.98
	Band 42	Ant2	20M	3575	43340	QPSK	1	0	Band 42	20M	3594.8	43538	Band 41	20M	2593	40620	Band 41	20M	2612.8	40818	21.89	22.04
CA_41C_42C (Pariz7G)	Band 41	Ant0	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 42	20M	3500	42590	Band 42	20M	3519.8	42788	23.56	23.64
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 42	20M	3500	42590	Band 42	20M	3519.8	42788	22.92	22.98
	Band 42	Ant2	20M	3500	42590	QPSK	1	0	Band 42	20M	3519.8	42788	Band 41	20M	2593	40620	Band 41	20M	2612.8	40818	21.97	22.03



5CA DL

Configure	PCC										SCC1				SCC2				SCC3				SCC4				Power	
	LTE		BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA		
	Band	Ant	(MHz)	Freq (MHz)	Channel		RB	RB Offset	Band	(MHz)	Freq (MHz)	Channel	Band	(MHz)	Freq (MHz)	Channel	Band	(MHz)	Freq (MHz)	Channel	Band	(MHz)	Freq (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)		
CA_SA_7C-66A-66A	Band 5	0	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	Band 66	20M	2155	6686	Band 66	5M	2197.5	67311	22.71	22.86		
	Band 5	1	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	Band 66	20M	2155	6686	Band 66	5M	2197.5	67311	22.17	22.33		
	Band 7	0	20M	2630	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 5	10M	881.5	2525	Band 66	20M	2155	6686	Band 66	5M	2197.5	67311	23.33	23.46		
	Band 7	1	20M	2630	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 5	10M	881.5	2525	Band 66	20M	2155	6686	Band 66	5M	2197.5	67311	22.58	22.71		
	Band 66	0	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	23.00	23.15		
Band 66	1	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	21.97	22.05			



Full Power level/Default Power level/ Pmax Power Level for 5G NR

n5 NSA Ant0 Default Power								
BW (MHz)	Modulation	RB Size	RB Offset	Power Class Cl./Freq.	Power Max Cl./Freq.	Power High Cl./Freq.	Turn-up time (sec)	MPR (dB)
Channel								
20	PI2 BPSK	1	1	22.54	22.59	22.71		
20	Frequency (MHz)			844	868	892		
20	PI2 BPSK	1	1	22.56	22.59	22.71	24.0	0.0
20	Frequency (MHz)			844	868	892		
20	PI2 BPSK	1	104	22.62	22.63	22.63		
20	PI2 BPSK	1	104	22.62	22.63	22.63	24.0	0.0
20	Frequency (MHz)			898	900	900		
20	PI2 BPSK	56	56	22.75	22.75	22.75		
20	PI2 BPSK	56	56	22.75	22.75	22.75	24.0	0.0
20	Frequency (MHz)			914	914	914		
20	QPSK	1	1	22.45	22.48	22.59		
20	QPSK	1	1	22.45	22.48	22.59	24.0	0.0
20	Frequency (MHz)			812	816	820		
20	QPSK	1	104	22.72	22.86	22.83		
20	QPSK	1	104	22.72	22.86	22.83	24.0	0.0
20	Frequency (MHz)			844	868	892		
20	QPSK	56	56	22.75	22.81	22.88		
20	QPSK	56	56	22.75	22.81	22.88	24.0	0.0
20	Frequency (MHz)			914	914	914		
20	HSB4M	1	1	22.48	22.77	22.68		
20	HSB4M	1	1	22.48	22.77	22.68	24.0	0.0
20	Frequency (MHz)			812	816	820		
20	HSB4M	1	1	21.92	21.74	21.74		
20	HSB4M	1	1	21.92	21.82	21.82	24.0	1.5
20	Frequency (MHz)			1058	1058	1058		
Channel								
15	QPSK	1	1	23.35	23.35	23.35	24.0	0.0
15	Frequency (MHz)			812	812	812		

n7 Ant0 Default Power								
BW (MHz)	Modulation	RB Size	RB Offset	Power Class Cl./Freq.	Power Max Cl./Freq.	Power High Cl./Freq.	Turn-up time (sec)	MPR (dB)
Channel								
40	PI2 BPSK	1	1	22.28	22.51	22.53		
40	PI2 BPSK	1	108	22.14	22.41	22.29	24.0	0.0
40	PI2 BPSK	1	214	22.28	22.48	22.29		
40	PI2 BPSK	1	214	22.28	22.48	22.29	24.0	0.0
40	PI2 BPSK	108	8	22.24	22.41	22.24		
40	PI2 BPSK	108	8	22.24	22.41	22.24	24.0	0.0
40	PI2 BPSK	108	54	22.33	22.33	22.17		
40	PI2 BPSK	108	54	22.33	22.33	22.17	24.0	0.0
40	PI2 BPSK	108	108	22.15	22.37	22.68		
40	PI2 BPSK	108	108	22.15	22.37	22.68	24.0	0.0
40	PI2 BPSK	216	5	22.52	22.84	22.71		
40	QPSK	1	1	22.82	22.84	22.71		
40	QPSK	1	108	22.24	22.40	22.18	24.0	0.0
40	QPSK	1	214	22.18	22.45	22.20		
40	QPSK	1	214	22.18	22.45	22.20	24.0	0.0
40	QPSK	108	8	22.40	22.36	22.40		
40	QPSK	108	8	22.40	22.36	22.40	24.0	0.0
40	QPSK	108	54	22.37	22.37	22.37		
40	QPSK	108	54	22.37	22.37	22.37	24.0	0.0
40	QPSK	108	108	22.54	22.58	22.58		
40	QPSK	108	108	22.54	22.58	22.58	24.0	0.0
40	QPSK	216	5	22.57	22.52	22.52		
40	QPSK	216	5	22.57	22.52	22.52	24.0	0.0
40	HSB4M	1	1	22.22	22.39	22.18		
40	HSB4M	1	1	22.22	22.39	22.18	24.0	1.5
40	HSB4M	1	1	22.02	22.24	22.02		
40	HSB4M	1	1	22.02	22.24	22.02	24.0	1.5
40	HSB4M	1	1	18.81	20.67	18.90		
40	HSB4M	1	1	18.81	20.67	18.90	24.0	1.5
40	Frequency (MHz)			8500	8500	8500		
Channel								
30	QPSK	1	1	22.48	22.73	22.52	24.0	0.0
30	Frequency (MHz)			8500	8500	8500		
30	QPSK	1	1	21.73	22.30	20.73		
30	Frequency (MHz)			8500	8500	8500		
20	QPSK	1	1	21.43	21.97	21.31	24.0	0.0
20	Frequency (MHz)			8500	8500	8500		
20	QPSK	1	1	21.83	21.97	21.97	24.0	0.0
20	Frequency (MHz)			8500	8500	8500		
15	QPSK	1	1	22.50	22.59	22.47	24.0	0.0
15	Frequency (MHz)			2097.5	2100	2097.5		
10	QPSK	1	1	22.40	22.53	22.40	24.0	0.0
10	Frequency (MHz)			2097.5	2100	2097.5		
10	QPSK	1	1	22.40	22.53	22.40	24.0	0.0
10	Frequency (MHz)			2097.5	2100	2097.5		
5	QPSK	1	1	22.62	22.81	22.60	24.0	0.0
5	Frequency (MHz)			2097.5	2100	2097.5		

n7 Ant1 Default Power								
BW (MHz)	Modulation	RB Size	RB Offset	Power Class Cl./Freq.	Power Max Cl./Freq.	Power High Cl./Freq.	Turn-up time (sec)	MPR (dB)
Channel								
40	PI2 BPSK	1	1	23.42	23.59	23.59		
40	PI2 BPSK	1	108	23.29	23.57	23.51	24.0	0.0
40	PI2 BPSK	1	214	23.55	23.59	23.51		
40	PI2 BPSK	1	214	23.55	23.59	23.51	24.0	0.0
40	PI2 BPSK	108	8	23.29	23.61	23.29		
40	PI2 BPSK	108	8	23.29	23.61	23.29	24.0	0.0
40	PI2 BPSK	108	54	23.50	23.41	23.51		
40	PI2 BPSK	108	54	23.50	23.41	23.51	24.0	0.0
40	PI2 BPSK	108	108	23.44	23.57	23.51		
40	PI2 BPSK	108	108	23.44	23.57	23.51	24.0	0.0
40	QPSK	1	1	23.59	23.63	23.47		
40	QPSK	1	108	23.65	23.53	23.38	24.0	0.0
40	QPSK	1	214	23.52	23.47	23.51		
40	QPSK	1	214	23.52	23.47	23.51	24.0	0.0
40	QPSK	108	8	23.49	23.49	23.49		
40	QPSK	108	8	23.49	23.49	23.49	24.0	0.0
40	QPSK	108	54	23.51	23.36	23.45		
40	QPSK	108	54	23.51	23.36	23.45	24.0	0.0
40	QPSK	108	108	23.56	23.52	23.50		
40	QPSK	108	108	23.56	23.52	23.50	24.0	0.0
40	HSB4M	1	1	23.59	23.52	23.22		
40	HSB4M	1	1	23.59	23.52	23.22	24.0	0.0
40	HSB4M	1	1	23.29	23.41	23.12		
40	HSB4M	1	1	23.29	23.41	23.12	24.0	0.0
40	HSB4M	1	1	21.44	21.29	21.04		
40	HSB4M	1	1	21.44	21.29	21.04	24.0	1.5
40	Frequency (MHz)			8500	8500	8500		
Channel								
30	QPSK	1	1	23.58	23.51	23.34	24.0	0.0
30	Frequency (MHz)			8500	8500	8500		
30	QPSK	1	1	23.12	23.33	20.73		
30	Frequency (MHz)			8500	8500	8500		
20	QPSK	1	1	23.47	23.58	23.23	24.0	0.0
20	Frequency (MHz)			8500	8500	8500		
20	QPSK	1	1	23.16	23.16	23.16	24.0	0.0
20	Frequency (MHz)			8500	8500	8500		
15	QPSK	1	1	23.44	23.59	23.30	24.0	0.0
15	Frequency (MHz)			2097.5	2100	2097.5		
10	QPSK	1	1	23.41	23.52	23.24	24.0	0.0
10	Frequency (MHz)			2097.5	2100	2097.5		
5	QPSK	1	1	23.23	23.31	23.40	24.0	0.0
5	Frequency (MHz)			2097.5	2100	2097.5		

n6 Ant1 Default Power								
BW (MHz)	Modulation	RB Size	RB Offset	Power Class Cl./Freq.	Power Max Cl./Freq.	Power High Cl./Freq.	Turn-up time (sec)	MPR (dB)
Channel								
40	PI2 BPSK	1	1	23.24	23.32	23.24		
40	PI2 BPSK	1	108	23.00	23.28	23.00	24.0	0.0
40	PI2 BPSK	1	214	23.03	23.34	23.22		
40	PI2 BPSK	1	214	23.03	23.34	23.22	24.0	0.0
40	PI2 BPSK	108	8	23.06	23.24	23.03		
40	PI2 BPSK	108	8	23.06	23.24	23.03	24.0	0.0
40	PI2 BPSK	108	54	23.28	23.27	23.14		
40	PI2 BPSK	108	54	23.28	23.27	23.14	24.0	0.0
40	PI2 BPSK	108	108	23.14	23.25	23.11		
40	PI2 BPSK	108	108	23.14	23.25	23.11	24.0	0.0
40	QPSK	1	1	23.58	23.62	23.49		
40	QPSK	1	108	23.30	23.33	23.18	24.0	0.0
40	QPSK	1	214	23.18	23.35	23.07		
40	QPSK	1	214	23.18	23.35	23.07	24.0	0.0
40	QPSK	108	8	23.44	23.44	23.44		
40	QPSK	108	8	23.44	23.44	23.44	24.0	0.0
40	QPSK	108	54	23.54	23.35	23.45		
40	QPSK	108	54	23.54	23.35	23.45	24.0	0.0
40	QPSK	108	108	23.02	23.28	23.02		
40	QPSK	108	108	23.02	23.28	23.02	24.0	0.0
40	HSB4M	1	1	23.				



n38 Ant1 Default Power									
RF Power	Modulation	RF Size	RF Offset	Power Ch. 1 (dBm)	Power Ch. 2 (dBm)	Power Ch. 3 (dBm)	Power Ch. 4 (dBm)	Turn-up Time (s)	MFR (dB)
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	23.48	23.48	23.43			
40	P12 BPSK	1	0	23.21	23.21	23.28	24.0	0.0	
40	P12 BPSK	1	101	23.35	23.44	23.25			
40	P12 BPSK	0	0	23.75	23.55	23.28	23.5	0.5	
40	P12 BPSK	30	30	23.14	23.44	23.15	24.0	0.0	
40	P12 BPSK	30	0	23.55	23.38	23.25			
40	P12 BPSK	100	0	23.22	23.22	23.22	23.5	0.5	
40	QPSK	1	1	23.44	23.44	23.44			
40	QPSK	1	0	23.24	23.24	23.27	24.0	0.0	
40	QPSK	1	101	23.38	23.28	23.27			
40	QPSK	30	30	23.25	23.25	23.27	23.0	1.0	
40	QPSK	30	0	23.43	23.43	23.41	24.0	0.0	
40	QPSK	100	0	23.22	23.22	23.22	23.0	1.0	
40	QPSK	100	0	23.25	23.25	23.26			
40	HS-DMB	1	1	23.25	23.21	23.24	23.0	1.0	
40	HS-DMB	1	1	23.14	23.14	23.20	23.3	2.3	
40	HS-DMB	1	1	23.02	23.14	23.21	23.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.42	23.22	23.21	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.42	23.42	23.23	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.55	23.45	23.34	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.48	23.50	23.52	24.0	0.0	

Par27Q n77 Ant2 Default Power									
RF Power	Modulation	RF Size	RF Offset	Power Ch. 1 (dBm)	Power Ch. 2 (dBm)	Power Ch. 3 (dBm)	Power Ch. 4 (dBm)	Turn-up Time (s)	MFR (dB)
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1		23.03				
100	P12 BPSK	1	101		23.01			24.0	0.0
100	P12 BPSK	1	271		23.03				
100	P12 BPSK	100	0		23.07			23.5	0.5
100	P12 BPSK	100	100		23.06			24.0	0.0
100	P12 BPSK	270	0		23.07			23.5	0.5
100	QPSK	1	1		23.04				
100	QPSK	1	101		23.07			24.0	0.0
100	QPSK	100	0		23.08			24.0	1.0
100	QPSK	100	100		23.05			24.0	0.0
100	QPSK	270	0		23.11			23.0	1.0
100	HS-DMB	1	1		23.04			23.0	1.0
100	HS-DMB	1	1		23.05			23.0	2.0
100	HS-DMB	1	1		23.01			19.0	4.5
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.77	23.41	22.58	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.03	23.03	23.03	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.75	23.19	23.45	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.70	22.39	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.72	22.72	23.02	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.73	23.04	23.07	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.54	23.00	23.01	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.19	23.01	23.01	24.0	0.0	

Par1270 n77 Ant2 Default Power									
RF Power	Modulation	RF Size	RF Offset	Power Ch. 1 (dBm)	Power Ch. 2 (dBm)	Power Ch. 3 (dBm)	Power Ch. 4 (dBm)	Turn-up Time (s)	MFR (dB)
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	22.93	22.94	22.91			
100	P12 BPSK	1	101	23.24	22.92	23.02	24.0	0.0	
100	P12 BPSK	1	271	23.81	22.92	23.73			
100	P12 BPSK	100	0	23.75	23.15	23.12	23.5	0.5	
100	P12 BPSK	100	100	23.69	23.69	23.61	24.0	0.0	
100	P12 BPSK	270	0	23.73	23.15	23.74	23.5	0.5	
100	QPSK	1	1	23.23	23.26	23.27			
100	QPSK	1	101	23.23	23.15	23.10	24.0	0.0	
100	QPSK	100	0	23.05	23.18	23.17	23.0	1.0	
100	QPSK	100	100	23.12	23.22	23.16	24.0	0.0	
100	QPSK	270	0	23.11	23.41	23.19	23.0	1.0	
100	HS-DMB	1	1	23.41	23.41	23.28	23.0	1.0	
100	HS-DMB	1	1	19.87	20.24	20.20	23.5	2.5	
100	HS-DMB	1	1	19.12	19.15	17.97	19.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.14	22.42	22.27	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.96	22.32	22.30	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.90	22.43	22.24	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.21	22.42	22.21	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.19	22.42	22.27	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.19	22.22	22.23	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.19	22.11	22.10	24.0	0.0	



Reduced Power Mode for 5G NR

n5 NSA Ant0 DS12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq. (MHz)	Power Med. Ch. F.Freq. (MHz)	Power High Ch. F.Freq. (MHz)	Time-up Int. (ms)	MPE (dB)		
Channel										
Frequency (MHz)										
20	PI2-BPSK	1	1	22.86	22.98	23.11				
20	PI2-BPSK	1	33	22.85	22.94	22.81	24.0	0.0		
20	PI2-BPSK	1	104	22.85	22.92	22.83				
20	PI2-BPSK	56	3	22.81	22.93	22.85	24.0	0.0		
20	PI2-BPSK	56	38	22.85	22.92	22.73	24.0	0.0		
20	PI2-BPSK	56	85	22.71	22.84	22.73				
20	PI2-BPSK	108	0	22.82	23.00	22.72	24.0	0.0		
20	QPSK	1	1	22.94	22.98	22.99				
20	QPSK	1	33	22.74	22.95	22.85	24.0	0.0		
20	QPSK	1	104	22.75	22.95	22.83				
20	QPSK	56	3	22.67	22.80	22.92	24.0	0.0		
20	QPSK	56	38	22.70	22.91	22.92	24.0	0.0		
20	QPSK	56	85	22.76	22.85	22.82				
20	NRSS	1	1	22.45	22.77	22.98	24.0	0.0		
20	NRSS	1	1	22.58	22.95	23.14	24.0	0.0		
20	256QAM	1	1	21.52	21.52	21.24	22.5	2.5		
Channel										
Frequency (MHz)										
18	QPSK	1	1	18.13	18.13	18.13	(ms)	(dB)		
Channel										
Frequency (MHz)										
18	QPSK	1	1	18.06	18.10	18.10	Time-up Int. (ms)	MPE (dB)		
Channel										
Frequency (MHz)										
18	QPSK	1	1	18.22	18.22	18.22	Time-up Int. (ms)	MPE (dB)		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.28	22.28	22.28	24.0	0.0		

n7 Ant0 DS12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq. (MHz)	Power Med. Ch. F.Freq. (MHz)	Power High Ch. F.Freq. (MHz)	Time-up Int. (ms)	MPE (dB)		
Channel										
Frequency (MHz)										
40	PI2-BPSK	1	1	22.28	22.51	22.28				
40	PI2-BPSK	1	108	22.24	22.41	22.28	24.0	0.0		
40	PI2-BPSK	1	214	22.28	22.48	22.28				
40	PI2-BPSK	108	3	22.24	22.41	22.24	24.0	0.0		
40	PI2-BPSK	108	34	22.28	22.33	22.17	24.0	0.0		
40	PI2-BPSK	108	108	22.21	22.37	22.28				
40	PI2-BPSK	216	0	22.29	22.35	22.28	24.0	0.0		
40	QPSK	1	1	22.40	22.46	22.41				
40	QPSK	1	108	22.24	22.40	22.15	24.0	0.0		
40	QPSK	1	214	22.28	22.45	22.28				
40	QPSK	108	3	22.11	22.39	22.28	24.0	0.0		
40	QPSK	108	34	22.20	22.27	22.20	24.0	0.0		
40	QPSK	108	108	22.24	22.30	22.28				
40	QPSK	216	0	22.27	22.32	22.28	24.0	0.0		
40	NRSS	1	1	22.22	22.30	22.19	22.5	2.5		
40	NRSS	1	1	22.35	22.24	21.19	22.5	2.5		
40	256QAM	1	1	19.81	19.97	19.95	21.5	2.5		
Channel										
Frequency (MHz)										
30	QPSK	1	1	21.13	21.08	20.93	(ms)	(dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	1	21.02	21.00	21.05	Time-up Int. (ms)	MPE (dB)		
Channel										
Frequency (MHz)										
25	QPSK	1	1	22.53	22.57	22.57	Time-up Int. (ms)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.68	22.71	22.51	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.52	22.59	22.47	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.48	22.55	22.45	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.43	22.51	22.45	24.0	0.0		

n7 Ant1 DS12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq. (MHz)	Power Med. Ch. F.Freq. (MHz)	Power High Ch. F.Freq. (MHz)	Time-up Int. (ms)	MPE (dB)		
Channel										
Frequency (MHz)										
40	PI2-BPSK	1	1	18.27	18.13	18.23				
40	PI2-BPSK	1	108	18.15	18.18	18.23	19.3	0.0		
40	PI2-BPSK	1	214	18.23	18.17	18.26				
40	PI2-BPSK	108	3	18.22	18.25	18.16	19.3	0.0		
40	PI2-BPSK	108	34	18.20	18.21	18.20	19.3	0.0		
40	PI2-BPSK	108	108	18.21	18.12	18.26				
40	PI2-BPSK	216	0	18.23	18.18	18.21	19.3	0.0		
40	QPSK	1	1	18.17	18.20	18.20				
40	QPSK	1	108	18.17	18.17	18.21	19.3	0.0		
40	QPSK	1	214	18.14	18.19	18.17				
40	QPSK	108	3	18.21	18.20	18.17	19.3	0.0		
40	QPSK	108	34	18.20	18.22	18.20	19.3	0.0		
40	QPSK	108	108	18.20	18.16	18.24				
40	QPSK	216	0	18.22	18.20	18.24	19.3	0.0		
40	NRSS	1	1	18.20	18.17	18.21	19.3	0.0		
40	NRSS	1	1	18.11	18.20	18.24	19.3	0.0		
40	256QAM	1	1	18.22	18.24	18.24	19.3	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.15	18.35	18.35	(ms)	(dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.05	18.05	18.05	Time-up Int. (ms)	MPE (dB)		
Channel										
Frequency (MHz)										
25	QPSK	1	1	18.13	18.23	18.13	19.3	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.14	18.19	18.07	19.3	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.07	18.17	18.07	19.3	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.05	18.05	18.05	Time-up Int. (ms)	MPE (dB)		
Channel										
Frequency (MHz)										
5	QPSK	1	1	18.27	18.17	18.13	19.3	0.0		

n66 Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq. (MHz)	Power Med. Ch. F.Freq. (MHz)	Power High Ch. F.Freq. (MHz)	Time-up Int. (ms)	MPE (dB)		
Channel										
Frequency (MHz)										
40	PI2-BPSK	1	1	16.11	16.16	16.23				
40	PI2-BPSK	1	108	16.08	16.09	16.09	17.4	0.0		
40	PI2-BPSK	1	214	16.09	16.11	16.13				
40	PI2-BPSK	108	3	16.12	16.15	16.20	17.4	0.0		
40	PI2-BPSK	108	34	16.15	16.19	16.20	17.4	0.0		
40	PI2-BPSK	108	108	16.10	16.15	16.20				
40	PI2-BPSK	216	0	16.14	16.07	16.08	17.4	0.0		
40	QPSK	1	1	16.11	16.08	16.07				
40	QPSK	1	108	16.18	16.05	16.06	17.4	0.0		
40	QPSK	1	214	16.14	16.08	16.10				
40	QPSK	108	3	16.11	16.07	16.09	17.4	0.0		
40	QPSK	108	34	16.05	16.12	16.11	17.4	0.0		
40	QPSK	108	108	16.10	16.07	16.11				
40	QPSK	216	0	16.10	16.13	16.09	17.4	0.0		
40	NRSS	1	1	16.10	16.16	16.07	17.4	0.0		
40	NRSS	1	1	16.08	16.15	16.14	17.4	0.0		
40	256QAM	1	1	16.16	16.08	16.09	17.4	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	16.00	16.00	16.00	Time-up Int. (ms)	MPE (dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	1	16.02	16.02	16.02	Time-up Int. (ms)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	16.01	16.01	16.01	Time-up Int. (ms)	MPE (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	1	16.00	16.00	16.00	Time-up Int. (ms)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	1	16.01	16.11	16.17	17.4	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	16.06	16.06	16.06	17.4	0.0		



n38 Ant 1 DS12							
BV [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Frac]	Power Max Ch. [Frac]	Power High Ch. [Frac]	Tune-up [ms] [dBm]
Channel							
Frequency (MHz)							
48	PSK	1	1	17.32	17.33	17.34	18.8 0.0
48	PSK	1	53	17.32	17.34	17.40	18.8 0.0
48	PSK	1	104	17.32	17.32	17.36	18.8 0.0
48	PSK	50	0	17.32	17.42	17.37	18.8 0.0
48	PSK	50	50	17.32	17.35	17.44	18.8 0.0
48	PSK	50	56	17.42	17.32	17.37	18.8 0.0
48	PSK	100	0	17.32	17.42	17.38	18.8 0.0
48	QPSK	1	1	17.32	17.33	17.40	18.8 0.0
48	QPSK	1	53	17.32	17.40	17.39	18.8 0.0
48	QPSK	1	104	17.42	17.38	17.32	18.8 0.0
48	QPSK	50	0	17.32	17.38	17.34	18.8 0.0
48	QPSK	50	50	17.42	17.45	17.46	18.8 0.0
48	QPSK	50	56	17.32	17.43	17.40	18.8 0.0
48	QPSK	100	0	17.32	17.44	17.42	18.8 0.0
48	HQDM	1	1	17.32	17.37	17.36	18.8 0.0
48	HQDM	1	1	17.32	17.45	17.42	18.8 0.0
48	HQDM	1	1	17.42	17.44	17.33	18.8 0.0
Channel							
Frequency (MHz)							
58	QPSK	1	1	17.32	17.34	17.22	18.8 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.32	17.34	17.22	18.8 0.0
Channel							
Frequency (MHz)							
16	QPSK	1	1	17.26	17.34	17.20	18.8 0.0
Channel							
Frequency (MHz)							
18	QPSK	1	1	17.22	17.44	17.17	18.8 0.0

Par27Q n77 Ant 2 DS12							
BV [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Frac]	Power Max Ch. [Frac]	Power High Ch. [Frac]	Tune-up [ms] [dBm]
Channel							
Frequency (MHz)							
100	PSK	1	1	21.03	21.01	21.03	21.7 0.0
100	PSK	1	137	21.01	21.01	21.01	21.7 0.0
100	PSK	1	271	21.03	21.03	21.03	21.7 0.0
100	PSK	105	0	21.07	21.07	21.07	21.7 0.0
100	PSK	105	50	21.06	21.06	21.06	21.7 0.0
100	PSK	105	158	21.07	21.07	21.07	21.7 0.0
100	PSK	270	0	21.02	21.02	21.02	21.7 0.0
100	QPSK	1	1	21.02	21.02	21.02	21.7 0.0
100	QPSK	1	137	21.07	21.07	21.07	21.7 0.0
100	QPSK	1	271	21.03	21.03	21.03	21.7 0.0
100	QPSK	105	0	21.02	21.02	21.02	21.7 0.0
100	QPSK	105	50	21.07	21.07	21.07	21.7 0.0
100	QPSK	105	158	21.07	21.07	21.07	21.7 0.0
100	QPSK	270	0	21.11	21.11	21.11	21.7 0.0
100	HQDM	1	1	21.01	21.01	21.01	21.7 0.0
100	HQDM	1	1	21.05	21.05	21.05	21.7 0.2
100	HQDM	1	1	21.05	21.05	21.05	21.7 0.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.55	20.59	20.50	20.0 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.21	20.38	20.45	20.0 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	20.70	20.69	20.95	20.0 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.44	20.33	20.18	20.0 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.30	20.03	20.91	20.0 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.53	20.36	20.20	20.0 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.43	20.36	20.02	20.0 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.50	20.36	20.02	20.0 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.52	20.36	20.02	20.0 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.51	20.36	20.02	20.0 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.53	20.36	20.02	20.0 0.0

Par270 n77 Ant 2 DS12							
BV [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Frac]	Power Max Ch. [Frac]	Power High Ch. [Frac]	Tune-up [ms] [dBm]
Channel							
Frequency (MHz)							
100	PSK	1	1	20.33	20.34	20.21	21.7 0.0
100	PSK	1	137	19.84	20.01	19.65	21.7 0.0
100	PSK	1	271	19.81	20.02	19.71	21.7 0.0
100	PSK	105	0	19.99	19.89	19.72	21.7 0.0
100	PSK	105	50	19.85	19.84	19.51	21.7 0.0
100	PSK	105	158	19.88	19.84	19.69	21.7 0.0
100	PSK	270	0	19.72	19.87	19.74	21.7 0.0
100	QPSK	1	1	20.21	20.20	20.21	21.7 0.0
100	QPSK	1	137	19.23	19.37	19.30	21.7 0.0
100	QPSK	1	271	19.41	19.50	19.20	21.7 0.0
100	QPSK	105	0	20.01	20.06	20.01	21.7 0.0
100	QPSK	105	50	20.14	20.00	20.19	21.7 0.0
100	QPSK	105	158	19.62	19.89	19.59	21.7 0.0
100	QPSK	270	0	19.91	20.11	19.80	21.7 0.0
100	HQDM	1	1	19.91	19.97	19.85	21.7 0.0
100	HQDM	1	1	19.87	20.21	20.02	21.5 0.2
100	HQDM	1	1	19.15	19.78	19.27	19.5 0.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.42	20.41	20.41	21.7 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	19.99	20.30	20.03	21.7 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	19.69	20.25	20.17	21.7 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	19.79	20.24	20.12	21.7 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.07	20.21	20.09	21.7 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.07	20.30	20.10	21.7 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.07	20.30	20.10	21.7 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.11	20.30	20.11	21.7 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.11	20.30	20.11	21.7 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.09	20.31	20.01	21.7 0.0



Part27Q n78 PC2&3 Ant 2 DSI2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq.)	Power High Ch. 1 (Freq.)	Power Max. Ch. 1 (Freq.)	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	F3/2 BPSK	1	1	21.45				
100	F3/2 BPSK	1	137	21.51			22.0	0.0
100	F3/2 BPSK	1	271	21.45				
100	F3/2 BPSK	135	0	21.33			22.0	0.0
100	F3/2 BPSK	135	88	21.47			22.0	0.0
100	F3/2 BPSK	135	138	21.37			22.0	0.0
100	F3/2 BPSK	270	0	21.45				
100	QPSK	1	1	21.35				
100	QPSK	1	137	21.51			22.0	0.0
100	QPSK	1	271	21.41				
100	QPSK	135	0	21.31			22.0	0.0
100	QPSK	135	88	21.35			22.0	0.0
100	QPSK	135	138	21.37			22.0	0.0
100	QPSK	270	0	21.44			22.0	0.0
100	QPSK	1	1	21.34			22.0	0.0
100	HQAM	1	1	21.48			22.0	0.0
100	HQAM	1	1	21.36			22.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	83300	83334	83368	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	83388	83334	83400	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.38	21.31	21.50	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.27	21.15	21.03	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.24	21.10	21.00	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.25	21.13	21.10	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.23	21.18	21.11	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.21	21.13	21.03	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.24	21.22	21.15	Turn-up time (dBm)	MPR (dB)

Part27O n78 PC2&3 Ant 2 DSI2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq.)	Power High Ch. 1 (Freq.)	Power Max. Ch. 1 (Freq.)	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	F3/2 BPSK	1	1	20.85				
100	F3/2 BPSK	1	137	20.83			22.0	0.0
100	F3/2 BPSK	1	271	20.75				
100	F3/2 BPSK	135	0	20.81			22.0	0.0
100	F3/2 BPSK	135	88	20.86			22.0	0.0
100	F3/2 BPSK	135	138	20.88			22.0	0.0
100	F3/2 BPSK	270	0	20.84				
100	QPSK	1	1	20.81				
100	QPSK	1	137	20.85			22.0	0.0
100	QPSK	1	271	20.73				
100	QPSK	135	0	20.71			22.0	0.0
100	QPSK	135	88	20.76			22.0	0.0
100	QPSK	135	138	20.74			22.0	0.0
100	QPSK	270	0	20.72			22.0	0.0
100	HQAM	1	1	20.72			22.0	0.0
100	HQAM	1	1	20.68			22.0	0.0
100	HQAM	1	1	20.65			22.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	83458	83300	83334	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	83434	83300	83368	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.37	20.49	20.39	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.36	20.45	20.26	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.34	20.30	20.20	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.32	20.30	20.22	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.31	20.29	20.21	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.29	20.48	20.20	Turn-up time (dBm)	MPR (dB)

Part27Q n78 Ant 3 DSI2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq.)	Power High Ch. 1 (Freq.)	Power Max. Ch. 1 (Freq.)	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	F3/2 BPSK	1	1	22.45				
100	F3/2 BPSK	1	137	22.49			24.0	0.0
100	F3/2 BPSK	1	271	22.35				
100	F3/2 BPSK	135	0	22.38			24.0	0.0
100	F3/2 BPSK	135	88	22.47			24.0	0.0
100	F3/2 BPSK	135	138	22.49			24.0	0.0
100	F3/2 BPSK	270	0	22.44				
100	QPSK	1	1	22.35			24.0	0.0
100	QPSK	1	137	22.56			24.0	0.0
100	QPSK	1	271	22.22				
100	QPSK	135	0	22.30			24.0	0.0
100	QPSK	135	88	22.40			24.0	0.0
100	QPSK	135	138	22.41			24.0	0.0
100	QPSK	270	0	22.43			24.0	0.0
100	HQAM	1	1	22.25			24.0	0.0
100	HQAM	1	1	22.43			24.0	0.0
100	HQAM	1	1	22.43			24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	83300	83334	83368	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.00	22.54	22.46	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.36	22.49	22.40	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.16	22.30	22.49	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.43	22.33	22.44	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.02	22.41	22.83	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	83134	83334	83332	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	343.01	343.01	343.06	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.47	22.48	22.30	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	343.00	343.00	343.00	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.41	22.33	22.41	Turn-up time (dBm)	MPR (dB)

Part27O n78 Ant 3 DSI2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq.)	Power High Ch. 1 (Freq.)	Power Max. Ch. 1 (Freq.)	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	F3/2 BPSK	1	1	22.45				
100	F3/2 BPSK	1	137	22.49			24.0	0.0
100	F3/2 BPSK	1	271	22.31				
100	F3/2 BPSK	135	0	22.35			24.0	0.0
100	F3/2 BPSK	135	88	22.46			24.0	0.0
100	F3/2 BPSK	135	138	22.48			24.0	0.0
100	F3/2 BPSK	270	0	22.46				
100	QPSK	1	1	22.31			24.0	0.0
100	QPSK	1	137	22.71			24.0	0.0
100	QPSK	1	271	22.53				
100	QPSK	135	0	22.51			24.0	0.0
100	QPSK	135	88	22.56			24.0	0.0
100	QPSK	135	138	22.58			24.0	0.0
100	QPSK	270	0	22.55			24.0	0.0
100	HQAM	1	1	22.71			24.0	0.0
100	HQAM	1	1	22.40			24.0	0.0
100	HQAM	1	1	22.38			24.0	0.0
100	HQAM	1	1	22.33			24.0	0.0
100	HQAM	1	1	22.43			24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	84568	83300	83334	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	84534	83300	83368	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.49	22.43	22.38	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.42	22.54	22.38	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.18	22.54	22.58	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.36	22.48	22.48	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	84500	83300	83300	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.41	22.40	22.35	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.42	22.40	22.42	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.35	22.40	22.40	Turn-up time (dBm)	MPR (dB)



Part27Q n78 Ant 7 DS12

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (W)	Power Med. Ch. 1 (W)	Power High Ch. 1 (W)	Time-up link (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.45				
100	PI2 BPSK	1	137	22.38			24.0	0.0
100	PI2 BPSK	1	274	22.45				
100	PI2 BPSK	135	0	22.31			24.0	0.0
100	PI2 BPSK	135	138	22.38			24.0	0.0
100	PI2 BPSK	270	0	22.47				
100	QPSK	1	1	22.35				
100	QPSK	1	137	22.38			24.0	0.0
100	QPSK	1	274	22.35				
100	QPSK	135	0	22.41			24.0	0.0
100	QPSK	135	138	22.45			24.0	0.0
100	QPSK	270	0	22.39			24.0	0.0
100	QPSK	270	0	22.42			24.0	0.0
100	HQAMM	1	1	22.42			24.0	0.0
100	HQAMM	1	1	22.34			24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.54	22.85	22.42	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.44	22.46	22.42	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.44	22.46	22.42	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.38	22.42	22.39	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.41	22.48	22.41	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.34	22.40	22.33	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.47	22.51	22.41	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.48	22.53	22.47	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.46	22.47	22.47	24.0	0.0

Part270 n78 Ant 7 DS12

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (W)	Power Med. Ch. 1 (W)	Power High Ch. 1 (W)	Time-up link (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.48				
100	PI2 BPSK	1	137	22.44			24.0	0.0
100	PI2 BPSK	1	274	22.45				
100	PI2 BPSK	135	0	22.48			24.0	0.0
100	PI2 BPSK	135	138	22.45			24.0	0.0
100	PI2 BPSK	270	0	22.44			24.0	0.0
100	QPSK	1	1	22.35				
100	QPSK	1	137	22.31			24.0	0.0
100	QPSK	1	274	22.43				
100	QPSK	135	0	22.43			24.0	0.0
100	QPSK	135	138	22.45			24.0	0.0
100	QPSK	270	0	22.40			24.0	0.0
100	QPSK	270	0	22.42			24.0	0.0
100	HQAMM	1	1	22.40			24.0	0.0
100	HQAMM	1	1	22.38			24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.38	22.43	22.39	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.43	22.36	22.37	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.37	22.42	22.38	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.37	22.41	22.37	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.30	22.35	22.32	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.40	22.41	22.34	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.28	22.34	22.31	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.35	22.35	22.35	24.0	0.0

Part270 n78 HPUE Ant 7 DS12

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (W)	Power Med. Ch. 1 (W)	Power High Ch. 1 (W)	Time-up link (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.59				
100	PI2 BPSK	1	137	25.55			27.0	0.0
100	PI2 BPSK	1	274	25.52				
100	PI2 BPSK	135	0	25.48			27.0	0.0
100	PI2 BPSK	135	138	25.45			27.0	0.0
100	PI2 BPSK	270	0	25.44			27.0	0.0
100	QPSK	1	1	25.35				
100	QPSK	1	137	25.43			27.0	0.0
100	QPSK	1	274	25.51				
100	QPSK	135	0	25.53			27.0	0.0
100	QPSK	135	138	25.48			27.0	0.0
100	QPSK	270	0	25.51			27.0	0.0
100	QPSK	270	0	25.49			27.0	0.0
100	HQAMM	1	1	25.35			27.0	0.0
100	HQAMM	1	1	25.38			27.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	25.54	25.55	25.50	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.54	25.41	25.54	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.56	25.41	25.51	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.53	25.48	25.52	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.53	25.48	25.52	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.53	25.48	25.52	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.59	25.49	25.54	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.52	25.49	25.50	27.0	0.0

Part270 n78 HPUE Ant 7 DS12

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (W)	Power Med. Ch. 1 (W)	Power High Ch. 1 (W)	Time-up link (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.55				
100	PI2 BPSK	1	137	25.50			27.0	0.0
100	PI2 BPSK	1	274	25.52				
100	PI2 BPSK	135	0	25.52			27.0	0.0
100	PI2 BPSK	135	138	25.49			27.0	0.0
100	PI2 BPSK	270	0	25.54			27.0	0.0
100	QPSK	1	1	25.35				
100	QPSK	1	137	25.43			27.0	0.0
100	QPSK	1	274	25.51				
100	QPSK	135	0	25.53			27.0	0.0
100	QPSK	135	138	25.48			27.0	0.0
100	QPSK	270	0	25.51			27.0	0.0
100	QPSK	270	0	25.49			27.0	0.0
100	HQAMM	1	1	25.35			27.0	0.0
100	HQAMM	1	1	25.38			27.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	25.57	25.47	25.44	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.56	25.53	25.48	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.47	25.44	25.38	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.49	25.50	25.43	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.54	25.54	25.52	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.52	25.41	25.43	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.59	25.44	25.51	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.51	25.51	25.52	27.0	0.0



Part27Q n78 Ant 6 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1/Freq.	Power Max Ch. 1/Freq.	Power High Ch. 1/Freq.	Turn-up time (dBm)	MPE (dB)	
Channel									
Frequency (MHz)									
100	PIQ BPSK	6	1	21.96					
100	PIQ BPSK	1	137	22.24			22.9	0.0	
100	PIQ BPSK	1	271	22.52					
100	PIQ BPSK	135	0	22.81			22.9	0.0	
100	PIQ BPSK	135	96	21.96			22.9	0.0	
100	PIQ BPSK	135	138	21.96			22.9	0.0	
100	PIQ BPSK	270	0	21.96			22.9	0.0	
100	QPSK	1	1	22.50					
100	QPSK	1	137	22.14			22.9	0.0	
100	QPSK	1	271	22.50					
100	QPSK	135	0	21.91			22.9	0.0	
100	QPSK	135	96	21.96			22.9	0.0	
100	QPSK	135	138	21.96			22.9	0.0	
100	QPSK	270	0	21.91			22.9	0.0	
100	HQAM	1	1	21.96			22.9	0.0	
100	HQAM	1	1	22.18			22.9	0.0	
100	HQAM	1	1	21.96			22.9	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	83360	83334	83398	Turn-up time (dBm)	MPE	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.03	22.05	22.02	22.9	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.99	22.13	21.90	22.9	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3483.91	3483.91	3483.98	Turn-up time (dBm)	MPE	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.60	22.36	21.97	22.9	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.08	22.19	22.08	22.9	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.06	21.98	21.91	22.9	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	83334	83334	83332	Turn-up time (dBm)	MPE	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3483.91	3483.91	3483.98	Turn-up time (dBm)	MPE	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.08	22.11	21.90	22.9	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3483	3483.01	3483.99	Turn-up time (dBm)	MPE	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.68	22.12	21.87	22.9	0.0	

Part27O n78 Ant 6 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1/Freq.	Power Max Ch. 1/Freq.	Power High Ch. 1/Freq.	Turn-up time (dBm)	MPE (dB)	
Channel									
Frequency (MHz)									
100	PIQ BPSK	1	1	21.84					
100	PIQ BPSK	1	137	21.92					
100	PIQ BPSK	1	271	21.98					
100	PIQ BPSK	135	0	21.77			22.9	0.0	
100	PIQ BPSK	135	96	21.84			22.9	0.0	
100	PIQ BPSK	135	138	21.85			22.9	0.0	
100	PIQ BPSK	270	0	21.82			22.9	0.0	
100	QPSK	1	1	22.05					
100	QPSK	1	137	21.99					
100	QPSK	1	271	21.98					
100	QPSK	135	0	21.77			22.9	0.0	
100	QPSK	135	96	21.84			22.9	0.0	
100	QPSK	135	138	21.93			22.9	0.0	
100	QPSK	270	0	21.81			22.9	0.0	
100	HQAM	1	1	21.87			22.9	0.0	
100	HQAM	1	1	21.96			22.9	0.0	
100	HQAM	1	1	21.96			22.9	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	84968	85008	85034	Turn-up time (dBm)	MPE	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.85	21.83	21.85	22.9	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.84	21.76	21.77	22.9	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3718	3709	3733	Turn-up time (dBm)	MPE	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.02	21.83	21.73	22.9	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.82	21.72	21.73	22.9	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	84934	85008	85068	Turn-up time (dBm)	MPE	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.02	21.93	21.79	22.9	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	84900	85008	85000	Turn-up time (dBm)	MPE	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3483	3483	3480	Turn-up time (dBm)	MPE	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.81	21.84	21.75	22.9	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3718.02	3730	3733.01	Turn-up time (dBm)	MPE	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.68	21.92	21.83	22.9	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3712.01	3709	3712.01	Turn-up time (dBm)	MPE	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.79	21.71	21.91	22.9	0.0	



n5 NSA Ant 0 DSI3

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	PSSB-SC-FD	1	0	18.24	22.80	27.37		
20	PSSB-SC-FD	1	53	22.86	27.44	32.01	24.0	0.0
20	PSSB-SC-FD	1	105	27.48	32.08	36.63		
20	PSSB-SC-FD	56	0	22.81	27.03	31.65	24.0	0.0
20	PSSB-SC-FD	56	56	27.35	31.97	36.60		
20	PSSB-SC-FD	56	56	27.75	32.37	37.00	24.0	0.0
20	PSSB-SC-FD	100	0	22.86	27.00	32.16		
20	QPSK	1	1	23.46	27.00	31.56		
20	QPSK	1	53	27.74	27.06	27.88	24.0	0.0
20	QPSK	1	104	27.71	27.06	27.83		
20	QPSK	56	0	22.81	27.09	32.19	24.0	0.0
20	QPSK	56	56	27.75	27.09	32.88		
20	QPSK	100	0	22.71	27.09	32.90		
20	IS-87AM	1	1	26.46	27.07	27.08	24.0	0.0
20	IS-87AM	1	1	21.86	27.28	31.14	24.0	0.0
20	IS-87AM	1	1	21.15	27.19	31.24	22.3	1.5
Channel								
Frequency (MHz)								
16	QPSK	1	1	23.16	27.16	31.14	24.3	0.0
Channel								
Frequency (MHz)								
17	QPSK	1	1	18.88	18.88	18.88		
17	QPSK	1	1	18.24	18.24	18.24		
17	QPSK	1	1	23.27	23.27	23.27	24.0	0.0
Channel								
Frequency (MHz)								
8	QPSK	1	1	23.28	23.29	23.28	24.0	0.0

n7 Ant 0 DSI3

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)								
40	PSSB-SC-FD	1	1	18.05	18.03	18.03		
40	PSSB-SC-FD	1	106	18.12	18.04	18.06	20.4	0.0
40	PSSB-SC-FD	1	214	18.13	18.13	18.09		
40	PSSB-SC-FD	106	0	18.02	18.01	18.07	20.4	0.0
40	PSSB-SC-FD	106	56	18.09	18.07	18.06		
40	PSSB-SC-FD	106	106	18.09	18.13	18.11	20.4	0.0
40	PSSB-SC-FD	216	0	18.11	18.12	18.08		
40	QPSK	1	1	18.11	18.10	18.09		
40	QPSK	1	106	18.09	18.09	18.04	20.4	0.0
40	QPSK	1	214	18.09	18.04	18.03		
40	QPSK	106	0	18.09	18.02	18.05	20.4	0.0
40	QPSK	106	56	18.04	18.04	18.04		
40	QPSK	106	106	18.05	18.10	18.04	20.4	0.0
40	QPSK	216	0	18.01	18.07	18.04		
40	IS-87AM	1	1	18.10	18.01	18.02	20.4	0.0
40	IS-87AM	1	1	18.01	18.09	18.01	20.4	0.0
40	IS-87AM	1	1	18.10	18.10	18.13	20.4	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.05	18.12	18.01	20.4	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	18.04	18.01	18.00	20.4	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.05	18.04	18.01	20.4	0.0
Channel								
Frequency (MHz)								
16	QPSK	1	1	18.05	18.04	18.00	20.4	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.01	18.08	18.08	20.4	0.0
Channel								
Frequency (MHz)								
8	QPSK	1	1	18.04	18.00	18.00	20.4	0.0

n7 Ant 1 DSI3

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)								
40	PSSB-SC-FD	1	1	18.73	18.85	18.85		
40	PSSB-SC-FD	1	106	18.82	18.84	18.75	20.3	0.0
40	PSSB-SC-FD	1	214	18.81	18.73	18.66		
40	PSSB-SC-FD	106	0	18.69	18.81	18.82	20.3	0.0
40	PSSB-SC-FD	106	56	18.71	18.68	18.61		
40	PSSB-SC-FD	106	106	18.65	18.80	18.72	20.3	0.0
40	PSSB-SC-FD	216	0	18.62	18.84	18.71		
40	QPSK	1	1	18.73	18.85	18.71		
40	QPSK	1	106	18.62	18.84	18.63	20.3	0.0
40	QPSK	1	214	18.62	18.68	18.61		
40	QPSK	106	0	18.69	18.72	18.63	20.3	0.0
40	QPSK	106	56	18.71	18.66	18.61		
40	QPSK	106	106	18.67	18.70	18.75	20.3	0.0
40	QPSK	216	0	18.63	18.70	18.61		
40	IS-87AM	1	1	18.69	18.72	18.72	20.3	0.0
40	IS-87AM	1	1	18.61	18.83	18.62	20.3	0.0
40	IS-87AM	1	1	18.69	18.60	18.61	20.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.67	18.70	18.54	20.3	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	18.61	18.71	18.61	20.3	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.61	18.71	18.61	20.3	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.62	18.72	18.61	20.3	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.61	18.71	18.61	20.3	0.0
Channel								
Frequency (MHz)								
8	QPSK	1	1	18.64	18.72	18.62	20.3	0.0

n6 Ant 1 DSI3

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)								
40	PSSB-SC-FD	1	1	16.00	16.45	16.41		
40	PSSB-SC-FD	1	106	16.00	16.58	16.49	18.1	0.0
40	PSSB-SC-FD	1	214	16.16	16.57	16.49		
40	PSSB-SC-FD	106	0	16.01	16.52	16.54	18.1	0.0
40	PSSB-SC-FD	106	56	16.40	16.51	16.41		
40	PSSB-SC-FD	106	106	16.49	16.51	16.42	18.1	0.0
40	PSSB-SC-FD	216	0	16.02	16.54	16.51		
40	QPSK	1	1	16.00	16.77	16.59		
40	QPSK	1	106	16.14	16.51	16.40	18.1	0.0
40	QPSK	1	214	16.16	16.55	16.53		
40	QPSK	106	0	16.35	16.52	16.58	18.1	0.0
40	QPSK	106	56	16.44	16.56	16.48		
40	QPSK	106	106	16.53	16.53	16.59	18.1	0.0
40	QPSK	216	0	16.05	16.60	16.41		
40	IS-87AM	1	1	16.40	16.52	16.57	18.1	0.0
40	IS-87AM	1	1	16.30	16.49	16.49	18.1	0.0
40	IS-87AM	1	1	16.50	16.50	16.53	18.1	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.40	16.62	16.45	18.1	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.44	16.59	16.53	18.1	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.42	16.56	16.41	18.1	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	16.38	16.52	16.49	18.1	0.0
Channel								
Frequency (MHz)								
8	QPSK	1	1	16.44	16.57	16.42	18.1	0.0



n38 Ant1 DS13										
RFI (MHz)	Multiplex	RF Size	RF Offset	Power (W)	Power (W)	Power (W)	Turn-up Time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
45	PI2 DSRC	1	1	15.79	15.83	15.87				
46	PI2 DSRC	1	0	15.79	15.87	15.97	20.1	0.0		
47	PI2 DSRC	1	104	15.81	15.86	15.93				
48	PI2 DSRC	0	0	15.82	15.85	15.93	20.1	0.0		
49	PI2 DSRC	0	90	15.86	15.86	15.90	20.1	0.0		
50	PI2 DSRC	0	90	15.87	15.92	15.95				
51	PI2 DSRC	100	0	15.89	15.92	15.92	20.1	0.0		
52	QPSK	1	1	15.90		15.92				
53	QPSK	1	0	15.97	15.94	15.93	20.1	0.0		
54	QPSK	1	0	15.98	15.99	15.99				
55	QPSK	50	0	15.99	15.92	15.97	20.1	0.0		
56	QPSK	100	0	15.99	15.92	15.97	20.1	0.0		
57	QPSK	50	0	15.99	15.92	15.98	20.1	0.0		
58	QPSK	0	0	15.99	15.92	15.92	20.1	0.0		
59	QPSK	100	0	15.99	15.92	15.99	20.1	0.0		
60	HSK4M	1	1	15.91	15.92	15.91	20.1	0.0		
61	HSK4M	1	1	15.94	15.94	15.97	20.1	0.0		
62	HSK4M	1	1	15.95	15.92	15.92				
63	HSK4M	1	1	15.92	15.93	15.96	Turn-up Time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	1	15.56	15.59	15.62	20.1	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	15.56	15.59	15.62	20.1	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	15.49	15.49	15.49	Turn-up Time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	1	15.49	15.49	15.49	20.1	0.0		

Par27Q Ant2 DS13										
RFI (MHz)	Multiplex	RF Size	RF Offset	Power (W)	Power (W)	Power (W)	Turn-up Time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
100	PI2 DSRC	1	1		15.36					
101	PI2 DSRC	1	1		15.35			14.4	0.0	
102	PI2 DSRC	1	271		15.36					
103	PI2 DSRC	100	0		15.44			14.4	0.0	
104	PI2 DSRC	100	0		15.36			14.4	0.0	
105	PI2 DSRC	100	100		15.35					
106	PI2 DSRC	200	0		15.32			14.4	0.0	
107	QPSK	1	1		15.46					
108	QPSK	1	107		15.41			14.4	0.0	
109	QPSK	100	0		15.38			14.4	0.0	
110	QPSK	100	0		15.33			14.4	0.0	
111	QPSK	100	0		15.33			14.4	0.0	
112	QPSK	100	0		15.33			14.4	0.0	
113	QPSK	200	0		15.31			14.4	0.0	
114	HSK4M	1	1		15.39			14.4	0.0	
115	HSK4M	1	1		15.32			14.4	0.0	
116	HSK4M	1	1		15.41			14.4	0.0	
Channel										
Frequency (MHz)										
90	QPSK	1	1	15.04	15.16	15.22	0.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	15.04	15.16	15.22	0.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	12.77	12.79	12.76	0.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	13.51	13.50	13.49	0.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	13.51	13.50	13.49	0.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	13.59	13.55	13.53	0.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	13.59	13.55	13.53	0.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	13.59	13.55	13.53	0.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	13.59	13.52	13.52	0.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	11.02	11.02	11.02	0.0	0.0		

Part27O n77 Ant2 DS13										
RFI (MHz)	Multiplex	RF Size	RF Offset	Power (W)	Power (W)	Power (W)	Turn-up Time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
100	PI2 DSRC	1	1	12.82	12.82	12.76				
101	PI2 DSRC	1	107	12.72	12.72	12.76	14.4	0.0		
102	PI2 DSRC	1	271	12.81	12.77	12.76				
103	PI2 DSRC	100	0	12.81	12.72	12.76	14.4	0.0		
104	PI2 DSRC	100	0	12.72	12.80	12.79	14.4	0.0		
105	PI2 DSRC	100	100	12.77	12.76	12.71				
106	PI2 DSRC	200	0	12.82	12.71	12.82	14.4	0.0		
107	QPSK	1	1	12.73		12.76				
108	QPSK	1	107	12.80	12.80	12.71	14.4	0.0		
109	QPSK	1	271	12.77	12.76	12.80				
110	QPSK	100	0	12.77	12.72	12.76	14.4	0.0		
111	QPSK	100	0	12.76	12.82	12.80	14.4	0.0		
112	QPSK	100	0	12.72	12.81	12.76	14.4	0.0		
113	HSK4M	1	1	12.80	12.71	12.71	14.4	0.0		
114	HSK4M	1	1	12.72	12.77	12.76	14.4	0.0		
115	HSK4M	1	1	12.72	12.76	12.80	14.4	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	12.48	12.48	12.41	0.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	12.48	12.48	12.41	0.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	12.48	12.41	12.40	0.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	13.05	13.05	13.01	0.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	13.05	13.05	13.01	0.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	13.46	13.45	13.41	0.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	13.46	13.45	13.41	0.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	13.47	13.42	13.40	0.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	13.47	13.42	13.40	0.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	13.51	13.48	13.53	0.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	11.02	11.02	11.02	0.0	0.0		



Part270 n78 PC2&3 Ant7 DSI3											
BW (MHz)	Multiplex	RF Size	RF Other	Power Type Cl./P/Min	Power Type Cl./P/Min	Power Type Cl./P/Min	Power Type Cl./P/Min	Turn-up Time (Sec)	MFR (db)		
Channel											
Frequency (MHz)											
100	P10 BPSK	1	1		1535				16.8	0.0	
100	P10 BPSK	1	1	107	1535				16.8	0.0	
100	P10 BPSK	1	2/1		1537				16.8	0.0	
100	P10 BPSK	1	2/1	2/1	1537				16.8	0.0	
100	P10 BPSK	1	0		1539				16.8	0.0	
100	P10 BPSK	1	0	1/0	1539				16.8	0.0	
100	P10 BPSK	1	0		1541				16.8	0.0	
100	P10 BPSK	1	0	1/0	1541				16.8	0.0	
100	QPSK	1	1		1543				16.8	0.0	
100	QPSK	1	1	1/1	1543				16.8	0.0	
100	QPSK	1	2/1		1545				16.8	0.0	
100	QPSK	1	2/1	2/1	1545				16.8	0.0	
100	QPSK	1	0		1547				16.8	0.0	
100	QPSK	1	0	1/0	1547				16.8	0.0	
100	QPSK	1	0		1549				16.8	0.0	
100	QPSK	1	0	1/0	1549				16.8	0.0	
100	QPSK	1	1		1551				16.8	0.0	
100	QPSK	1	1	1/1	1551				16.8	0.0	
100	QPSK	1	1		1553				16.8	0.0	
100	QPSK	1	1	1/1	1553				16.8	0.0	
100	QPSK	1	2/1		1555				16.8	0.0	
100	QPSK	1	2/1	2/1	1555				16.8	0.0	
100	QPSK	1	0		1557				16.8	0.0	
100	QPSK	1	0	1/0	1557				16.8	0.0	
100	QPSK	1	0		1559				16.8	0.0	
100	QPSK	1	0	1/0	1559				16.8	0.0	
100	QPSK	1	1		1561				16.8	0.0	
100	QPSK	1	1	1/1	1561				16.8	0.0	
100	QPSK	1	1		1563				16.8	0.0	
100	QPSK	1	1	1/1	1563				16.8	0.0	
100	QPSK	1	2/1		1565				16.8	0.0	
100	QPSK	1	2/1	2/1	1565				16.8	0.0	
100	QPSK	1	0		1567				16.8	0.0	
100	QPSK	1	0	1/0	1567				16.8	0.0	
100	QPSK	1	0		1569				16.8	0.0	
100	QPSK	1	0	1/0	1569				16.8	0.0	
100	sQAM	1	1		1571				16.8	0.0	
100	sQAM	1	1	1/1	1571				16.8	0.0	
100	QPSK	1	1		1573				16.8	0.0	
100	QPSK	1	1	1/1	1573				16.8	0.0	
100	QPSK	1	1		1575				16.8	0.0	
100	QPSK	1	1	1/1	1575				16.8	0.0	
100	QPSK	1	2/1		1577				16.8	0.0	
100	QPSK	1	2/1	2/1	1577				16.8	0.0	
100	QPSK	1	0		1579				16.8	0.0	
100	QPSK	1	0	1/0	1579				16.8	0.0	
100	QPSK	1	0		1581				16.8	0.0	
100	QPSK	1	0	1/0	1581				16.8	0.0	
100	QPSK	1	1		1583				16.8	0.0	
100	QPSK	1	1	1/1	1583				16.8	0.0	
100	QPSK	1	1		1585				16.8	0.0	
100	QPSK	1	1	1/1	1585				16.8	0.0	
100	QPSK	1	1		1587				16.8	0.0	
100	QPSK	1	1	1/1	1587				16.8	0.0	
100	QPSK	1	2/1		1589				16.8	0.0	
100	QPSK	1	2/1	2/1	1589				16.8	0.0	
100	QPSK	1	0		1591				16.8	0.0	
100	QPSK	1	0	1/0	1591				16.8	0.0	
100	QPSK	1	0		1593				16.8	0.0	
100	QPSK	1	0	1/0	1593				16.8	0.0	
100	QPSK	1	1		1595				16.8	0.0	
100	QPSK	1	1	1/1	1595				16.8	0.0	
100	QPSK	1	1		1597				16.8	0.0	
100	QPSK	1	1	1/1	1597				16.8	0.0	
100	QPSK	1	1		1599				16.8	0.0	
100	QPSK	1	1	1/1	1599				16.8	0.0	
100	QPSK	1	2/1		1601				16.8	0.0	
100	QPSK	1	2/1	2/1	1601				16.8	0.0	
100	QPSK	1	0		1603				16.8	0.0	
100	QPSK	1	0	1/0	1603				16.8	0.0	
100	QPSK	1	0		1605				16.8	0.0	
100	QPSK	1	0	1/0	1605				16.8	0.0	
100	QPSK	1	1		1607				16.8	0.0	
100	QPSK	1	1	1/1	1607				16.8	0.0	
100	QPSK	1	1		1609				16.8	0.0	
100	QPSK	1	1	1/1	1609				16.8	0.0	
100	QPSK	1	1		1611				16.8	0.0	
100	QPSK	1	1	1/1	1611				16.8	0.0	
100	QPSK	1	1		1613				16.8	0.0	
100	QPSK	1	1	1/1	1613				16.8	0.0	
100	QPSK	1	2/1		1615				16.8	0.0	
100	QPSK	1	2/1	2/1	1615				16.8	0.0	
100	QPSK	1	0		1617				16.8	0.0	
100	QPSK	1	0	1/0	1617				16.8	0.0	
100	QPSK	1	0		1619				16.8	0.0	
100	QPSK	1	0	1/0	1619				16.8	0.0	
100	QPSK	1	1		1621				16.8	0.0	
100	QPSK	1	1	1/1	1621				16.8	0.0	
100	QPSK	1	1		1623				16.8	0.0	
100	QPSK	1	1	1/1	1623				16.8	0.0	
100	QPSK	1	1		1625				16.8	0.0	
100	QPSK	1	1	1/1	1625				16.8	0.0	
100	QPSK	1	2/1		1627				16.8	0.0	
100	QPSK	1	2/1	2/1	1627				16.8	0.0	
100	QPSK	1	0		1629				16.8	0.0	
100	QPSK	1	0	1/0	1629				16.8	0.0	
100	QPSK	1	0		1631				16.8	0.0	
100	QPSK	1	0	1/0	1631				16.8	0.0	
100	QPSK	1	1		1633				16.8	0.0	
100	QPSK	1	1	1/1	1633				16.8	0.0	
100	QPSK	1	1		1635				16.8	0.0	
100	QPSK	1	1	1/1	1635				16.8	0.0	
100	QPSK	1	1		1637				16.8	0.0	
100	QPSK	1	1	1/1	1637				16.8	0.0	
100	QPSK	1	1		1639				16.8	0.0	
100	QPSK	1	1	1/1	1639				16.8	0.0	
100	QPSK	1	1		1641				16.8	0.0	
100	QPSK	1	1	1/1	1641				16.8	0.0	
100	QPSK	1	1		1643				16.8	0.0	
100	QPSK	1	1	1/1	1643				16.8	0.0	
100	QPSK	1	1		1645				16.8	0.0	
100	QPSK	1	1	1/1	1645				16.8	0.0	
100	QPSK	1	1		1647				16.8	0.0	
100	QPSK	1	1	1/1	1647				16.8	0.0	
100	QPSK	1	1		1649				16.8	0.0	
100	QPSK	1	1	1/1	1649				16.8	0.0	
100	QPSK	1	1		1651				16.8	0.0	
100	QPSK	1	1	1/1	1651				16.8	0.0	
100	QPSK	1	1		1653				16.8	0.0	
100	QPSK	1	1	1/1	1653				16.8	0.0	
100	QPSK	1	1		1655				16.8	0.0	
100	QPSK	1	1	1/1	1655				16.8	0.0	
100	QPSK	1	1		1657				16.8	0.0	
100	QPSK	1	1	1/1	1657				16.8	0.0	
100	QPSK	1	1		1659				16.8	0.0	
100	QPSK	1	1	1/1	1659				16.8	0.0	
100	QPSK	1	1		1661				16.		



n5 NSA Ant 0 DSI6								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Turn-up time (dBm)	MFR (dB)
Channel								
20	PUS-BPSK	1	1	22.84	22.90	22.91	24.0	0.0
20	PUS-BPSK	1	53	22.85	22.94	22.81	24.0	0.0
20	PUS-BPSK	1	105	22.85	22.92	22.83	24.0	0.0
20	PUS-BPSK	56	0	22.87	22.93	22.85	24.0	0.0
20	PUS-BPSK	56	20	22.88	22.95	22.79	24.0	0.0
20	PUS-BPSK	56	56	22.75	22.92	22.73	24.0	0.0
20	PUS-BPSK	100	0	22.88	22.90	22.79	24.0	0.0
20	QPSK	1	1	22.95	22.95	22.95	24.0	0.0
20	QPSK	1	53	22.74	22.98	22.88	24.0	0.0
20	QPSK	1	104	22.71	22.95	22.83	24.0	0.0
20	QPSK	56	0	22.97	22.99	22.99	24.0	0.0
20	QPSK	56	20	22.98	23.06	22.96	24.0	0.0
20	QPSK	56	56	22.75	22.91	22.88	24.0	0.0
20	QPSK	100	0	22.73	22.99	22.90	24.0	0.0
20	HQAM	1	1	22.46	22.77	22.68	24.0	0.0
20	HQAM	1	1	21.88	23.28	23.14	24.0	0.0
20	HQAM	1	1	21.30	23.78	23.24	22.3	1.5
Channel								
15	QPSK	1	1	16.63	16.70	16.63	MPR	0.0
15	QPSK	1	1	23.35	23.30	23.35	24.0	0.0
Channel								
10	QPSK	1	1	16.68	16.70	16.68	MPR	0.0
10	QPSK	1	1	23.27	23.27	23.29	24.0	0.0
Channel								
5	QPSK	1	1	16.3	16.3	16.3	MPR	0.0

n7 Ant 0 DSI6								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Turn-up time (dBm)	MFR (dB)
Channel								
40	PUS-BPSK	1	1	22.58	22.61	22.63	24.0	0.0
40	PUS-BPSK	1	108	22.14	22.41	22.38	24.0	0.0
40	PUS-BPSK	1	214	22.28	22.48	22.29	24.0	0.0
40	PUS-BPSK	168	0	22.24	22.41	22.37	24.0	0.0
40	PUS-BPSK	168	56	22.26	22.38	22.15	24.0	0.0
40	PUS-BPSK	168	168	22.13	22.37	22.68	24.0	0.0
40	PUS-BPSK	216	0	22.16	22.33	22.28	24.0	0.0
40	QPSK	1	1	22.52	22.52	22.51	24.0	0.0
40	QPSK	1	108	22.24	22.40	22.16	24.0	0.0
40	QPSK	1	214	22.18	22.45	22.23	24.0	0.0
40	QPSK	168	0	22.11	22.30	22.26	24.0	0.0
40	QPSK	168	56	22.29	22.44	22.1	24.0	0.0
40	QPSK	168	168	22.14	22.38	22.68	24.0	0.0
40	QPSK	216	0	22.17	22.32	22.82	24.0	0.0
40	HQAM	1	1	22.22	22.36	22.18	23.5	0.5
40	HQAM	1	1	22.05	22.24	21.89	22.5	1.5
40	HQAM	1	1	21.81	22.01	21.65	21.5	2.5
Channel								
30	QPSK	1	1	16.63	16.70	16.63	MPR	0.0
30	QPSK	1	1	22.45	22.73	22.5	24.0	0.0
Channel								
25	QPSK	1	1	22.22	22.57	22.37	24.0	0.0
Channel								
20	QPSK	1	1	22.08	22.11	22.1	24.0	0.0
15	QPSK	1	1	22.15	22.15	22.15	24.0	0.0
Channel								
10	QPSK	1	1	22.52	22.58	22.47	24.0	0.0
Channel								
10	QPSK	1	1	22.48	22.53	22.46	24.0	0.0
Channel								
10	QPSK	1	1	20.95	20.70	21.50	MPR	0.0
Channel								
10	QPSK	1	1	22.63	22.61	22.63	24.0	0.0

n7 Ant 1 DSI6								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Turn-up time (dBm)	MFR (dB)
Channel								
40	PUS-BPSK	1	1	19.53	19.53	19.51	24.0	0.0
40	PUS-BPSK	1	108	19.12	19.13	19.20	20.7	0.0
40	PUS-BPSK	1	214	19.17	19.29	19.17	20.7	0.0
40	PUS-BPSK	168	0	19.20	19.12	19.33	20.7	0.0
40	PUS-BPSK	168	56	19.21	19.25	19.24	20.7	0.0
40	PUS-BPSK	168	168	19.18	19.08	19.24	20.7	0.0
40	PUS-BPSK	216	0	19.21	19.11	19.27	20.7	0.0
40	QPSK	1	1	19.27	19.33	19.27	20.7	0.0
40	QPSK	1	108	19.18	19.13	19.13	20.7	0.0
40	QPSK	1	214	19.11	19.19	19.13	20.7	0.0
40	QPSK	168	0	19.13	19.25	19.21	20.7	0.0
40	QPSK	168	56	19.26	19.21	19.21	20.7	0.0
40	QPSK	168	168	19.25	19.20	19.27	20.7	0.0
40	QPSK	216	0	19.15	19.24	19.37	20.7	0.0
40	HQAM	1	1	19.14	19.28	19.21	20.7	0.0
40	HQAM	1	1	19.15	19.18	19.13	20.7	0.0
40	HQAM	1	1	19.18	19.17	19.11	20.7	0.0
Channel								
30	QPSK	1	1	19.20	19.10	19.10	MPR	0.0
30	QPSK	1	1	22.42	22.71	22.5	24.0	0.0
Channel								
25	QPSK	1	1	19.15	19.13	19.09	20.7	0.0
Channel								
20	QPSK	1	1	19.14	19.09	19.05	20.7	0.0
Channel								
15	QPSK	1	1	19.13	19.10	19.08	20.7	0.0
Channel								
10	QPSK	1	1	19.13	19.11	19.07	20.7	0.0
Channel								
10	QPSK	1	1	19.10	19.10	19.10	MPR	0.0
Channel								
10	QPSK	1	1	20.85	20.75	20.67	MPR	0.0
Channel								
10	QPSK	1	1	19.14	19.12	19.11	20.7	0.0

n6 Ant 1 DSI6								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Turn-up time (dBm)	MFR (dB)
Channel								
40	PUS-BPSK	1	1	19.11	19.05	19.10	21.0	0.0
40	PUS-BPSK	1	108	19.08	19.05	19.11	21.0	0.0
40	PUS-BPSK	1	214	19.08	19.05	19.09	21.0	0.0
40	PUS-BPSK	168	0	19.09	19.03	19.20	21.0	0.0
40	PUS-BPSK	168	56	19.10	19.03	19.03	21.0	0.0
40	PUS-BPSK	168	168	19.06	19.06	19.02	21.0	0.0
40	PUS-BPSK	216	0	19.03	19.07	19.11	21.0	0.0
40	QPSK	1	1	19.09	19.07	19.05	21.0	0.0
40	QPSK	1	108	19.01	19.01	19.08	21.0	0.0
40	QPSK	1	214	19.08	19.08	19.02	21.0	0.0
40	QPSK	168	0	19.03	19.04	19.08	21.0	0.0
40	QPSK	168	56	19.01	19.05	19.07	21.0	0.0
40	QPSK	168	168	19.04	19.01	19.00	21.0	0.0
40	QPSK	216	0	19.06	19.04	19.04	21.0	0.0
40	HQAM	1	1	19.07	19.09	19.04	21.0	0.0
40	HQAM	1	1	19.09	19.09	19.01	21.0	0.0
40	HQAM	1	1	19.10	19.04	19.00	21.0	0.0
Channel								
30	QPSK	1	1	19.08	19.01	19.01	MPR	0.0
30	QPSK	1	1	22.46	22.73	22.5	24.0	0.0
Channel								
20	QPSK	1	1	19.03	19.03	19.02	21.0	0.0
Channel								
15	QPSK	1	1	19.04	19.01	19.01	21.0	0.0
Channel								
10	QPSK	1	1	19.03	19.03	19.03	MPR	0.0
Channel								
10	QPSK	1	1	19.04	19.04	19.01	21.0	0.0
Channel								
10	QPSK	1	1	19.04	19.04	19.01	21.0	0.0
Channel								
10	QPSK	1	1	19.01	19.01	19.01	MPR	0.0
Channel								
10	QPSK	1	1	20.87	20.73	20.68	MPR	0.0
Channel								
10	QPSK	1	1	19.07	19.06	19.01	21.0	0.0



Rev	Part	Module	Part Size	Part Desc	Power Input (W)	Power Output (W)	Power Eff (%)	Temp Rise (°C)	Temp Rise (°C)	Temp Rise (°C)	Temp Rise (°C)	MFR	QTY
n38 Ant1 DS16													
Channel													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			
Frequency (MHz)													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			
Channel													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			
Frequency (MHz)													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			
Channel													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			
Frequency (MHz)													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			
Channel													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			
Frequency (MHz)													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			

Rev	Part	Module	Part Size	Part Desc	Power Input (W)	Power Output (W)	Power Eff (%)	Temp Rise (°C)	Temp Rise (°C)	Temp Rise (°C)	Temp Rise (°C)	MFR	QTY
Par27Q n77 Ant2 DS16													
Channel													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			
Frequency (MHz)													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			
Channel													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			
Frequency (MHz)													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			
Channel													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			
Frequency (MHz)													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			
Channel													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			
Frequency (MHz)													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			

Rev	Part	Module	Part Size	Part Desc	Power Input (W)	Power Output (W)	Power Eff (%)	Temp Rise (°C)	Temp Rise (°C)	Temp Rise (°C)	Temp Rise (°C)	MFR	QTY
Part27O n77 Ant2 DS16													
Channel													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			
Frequency (MHz)													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			
Channel													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			
Frequency (MHz)													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			
Channel													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			
Frequency (MHz)													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			
Channel													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			
Frequency (MHz)													
38	PIU	PIU-DS16	1	1	10.70	10.67	10.00	10.00	21.1	0.0			



Part270 n78 PC2&3 Ant2 DS16									
BW (MHz)	Multiplex	RS Size	RS Other	Power Type Ch / (F, B)	Power Type Ch / (F, B)	Power Type Ch / (F, B)	Turn-up Rate (dB)	MPE (%)	
Channel									
Frequency (MHz)									
160	PI2 BPSK	1	1	1737				160	0.0
160	PI2 BPSK	1	1	1742				160	0.0
160	PI2 BPSK	1	2/1	1747				160	0.0
160	PI2 BPSK	1	0	1752				160	0.0
160	PI2 BPSK	136	0/6	1757				160	0.0
160	PI2 BPSK	136	0/6	1762				160	0.0
160	PI2 BPSK	270	0	1767				160	0.0
160	QPSK	1	1	1772				160	0.0
160	QPSK	1	1/2	1777				160	0.0
160	QPSK	1	0	1782				160	0.0
160	QPSK	136	0/6	1787				160	0.0
160	QPSK	136	0/6	1792				160	0.0
160	QPSK	270	0	1797				160	0.0
160	QPSK	270	0	1802				160	0.0
160	QPSK	1	1	1807				160	0.0
160	QPSK	1	1	1812				160	0.0
160	QPSK	1	1	1817				160	0.0
160	QPSK	1	1	1822				160	0.0
160	QPSK	1	1	1827				160	0.0
160	QPSK	1	1	1832				160	0.0
160	QPSK	1	1	1837				160	0.0
160	QPSK	1	1	1842				160	0.0
160	QPSK	1	1	1847				160	0.0
160	QPSK	1	1	1852				160	0.0
160	QPSK	1	1	1857				160	0.0
160	QPSK	1	1	1862				160	0.0
160	QPSK	1	1	1867				160	0.0
160	QPSK	1	1	1872				160	0.0
160	QPSK	1	1	1877				160	0.0
160	QPSK	1	1	1882				160	0.0
160	QPSK	1	1	1887				160	0.0
160	QPSK	1	1	1892				160	0.0
160	QPSK	1	1	1897				160	0.0
160	QPSK	1	1	1902				160	0.0
160	QPSK	1	1	1907				160	0.0
160	QPSK	1	1	1912				160	0.0
160	QPSK	1	1	1917				160	0.0
160	QPSK	1	1	1922				160	0.0
160	QPSK	1	1	1927				160	0.0
160	QPSK	1	1	1932				160	0.0
160	QPSK	1	1	1937				160	0.0
160	QPSK	1	1	1942				160	0.0
160	QPSK	1	1	1947				160	0.0
160	QPSK	1	1	1952				160	0.0
160	QPSK	1	1	1957				160	0.0
160	QPSK	1	1	1962				160	0.0
160	QPSK	1	1	1967				160	0.0
160	QPSK	1	1	1972				160	0.0
160	QPSK	1	1	1977				160	0.0
160	QPSK	1	1	1982				160	0.0
160	QPSK	1	1	1987				160	0.0
160	QPSK	1	1	1992				160	0.0
160	QPSK	1	1	1997				160	0.0
160	QPSK	1	1	2002				160	0.0
160	QPSK	1	1	2007				160	0.0
160	QPSK	1	1	2012				160	0.0
160	QPSK	1	1	2017				160	0.0
160	QPSK	1	1	2022				160	0.0
160	QPSK	1	1	2027				160	0.0
160	QPSK	1	1	2032				160	0.0
160	QPSK	1	1	2037				160	0.0
160	QPSK	1	1	2042				160	0.0
160	QPSK	1	1	2047				160	0.0
160	QPSK	1	1	2052				160	0.0
160	QPSK	1	1	2057				160	0.0
160	QPSK	1	1	2062				160	0.0
160	QPSK	1	1	2067				160	0.0
160	QPSK	1	1	2072				160	0.0
160	QPSK	1	1	2077				160	0.0
160	QPSK	1	1	2082				160	0.0
160	QPSK	1	1	2087				160	0.0
160	QPSK	1	1	2092				160	0.0
160	QPSK	1	1	2097				160	0.0
160	QPSK	1	1	2102				160	0.0
160	QPSK	1	1	2107				160	0.0
160	QPSK	1	1	2112				160	0.0
160	QPSK	1	1	2117				160	0.0
160	QPSK	1	1	2122				160	0.0
160	QPSK	1	1	2127				160	0.0
160	QPSK	1	1	2132				160	0.0
160	QPSK	1	1	2137				160	0.0
160	QPSK	1	1	2142				160	0.0
160	QPSK	1	1	2147				160	0.0
160	QPSK	1	1	2152				160	0.0
160	QPSK	1	1	2157				160	0.0
160	QPSK	1	1	2162				160	0.0
160	QPSK	1	1	2167				160	0.0
160	QPSK	1	1	2172				160	0.0
160	QPSK	1	1	2177				160	0.0
160	QPSK	1	1	2182				160	0.0
160	QPSK	1	1	2187				160	0.0
160	QPSK	1	1	2192				160	0.0
160	QPSK	1	1	2197				160	0.0
160	QPSK	1	1	2202				160	0.0
160	QPSK	1	1	2207				160	0.0
160	QPSK	1	1	2212				160	0.0
160	QPSK	1	1	2217				160	0.0
160	QPSK	1	1	2222				160	0.0
160	QPSK	1	1	2227				160	0.0
160	QPSK	1	1	2232				160	0.0
160	QPSK	1	1	2237				160	0.0
160	QPSK	1	1	2242				160	0.0
160	QPSK	1	1	2247				160	0.0
160	QPSK	1	1	2252				160	0.0
160	QPSK	1	1	2257				160	0.0
160	QPSK	1	1	2262				160	0.0
160	QPSK	1	1	2267				160	0.0
160	QPSK	1	1	2272				160	0.0
160	QPSK	1	1	2277				160	0.0
160	QPSK	1	1	2282				160	0.0
160	QPSK	1	1	2287				160	0.0
160	QPSK	1	1	2292				160	0.0
160	QPSK	1	1	2297				160	0.0
160	QPSK	1	1	2302				160	0.0
160	QPSK	1	1	2307				160	0.0
160	QPSK	1	1	2312				160	0.0
160	QPSK	1	1	2317				160	0.0
160	QPSK	1	1	2322				160	0.0
160	QPSK	1	1	2327				160	0.0
160	QPSK	1	1	2332				160	0.0
160	QPSK	1	1	2337				160	0.0
160	QPSK	1	1	2342				160	0.0
160	QPSK	1	1	2347				160	0.0
160	QPSK	1	1	2352				160	0.0
160	QPSK	1	1	2357				160	0.0
160	QPSK	1	1	2362				160	0.0
160	QPSK	1	1	2367				160	0.0
160	QPSK	1	1	2372				160	0.0
160	QPSK	1	1	2377				160	0.0
160	QPSK	1	1	2382				160	0.0
160	QPSK	1	1	2387				160	0.0
160	QPSK	1	1	2392				160	0.0
160	QPSK	1	1	2397				160	0.0
160	QPSK	1	1	2402				160	0.0
160	QPSK	1	1	2407				160	0.0
160	QPSK	1	1	2412				160	0.0
160	QPSK	1	1	2417				160	0.0
160	QPSK	1	1	2422				160	0.0
160	QPSK	1	1	2427				160	0.0
160	QPSK	1	1	2432				160	0.0
160	QPSK	1	1	2437				160	0.0
160	QPSK	1	1	2442				160	0.0
160	QPSK	1	1	2447				160	0.0
160	QPSK	1	1	2452				160	0.0
160	QPSK	1	1	2457				160	0.0
160	QPSK	1	1	2462				160	0.0
160	QPSK	1	1	2467				160	0.0
160	QPSK	1	1	2472				160	0.0
160	QPSK	1	1	2477				160	0.0
160	QPSK	1	1	2482				160	0.0
160	QPSK	1	1	2487				160	0.0
160	QPSK	1	1	2492				160	0.0
160	QPSK	1	1	2497				160	0.0
160	QPSK	1	1	2502				160	0.0
160	QPSK	1	1	2507				160	0.0
160	QPSK	1	1	2512				160	0.0
160	QPSK	1	1	2517				160	0.0
160	QPSK	1	1	2522				160	0.0
160	QPSK	1	1	2527				160	0.0
160	QPSK	1	1	2532				160	0.0
160	QPSK	1	1	2537				160	0.0
160	QPSK	1	1	2542				160	0.0
160	QPSK	1	1	2547				160	0.0
160	QPSK	1	1	2552				160	0.0
160	QPSK	1	1	2557				160	0.0
160	QPSK	1	1	2562				160	0.0
160	QPSK	1	1	2567				160	0.0
160	QPSK	1	1	2572				160	0.0
160	QPSK	1	1	2577				160	0.0
160	QPSK	1	1	2582				160	0.0
160	QPSK	1	1	2587				160	0.0
160	QPSK	1	1	2592				160	0.0
160	QPSK	1	1	2597				160	0.0
160	QPSK	1	1	2602				160	0.0
160	QPSK	1	1	2607				160	0.0
160	QPSK	1							



Part27Q n78 PC2&3 Ant7									
BW (MHz)	Multiplex	FD Size	FD Chnl	Power Cl / PPM	Power Ch / PPM	Power TPT / Ch / PPM	Turn-up time (min)	MFR (dB)	
Challenge									
Frequency (MHz)									
100	FD	SPSK	1	1		2054			
100	FD	SPSK	1	1		2052		22.5	0.0
100	FD	SPSK	1	211		2045			
100	FD	SPSK	1	211		2043		22.5	0.0
100	FD	SPSK	1	20		2070			
100	FD	SPSK	1	20		2068		22.5	0.0
100	FD	SPSK	1	210		2077			
100	FD	SPSK	1	210		2075		22.5	0.0
100	CPFR	1	1	1		2054			
100	CPFR	1	1	1		2052		22.5	0.0
100	CPFR	1	211	1		2045			
100	CPFR	1	211	1		2043		22.5	0.0
100	CPFR	1	20	1		2070			
100	CPFR	1	20	1		2068		22.5	0.0
100	CPFR	1	210	1		2077			
100	CPFR	1	210	1		2075		22.5	0.0
100	spDM	1	1	1		2054			
100	spDM	1	1	1		2052		22.5	0.0
100	spDM	1	1	1		2054			
100	spDM	1	1	1		2052		22.5	0.0
100	spDM	1	1	1		2054			
100	spDM	1	1	1		2052		22.5	0.0
Challenge									
Frequency (MHz)									
90	CPFR	1	1	1		2054		22.5	0.0
90	CPFR	1	1	1		2052		22.5	0.0
Challenge									
Frequency (MHz)									
90	CPFR	1	1	1		2054		22.5	0.0
90	CPFR	1	1	1		2052		22.5	0.0
Challenge									
Frequency (MHz)									
70	CPFR	1	1	1		2054		22.5	0.0
70	CPFR	1	1	1		2052		22.5	0.0
Challenge									
Frequency (MHz)									
60	CPFR	1	1	1		2054		22.5	0.0
60	CPFR	1	1	1		2052		22.5	0.0
Challenge									
Frequency (MHz)									
40	CPFR	1	1	1		2054		22.5	0.0
40	CPFR	1	1	1		2052		22.5	0.0
Challenge									
Frequency (MHz)									
30	CPFR	1	1	1		2054		22.5	0.0
30	CPFR	1	1	1		2052		22.5	0.0
Challenge									
Frequency (MHz)									
20	CPFR	1	1	1		2054		22.5	0.0
20	CPFR	1	1	1		2052		22.5	0.0

Part27O n78 PC2&3 Ant7									
BW (MHz)	Multiplex	FD Size	FD Chnl	Power Cl / PPM	Power Ch / PPM	Power TPT / Ch / PPM	Turn-up time (min)	MFR (dB)	
Challenge									
Frequency (MHz)									
100	FD	SPSK	1	1		2058			
100	FD	SPSK	1	1		2054		22.5	0.0
100	FD	SPSK	1	211		2029			
100	FD	SPSK	1	211		2027		22.5	0.0
100	FD	SPSK	1	20		2054			
100	FD	SPSK	1	20		2050		22.5	0.0
100	FD	SPSK	1	210		2054			
100	FD	SPSK	1	210		2050		22.5	0.0
100	CPFR	1	1	1		2058			
100	CPFR	1	1	1		2054		22.5	0.0
100	CPFR	1	211	1		2029			
100	CPFR	1	211	1		2027		22.5	0.0
100	CPFR	1	20	1		2054			
100	CPFR	1	20	1		2050		22.5	0.0
100	CPFR	1	210	1		2054			
100	CPFR	1	210	1		2050		22.5	0.0
100	spDM	1	1	1		2058			
100	spDM	1	1	1		2054		22.5	0.0
100	spDM	1	1	1		2058			
100	spDM	1	1	1		2054		22.5	0.0
100	spDM	1	1	1		2058			
100	spDM	1	1	1		2054		22.5	0.0
Challenge									
Frequency (MHz)									
90	CPFR	1	1	1		2058		22.5	0.0
90	CPFR	1	1	1		2054		22.5	0.0
Challenge									
Frequency (MHz)									
90	CPFR	1	1	1		2058		22.5	0.0
90	CPFR	1	1	1		2054		22.5	0.0
Challenge									
Frequency (MHz)									
70	CPFR	1	1	1		2058		22.5	0.0
70	CPFR	1	1	1		2054		22.5	0.0
Challenge									
Frequency (MHz)									
60	CPFR	1	1	1		2058		22.5	0.0
60	CPFR	1	1	1		2054		22.5	0.0
Challenge									
Frequency (MHz)									
40	CPFR	1	1	1		2058		22.5	0.0
40	CPFR	1	1	1		2054		22.5	0.0
Challenge									
Frequency (MHz)									
30	CPFR	1	1	1		2058		22.5	0.0
30	CPFR	1	1	1		2054		22.5	0.0
Challenge									
Frequency (MHz)									
20	CPFR	1	1	1		2058		22.5	0.0
20	CPFR	1	1	1		2054		22.5	0.0

Part27Q n78 Ant8 DS16									
BW (MHz)	Multiplex	FD Size	FD Chnl	Power Cl / PPM	Power Ch / PPM	Power TPT / Ch / PPM	Turn-up time (min)	MFR (dB)	
Challenge									
Frequency (MHz)									
100	FD	SPSK	1	1		2156			
100	FD	SPSK	1	1		2154		22.5	0.0
100	FD	SPSK	1	211		2122			
100	FD	SPSK	1	211		2120		22.5	0.0
100	FD	SPSK	1	20		2156			
100	FD	SPSK	1	20		2152		22.5	0.0
100	FD	SPSK	1	210		2156			
100	FD	SPSK	1	210		2152		22.5	0.0
100	CPFR	1	1	1		2156			
100	CPFR	1	1	1		2154		22.5	0.0
100	CPFR	1	211	1		2122			
100	CPFR	1	211	1		2120		22.5	0.0
100	CPFR	1	20	1		2156			
100	CPFR	1	20	1		2152		22.5	0.0
100	CPFR	1	210	1		2156			
100	CPFR	1	210	1		2152		22.5	0.0
100	spDM	1	1	1		2156			
100	spDM	1	1	1		2154		22.5	0.0
100	spDM	1	1	1		2156			
100	spDM	1	1	1		2154		22.5	0.0
100	spDM	1	1	1		2156			
100	spDM	1	1	1		2154		22.5	0.0
Challenge									
Frequency (MHz)									
90	CPFR	1	1	1		2156		22.5	0.0
90	CPFR	1	1	1		2154		22.5	0.0
Challenge									
Frequency (MHz)									
90	CPFR	1	1	1		2156		22.5	0.0
90	CPFR	1	1	1		2154		22.5	0.0
Challenge									
Frequency (MHz)									
70	CPFR	1	1	1		2156		22.5	0.0
70	CPFR	1	1	1		2154		22.5	0.0
Challenge									
Frequency (MHz)									
60	CPFR	1	1	1		2156		22.5	0.0
60	CPFR	1	1	1		2154		22.5	0.0
Challenge									
Frequency (MHz)									
40	CPFR	1	1	1		2156		22.5	0.0
40	CPFR	1	1	1		2154		22.5	0.0
Challenge									
Frequency (MHz)									
30	CPFR	1	1	1		2156		22.5	0.0
30	CPFR	1	1	1		2154		22.5	0.0
Challenge									
Frequency (MHz)									
20	CPFR	1	1	1		2156		22.5	0.0
20	CPFR	1	1	1		2154		22.5	0.0

Part27O n78 Ant8 DS16									
BW (MHz)	Multiplex	FD Size	FD Chnl	Power Cl / PPM	Power Ch / PPM	Power TPT / Ch / PPM	Turn-up time (min)	MFR (dB)	
Challenge									
Frequency (MHz)									
100	FD	SPSK	1	1		2158			
100	FD	SPSK	1	1		2156		22.5	0.0
100	FD	SPSK	1	211		2126			
100	FD	SPSK	1	211		2124		22.5	0.0
100	FD	SPSK	1	20		2158			
100	FD	SPSK	1	20		2154		22.5	0.0
100	FD	SPSK	1	210		2158			
100	FD	SPSK	1	210		2154		22.5	0.0
100	CPFR	1	1	1		2158			
100	CPFR	1	1	1		2156		22.5	0.0
100	CPFR	1	211	1		2126			
100	CPFR	1	211	1		2124		22.5	0.0
100	CPFR	1	20	1		2158			
100	CPFR	1	20	1		2154		22.5	0.0
100	CPFR	1	210	1		2158			
100	CPFR	1	210	1		2154		22.5	0.0
100	spDM	1	1	1		2158			
100	spDM	1	1	1		2156		22.5	0.0
100	spDM	1	1	1		2158			
100	spDM	1	1	1		2156		22.5	0.0
100	spDM	1	1	1		2158			
100	spDM	1	1	1		2156		22.5	0.0
Challenge									
Frequency (MHz)									
90	CPFR	1	1	1		2158		22.5	0.0
90	CPFR	1	1	1		2156		22.5	0.0
Challenge									
Frequency (MHz)									
90	CPFR	1	1	1		2158		22.5	0.0
90	CPFR	1	1	1		2156		22.5	0.0
Challenge									
Frequency (MHz)									
70	CPFR	1	1	1		2158		22.5	0.0
70	CPFR	1	1	1		2156		22.5	0.0
Challenge									
Frequency (MHz)									
60	CPFR	1	1	1		2158		22.5	0.0
60	CPFR	1	1	1		2156		22.5	0.0
Challenge									
Frequency (MHz)									
40	CPFR	1	1	1		2158		22.5	0.0
40	CPFR	1	1	1		2156		22.5	0.0
Challenge									
Frequency (MHz)									
30	CPFR	1	1	1		2158		22.5	0.0
30	CPFR	1	1	1		2156		22.5	0.0
Challenge									
Frequency (MHz)									
20	CPFR	1	1	1		2158		22.5	0.0
20	CPFR	1	1	1		2156		22.5	0.0



n7 Ant1 DSI2 Simultaneous								
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				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	17.04	17.10	17.09		
40	PI/2 BPSK	1	108	17.13	17.03	17.14	18.3	0.0
40	PI/2 BPSK	1	214	17.14	17.03	17.05		
40	PI/2 BPSK	108	0	17.13	17.05	17.03	18.3	0.0
40	PI/2 BPSK	108	54	17.04	17.05	17.06	18.3	0.0
40	PI/2 BPSK	108	108	17.12	17.01	17.14	18.3	0.0
40	PI/2 BPSK	216	0	17.14	17.12	17.11		
40	QPSK	1	1	17.07	17.23	17.14		
40	QPSK	1	108	17.12	17.02	17.04	18.3	0.0
40	QPSK	1	214	17.14	17.06	17.00		
40	QPSK	108	0	17.04	17.11	17.04	18.3	0.0
40	QPSK	108	54	17.06	17.15	17.12	18.3	0.0
40	QPSK	108	108	17.11	17.11	17.05	18.3	0.0
40	QPSK	216	0	17.07	17.11	17.09		
40	16QAM	1	1	17.00	17.05	17.10	18.3	0.0
40	64QAM	1	1	17.05	17.12	17.00	18.3	0.0
40	256QAM	1	1	17.07	17.02	17.02	18.3	0.0
Channel				503000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	18.3	0.0
30	QPSK	1	1	16.85	17.11	16.93		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	18.3	0.0
25	QPSK	1	1	16.89	17.15	17.05		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	18.3	0.0
20	QPSK	1	1	16.96	17.02	16.91		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	18.3	0.0
15	QPSK	1	1	16.88	17.02	17.08		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	18.3	0.0
10	QPSK	1	1	16.89	17.02	16.93		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	18.3	0.0
5	QPSK	1	1	16.95	17.12	17.08		

n66 Ant1 DSI2 Simultaneous								
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				348000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	15.08	15.17	15.08		
40	PI/2 BPSK	1	108	15.13	15.13	15.13	16.4	0.0
40	PI/2 BPSK	1	214	15.18	15.17	15.15		
40	PI/2 BPSK	108	0	15.11	15.09	15.12	16.4	0.0
40	PI/2 BPSK	108	54	15.18	15.17	15.08	16.4	0.0
40	PI/2 BPSK	108	108	15.18	15.06	15.21	16.4	0.0
40	PI/2 BPSK	216	0	15.12	15.10	15.07		
40	QPSK	1	1	15.20	15.29	15.07		
40	QPSK	1	108	15.20	15.11	15.12	16.4	0.0
40	QPSK	1	214	15.18	15.16	15.16		
40	QPSK	108	0	15.11	15.13	15.12	16.4	0.0
40	QPSK	108	54	15.09	15.14	15.11	16.4	0.0
40	QPSK	108	108	15.11	15.09	15.09	16.4	0.0
40	QPSK	216	0	15.11	15.19	15.14		
40	16QAM	1	1	15.19	15.18	15.15	16.4	0.0
40	64QAM	1	1	15.15	15.15	15.13	16.4	0.0
40	256QAM	1	1	15.10	15.21	15.16	16.4	0.0
Channel				346500	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	16.4	0.0
30	QPSK	1	1	15.04	15.16	14.91		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	16.4	0.0
20	QPSK	1	1	15.04	15.08	14.94		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	16.4	0.0
15	QPSK	1	1	15.08	15.19	14.98		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	16.4	0.0
10	QPSK	1	1	15.08	15.15	14.91		
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	16.4	0.0
5	QPSK	1	1	15.09	15.18	14.93		



n38 Ant1 DS12 Simultaneous										
BV (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	Tune-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)				19104	19100	19104				
40	PUSC	1	0	18.54	18.50	18.62				
40	PUSC	1	53	18.50	18.56	18.48	17.8	0.0		
40	PUSC	1	104	18.40	18.51	18.51				
40	PUSC	50	0	18.57	18.57	18.53	17.8	0.0		
40	PUSC	50	50	18.50	18.56	18.56	17.8	0.0		
40	PUSC	50	56	18.51	18.56	18.56	17.8	0.0		
40	PUSC	100	0	18.50	18.50	18.49				
40	QPSK	1	0	18.50	18.50	18.51				
40	QPSK	1	53	18.50	18.54	18.59	17.8	0.0		
40	QPSK	1	104	18.51	18.55	18.58				
40	QPSK	50	0	18.53	18.57	18.50	17.8	0.0		
40	QPSK	50	50	18.51	18.56	18.56	17.8	0.0		
40	QPSK	50	56	18.50	18.51	18.58	17.8	0.0		
40	QPSK	100	0	18.50	18.51	18.58				
40	HQDM	1	1	18.50	18.56	18.52	17.8	0.0		
40	HQDM	1	1	18.40	18.52	18.61	17.8	0.0		
40	HQDM	1	1	18.01	18.40	18.58	17.8	0.0		
Channel										
Frequency (MHz)				19104	19100	20304	Tune-up time	MPR		
Channel				19104	19100	20304	(min)	(dB)		
50	QPSK	1	1	18.40	18.50	18.30	17.8	0.0		
Channel										
Frequency (MHz)				20800	20800	20200	Tune-up time	MPR		
Channel				20800	20800	20200	(min)	(dB)		
20	QPSK	1	1	18.40	18.50	18.30	17.8	0.0		
Channel										
Frequency (MHz)				20700	20700	20100	Tune-up time	MPR		
Channel				20700	20700	20100	(min)	(dB)		
15	QPSK	1	1	18.40	18.50	18.34	17.8	0.0		
Channel										
Frequency (MHz)				20700	20700	20100	Tune-up time	MPR		
Channel				20700	20700	20100	(min)	(dB)		
15	QPSK	1	1	18.30	18.50	18.37	17.8	0.0		

Par27Q n77 Ant2 DS12 Simultaneous										
BV (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	Tune-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)				19104	19100	19104				
100	PUSC	1	1		19.03					
100	PUSC	1	137		19.78		20.4	0.0		
100	PUSC	1	271		19.80					
100	PUSC	155	0		19.79		20.4	0.0		
100	PUSC	155	50		19.80		20.4	0.0		
100	PUSC	155	136		19.80		20.4	0.0		
100	PUSC	270	0		19.78		20.4	0.0		
100	QPSK	1	1		19.80					
100	QPSK	1	137		19.83		20.4	0.0		
100	QPSK	1	271		19.80					
100	QPSK	155	0		19.78		20.4	0.0		
100	QPSK	155	50		19.80		20.4	0.0		
100	QPSK	155	136		19.83		20.4	0.0		
100	QPSK	270	0		19.77		20.4	0.0		
100	HQDM	1	1		19.82		20.4	0.0		
100	HQDM	1	1		19.85		20.4	0.0		
100	HQDM	1	1		19.90		18.0	1.4		
Channel										
Frequency (MHz)				63500	63534	63568	Tune-up time	MPR		
Channel				63500	63534	63568	(min)	(dB)		
90	QPSK	1	1	19.51	19.53	19.52	0.0	0.0		
Channel										
Frequency (MHz)				63568	63534	63400	Tune-up time	MPR		
Channel				63568	63534	63400	(min)	(dB)		
80	QPSK	1	1	19.63	19.80	19.67	0.0	0.0		
Channel										
Frequency (MHz)				63500	63534	63568	Tune-up time	MPR		
Channel				63500	63534	63568	(min)	(dB)		
70	QPSK	1	1	19.70	19.68	19.64	0.0	0.0		
Channel										
Frequency (MHz)				63500	63534	63568	Tune-up time	MPR		
Channel				63500	63534	63568	(min)	(dB)		
90	QPSK	1	1	19.60	19.50	19.60	0.0	0.0		
Channel										
Frequency (MHz)				63534	63534	63532	Tune-up time	MPR		
Channel				63534	63534	63532	(min)	(dB)		
40	QPSK	1	1	19.60	19.61	19.61	0.0	0.0		
Channel										
Frequency (MHz)				34000	34000	34000	Tune-up time	MPR		
Channel				34000	34000	34000	(min)	(dB)		
90	QPSK	1	1	19.60	19.58	19.62	0.0	0.0		
Channel										
Frequency (MHz)				63500	63534	63568	Tune-up time	MPR		
Channel				63500	63534	63568	(min)	(dB)		
90	QPSK	1	1	19.60	19.55	19.72	0.0	0.0		

Part27O n77 Ant2 DS12 Simultaneous										
BV (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	Tune-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)				60000	60000	60000				
100	PUSC	1	1		19.28	19.31	19.31			
100	PUSC	1	137		19.20	19.29	19.20	20.4	0.0	
100	PUSC	1	271		19.22	19.21	19.20			
100	PUSC	155	0		19.24	19.19	19.13	20.4	0.0	
100	PUSC	155	50		19.21	19.22	19.20	20.4	0.0	
100	PUSC	155	136		19.19	19.27	19.19	20.4	0.0	
100	PUSC	270	0		19.20	19.22	19.20			
100	QPSK	1	1		19.20	19.20				
100	QPSK	1	137		19.19	19.19	19.20	20.4	0.0	
100	QPSK	1	271		19.20	19.20	19.21			
100	QPSK	155	0		19.20	19.22	19.20	20.4	0.0	
100	QPSK	155	50		19.24	19.21	19.20	20.4	0.0	
100	QPSK	155	136		19.20	19.18	19.19	20.4	0.0	
100	QPSK	270	0		19.19	19.20	19.21			
100	HQDM	1	1		19.23	19.25	19.21	20.4	0.0	
100	HQDM	1	1		18.87	19.21	19.02	20.4	0.0	
100	HQDM	1	1		18.10	18.18	17.97	18.0	1.4	
Channel										
Frequency (MHz)				64068	64000	64234	Tune-up time	MPR		
Channel				64068	64000	64234	(min)	(dB)		
90	QPSK	1	1	19.13	19.00	19.04	20.4	0.0		
Channel										
Frequency (MHz)				64068	64000	64068	Tune-up time	MPR		
Channel				64068	64000	64068	(min)	(dB)		
80	QPSK	1	1	19.13	19.08	19.08	19.08	20.4	0.0	
Channel										
Frequency (MHz)				64000	64000	64000	Tune-up time	MPR		
Channel				64000	64000	64000	(min)	(dB)		
70	QPSK	1	1	19.08	19.11	19.10	19.10	20.4	0.0	
Channel										
Frequency (MHz)				64068	64000	64068	Tune-up time	MPR		
Channel				64068	64000	64068	(min)	(dB)		
90	QPSK	1	1	19.14	19.04	19.00	20.4	0.0		
Channel										
Frequency (MHz)				64034	64000	64088	Tune-up time	MPR		
Channel				64034	64000	64088	(min)	(dB)		
90	QPSK	1	1	19.00	19.00	19.00	20.4	0.0		
Channel										
Frequency (MHz)				64000	64000	64000	Tune-up time	MPR		
Channel				64000	64000	64000	(min)	(dB)		
40	QPSK	1	1	19.01	19.07	19.12	20.4	0.0		
Channel										
Frequency (MHz)				37400	37400	37400	Tune-up time	MPR		
Channel				37400	37400	37400	(min)	(dB)		
90	QPSK	1	1	18.11	18.11	18.12	20.4	0.0		
Channel										
Frequency (MHz)				37400	37400	37400	Tune-up time	MPR		
Channel				37400	37400	37400	(min)	(dB)		
20	QPSK	1	1	19.12	19.09	19.07	20.4	0.0		



Part270 n78 Ant2 DS12 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 (Freq.)	Power Middle Ch.2 (Freq.)	Power High Ch.3 (Freq.)	Turn-up limit (dBm)	MPE (dB)	
Channel									
100	PI2 BPSK	1	1	19.50					
100	PI2 BPSK	1	137	19.93			20.4	0.0	
100	PI2 BPSK	1	271	19.95					
100	PI2 BPSK	135	0	19.99			20.4	0.0	
100	PI2 BPSK	135	80	19.95			20.4	0.0	
100	PI2 BPSK	135	138	19.91			20.4	0.0	
100	PI2 BPSK	270	0	19.98					
100	QPSK	1	1	19.95					
100	QPSK	1	137	19.91			20.4	0.0	
100	QPSK	1	271	19.97					
100	QPSK	135	0	19.94			20.4	0.0	
100	QPSK	135	80	19.94			20.4	0.0	
100	QPSK	135	138	19.91			20.4	0.0	
100	QPSK	270	0	19.98			20.4	0.0	
100	HQAM	1	1	19.79			20.4	0.0	
100	HQAM	1	1	19.88			20.4	0.0	
100	HQAM	1	1	19.89			20.4	0.0	
Channel									
				83300	83334	83368	Turn-up limit (dBm)	MPE (dB)	
50	QPSK	1	1	19.50	19.79	19.81	20.4	0.0	
Channel									
				83368	83334	83400	Turn-up limit (dBm)	MPE (dB)	
50	QPSK	1	1	19.50	19.51	19.52	20.4	0.0	
Channel									
				83400	83334	83368	Turn-up limit (dBm)	MPE (dB)	
80	QPSK	1	1	19.74	19.80	19.86	20.4	0.0	
Channel									
				83334	83334	83334	Turn-up limit (dBm)	MPE (dB)	
70	QPSK	1	1	19.75	19.81	19.79	20.4	0.0	
Channel									
				83334	83334	83334	Turn-up limit (dBm)	MPE (dB)	
60	QPSK	1	1	19.70	19.72	19.74	20.4	0.0	
Channel									
				83368	83334	83300	Turn-up limit (dBm)	MPE (dB)	
50	QPSK	1	1	19.82	19.72	19.82	20.4	0.0	
Channel									
				83334	83334	83332	Turn-up limit (dBm)	MPE (dB)	
40	QPSK	1	1	19.72	19.74	19.82	20.4	0.0	
Channel									
				83334	83334	83334	Turn-up limit (dBm)	MPE (dB)	
30	QPSK	1	1	19.74	19.74	19.82	20.4	0.0	
Channel									
				83334	83334	83300	Turn-up limit (dBm)	MPE (dB)	
20	QPSK	1	1	19.82	19.76	19.81	20.4	0.0	

Part270 n78 PC2&3 Ant2 DS12 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 (Freq.)	Power Middle Ch.2 (Freq.)	Power High Ch.3 (Freq.)	Turn-up limit (dBm)	MPE (dB)	
Channel									
100	PI2 BPSK	1	1	19.89					
100	PI2 BPSK	1	137	19.83			20.4	0.0	
100	PI2 BPSK	1	271	19.85					
100	PI2 BPSK	135	0	19.81			20.4	0.0	
100	PI2 BPSK	135	80	19.85			20.4	0.0	
100	PI2 BPSK	135	138	19.49			20.4	0.0	
100	PI2 BPSK	270	0	19.84					
100	QPSK	1	1	19.81					
100	QPSK	1	137	19.85			20.4	0.0	
100	QPSK	1	271	19.83					
100	QPSK	135	0	19.82			20.4	0.0	
100	QPSK	135	80	19.84			20.4	0.0	
100	QPSK	135	138	19.44			20.4	0.0	
100	QPSK	270	0	19.82			20.4	0.0	
100	HQAM	1	1	19.52			20.4	0.0	
100	HQAM	1	1	19.48			20.4	0.0	
100	HQAM	1	1	19.46			20.4	0.0	
Channel									
				84998	85000	85034	Turn-up limit (dBm)	MPE (dB)	
50	QPSK	1	1	19.54	19.39	19.54	20.4	0.0	
Channel									
				84934	85000	85098	Turn-up limit (dBm)	MPE (dB)	
80	QPSK	1	1	19.42	19.50	19.60	20.4	0.0	
Channel									
				84934	85000	85184	Turn-up limit (dBm)	MPE (dB)	
70	QPSK	1	1	19.40	19.41	19.41	20.4	0.0	
Channel									
				84998	85000	85098	Turn-up limit (dBm)	MPE (dB)	
60	QPSK	1	1	19.38	19.40	19.40	20.4	0.0	
Channel									
				84934	85000	85184	Turn-up limit (dBm)	MPE (dB)	
50	QPSK	1	1	19.34	19.40	19.39	20.4	0.0	
Channel									
				84998	85000	85200	Turn-up limit (dBm)	MPE (dB)	
40	QPSK	1	1	19.28	19.40	19.43	20.4	0.0	
Channel									
				84934	85000	85200	Turn-up limit (dBm)	MPE (dB)	
30	QPSK	1	1	19.47	19.39	19.39	20.4	0.0	
Channel									
				84934	85000	85200	Turn-up limit (dBm)	MPE (dB)	
20	QPSK	1	1	19.36	19.44	19.41	20.4	0.0	

Part270Q n78 PC2&3 Ant8 DS12 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 (Freq.)	Power Middle Ch.2 (Freq.)	Power High Ch.3 (Freq.)	Turn-up limit (dBm)	MPE (dB)	
Channel									
100	PI2 BPSK	1	1	21.86					
100	PI2 BPSK	1	137	22.24			22.9	0.0	
100	PI2 BPSK	1	271	22.02					
100	PI2 BPSK	135	0	22.01			22.9	0.0	
100	PI2 BPSK	135	80	22.02			22.9	0.0	
100	PI2 BPSK	135	138	21.86			22.9	0.0	
100	PI2 BPSK	270	0	21.86					
100	QPSK	1	1	22.02					
100	QPSK	1	137	22.14			22.9	0.0	
100	QPSK	1	271	22.02					
100	QPSK	135	0	22.01			22.9	0.0	
100	QPSK	135	80	22.02			22.9	0.0	
100	QPSK	135	138	21.86			22.9	0.0	
100	QPSK	270	0	21.87			22.9	0.0	
100	HQAM	1	1	21.86			22.9	0.0	
100	HQAM	1	1	22.19			22.9	0.0	
100	HQAM	1	1	21.86			22.9	0.0	
Channel									
				83300	83334	83368	Turn-up limit (dBm)	MPE (dB)	
50	QPSK	1	1	22.03	22.05	22.02	22.9	0.0	
Channel									
				83368	83334	83400	Turn-up limit (dBm)	MPE (dB)	
80	QPSK	1	1	21.99	22.13	21.90	22.9	0.0	
Channel									
				83334	83334	83334	Turn-up limit (dBm)	MPE (dB)	
70	QPSK	1	1	21.90	22.06	21.87	22.9	0.0	
Channel									
				83334	83334	83334	Turn-up limit (dBm)	MPE (dB)	
60	QPSK	1	1	22.08	22.19	22.09	22.9	0.0	
Channel									
				83368	83334	83300	Turn-up limit (dBm)	MPE (dB)	
50	QPSK	1	1	21.99	21.86	21.91	22.9	0.0	
Channel									
				83334	83334	83332	Turn-up limit (dBm)	MPE (dB)	
40	QPSK	1	1	21.98	22.11	21.80	22.9	0.0	
Channel									
				83334	83334	83334	Turn-up limit (dBm)	MPE (dB)	
30	QPSK	1	1	21.97	22.06	21.87	22.9	0.0	
Channel									
				83334	83334	83300	Turn-up limit (dBm)	MPE (dB)	
20	QPSK	1	1	21.88	22.12	21.87	22.9	0.0	

Part270 n78 Ant8 DS12 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 (Freq.)	Power Middle Ch.2 (Freq.)	Power High Ch.3 (Freq.)	Turn-up limit (dBm)	MPE (dB)	
Channel									
100	PI2 BPSK	1	1	21.84					
100	PI2 BPSK	1	137	21.82			22.9	0.0	
100	PI2 BPSK	1	271	21.98					
100	PI2 BPSK	135	0	21.73			22.9	0.0	
100	PI2 BPSK	135	80	21.82			22.9	0.0	
100	PI2 BPSK	135	138	21.85			22.9	0.0	
100	PI2 BPSK	270	0	21.82			22.9	0.0	
100	QPSK	1	1	22.02					
100	QPSK	1	137	21.99			22.9	0.0	
100	QPSK	1	271	21.98					
100	QPSK	135	0	21.77			22.9	0.0	
100	QPSK	135	80	21.82			22.9	0.0	
100	QPSK	135	138	21.81			22.9	0.0	
100	QPSK	270	0	21.81			22.9	0.0	
100	HQAM	1	1	21.82			22.9	0.0	
100	HQAM	1	1	21.86			22.9	0.0	
100	HQAM	1	1	21.76			22.9	0.0	
Channel									
				84988	85000	85034	Turn-up limit (dBm)	MPE (dB)	
50	QPSK	1	1	21.85	21.83	21.85	22.9	0.0	
Channel									
				84934	85000	85098	Turn-up limit (dBm)	MPE (dB)	
80	QPSK	1	1	21.84	21.76	21.77	22.9	0.0	
Channel									
				84998	85000	85184	Turn-up limit (dBm)	MPE (dB)	
70	QPSK	1	1	21.82	21.83	21.83	22.9	0.0	
Channel									
				84934	85000	85184	Turn-up limit (dBm)	MPE (dB)	
60	QPSK	1	1	21.82	21.72	21.79	22.9	0.0	
Channel									
				84934	85000	85184	Turn-up limit (dBm)	MPE (dB)	
50	QPSK	1	1	21.82	21.93	21.79	22.9	0.0	
Channel									
				84998	85000	85200	Turn-up limit (dBm)	MPE (dB)	
40	QPSK	1	1	21.81	21.74	21.75	22.9	0.0	
Channel									
				84934	85000	85200	Turn-up limit (dBm)	MPE (dB)	
30	QPSK	1	1	21.82	21.82	21.82	22.9	0.0	
Channel									
				84934	85000	85200	Turn-up limit (dBm)	MPE (dB)	
20	QPSK	1	1	21.79	21.71	21.91	22.9	0.0	



n5 NSA Ant0 DS13 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (W)	Power Media Ch. 1 (W)	Power High Ch. 1 (W)	Turn-up time (dBm)	MPR (dB)	
Channel	Frequency (MHz)		18680		18700	18760			
20	PI2-BPSK	1	1	14.75	14.95	15.35	15.5	0.0	
20	PI2-BPSK	1	53	21.55	21.95	23.73	23.3	0.0	
20	PI2-BPSK	1	105	21.95	21.95	21.93	23.3	0.0	
20	PI2-BPSK	59	0	21.29	21.81	21.71	23.3	0.0	
20	PI2-BPSK	59	20	21.95	21.95	21.68	23.3	0.0	
20	PI2-BPSK	59	58	21.62	21.98	21.72	23.3	0.0	
20	PI2-BPSK	109	0	21.85	22.00	21.74	23.3	0.0	
20	QPSK	1	1	22.05	22.14	22.01	23.3	0.0	
20	QPSK	1	53	21.85	22.00	21.80	23.3	0.0	
20	QPSK	1	104	21.65	22.00	21.93	23.3	0.0	
20	QPSK	59	0	21.50	21.95	21.85	23.3	0.0	
20	QPSK	59	20	21.68	21.95	21.81	23.3	0.0	
20	QPSK	59	58	21.74	21.90	21.88	23.3	0.0	
20	QPSK	109	0	21.65	21.94	21.75	23.3	0.0	
20	SSBAM	1	1	21.58	21.68	21.62	23.3	0.0	
20	SSBAM	1	1	22.08	21.88	21.88	23.3	0.0	
20	SSBAM	1	1	21.25	21.48	21.22	22.3	0.8	
				18838	18700	18620		MPR	
				212	18716	18716		MPR	
15	QPSK	1	1	21.55	21.54	21.85	23.3	0.0	
				18838	18700	18680		MPR	
15	QPSK	1	1	21.65	21.65	21.64	23.3	0.0	
10	QPSK	1	1	21.65	21.77	21.83	23.3	0.0	
				18838	18700	18700		MPR	
				1863	1863	1863		MPR	
1	QPSK	1	1	21.65	21.69	21.58	23.3	0.0	

n7 Ant0 DS13 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (W)	Power Media Ch. 1 (W)	Power High Ch. 1 (W)	Turn-up time (dBm)	MPR (dB)	
Channel	Frequency (MHz)		30400		30700	31000			
40	PI2-BPSK	1	1	14.48	14.52	14.50	15.5	0.0	
40	PI2-BPSK	1	108	14.49	14.55	14.43	15.5	0.0	
40	PI2-BPSK	1	214	14.27	14.40	14.45	15.5	0.0	
40	PI2-BPSK	168	0	14.29	14.42	14.29	15.5	0.0	
40	PI2-BPSK	168	56	14.41	14.37	14.38	15.5	0.0	
40	PI2-BPSK	168	168	14.31	14.41	14.41	15.5	0.0	
40	PI2-BPSK	216	0	14.32	14.44	14.39	15.5	0.0	
40	QPSK	1	1	14.50	14.50	14.49	15.5	0.0	
40	QPSK	1	108	14.47	14.39	14.31	15.5	0.0	
40	QPSK	1	214	14.27	14.38	14.38	15.5	0.0	
40	QPSK	168	0	14.29	14.44	14.29	15.5	0.0	
40	QPSK	168	56	14.41	14.40	14.44	15.5	0.0	
40	QPSK	168	168	14.33	14.35	14.42	15.5	0.0	
40	QPSK	216	0	14.41	14.45	14.39	15.5	0.0	
40	SSBAM	1	1	14.44	14.32	14.28	15.5	0.0	
40	SSBAM	1	1	14.35	14.47	14.42	15.5	0.0	
40	SSBAM	1	1	14.28	14.48	14.44	15.5	0.0	
				30392	30700	31000		MPR	
30	QPSK	1	1	14.32	14.45	14.46	15.5	0.0	
				30290	30700	31000		MPR	
				29215	2930	29218		MPR	
25	QPSK	1	1	14.47	14.33	14.50	15.5	0.0	
				30100	30100	30100		MPR	
20	QPSK	1	1	14.42	14.42	14.40	15.5	0.0	
				30700	30700	30700		MPR	
15	QPSK	1	1	14.42	14.33	14.48	15.5	0.0	
				30700	30700	31000		MPR	
10	QPSK	1	1	14.29	14.33	14.33	15.5	0.0	
				30500	30700	31000		MPR	
5	QPSK	1	1	14.47	14.31	14.50	15.5	0.0	

n7 Ant1 DS13 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (W)	Power Media Ch. 1 (W)	Power High Ch. 1 (W)	Turn-up time (dBm)	MPR (dB)	
Channel	Frequency (MHz)		30400		30700	31000			
40	PI2-BPSK	1	1	15.17	15.21	15.16	16.3	0.0	
40	PI2-BPSK	1	108	15.25	15.30	15.22	16.3	0.0	
40	PI2-BPSK	1	214	15.23	15.14	15.16	16.3	0.0	
40	PI2-BPSK	168	0	15.29	15.14	15.31	16.3	0.0	
40	PI2-BPSK	168	56	15.14	15.17	15.16	16.3	0.0	
40	PI2-BPSK	168	168	15.23	15.16	15.23	16.3	0.0	
40	PI2-BPSK	216	0	15.22	15.20	15.22	16.3	0.0	
40	QPSK	1	1	15.35	15.35	15.32	16.3	0.0	
40	QPSK	1	108	15.19	15.18	15.15	16.3	0.0	
40	QPSK	1	214	15.23	15.15	15.27	16.3	0.0	
40	QPSK	168	0	15.14	15.22	15.13	16.3	0.0	
40	QPSK	168	56	15.13	15.25	15.21	16.3	0.0	
40	QPSK	168	168	15.23	15.16	15.16	16.3	0.0	
40	QPSK	216	0	15.16	15.20	15.19	16.3	0.0	
40	SSBAM	1	1	15.08	15.18	15.21	16.3	0.0	
40	SSBAM	1	1	15.13	15.21	15.09	16.3	0.0	
40	SSBAM	1	1	15.14	15.13	15.13	16.3	0.0	
				30392	30700	31000		MPR	
30	QPSK	1	1	15.10	15.26	15.25	16.3	0.0	
				30290	30700	31000		MPR	
				30115	3030	30118		MPR	
25	QPSK	1	1	15.07	15.22	15.18	16.3	0.0	
				30100	30100	30100		MPR	
				2910	2910	2910		MPR	
20	QPSK	1	1	15.13	15.16	15.13	16.3	0.0	
				30700	30700	30700		MPR	
15	QPSK	1	1	15.07	15.16	15.11	16.3	0.0	
				30500	30700	31000		MPR	
10	QPSK	1	1	15.10	15.15	15.11	16.3	0.0	
				30900	30700	30900		MPR	
5	QPSK	1	1	15.09	15.28	15.15	16.3	0.0	

n66 Ant1 DS13 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (W)	Power Media Ch. 1 (W)	Power High Ch. 1 (W)	Turn-up time (dBm)	MPR (dB)	
Channel	Frequency (MHz)		34000		34000	35000			
40	PI2-BPSK	1	1	14.08	14.17	14.08	15.5	0.0	
40	PI2-BPSK	1	108	14.13	14.13	14.13	15.5	0.0	
40	PI2-BPSK	1	214	14.18	14.17	14.13	15.5	0.0	
40	PI2-BPSK	168	0	14.11	14.09	14.12	15.5	0.0	
40	PI2-BPSK	168	56	14.16	14.17	14.09	15.5	0.0	
40	PI2-BPSK	168	168	14.18	14.06	14.21	15.5	0.0	
40	PI2-BPSK	216	0	14.12	14.10	14.07	15.5	0.0	
40	QPSK	1	1	14.20	14.20	14.20	15.5	0.0	
40	QPSK	1	108	14.20	14.11	14.12	15.5	0.0	
40	QPSK	1	214	14.18	14.16	14.18	15.5	0.0	
40	QPSK	168	0	14.11	14.13	14.12	15.5	0.0	
40	QPSK	168	56	14.06	14.28	14.11	15.5	0.0	
40	QPSK	168	168	14.11	14.09	14.09	15.5	0.0	
40	QPSK	216	0	14.11	14.10	14.14	15.5	0.0	
40	SSBAM	1	1	14.18	14.18	14.15	15.5	0.0	
40	SSBAM	1	1	14.15	14.15	14.13	15.5	0.0	
40	SSBAM	1	1	14.10	14.23	14.18	15.5	0.0	
				34000	34000	35000		MPR	
30	QPSK	1	1	14.21	14.24	14.20	15.5	0.0	
				34000	34000	34000		MPR	
				1702	1745	1700		MPR	
20	QPSK	1	1	14.07	14.36	14.11	15.5	0.0	
				34000	34000	35000		MPR	
				1717.5	1745	1717.5		MPR	
15	QPSK	1	1	14.08	14.34	14.20	15.5	0.0	
				34000	34000	35000		MPR	
				1745	1745	1745		MPR	
10	QPSK	1	1	14.24	14.23	14.20	15.5	0.0	
				34000	34000	35000		MPR	
5	QPSK	1	1	14.07	14.23	14.13	15.5	0.0	



n38 Ant1 DS13 Simultaneous								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac.)	Power Middle Ch. (Frac.)	Power High Ch. (Frac.)	Tune-up limit (dBm)	MPR (dB)
Channel								
	Frequency (MHz)	1	1	14.52	14.52	14.52		
40	PSS-SSBSC	1	53	14.52	14.57	14.48	15.6	0.0
40	PSS-SSBSC	1	104	14.52	14.51	14.52		
40	PSS-SSBSC	50	0	14.52	14.56	14.50	15.0	0.0
40	PSS-SSBSC	50	50	14.52	14.55	14.51	15.0	0.0
40	PSS-SSBSC	100	0	14.42	14.52	14.42	15.0	0.0
40	QPSK	1	1	14.52	14.51	14.52	15.6	0.0
40	QPSK	1	53	14.52	14.54	14.41	15.6	0.0
40	QPSK	1	104	14.51	14.52	14.52		
40	QPSK	50	0	14.52	14.59	14.52	15.0	0.0
40	QPSK	50	50	14.52	14.51	14.48	15.0	0.0
40	QPSK	50	50	14.52	14.52	14.51	15.0	0.0
40	QPSK	100	0	14.42	14.52	14.42	15.0	0.0
40	HQDM	1	1	14.52	14.52	14.52	15.0	0.0
40	HQDM	1	1	14.52	14.52	14.81	15.0	0.0
40	HQDM	1	1	14.42	14.52	14.42	15.0	0.0
Channel								
	Frequency (MHz)	517004	518000	520500			Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	14.42	14.52	14.42	15.6	0.0
Channel								
	Frequency (MHz)	518000	519000	522000			Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	14.52	14.55	14.38	15.0	0.0
Channel								
	Frequency (MHz)	520500	521000	523500			Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	14.42	14.52	14.39	15.0	0.0
Channel								
	Frequency (MHz)	523500	524000	525500			Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	14.42	14.52	14.42	15.0	0.0

Par27Q n77 Ant2 DS13 Simultaneous								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac.)	Power Middle Ch. (Frac.)	Power High Ch. (Frac.)	Tune-up limit (dBm)	MPR (dB)
Channel								
	Frequency (MHz)	1	1		11.77			
100	PSS-SSBSC	1	1		11.77			
100	PSS-SSBSC	1	137		11.74		12.9	0.0
100	PSS-SSBSC	1	274		11.82			
100	PSS-SSBSC	155	0		11.82		12.9	0.0
100	PSS-SSBSC	155	50		11.82		12.9	0.0
100	PSS-SSBSC	155	155		11.87		12.9	0.0
100	PSS-SSBSC	270	0		11.82			
100	QPSK	1	1		11.82		12.9	0.0
100	QPSK	1	137		11.82		12.9	0.0
100	QPSK	1	274		11.87			
100	QPSK	155	0		11.82		12.9	0.0
100	QPSK	155	50		11.82		12.9	0.0
100	QPSK	155	155		11.87		12.9	0.0
100	QPSK	270	0		11.82			
100	HQDM	1	1		11.77		12.9	0.0
100	HQDM	1	1		11.83		12.9	0.0
100	HQDM	1	1		11.75		12.9	0.0
Channel								
	Frequency (MHz)	633000	633334	633668			Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	11.62	11.90	11.75	0.0	0.0
Channel								
	Frequency (MHz)	633668	633334	634000			Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	11.62	11.94	11.71	0.0	0.0
Channel								
	Frequency (MHz)	633334	633334	633334			Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	11.61	11.95	11.71	0.0	0.0
Channel								
	Frequency (MHz)	633334	633334	633668			Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	11.62	11.91	11.75	0.0	0.0
Channel								
	Frequency (MHz)	633334	633334	633332			Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	11.61	11.95	11.71	0.0	0.0
Channel								
	Frequency (MHz)	633334	633334	633668			Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	11.62	11.92	11.82	0.0	0.0
Channel								
	Frequency (MHz)	633668	633334	633668			Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	11.62	11.95	11.72	0.0	0.0

Part27Q n77 Ant2 DS13 Simultaneous								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac.)	Power Middle Ch. (Frac.)	Power High Ch. (Frac.)	Tune-up limit (dBm)	MPR (dB)
Channel								
	Frequency (MHz)	1	1		11.82			
100	PSS-SSBSC	1	1		11.82			
100	PSS-SSBSC	1	137		11.81		12.9	0.0
100	PSS-SSBSC	1	274		11.84			
100	PSS-SSBSC	155	0		11.82		12.9	0.0
100	PSS-SSBSC	155	50		11.82		12.9	0.0
100	PSS-SSBSC	155	155		11.87		12.9	0.0
100	PSS-SSBSC	270	0		11.82			
100	QPSK	1	1		11.82		12.9	0.0
100	QPSK	1	137		11.82		12.9	0.0
100	QPSK	1	274		11.87			
100	QPSK	155	0		11.82		12.9	0.0
100	QPSK	155	50		11.82		12.9	0.0
100	QPSK	155	155		11.87		12.9	0.0
100	QPSK	270	0		11.82			
100	HQDM	1	1		11.84		12.9	0.0
100	HQDM	1	1		11.78		12.9	0.0
100	HQDM	1	1		11.75		12.9	0.0
Channel								
	Frequency (MHz)	640668	640668	640668			Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	11.62	11.92	11.75	0.0	0.0
Channel								
	Frequency (MHz)	640668	640668	640668			Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	11.61	11.91	11.72	0.0	0.0
Channel								
	Frequency (MHz)	640668	640668	640668			Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	11.62	11.95	11.71	0.0	0.0
Channel								
	Frequency (MHz)	640668	640668	640668			Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	11.61	11.91	11.72	0.0	0.0
Channel								
	Frequency (MHz)	640668	640668	640668			Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	11.62	11.92	11.75	0.0	0.0
Channel								
	Frequency (MHz)	640668	640668	640668			Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	11.61	11.91	11.72	0.0	0.0
Channel								
	Frequency (MHz)	640668	640668	640668			Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	11.62	11.92	11.75	0.0	0.0
Channel								
	Frequency (MHz)	640668	640668	640668			Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	11.61	11.91	11.72	0.0	0.0



Part27Q n78 PC2&3 Ant2 DSIS Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac.)	Power High Ch. (Frac.)	Power Max Ch. (Frac.)	Turn-up time (dBm)	MPR (dB)
Channel								
100	PLCP-BPSK	1	1	12.00	12.00	12.00		
Frequency (MHz)								
100	PLCP-BPSK	1	1	12.00	12.00	12.00		
100	PLCP-BPSK	1	137	12.22	12.22	12.22	13.2	0.0
100	PLCP-BPSK	1	271	12.00	12.00	12.00		
100	PLCP-BPSK	135	0	12.04	12.04	12.04		
100	PLCP-BPSK	135	96	12.16	12.16	12.16		
100	PLCP-BPSK	135	138	12.13	12.13	12.13	13.2	0.0
100	PLCP-BPSK	270	0	12.14	12.14	12.14		
100	QPSK	1	1	12.00	12.00	12.00		
100	QPSK	1	137	12.22	12.22	12.22	13.2	0.0
100	QPSK	1	271	12.00	12.00	12.00		
100	QPSK	135	0	12.12	12.12	12.12		
100	QPSK	135	96	12.08	12.08	12.08		
100	QPSK	135	138	12.08	12.08	12.08	13.2	0.0
100	QPSK	270	0	12.17	12.17	12.17		
100	HQAM	1	1	12.01	12.01	12.01		
100	HQAM	1	1	12.25	12.25	12.25		
100	HQAM	1	1	12.04	12.04	12.04		
Channel								
50	QPSK	1	1	12.04	12.04	12.04	13.2	0.0
Frequency (MHz)								
50	QPSK	1	1	12.04	12.04	12.04	13.2	0.0
Channel								
80	QPSK	1	1	11.94	11.96	11.95	13.2	0.0
Frequency (MHz)								
80	QPSK	1	1	11.94	11.96	11.95	13.2	0.0
Channel								
70	QPSK	1	1	12.04	11.99	11.91	13.2	0.0
Frequency (MHz)								
70	QPSK	1	1	12.04	11.99	11.91	13.2	0.0
Channel								
50	QPSK	1	1	11.20	11.00	10.90	13.2	0.0
Frequency (MHz)								
50	QPSK	1	1	11.20	11.00	10.90	13.2	0.0
Channel								
40	QPSK	1	1	11.02	11.02	11.02	13.2	0.0
Frequency (MHz)								
40	QPSK	1	1	11.02	11.02	11.02	13.2	0.0
Channel								
30	QPSK	1	1	12.02	12.04	12.04	13.2	0.0
Frequency (MHz)								
30	QPSK	1	1	12.02	12.04	12.04	13.2	0.0
Channel								
20	QPSK	1	1	12.02	12.01	11.90	13.2	0.0

Part27Q n78 PC2&3 Ant2 DSIS Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac.)	Power High Ch. (Frac.)	Power Max Ch. (Frac.)	Turn-up time (dBm)	MPR (dB)
Channel								
100	PLCP-BPSK	1	1	11.85	11.85	11.85		
Frequency (MHz)								
100	PLCP-BPSK	1	1	11.85	11.85	11.85		
100	PLCP-BPSK	1	137	11.37	11.37	11.37	13.2	0.0
100	PLCP-BPSK	1	271	11.25	11.25	11.25		
100	PLCP-BPSK	135	0	11.21	11.21	11.21		
100	PLCP-BPSK	135	96	11.01	11.01	11.01		
100	PLCP-BPSK	135	138	11.23	11.23	11.23	13.2	0.0
100	PLCP-BPSK	270	0	11.31	11.31	11.31		
100	QPSK	1	1	11.00	11.00	11.00		
100	QPSK	1	137	11.24	11.24	11.24	13.2	0.0
100	QPSK	1	271	11.00	11.00	11.00		
100	QPSK	135	0	11.28	11.28	11.28		
100	QPSK	135	96	11.08	11.08	11.08		
100	QPSK	135	138	11.20	11.20	11.20	13.2	0.0
100	QPSK	270	0	11.20	11.20	11.20		
100	HQAM	1	1	11.21	11.21	11.21		
100	HQAM	1	1	11.45	11.45	11.45		
100	HQAM	1	1	11.01	11.01	11.01		
Channel								
50	QPSK	1	1	11.00	11.00	11.00	13.2	0.0
Frequency (MHz)								
50	QPSK	1	1	11.00	11.00	11.00	13.2	0.0
Channel								
80	QPSK	1	1	11.20	11.17	11.20	13.2	0.0
Frequency (MHz)								
80	QPSK	1	1	11.20	11.17	11.20	13.2	0.0
Channel								
70	QPSK	1	1	11.04	11.04	11.20	13.2	0.0
Frequency (MHz)								
70	QPSK	1	1	11.04	11.04	11.20	13.2	0.0
Channel								
50	QPSK	1	1	11.23	11.10	11.23	13.2	0.0
Frequency (MHz)								
50	QPSK	1	1	11.23	11.10	11.23	13.2	0.0
Channel								
40	QPSK	1	1	11.02	11.02	11.02	13.2	0.0
Frequency (MHz)								
40	QPSK	1	1	11.02	11.02	11.02	13.2	0.0
Channel								
30	QPSK	1	1	11.02	11.02	11.02	13.2	0.0
Frequency (MHz)								
30	QPSK	1	1	11.02	11.02	11.02	13.2	0.0
Channel								
20	QPSK	1	1	11.02	11.02	11.02	13.2	0.0

Part27Q n78 PC2&3 Ant7 DSIS Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac.)	Power High Ch. (Frac.)	Power Max Ch. (Frac.)	Turn-up time (dBm)	MPR (dB)
Channel								
100	PLCP-BPSK	1	1	15.21	15.21	15.21		
Frequency (MHz)								
100	PLCP-BPSK	1	1	15.21	15.21	15.21		
100	PLCP-BPSK	1	137	15.40	15.40	15.40	16.2	0.0
100	PLCP-BPSK	1	271	15.25	15.25	15.25		
100	PLCP-BPSK	135	0	15.19	15.19	15.19		
100	PLCP-BPSK	135	96	15.07	15.07	15.07		
100	PLCP-BPSK	135	138	15.18	15.18	15.18	16.2	0.0
100	PLCP-BPSK	270	0	15.17	15.17	15.17		
100	QPSK	1	1	15.00	15.00	15.00		
100	QPSK	1	137	15.45	15.45	15.45	16.2	0.0
100	QPSK	1	271	15.12	15.12	15.12		
100	QPSK	135	0	15.20	15.20	15.20		
100	QPSK	135	96	15.04	15.04	15.04		
100	QPSK	135	138	15.13	15.13	15.13	16.2	0.0
100	QPSK	270	0	15.17	15.17	15.17		
100	HQAM	1	1	15.17	15.17	15.17		
100	HQAM	1	1	15.09	15.09	15.09		
100	HQAM	1	1	15.20	15.20	15.20		
Channel								
50	QPSK	1	1	15.00	15.00	15.00	16.2	0.0
Frequency (MHz)								
50	QPSK	1	1	15.00	15.00	15.00	16.2	0.0
Channel								
80	QPSK	1	1	15.24	15.27	15.21	16.2	0.0
Frequency (MHz)								
80	QPSK	1	1	15.24	15.27	15.21	16.2	0.0
Channel								
70	QPSK	1	1	15.21	15.14	15.14	16.2	0.0
Frequency (MHz)								
70	QPSK	1	1	15.21	15.14	15.14	16.2	0.0
Channel								
50	QPSK	1	1	15.25	15.25	15.23	16.2	0.0
Frequency (MHz)								
50	QPSK	1	1	15.25	15.25	15.23	16.2	0.0
Channel								
40	QPSK	1	1	15.14	15.13	15.13	16.2	0.0
Frequency (MHz)								
40	QPSK	1	1	15.14	15.13	15.13	16.2	0.0
Channel								
30	QPSK	1	1	15.00	15.00	15.00	16.2	0.0
Frequency (MHz)								
30	QPSK	1	1	15.00	15.00	15.00	16.2	0.0
Channel								
20	QPSK	1	1	15.05	15.17	15.16	16.2	0.0

Part27Q n78 PC2&3 Ant7 DSIS Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac.)	Power High Ch. (Frac.)	Power Max Ch. (Frac.)	Turn-up time (dBm)	MPR (dB)
Channel								
100	PLCP-BPSK	1	1	15.15	15.15	15.15		
Frequency (MHz)								
100	PLCP-BPSK	1	1	15.15	15.15	15.15		
100	PLCP-BPSK	1	137	15.30	15.30	15.30	16.2	0.0
100	PLCP-BPSK	1	271	15.47	15.47	15.47		
100	PLCP-BPSK	135	0	15.21	15.21	15.21		
100	PLCP-BPSK	135	96	15.09	15.09	15.09		
100	PLCP-BPSK	135	138	15.30	15.30	15.30	16.2	0.0
100	PLCP-BPSK	270	0	15.21	15.21	15.21		
100	QPSK	1	1	15.00	15.00	15.00		
100	QPSK	1	137	15.29	15.29	15.29	16.2	0.0
100	QPSK	1	271	15.21	15.21	15.21		
100	QPSK	135	0	15.20	15.20	15.20		
100	QPSK	135	96	15.04	15.04	15.04		
100	QPSK	135	138	15.10	15.10	15.10	16.2	0.0
100	QPSK	270	0	15.47	15.47	15.47		
100	HQAM	1	1	15.15	15.15	15.15		
100	HQAM	1	1	15.18	15.18	15.18		
100	HQAM	1	1	15.13	15.13	15.13		
Channel								
50	QPSK	1	1	15.00	15.00	15.00	16.2	0.0
Frequency (MHz)								
50	QPSK	1	1	15.00	15.00	15.00	16.2	0.0
Channel								
80	QPSK	1	1	15.40	15.41	15.38	16.2	0.0
Frequency (MHz)								
80	QPSK	1	1	15.40	15.41	15.38	16.2	0.0
Channel								
70	QPSK	1	1	15.22	15.05	15.10	16.2	0.0
Frequency (MHz)								
70	QPSK	1	1	15.22	15.05	15.10	16.2	0.0
Channel								
50	QPSK	1	1	15.19	15.22	15.18	16.2	0.0
Frequency (MHz)								
50	QPSK	1	1	15.19	15.22	15.18	16.2	0.0
Channel								
40	QPSK	1	1	15.00	15.00	15.00	16.2	0.0
Frequency (MHz)								
40	QPSK	1	1	15.00	15.00	15.00	16.2	0.0
Channel								
30	QPSK	1	1	15.00	15.00	15.00	16.2	0.0
Frequency (MHz)								
30	QPSK	1	1	15.00	15.00	15.00	16.2	0.0
Channel								
20	QPSK	1	1	15.05	15.21	15.20	16.2	0.0



Part27Q n78 Ant8 DS13 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Max Ch. 1 Freq.	Power High Ch. 1 Freq.	Turn-up time (dBm)	MPE (dB)	
Channel									
Frequency (MHz)									
100	PIQ BPSK	6	1		18.31				
100	PIQ BPSK	1	137		18.40		19.5	0.0	
100	PIQ BPSK	1	271		18.43		19.5	0.0	
100	PIQ BPSK	135	0		18.43		19.5	0.0	
100	PIQ BPSK	135	136		18.32		19.5	0.0	
100	PIQ BPSK	270	0		18.32		19.5	0.0	
100	QPSK	6	1		18.31				
100	QPSK	1	137		18.49		19.5	0.0	
100	QPSK	1	271		18.43		19.5	0.0	
100	QPSK	135	0		18.21		19.5	0.0	
100	QPSK	135	136		18.28		19.5	0.0	
100	QPSK	135	138		18.28		19.5	0.0	
100	QPSK	270	0		18.32		19.5	0.0	
100	HQAM	1	1		18.29		19.5	0.0	
100	HQAM	1	1		18.47		19.5	0.0	
100	HQAM	1	1		18.41		19.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	83360	83334	83366	Turn-up time (dBm)	MPE	
Channel									
Frequency (MHz)									
90	QPSK	1	1	83368	83334	83400	Turn-up time (dBm)	MPE	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.40	18.41	18.44	19.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.50	18.46	18.26	19.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.44	18.38	18.23	19.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.38	18.33	18.20	19.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	83334	83334	83332	Turn-up time (dBm)	MPE	
Channel									
Frequency (MHz)									
40	QPSK	1	1	34230	34014	34246	Turn-up time (dBm)	MPE	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.45	18.39	18.47	19.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.53	18.50	18.43	19.5	0.0	

Part270 n78 Ant8 DS13 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Max Ch. 1 Freq.	Power High Ch. 1 Freq.	Turn-up time (dBm)	MPE (dB)	
Channel									
Frequency (MHz)									
100	PIQ BPSK	1	1		18.41			19.5	0.0
100	PIQ BPSK	1	137		18.53			19.5	0.0
100	PIQ BPSK	1	271		18.52			19.5	0.0
100	PIQ BPSK	135	0		18.51			19.5	0.0
100	PIQ BPSK	135	136		18.44			19.5	0.0
100	PIQ BPSK	270	0		18.37			19.5	0.0
100	QPSK	1	1		18.57			19.5	0.0
100	QPSK	1	137		18.58			19.5	0.0
100	QPSK	1	271		18.52			19.5	0.0
100	QPSK	135	0		18.36			19.5	0.0
100	QPSK	135	136		18.43			19.5	0.0
100	QPSK	135	138		18.37			19.5	0.0
100	QPSK	270	0		18.43			19.5	0.0
100	HQAM	1	1		18.52			19.5	0.0
100	HQAM	1	1		18.50			19.5	0.0
100	HQAM	1	1		18.45			19.5	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	83368	83334	83398	Turn-up time (dBm)	MPE	
Channel									
Frequency (MHz)									
90	QPSK	1	1	83334	83334	83368	Turn-up time (dBm)	MPE	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.43	18.32	18.34	19.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.58	18.53	18.43	19.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.36	18.23	18.20	19.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.44	18.38	18.33	19.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	83334	83334	83366	Turn-up time (dBm)	MPE	
Channel									
Frequency (MHz)									
40	QPSK	1	1	34230	34014	34246	Turn-up time (dBm)	MPE	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.45	18.46	18.43	19.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.50	18.48	18.44	19.5	0.0	



n7 Ant0 DS16 Simultaneous

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.		
Channel								
Frequency (MHz)								
40	Pi/2 BPSK	1	1	2520	2535	2550		
40	Pi/2 BPSK	1	108	2134	2145	2127	22.5	0.0
40	Pi/2 BPSK	1	214	2134	2145	2124		
40	Pi/2 BPSK	108	0	2137	2141	2127	22.5	0.0
40	Pi/2 BPSK	108	54	2134	2145	2123	22.5	0.0
40	Pi/2 BPSK	108	108	2138	2142	2128	22.5	0.0
40	Pi/2 BPSK	216	0	2138	2144	2128		
40	QPSK	1	1	2140	2148	2130		
40	QPSK	1	108	2134	2141	2123	22.5	0.0
40	QPSK	1	214	2134	2145	2125		
40	QPSK	108	0	2132	2141	2124	22.5	0.0
40	QPSK	108	54	2134	2143	2123	22.5	0.0
40	QPSK	108	108	2132	2140	2127		
40	QPSK	216	0	2137	2140	2128		
40	16QAM	1	1	2138	2141	2128	22.5	0.0
40	16QAM	1	1	2138	2143	2127	22.5	0.0
40	16QAM	1	1	1931	1937	1932	21.5	1.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	2515	2535	2555		
Channel								
Frequency (MHz)								
25	QPSK	1	1	2520.5	2535	2557.5		
Channel								
Frequency (MHz)								
20	QPSK	1	1	2127	2135	2116	22.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	2132	2139	2116	22.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	2132	2137	2116	22.5	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	2130	2137	2116	22.5	0.0

n7 Ant1 DS16 Simultaneous

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.		
Channel								
Frequency (MHz)								
40	Pi/2 BPSK	1	1	1807	1809	1809		
40	Pi/2 BPSK	1	108	1814	1806	1815	19.7	0.0
40	Pi/2 BPSK	1	214	1813	1805	1804		
40	Pi/2 BPSK	108	0	1815	1804	1802	19.7	0.0
40	Pi/2 BPSK	108	54	1802	1805	1807	19.7	0.0
40	Pi/2 BPSK	108	108	1813	1800	1816	19.7	0.0
40	Pi/2 BPSK	216	0	1811	1814	1810		
40	QPSK	1	1	1815	1827	1815		
40	QPSK	1	108	1810	1801	1802	19.7	0.0
40	QPSK	1	214	1814	1807	1800		
40	QPSK	108	0	1805	1811	1805	19.7	0.0
40	QPSK	108	54	1803	1814	1813	19.7	0.0
40	QPSK	108	108	1810	1811	1803		
40	QPSK	216	0	1808	1812	1802		
40	16QAM	1	1	1797	1802	1813	19.7	0.0
40	16QAM	1	1	1805	1810	1799	19.7	0.0
40	16QAM	1	1	1806	1799	1800	19.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	1808	1794	1755	13.7	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	1806	1796	1797	13.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	1805	1794	1799	19.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	1808	1798	1797	19.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	1808	1793	1797	19.7	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	1803	1795	1799	19.7	0.0

n6 Ant1 DS16 Simultaneous

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.		
Channel								
Frequency (MHz)								
40	Pi/2 BPSK	1	1	1720	1745	1760		
40	Pi/2 BPSK	1	108	1855	1854	1851		
40	Pi/2 BPSK	1	108	1866	1864	1865	20.0	0.0
40	Pi/2 BPSK	1	214	1866	1870	1868		
40	Pi/2 BPSK	108	0	1859	1861	1860	20.0	0.0
40	Pi/2 BPSK	108	54	1868	1866	1859	20.0	0.0
40	Pi/2 BPSK	108	108	1867	1858	1868		
40	Pi/2 BPSK	216	0	1862	1861	1857	20.0	0.0
40	QPSK	1	1	1871	1873	1859		
40	QPSK	1	108	1869	1860	1865	20.0	0.0
40	QPSK	1	214	1868	1868	1867		
40	QPSK	108	0	1843	1853	1843	20.0	0.0
40	QPSK	108	54	1859	1853	1860	20.0	0.0
40	QPSK	108	108	1843	1857	1858		
40	QPSK	216	0	1863	1868	1866		
40	16QAM	1	1	1869	1870	1865	20.0	0.0
40	16QAM	1	1	1863	1865	1865	20.0	0.0
40	16QAM	1	1	1857	1862	1865	20.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	1725	1745	1765		
Channel								
Frequency (MHz)								
20	QPSK	1	1	1864	1854	1857	20.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	1864	1857	1858	20.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	1866	1854	1859	20.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	1866	1855	1860	20.0	0.0



n38 Ant1 DS16 Simultaneous								
RF Bldg	Modulation	RF Size	RF Offset	Power Level Ch. 1/Freq	Power Level Ch. 2/Freq	Power Level Ch. 3/Freq	Totals Power (dBm)	Spurs Power (dBm)
Frequency Bldg								
RF	PSK256QAM	1	1	18.25	18.25	18.25	54.75	0.0
RF	PSK256QAM	1	13	18.25	18.25	18.25	54.75	0.0
RF	PSK256QAM	1	164	18.25	18.25	18.25	54.75	0.0
RF	PSK256QAM	10	0	18.25	18.25	18.25	54.75	0.0
RF	PSK256QAM	10	24	18.25	18.25	18.25	54.75	0.0
RF	PSK256QAM	10	50	18.25	18.25	18.25	54.75	0.0
RF	PSK256QAM	10	50	18.25	18.25	18.25	54.75	0.0
RF	QPSK	1	1	18.25	18.25	18.25	54.75	0.0
RF	QPSK	1	21	18.25	18.25	18.25	54.75	0.0
RF	QPSK	1	164	18.25	18.25	18.25	54.75	0.0
RF	QPSK	10	0	18.25	18.25	18.25	54.75	0.0
RF	QPSK	10	24	18.25	18.25	18.25	54.75	0.0
RF	QPSK	10	50	18.25	18.25	18.25	54.75	0.0
RF	QPSK	10	50	18.25	18.25	18.25	54.75	0.0
RF	WCDMA	1	1	18.25	18.25	18.25	54.75	0.0
RF	WCDMA	1	1	18.25	18.25	18.25	54.75	0.0
Channel							54.75	0.0
Frequency Bldg							54.75	0.0
RF	QPSK	1	1	18.25	18.25	18.25	54.75	0.0
Channel							54.75	0.0
Frequency Bldg							54.75	0.0
RF	QPSK	1	1	18.25	18.25	18.25	54.75	0.0
Channel							54.75	0.0
Frequency Bldg							54.75	0.0
RF	QPSK	1	1	18.25	18.25	18.25	54.75	0.0
Channel							54.75	0.0
Frequency Bldg							54.75	0.0
RF	QPSK	1	1	18.25	18.25	18.25	54.75	0.0
Channel							54.75	0.0
Frequency Bldg							54.75	0.0

Par27Q n77 Ant2 DS16 Simultaneous								
RF Bldg	Modulation	RF Size	RF Offset	Power Level Ch. 1/Freq	Power Level Ch. 2/Freq	Power Level Ch. 3/Freq	Totals Power (dBm)	Spurs Power (dBm)
Frequency Bldg								
RF	PSK256QAM	1	1	17.7	17.7	17.7	53.1	0.0
RF	PSK256QAM	1	137	17.7	17.7	17.7	53.1	0.0
RF	PSK256QAM	1	291	17.7	17.7	17.7	53.1	0.0
RF	PSK256QAM	136	0	17.7	17.7	17.7	53.1	0.0
RF	PSK256QAM	136	88	17.7	17.7	17.7	53.1	0.0
RF	PSK256QAM	136	136	17.7	17.7	17.7	53.1	0.0
RF	PSK256QAM	290	0	17.7	17.7	17.7	53.1	0.0
RF	QPSK	1	1	17.7	17.7	17.7	53.1	0.0
RF	QPSK	1	137	17.7	17.7	17.7	53.1	0.0
RF	QPSK	1	291	17.7	17.7	17.7	53.1	0.0
RF	QPSK	136	0	17.7	17.7	17.7	53.1	0.0
RF	QPSK	136	88	17.7	17.7	17.7	53.1	0.0
RF	QPSK	136	136	17.7	17.7	17.7	53.1	0.0
RF	QPSK	290	0	17.7	17.7	17.7	53.1	0.0
RF	WCDMA	1	1	17.7	17.7	17.7	53.1	0.0
RF	WCDMA	1	1	17.7	17.7	17.7	53.1	0.0
Channel							53.1	0.0
Frequency Bldg							53.1	0.0
RF	QPSK	1	1	17.7	17.7	17.7	53.1	0.0
Channel							53.1	0.0
Frequency Bldg							53.1	0.0
RF	QPSK	1	1	17.7	17.7	17.7	53.1	0.0
Channel							53.1	0.0
Frequency Bldg							53.1	0.0
RF	QPSK	1	1	17.7	17.7	17.7	53.1	0.0
Channel							53.1	0.0
Frequency Bldg							53.1	0.0
RF	QPSK	1	1	17.7	17.7	17.7	53.1	0.0
Channel							53.1	0.0
Frequency Bldg							53.1	0.0

Part27O n77 Ant2 DS16 Simultaneous								
RF Bldg	Modulation	RF Size	RF Offset	Power Level Ch. 1/Freq	Power Level Ch. 2/Freq	Power Level Ch. 3/Freq	Totals Power (dBm)	Spurs Power (dBm)
Frequency Bldg								
RF	PSK256QAM	1	1	17.7	17.7	17.7	53.1	0.0
RF	PSK256QAM	1	137	17.7	17.7	17.7	53.1	0.0
RF	PSK256QAM	1	291	17.7	17.7	17.7	53.1	0.0
RF	PSK256QAM	136	0	17.7	17.7	17.7	53.1	0.0
RF	PSK256QAM	136	88	17.7	17.7	17.7	53.1	0.0
RF	PSK256QAM	136	136	17.7	17.7	17.7	53.1	0.0
RF	PSK256QAM	290	0	17.7	17.7	17.7	53.1	0.0
RF	QPSK	1	1	17.7	17.7	17.7	53.1	0.0
RF	QPSK	1	137	17.7	17.7	17.7	53.1	0.0
RF	QPSK	1	291	17.7	17.7	17.7	53.1	0.0
RF	QPSK	136	0	17.7	17.7	17.7	53.1	0.0
RF	QPSK	136	88	17.7	17.7	17.7	53.1	0.0
RF	QPSK	136	136	17.7	17.7	17.7	53.1	0.0
RF	QPSK	290	0	17.7	17.7	17.7	53.1	0.0
RF	WCDMA	1	1	17.7	17.7	17.7	53.1	0.0
RF	WCDMA	1	1	17.7	17.7	17.7	53.1	0.0
Channel							53.1	0.0
Frequency Bldg							53.1	0.0
RF	QPSK	1	1	17.7	17.7	17.7	53.1	0.0
Channel							53.1	0.0
Frequency Bldg							53.1	0.0
RF	QPSK	1	1	17.7	17.7	17.7	53.1	0.0
Channel							53.1	0.0
Frequency Bldg							53.1	0.0
RF	QPSK	1	1	17.7	17.7	17.7	53.1	0.0
Channel							53.1	0.0
Frequency Bldg							53.1	0.0
RF	QPSK	1	1	17.7	17.7	17.7	53.1	0.0
Channel							53.1	0.0
Frequency Bldg							53.1	0.0



WLAN/Bluetooth Power

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Art 4-6 Head (Standalone)		Art 4-6 Head (Simultaneous For DBS Only)		Art 4-6 Head (Simultaneous For WWAN + WLAN)		Art 4-6 Head (Simultaneous For WWAN + DBS)		Art 4-6 Body_Worn (Simultaneous For DBS Only)		Art 4-6 Body_Worn (Simultaneous For WWAN + WLAN)		Art 4-6 Body_Worn (Simultaneous For WWAN + DBS)		Art 4-6 Head (Simultaneous For WWAN + WLAN)		Art 4-6 Head (Simultaneous For WWAN + DBS)		Art 4-6 Body_Worn (Simultaneous For DBS Only)		Art 4-6 Head (Simultaneous For WWAN + WLAN)		Art 4-6 Head (Simultaneous For WWAN + DBS)		Duty Cycle %
						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	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	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
2.4GHz WLAN	802.11b 1Mbps	1	2412	22.50	23.50	16.60	20.00	16.43	17.50	14.90	16.00	11.90	13.50	19.16	20.50	16.21	19.50	15.33	17.00	16.80	19.00	14.43	15.50	21.70	23.00	20.71	22.00	17.71	19.00	97.87
		6	2437	21.86	23.50	18.35	20.00	16.26	17.50	14.56	16.00	11.75	13.50	19.08	20.50	18.01	19.50	15.20	17.00	16.55	18.00	14.14	15.50	21.48	23.00	20.58	22.00	17.40	19.00	
		11	2462	22.11	23.50	18.60	20.00	16.40	17.50	14.58	16.00	11.93	13.50	19.14	20.50	18.05	19.50	15.33	17.00	16.81	18.00	14.38	15.50	21.50	23.00	20.82	22.00	17.56	19.00	
	802.11g 6Mbps	1	2412	21.14	22.50		20.00		17.50	16.00		16.00		13.50	20.50		19.50		17.00	18.00		15.50		23.00	23.00	22.00	22.00	19.00		99.29
		6	2437	20.76	22.00		20.00		17.50	16.00		16.00		13.50	20.50		19.50		17.00	18.00		15.50		23.00	23.00	22.00	22.00	19.00		
		11	2462	20.54	22.00		20.00		17.50	16.00		16.00		13.50	20.50		19.50		17.00	18.00		15.50		23.00	23.00	22.00	22.00	19.00		
	802.11n-HT20 MCS0	1	2412	21.02	22.50		20.00		17.50	16.00		16.00		13.50	20.50		19.50		17.00	18.00		15.50		23.00	23.00	22.00	22.00	19.00		100.00
		6	2437	20.67	22.00		20.00		17.50	16.00		16.00		13.50	20.50		19.50		17.00	18.00		15.50		23.00	23.00	22.00	22.00	19.00		
		11	2462	20.34	22.00		20.00		17.50	16.00		16.00		13.50	20.50		19.50		17.00	18.00		15.50		23.00	23.00	22.00	22.00	19.00		
	802.11n-HT40 MCS0	3	2422	19.44	21.00	Not Required	20.00	Not Required	17.50	Not Required	16.00	Not Required	13.50	Not Required	20.50	Not Required	19.50	Not Required	17.00	Not Required	18.00	Not Required	15.50	Not Required	23.00	Not Required	22.00	Not Required	19.00	100.00
		6	2437	19.64	21.00	Not Required	20.00	Not Required	17.50	Not Required	16.00	Not Required	13.50	Not Required	20.50	Not Required	19.50	Not Required	17.00	Not Required	18.00	Not Required	15.50	Not Required	23.00	Not Required	22.00	Not Required	19.00	
		9	2452	19.36	21.00	Not Required	20.00	Not Required	17.50	Not Required	16.00	Not Required	13.50	Not Required	20.50	Not Required	19.50	Not Required	17.00	Not Required	18.00	Not Required	15.50	Not Required	23.00	Not Required	22.00	Not Required	19.00	
	802.11a+HE20 MCS0	1	2412	21.07	22.50		20.00		17.50	16.00		16.00		13.50	20.50		19.50		17.00	18.00		15.50		23.00	23.00	22.00	22.00	19.00		100.00
		6	2437	20.71	22.00		20.00		17.50	16.00		16.00		13.50	20.50		19.50		17.00	18.00		15.50		23.00	23.00	22.00	22.00	19.00		
		11	2462	20.41	22.00		20.00		17.50	16.00		16.00		13.50	20.50		19.50		17.00	18.00		15.50		23.00	23.00	22.00	22.00	19.00		
	802.11a+HE40 MCS0	3	2422	19.47	21.00		20.00		17.50	16.00		16.00		13.50	20.50		19.50		17.00	18.00		15.50		23.00	23.00	22.00	22.00	19.00		100.00
		6	2437	19.69	21.00		20.00		17.50	16.00		16.00		13.50	20.50		19.50		17.00	18.00		15.50		23.00	23.00	22.00	22.00	19.00		
		9	2452	19.40	21.00		20.00		17.50	16.00		16.00		13.50	20.50		19.50		17.00	18.00		15.50		23.00	23.00	22.00	22.00	19.00		

Note: The 2.4GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Art 5-6 Head (Standalone)		Art 5-6 Head (Simultaneous For WWAN + WLAN)		Art 5-6 Head (Simultaneous For WWAN + DBS)		Art 5-6 Body_Worn (Standalone)		Art 5-6 Body_Worn (Simultaneous For DBS Only)		Art 5-6 Body_Worn & Headset (Simultaneous For WWAN + DBS)		Art 5-6 Head (Simultaneous For WWAN + WLAN)		Duty Cycle %			
						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	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit				
5.2GHz WLAN	802.11a 6Mbps	36	5180	20.40	22.00		20.50		18.50		14.50		17.50		15.50		11.50		21.50		17.50	100.00	
		46	5200	20.81	22.50		20.50		18.50		14.50		17.50		15.50		11.50		21.50		17.50		
		48	5220	20.65	22.50		20.50		18.50		14.50		17.50		15.50		11.50		21.50		17.50		
	802.11n-HT20 MCS0	36	5180	20.73	22.50		20.50		18.50		14.50		17.50		15.50		11.50		21.50		17.50	100.00	
		40	5200	20.70	22.50		20.50		18.50		14.50		17.50		15.50		11.50		21.50		17.50		
		44	5220	20.76	22.50		20.50		18.50		14.50		17.50		15.50		11.50		21.50		17.50		
	802.11n-HT40 MCS0	38	5190	19.87	21.50	Not Required	20.50	Not Required	18.50	Not Required	14.50	Not Required	17.50	Not Required	15.50	Not Required	11.50	Not Required	21.50	Not Required	17.50	100.00	
		46	5220	19.93	21.50	Not Required	20.50	Not Required	18.50	Not Required	14.50	Not Required	17.50	Not Required	15.50	Not Required	11.50	Not Required	21.50	Not Required	17.50		
		38	5190	19.87	21.50	Not Required	20.50	Not Required	18.50	Not Required	14.50	Not Required	17.50	Not Required	15.50	Not Required	11.50	Not Required	21.50	Not Required	17.50		
	802.11ac-VHT20 MCS0	40	5200	20.74	22.00		20.50		18.50		14.50		17.50		15.50		11.50		21.50		17.50	100.00	
		44	5220	20.73	22.00		20.50		18.50		14.50		17.50		15.50		11.50		21.50		17.50		
		48	5240	20.75	22.00		20.50		18.50		14.50		17.50		15.50		11.50		21.50		17.50		
	802.11ac-VHT40 MCS0	38	5190	19.87	21.50		20.50		18.50		14.50		17.50		15.50		11.50		19.87	21.50		17.50	100.00
		46	5220	19.88	21.50		20.50		18.50		14.50		17.50		15.50		11.50		19.88	21.50		17.50	
		42	5210	18.73	20.50	16.73	20.50	16.92	18.50	12.92	14.50	16.67	14.05	15.50	10.03	11.50	18.73	20.50	15.51	17.50	100.00		
	802.11a+HE20 MCS0	36	5180	20.82	22.50		20.50		18.50		14.50		17.50		15.50		11.50		21.50		17.50	100.00	
		40	5200	20.81	22.50		20.50		18.50		14.50		17.50		15.50		11.50		21.50		17.50		
		44	5220	20.88	22.50		20.50		18.50		14.50		17.50		15.50		11.50		21.50		17.50		
	802.11a+HE40 MCS0	38	5190	20.01	21.50		20.50		18.50		14.50		17.50		15.50		11.50		20.01	21.50		17.50	100.00
		46	5220	19.96	21.50		20.50		18.50		14.50		17.50		15.50		11.50		19.96	21.50		17.50	
42		5210	18.78	20.50	18.78	20.50		18.50		14.50		17.50		15.50		11.50		18.78	20.50		17.50		

Note: The 5.2GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Art 5-6 Head (Standalone)		Art 5-6 Head (Simultaneous For WWAN + WLAN)		Art 5-6 Head (Simultaneous For WWAN + DBS)		Art 5-6 Body_Worn (Standalone)		Art 5-6 Body_Worn (Simultaneous For DBS Only)		Art 5-6 Body_Worn & Headset (Simultaneous For WWAN + DBS)		Art 5-6 Head (Simultaneous For WWAN + WLAN)		Duty Cycle %		
						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	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit			
5.8GHz WLAN	802.11a 6Mbps	52	5260	19.41	21.00		20.50		18.50		14.50		11.50		17.50		15.50		19.00		19.00	100.00
		56	5280	19.48	21.00		20.50		18.50		14.50		11.50		17.50		15.50		19.00		19.00	
		60	5300	19.51	21.00		20.50		18.50		14.50		11.50		17.50		15.50		19.00		19.00	
	802.11n-HT20 MCS0	52	5260	19.25	21.00		20.50		18.50		14.50		11.50		17.50		15.50		19.00		19.00	100.00
		56	5280	19.29	21.00		20.50		18.50		14.50		11.50		17.50		15.50		19.00		19.00	
		60	5300	19.36	21.00		20.50		18.50		14.50		11.50		17.50		15.50		19.00		19.00	
	802.11n-HT40 MCS0	54	5320	19.44	21.00	Not Required	20.50	Not Required	18.50	Not Required	14.50	Not Required	11.50	Not Required	17.50	Not Required	15.50	Not Required	19			



Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Art 5-4 Head (Standalone)		Art 5-4 Head (Simultaneous For DBS Only)		Art 5-4 Head & Body_Worn (Simultaneous For DBS Only)		Art 5-6 Head (Simultaneous For WWAN + DBS)		Art 5-6 Handheld (Simultaneous For WWAN + DBS)		Art 5-6 Body_Worn (Simultaneous For WWAN + DBS)		Duty Cycle %
					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	Average power (dBm)	Tune-Up Limit	
802.11a 8Mbps	100	5500	21.04	22.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	116	5580	21.06	22.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	124	5620	21.07	22.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	132	5660	21.03	22.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	140	5700	20.89	22.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	144	5720	20.91	22.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	160	5500	20.93	22.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	116	5580	21.06	22.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	124	5620	20.88	22.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	132	5660	20.90	22.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
802.11a-HT20 MCS0	140	5700	20.73	22.00	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	144	5720	20.85	22.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	102	5510	20.08	21.50	19.50	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	110	5550	20.20	21.50	19.04	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	126	5630	19.91	21.50	19.32	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	134	5670	19.97	21.50	19.40	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	142	5710	19.92	21.50	19.46	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	100	5500	20.89	22.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	116	5580	21.07	22.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	124	5620	20.84	22.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
802.11ac-VHT20 MCS0	132	5660	20.83	22.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	140	5700	20.64	22.00	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	144	5720	20.73	22.00	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	102	5510	19.98	21.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	110	5550	20.12	21.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	126	5630	19.82	21.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	134	5670	19.88	21.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	142	5710	19.84	21.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	106	5530	18.98	20.50	18.98	20.50	17.23	19.00	13.10	14.50	18.53	20.00	14.37	16.00	13.10	14.50	
	122	5610	18.90	20.50	18.90	20.50	17.20	19.00	13.05	14.50	18.54	20.00	14.46	16.00	12.92	14.50	
802.11ac-VHT80 MCS0	138	5690	18.73	20.00	18.73	20.00	17.12	19.00	12.97	14.50	18.37	20.00	14.31	16.00	13.02	14.50	
	114	5570	18.40	20.00	18.40	20.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	100	5500	20.97	22.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	116	5580	21.10	22.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	124	5620	20.91	22.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	132	5660	20.95	22.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	140	5700	20.80	22.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	144	5720	20.87	22.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	102	5510	20.10	21.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	110	5550	20.22	21.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
802.11ac-VHT40 MCS0	126	5630	19.95	21.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	134	5670	20.01	21.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	142	5710	19.95	21.50	21.00	21.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	106	5530	19.01	20.50	19.01	20.50	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	122	5610	18.92	20.50	18.92	20.50	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	138	5690	18.78	20.00	18.78	20.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			
	114	5570	18.44	20.00	18.44	20.00	19.00	14.50	20.00	14.50	20.00	16.00	14.50	100.00			

Note: The 802.11ac-WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Art 5-4 Head (Standalone)		Art 5-4 Head & Body_Worn (Simultaneous For WWAN + DBS)		Art 5-4 Handheld (Simultaneous For WWAN + DBS)		Art 5-6 Head (Standalone)		Art 5-6 Handheld (Simultaneous For WWAN + DBS)		Art 5-6 Body_Worn (Simultaneous For WWAN + DBS)		Duty Cycle %		
					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	Average power (dBm)	Tune-Up Limit			
802.11a 8Mbps	149	5745	20.90	22.50	17.50	17.50	14.00	13.00	21.00	20.00	16.00	16.00	19.00	100.00					
	157	5785	21.00	22.50	17.50	17.50	14.00	13.00	21.00	20.00	16.00	16.00	19.00	100.00					
	165	5825	21.24	22.50	17.50	17.50	14.00	13.00	21.00	20.00	16.00	16.00	19.00	100.00					
	149	5745	20.79	22.50	17.50	17.50	14.00	13.00	21.00	20.00	16.00	16.00	19.00	100.00					
	157	5785	20.93	22.50	17.50	17.50	14.00	13.00	21.00	20.00	16.00	16.00	19.00	100.00					
	165	5825	21.23	22.50	17.50	17.50	14.00	13.00	21.00	20.00	16.00	16.00	19.00	100.00					
	151	5755	19.98	21.50	17.50	17.50	14.00	13.00	19.54	21.00	20.00	16.00	16.00	19.00	100.00				
	159	5795	20.05	21.50	17.50	17.50	14.00	13.00	19.60	21.00	20.00	16.00	16.00	19.00	100.00				
	149	5745	20.71	22.50	17.50	17.50	14.00	13.00	21.00	20.00	16.00	16.00	19.00	100.00					
	157	5785	20.88	22.50	17.50	17.50	14.00	13.00	21.00	20.00	16.00	16.00	19.00	100.00					
802.11ac-VHT20 MCS0	165	5825	21.11	22.50	17.50	17.50	14.00	13.00	21.00	20.00	16.00	16.00	19.00	100.00					
	151	5755	19.88	21.50	17.50	17.50	14.00	13.00	21.00	20.00	16.00	16.00	19.00	100.00					
	159	5795	19.90	21.50	17.50	17.50	14.00	13.00	21.00	20.00	16.00	16.00	19.00	100.00					
	155	5775	18.85	20.50	15.95	17.50	12.30	14.00	11.06	13.00	18.85	20.50	18.60	20.00	14.87	16.50	17.16	19.00	100.00
	149	5745	20.81	22.50	17.50	17.50	14.00	13.00	21.00	20.00	16.00	16.00	19.00	100.00					
	157	5785	20.99	22.50	17.50	17.50	14.00	13.00	21.00	20.00	16.00	16.00	19.00	100.00					
	165	5825	21.28	22.50	17.50	17.50	14.00	13.00	21.00	20.00	16.00	16.00	19.00	100.00					
	151	5755	20.00	21.50	17.50	17.50	14.00	13.00	21.00	20.00	16.00	16.00	19.00	100.00					
	159	5795	20.10	21.50	17.50	17.50	14.00	13.00	21.00	20.00	16.00	16.00	19.00	100.00					
	155	5775	18.89	20.50	17.50	17.50	14.00	13.00	18.89	20.50	20.00	16.00	16.00	19.00	100.00				

Note: The 802.11ac-WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.

BT BR/EDR Ant 4

Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	13.53	10.52	10.58	14
	CH 39	2441	12.12	9.59	9.34	13.5
	CH 78	2480	10.49	7.63	7.58	11.5

BLE_1M Ant 4

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	10.05
	CH 19	2440	8.73
	CH 39	2480	7.37
Tune-up Limit			11

BLE_2M Ant 4

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	10.06
	CH 19	2440	8.96
	CH 39	2480	7.62
Tune-up Limit			11.00

BT BR/EDR Ant 6

Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	14.18	11.58	11.56	15
	CH 39	2441	15.04	12.48	12.44	16
	CH 78	2480	15.32	12.57	12.63	16.5

BLE_1M Ant 6

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	8.29
	CH 19	2440	8.57
	CH 39	2480	7.58
Tune-up Limit			9.5

BLE_2M Ant 6

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	8.32
	CH 19	2440	8.86
	CH 39	2480	7.80
Tune-up Limit			9.50



Appendix F. Supplemental Tuner Head & Body SAR Results

The results are shown as follows.



Head (Antenna #0, Slave ID=6)

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)														
									Auto-Tune	2	16	30	44	58	72	86	100	114	128	142	156	170	184
WCDMA B2	RMC 12.2Kbps	9400	1880	N/A	N/A	Left Cheek	0mm	0.073	0.117	0.038	0.071	0.079	0.065	0.082	0.054	0.079	0.0685	0.066	0.081	0.077	0.057	0.081	0.075
WCDMA B4	RMC 12.2Kbps	1413	1732.6	N/A	N/A	Left Cheek	0mm	0.084	0.126	0.037	0.042	0.032	0.049	0.043	0.033	0.045	0.068	0.023	0.038	0.032	0.018	0.029	0.016
WCDMA B5	RMC 12.2Kbps	4182	836.4	N/A	N/A	Right Cheek	0mm	0.236	0.236	0.041	0.177	0.001	0.091	0.221	0.052	0.203	0.077	0.151	0.130	0.144	0.158	0.171	0.155
LTE B12	QPSK	23095	707.5	1	0	Right Cheek	0mm	0.162	0.205	0.195	0.051	0.003	0.068	0.001	0.083	0.037	0.056	0.009	0.001	0.039	0.186	0.032	
LTE B13	QPSK	23230	782	1	0	Right Cheek	0mm	0.174	0.218	0.121	0.041	0.005	0.208	0.023	0.034	0.009	0.091	0.002	0.045	0.052	0.143	0.013	
LTE B25	QPSK	26340	1880	1	0	Left Cheek	0mm	0.066	0.102	0.043	0.017	0.047	0.053	0.046	0.053	0.062	0.059	0.089	0.073	0.049	0.036	0.055	
LTE B26	QPSK	26865	831.5	1	0	Right Cheek	0mm	0.213	0.279	0.092	0.002	0.029	0.161	0.053	0.131	0.107	0.142	0.114	0.241	0.106	0.009	0.125	
LTE B38(HPUE)	QPSK	38000	2595	1	0	Right Cheek	0mm	0.041	0.568	0.038	0.045	0.035	0.037	0.033	0.032	0.045	0.031	0.041	0.036	0.074	0.043	0.037	
LTE B41	QPSK	40620	2593	1	0	Right Cheek	0mm	0.078	0.147	0.027	0.028	0.024	0.052	0.027	0.054	0.027	0.057	0.027	0.025	0.054	0.033	0.065	
LTE B66	QPSK	132322	1745	1	0	Left Cheek	0mm	0.051	0.082	0.290	0.031	0.027	0.067	0.027	0.810	0.039	0.076	0.042	0.029	0.053	0.035	0.059	
FR1 n5	QPSK	167300	836.5	1	1	Right Cheek	0mm	0.152	0.195	0.005	0.046	0.118	0.029	0.087	0.038	0.136	0.006	0.137	0.128	0.039	0.122	0.141	
FR1 n7	QPSK	507000	2535	108	54	Right Cheek	0mm	0.055	0.103	0.030	0.030	0.029	0.031	0.033	0.033	0.033	0.031	0.125	0.139	0.153	0.140	0.033	



Body (Antenna #0, Slave ID=6)

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)															
									Auto-Tune	2	16	30	44	58	72	86	100	114	128	142	156	57	141	
WCDMA B2	RMC 12.2Kbps	9262	1852.4	N/A	N/A	Back	5mm	0.897	1.66	0.215	0.334	0.318	0.329	0.374	0.254	0.382	0.428	0.262	0.349	0.341	0.223	0.370	0.451	
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)															
WCDMA B4	RMC 12.2Kbps	1513	1752.6	N/A	N/A	Back	5mm	0.979	2.250	0.339	0.381	0.307	0.434	0.386	0.316	0.398	0.587	0.241	0.386	0.309	0.205	0.666	0.243	
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)															
WCDMA B5	RMC 12.2Kbps	4132	826.4	N/A	N/A	Back	5mm	0.984	2.24	0.424	1.357	0.013	0.887	1.831	0.412	1.618	0.694	0.689	0.474	1.129	0.503	0.051	0.787	
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)															
LTE B12	QPSK	23095	707.5	1	0	Back	5mm	0.926	2.08	1.047	0.317	0.038	0.402	0.002	0.501	0.233	0.339	0.084	0.019	0.259	0.091	0.166		
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)															
LTE B13	QPSK	23230	782	1	0	Back	5mm	0.96	2.06	0.855	0.308	0.074	1.332	0.152	0.298	0.071	0.655	0.035	0.272	0.391	0.300	1.108		
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)															
LTE B25	QPSK	26340	1880	1	0	Back	5mm	0.982	2.12	0.287	0.153	0.298	0.351	0.292	0.328	0.473	0.363	0.691	0.473	0.305	0.311	0.403		
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)															
LTE B26	QPSK	26865	831.5	1	0	Back	5mm	0.956	1.78	0.482	0.028	0.174	0.771	0.292	0.513	0.507	0.601	0.424	0.981	0.430	0.566	0.039		
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)															
TE B38(HPUE)	QPSK	38150	2610	1	0	Back	5mm	0.921	1.96	0.197	0.228	0.182	0.193	0.181	0.184	0.219	0.166	0.221	0.191	0.391	0.268	0.160		
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)															
LTE B41	QPSK	40185	2549.5	1	0	Back	5mm	0.982	2.16	0.208	0.233	0.195	0.393	0.209	0.322	0.215	0.367	0.212	0.192	0.356	0.203	0.001		
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)															
LTE B66	QPSK	132572	1770	1	0	Back	5mm	0.877	1.73	0.168	0.176	0.154	0.347	0.167	0.506	0.215	0.399	0.241	0.173	0.292	0.336	0.206		
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)															
FR1 n5	QPSK	167300	836.5	1	1	Back	5mm	0.877	1.87	0.077	0.429	0.893	0.271	0.725	0.306	1.036	0.072	0.969	0.947	0.320	0.210	1.060		
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)															
FR1 n7	QPSK	507000	2535	1	1	Back	5mm	0.933	2.01	0.544	0.380	0.609	0.461	0.350	0.474	0.365	0.375	0.388	0.491	0.304	0.409	0.624		



Head (Antenna #1, Slave ID=6)

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																			
									Auto-Tune	1	13	25	37	49	61	73	85	97	109	121	133	145	157	169	181	193		
WCDMA B5	RMC 12.2Kbps	4182	836.4	N/A	N/A	Left Cheek	0mm	0.983	2.54	0.152	1.723	1.740	0.563	0.483	2.510	2.220	1.607	0.183	2.109	0.914	0.041	0.723	0.789	2.037	1.373	2.162		
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																			
LTE B12	QPSK	23095	707.5	1	0	Left Cheek	0mm	0.987	2.96	1.439	0.349	0.410	0.563	0.361	0.268	0.313	0.263	0.104	0.033	0.008	0.006	0.019	0.016	0.234	0.091	0.259		
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																			
LTE B13	QPSK	23230	782	1	0	Left Cheek	0mm	0.841	2.15	0.415	0.342	0.478	0.608	0.371	1.140	0.857	0.355	1.467	1.187	0.661	0.504	0.262	0.601	0.966	1.153	0.299		
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																			
LTE B25	QPSK	26140	1860	1	0	Left Tilted	0mm	0.997	2.12	0.448	0.582	0.317	0.976	1.323	1.621	1.271	1.246	0.529	0.682	0.691	0.897	1.414	1.880	1.165	0.888	0.756		
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																			
LTE B26	QPSK	26865	831.5	1	0	Left Cheek	0mm	0.994	2.46	0.401	0.372	0.083	1.002	0.331	0.570	0.145	0.152	0.732	0.637	0.523	0.449	2.060	1.910	1.183	0.779	1.033		
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																			
LTE B38(HPUE)	QPSK	38150	2610	50	0	Left Tilted	0mm	0.987	2.33	1.820	1.818	1.840	1.434	1.314	1.538	1.471	1.354	1.785	1.796	1.614	1.316	1.507	1.230	1.110	0.880	1.607		
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																			
LTE B41	QPSK	41490	2680	1	0	Left Tilted	0mm	0.915	2.02	1.580	1.675	1.716	1.454	1.948	1.779	1.694	1.202	1.519	1.620	1.514	1.320	1.397	1.243	1.172	1.595	1.493		
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																			
LTE B66	QPSK	132572	1770	1	0	Left Tilted	0mm	0.989	2.2	0.541	0.781	0.722	0.336	1.799	1.376	1.081	0.610	0.656	0.903	0.912	0.781	1.050	0.819	2.047	0.566	1.229		
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																			
FR1 n7	QPSK	507000	2535	1	1	Left Tilted	0mm	0.991	2.29	2.030	1.967	1.927	2.130	1.775	1.615	1.481	1.111	2.042	1.782	1.675	1.249	1.479	0.924	1.966	1.961	1.434		
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																			
FR1 n38	QPSK	519000	2595	1	1	Left Tilted	0mm	0.92	2.04	2.030	1.747	1.707	1.849	1.680	1.445	1.408	0.940	2.010	1.783	1.530	1.224	1.437	1.531	1.528	1.651	1.646		
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																			
FR1 n66	QPSK	349000	1745	1	1	Left Tilted	0mm	0.956	2.16	0.820	0.927	0.709	0.469	1.086	0.861	0.583	0.317	0.904	0.945	0.774	0.928	1.305	1.584	0.631	0.483	0.611		



Head (Antenna #1, Slave ID=6)

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																			
									Auto-Tune	1	13	25	37	49	61	73	85	97	109	121	133	145	157	169	181	193		
WCDMA B5	RMC 12.2Kbps	4132	826.4	N/A	N/A	Back	5mm	0.867	1.74	0.078	0.699	0.672	0.221	0.182	1.106	0.861	0.563	0.135	0.834	0.741	0.033	0.156	0.178	0.836	0.634	1.162		
LTE B12	QPSK	23095	707.5	1	0	Top Side	5mm	0.531	1.45	0.741	0.152	0.204	0.311	0.086	0.139	0.171	0.142	0.059	0.018	0.006	0.004	0.013	0.011	0.128	0.047	0.269		
LTE B13	QPSK	23230	782	1	0	Top Side	5mm	0.634	1.61	0.303	0.199	0.225	0.318	0.184	0.559	0.409	0.679	1.060	0.644	0.351	0.288	0.164	0.373	0.553	0.666	0.597		
LTE B25	QPSK	26340	1880	1	0	Back	5mm	0.992	2.39	0.090	0.121	0.063	0.204	0.250	0.456	0.330	0.330	0.133	0.174	0.173	0.227	0.363	0.356	0.302	0.220	0.243		
LTE B26	QPSK	26865	831.5	1	0	Top Side	5mm	0.679	1.73	0.240	0.208	0.052	0.523	0.164	0.289	0.069	0.071	0.481	0.406	0.304	0.242	1.001	0.953	0.567	0.374	0.923		
LTE B38(HPU)	QPSK	38150	2610	50	0	Back	5mm	0.939	1.93	0.857	0.842	0.857	0.668	0.576	0.690	0.653	0.625	0.842	0.811	0.721	0.568	0.661	0.534	0.466	0.341	0.715		
LTE B41	QPSK	41490	2680	1	0	Back	5mm	0.985	2.17	0.663	0.665	0.682	0.576	0.709	0.616	0.597	0.488	0.655	0.695	0.628	0.547	0.578	0.508	0.483	0.678	0.607		
LTE B66	QPSK	132572	1770	1	0	Back	5mm	0.943	1.92	0.183	0.241	0.247	0.141	0.585	0.435	0.354	0.222	0.247	0.345	0.340	0.298	0.352	0.156	0.481	0.208	0.746		
FR1 n7	QPSK	507000	2535	108	54	Back	5mm	0.885	1.81	0.930	0.882	0.848	1.147	0.779	0.703	0.636	0.477	0.914	0.794	0.748	0.550	0.661	0.399	0.885	0.861	0.735		
FR1 n38	QPSK	519000	2595	50	28	Back	5mm	0.977	2.13	1.685	1.444	1.437	1.509	1.380	1.226	1.138	0.774	1.677	1.487	1.265	0.994	1.220	1.270	1.255	1.443	1.385		
FR1 n66	QPSK	349000	1745	108	54	Back	5mm	0.906	1.85	0.253	0.296	0.229	0.155	0.353	0.285	0.191	0.104	0.277	0.307	0.250	0.359	0.482	0.516	0.195	0.169	0.169		

