

10604	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc)	WLAN	8.76	± 9.6 %
10605	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc)	WLAN	8.97	± 9.6 %
10606	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10607	AAC	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc dc)	WLAN	8.64	± 9.6 %
10608	AAC	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc dc)	WLAN	8.77	± 9.6 %
10609	AAC	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc dc)	WLAN	8.57	± 9.6 %
10610	AAC	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc dc)	WLAN	8.78	± 9.6 %
10611	AAC	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10612	AAC	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10613	AAC	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc dc)	WLAN	8.94	± 9.6 %
10614	AAC	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc dc)	WLAN	8.59	± 9.6 %
10615	AAC	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10616	AAC	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc dc)	WLAN	8.82	± 9.6 %
10617	AAC	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc dc)	WLAN	8.81	± 9.6 %
10618	AAC	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc dc)	WLAN	8.58	± 9.6 %
10619	AAC	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc dc)	WLAN	8.86	± 9.6 %
10620	AAC	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc dc)	WLAN	8.87	± 9.6 %
10621	AAC	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10622	AAC	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc dc)	WLAN	8.68	± 9.6 %
10623	AAC	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10624	AAC	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc dc)	WLAN	8.96	± 9.6 %
10625	AAC	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc dc)	WLAN	8.96	± 9.6 %
10626	AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10627	AAC	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10628	AAC	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc dc)	WLAN	8.71	± 9.6 %
10629	AAC	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10630	AAC	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc dc)	WLAN	8.72	± 9.6 %
10631	AAC	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc dc)	WLAN	8.81	± 9.6 %
10632	AAC	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
10633	AAC	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc dc)	WLAN	8.83	± 9.6 %
10634	AAC	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc dc)	WLAN	8.80	± 9.6 %
10635	AAC	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc dc)	WLAN	8.81	± 9.6 %
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc)	WLAN	8.86	± 9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc dc)	WLAN	8.98	± 9.6 %
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc dc)	WLAN	9.06	± 9.6 %
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc dc)	WLAN	9.06	± 9.6 %
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc dc)	WLAN	8.89	± 9.6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc dc)	WLAN	9.05	± 9.6 %
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc)	WLAN	9.11	± 9.6 %
10646	AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10647	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10648	AAC	CDMA2000 (1x Advanced)	CDMA2000	3.45	± 9.6 %
10652	AAC	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10653	AAC	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %
10654	AAC	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	± 9.6 %
10655	AAC	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	± 9.6 %
10658	AAC	Pulse Waveform (200Hz, 10%)	Test	10.00	± 9.6 %
10659	AAC	Pulse Waveform (200Hz, 20%)	Test	6.99	± 9.6 %
10660	AAC	Pulse Waveform (200Hz, 40%)	Test	3.98	± 9.6 %
10661	AAC	Pulse Waveform (200Hz, 60%)	Test	2.22	± 9.6 %
10662	AAC	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
10670	AAC	Bluetooth Low Energy	Bluetooth	2.19	± 9.6 %
10671	AAD	IEEE 802.11ax (20MHz, MCS0, 90pc dc)	WLAN	9.09	± 9.6 %

10672	AAD	IEEE 802.11ax (20MHz, MCS1, 90pc dc)	WLAN	8.57	± 9.6 %
10673	AAD	IEEE 802.11ax (20MHz, MCS2, 90pc dc)	WLAN	8.78	± 9.6 %
10674	AAD	IEEE 802.11ax (20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10675	AAD	IEEE 802.11ax (20MHz, MCS4, 90pc dc)	WLAN	8.90	± 9.6 %
10676	AAD	IEEE 802.11ax (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10677	AAD	IEEE 802.11ax (20MHz, MCS6, 90pc dc)	WLAN	8.73	± 9.6 %
10678	AAD	IEEE 802.11ax (20MHz, MCS7, 90pc dc)	WLAN	8.78	± 9.6 %
10679	AAD	IEEE 802.11ax (20MHz, MCS8, 90pc dc)	WLAN	8.89	± 9.6 %
10680	AAD	IEEE 802.11ax (20MHz, MCS9, 90pc dc)	WLAN	8.80	± 9.6 %
10681	AAG	IEEE 802.11ax (20MHz, MCS10, 90pc dc)	WLAN	8.62	± 9.6 %
10682	AAF	IEEE 802.11ax (20MHz, MCS11, 90pc dc)	WLAN	8.83	± 9.6 %
10683	AAA	IEEE 802.11ax (20MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10684	AAC	IEEE 802.11ax (20MHz, MCS1, 99pc dc)	WLAN	8.26	± 9.6 %
10685	AAC	IEEE 802.11ax (20MHz, MCS2, 99pc dc)	WLAN	8.33	± 9.6 %
10686	AAC	IEEE 802.11ax (20MHz, MCS3, 99pc dc)	WLAN	8.28	± 9.6 %
10687	AAE	IEEE 802.11ax (20MHz, MCS4, 99pc dc)	WLAN	8.45	± 9.6 %
10688	AAE	IEEE 802.11ax (20MHz, MCS5, 99pc dc)	WLAN	8.29	± 9.6 %
10689	AAD	IEEE 802.11ax (20MHz, MCS6, 99pc dc)	WLAN	8.55	± 9.6 %
10690	AAE	IEEE 802.11ax (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
10691	AAB	IEEE 802.11ax (20MHz, MCS8, 99pc dc)	WLAN	8.25	± 9.6 %
10692	AAA	IEEE 802.11ax (20MHz, MCS9, 99pc dc)	WLAN	8.29	± 9.6 %
10693	AAA	IEEE 802.11ax (20MHz, MCS10, 99pc dc)	WLAN	8.25	± 9.6 %
10694	AAA	IEEE 802.11ax (20MHz, MCS11, 99pc dc)	WLAN	8.57	± 9.6 %
10695	AAA	IEEE 802.11ax (40MHz, MCS0, 90pc dc)	WLAN	8.78	± 9.6 %
10696	AAA	IEEE 802.11ax (40MHz, MCS1, 90pc dc)	WLAN	8.91	± 9.6 %
10697	AAA	IEEE 802.11ax (40MHz, MCS2, 90pc dc)	WLAN	8.61	± 9.6 %
10698	AAA	IEEE 802.11ax (40MHz, MCS3, 90pc dc)	WLAN	8.89	± 9.6 %
10699	AAA	IEEE 802.11ax (40MHz, MCS4, 90pc dc)	WLAN	8.82	± 9.6 %
10700	AAA	IEEE 802.11ax (40MHz, MCS5, 90pc dc)	WLAN	8.73	± 9.6 %
10701	AAA	IEEE 802.11ax (40MHz, MCS6, 90pc dc)	WLAN	8.86	± 9.6 %
10702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc dc)	WLAN	8.70	± 9.6 %
10703	AAA	IEEE 802.11ax (40MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10704	AAA	IEEE 802.11ax (40MHz, MCS9, 90pc dc)	WLAN	8.56	± 9.6 %
10705	AAA	IEEE 802.11ax (40MHz, MCS10, 90pc dc)	WLAN	8.69	± 9.6 %
10706	AAC	IEEE 802.11ax (40MHz, MCS11, 90pc dc)	WLAN	8.66	± 9.6 %
10707	AAC	IEEE 802.11ax (40MHz, MCS0, 99pc dc)	WLAN	8.32	± 9.6 %
10708	AAC	IEEE 802.11ax (40MHz, MCS1, 99pc dc)	WLAN	8.55	± 9.6 %
10709	AAC	IEEE 802.11ax (40MHz, MCS2, 99pc dc)	WLAN	8.33	± 9.6 %
10710	AAC	IEEE 802.11ax (40MHz, MCS3, 99pc dc)	WLAN	8.29	± 9.6 %
10711	AAC	IEEE 802.11ax (40MHz, MCS4, 99pc dc)	WLAN	8.39	± 9.6 %
10712	AAC	IEEE 802.11ax (40MHz, MCS5, 99pc dc)	WLAN	8.67	± 9.6 %
10713	AAC	IEEE 802.11ax (40MHz, MCS6, 99pc dc)	WLAN	8.33	± 9.6 %
10714	AAC	IEEE 802.11ax (40MHz, MCS7, 99pc dc)	WLAN	8.26	± 9.6 %
10715	AAC	IEEE 802.11ax (40MHz, MCS8, 99pc dc)	WLAN	8.45	± 9.6 %
10716	AAC	IEEE 802.11ax (40MHz, MCS9, 99pc dc)	WLAN	8.30	± 9.6 %
10717	AAC	IEEE 802.11ax (40MHz, MCS10, 99pc dc)	WLAN	8.48	± 9.6 %
10718	AAC	IEEE 802.11ax (40MHz, MCS11, 99pc dc)	WLAN	8.24	± 9.6 %
10719	AAC	IEEE 802.11ax (80MHz, MCS0, 90pc dc)	WLAN	8.81	± 9.6 %
10720	AAC	IEEE 802.11ax (80MHz, MCS1, 90pc dc)	WLAN	8.87	± 9.6 %
10721	AAC	IEEE 802.11ax (80MHz, MCS2, 90pc dc)	WLAN	8.76	± 9.6 %
10722	AAC	IEEE 802.11ax (80MHz, MCS3, 90pc dc)	WLAN	8.55	± 9.6 %
10723	AAC	IEEE 802.11ax (80MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10724	AAC	IEEE 802.11ax (80MHz, MCS5, 90pc dc)	WLAN	8.90	± 9.6 %
10725	AAC	IEEE 802.11ax (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
10726	AAC	IEEE 802.11ax (80MHz, MCS7, 90pc dc)	WLAN	8.72	± 9.6 %
10727	AAC	IEEE 802.11ax (80MHz, MCS8, 90pc dc)	WLAN	8.66	± 9.6 %

10728	AAC	IEEE 802.11ax (80MHz, MCS9, 90pc dc)	WLAN	8.65	± 9.6 %
10729	AAC	IEEE 802.11ax (80MHz, MCS10, 90pc dc)	WLAN	8.64	± 9.6 %
10730	AAC	IEEE 802.11ax (80MHz, MCS11, 90pc dc)	WLAN	8.67	± 9.6 %
10731	AAC	IEEE 802.11ax (80MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10732	AAC	IEEE 802.11ax (80MHz, MCS1, 99pc dc)	WLAN	8.46	± 9.6 %
10733	AAC	IEEE 802.11ax (80MHz, MCS2, 99pc dc)	WLAN	8.40	± 9.6 %
10734	AAC	IEEE 802.11ax (80MHz, MCS3, 99pc dc)	WLAN	8.25	± 9.6 %
10735	AAC	IEEE 802.11ax (80MHz, MCS4, 99pc dc)	WLAN	8.33	± 9.6 %
10736	AAC	IEEE 802.11ax (80MHz, MCS5, 99pc dc)	WLAN	8.27	± 9.6 %
10737	AAC	IEEE 802.11ax (80MHz, MCS6, 99pc dc)	WLAN	8.36	± 9.6 %
10738	AAC	IEEE 802.11ax (80MHz, MCS7, 99pc dc)	WLAN	8.42	± 9.6 %
10739	AAC	IEEE 802.11ax (80MHz, MCS8, 99pc dc)	WLAN	8.29	± 9.6 %
10740	AAC	IEEE 802.11ax (80MHz, MCS9, 99pc dc)	WLAN	8.48	± 9.6 %
10741	AAC	IEEE 802.11ax (80MHz, MCS10, 99pc dc)	WLAN	8.40	± 9.6 %
10742	AAC	IEEE 802.11ax (80MHz, MCS11, 99pc dc)	WLAN	8.43	± 9.6 %
10743	AAC	IEEE 802.11ax (160MHz, MCS0, 90pc dc)	WLAN	8.94	± 9.6 %
10744	AAC	IEEE 802.11ax (160MHz, MCS1, 90pc dc)	WLAN	9.16	± 9.6 %
10745	AAC	IEEE 802.11ax (160MHz, MCS2, 90pc dc)	WLAN	8.93	± 9.6 %
10746	AAC	IEEE 802.11ax (160MHz, MCS3, 90pc dc)	WLAN	9.11	± 9.6 %
10747	AAC	IEEE 802.11ax (160MHz, MCS4, 90pc dc)	WLAN	9.04	± 9.6 %
10748	AAC	IEEE 802.11ax (160MHz, MCS5, 90pc dc)	WLAN	8.93	± 9.6 %
10749	AAC	IEEE 802.11ax (160MHz, MCS6, 90pc dc)	WLAN	8.90	± 9.6 %
10750	AAC	IEEE 802.11ax (160MHz, MCS7, 90pc dc)	WLAN	8.79	± 9.6 %
10751	AAC	IEEE 802.11ax (160MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10752	AAC	IEEE 802.11ax (160MHz, MCS9, 90pc dc)	WLAN	8.81	± 9.6 %
10753	AAC	IEEE 802.11ax (160MHz, MCS10, 90pc dc)	WLAN	9.00	± 9.6 %
10754	AAC	IEEE 802.11ax (160MHz, MCS11, 90pc dc)	WLAN	8.94	± 9.6 %
10755	AAC	IEEE 802.11ax (160MHz, MCS0, 99pc dc)	WLAN	8.64	± 9.6 %
10756	AAC	IEEE 802.11ax (160MHz, MCS1, 99pc dc)	WLAN	8.77	± 9.6 %
10757	AAC	IEEE 802.11ax (160MHz, MCS2, 99pc dc)	WLAN	8.77	± 9.6 %
10758	AAC	IEEE 802.11ax (160MHz, MCS3, 99pc dc)	WLAN	8.69	± 9.6 %
10759	AAC	IEEE 802.11ax (160MHz, MCS4, 99pc dc)	WLAN	8.58	± 9.6 %
10760	AAC	IEEE 802.11ax (160MHz, MCS5, 99pc dc)	WLAN	8.49	± 9.6 %
10761	AAC	IEEE 802.11ax (160MHz, MCS6, 99pc dc)	WLAN	8.58	± 9.6 %
10762	AAC	IEEE 802.11ax (160MHz, MCS7, 99pc dc)	WLAN	8.49	± 9.6 %
10763	AAC	IEEE 802.11ax (160MHz, MCS8, 99pc dc)	WLAN	8.53	± 9.6 %
10764	AAC	IEEE 802.11ax (160MHz, MCS9, 99pc dc)	WLAN	8.54	± 9.6 %
10765	AAC	IEEE 802.11ax (160MHz, MCS10, 99pc dc)	WLAN	8.54	± 9.6 %
10766	AAC	IEEE 802.11ax (160MHz, MCS11, 99pc dc)	WLAN	8.51	± 9.6 %
10767	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	± 9.6 %
10768	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10769	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10770	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10771	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10772	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	± 9.6 %
10773	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	± 9.6 %
10774	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10775	AAC	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10776	AAC	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10777	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10778	AAC	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10779	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10780	AAC	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10781	AAC	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10782	AAC	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10783	AAC	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %

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

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

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

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



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **Sporton**

Certificate No: **EX3-3857_Sep20**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3857**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-14.v6, QA CAL-23.v5, QA CAL-25.v7
Calibration procedure for dosimetric E-field probes**

Calibration date: **September 25, 2020**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	01-Apr-20 (No. 217-03100/03101)	Apr-21
Power sensor NRP-Z91	SN: 103244	01-Apr-20 (No. 217-03100)	Apr-21
Power sensor NRP-Z91	SN: 103245	01-Apr-20 (No. 217-03101)	Apr-21
Reference 20 dB Attenuator	SN: CC2552 (20x)	31-Mar-20 (No. 217-03106)	Apr-21
DAE4	SN: 660	27-Dec-19 (No. DAE4-660_Dec19)	Dec-20
Reference Probe ES3DV2	SN: 3013	31-Dec-19 (No. ES3-3013_Dec19)	Dec-20
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-20)	In house check: Jun-22
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-19)	In house check: Oct-20

	Name	Function	Signature
Calibrated by:	Leif Klysner	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: September 30, 2020

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



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Accreditation No.: **SCS 0108**

Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization ϕ	ϕ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- **NORM_{x,y,z}**: Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not affect the E²-field uncertainty inside TSL (see below ConvF).
- **NORM(f)_{x,y,z}** = NORM_{x,y,z} * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- **DCP_{x,y,z}**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- **PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- **A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; D_{x,y,z}; VR_{x,y,z}**: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- **ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM_{x,y,z} * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- **Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- **Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- **Connector Angle**: The angle is assessed using the information gained by determining the NORM_x (no uncertainty required).

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3857

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.18	0.43	0.46	$\pm 10.1 \%$
DCP (mV) ^B	99.3	100.5	102.2	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Max dev.	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	182.0	$\pm 3.0 \%$	$\pm 4.7 \%$
		Y	0.0	0.0	1.0		178.6		
		Z	0.0	0.0	1.0		188.1		

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

^A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Page 5).

^B Numerical linearization parameter: uncertainty not required.

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3857

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-118.9
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Note: Measurement distance from surface can be increased to 3-4 mm for an *Area Scan* job.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3857

Calibration Parameter Determined in Head Tissue Simulating Media

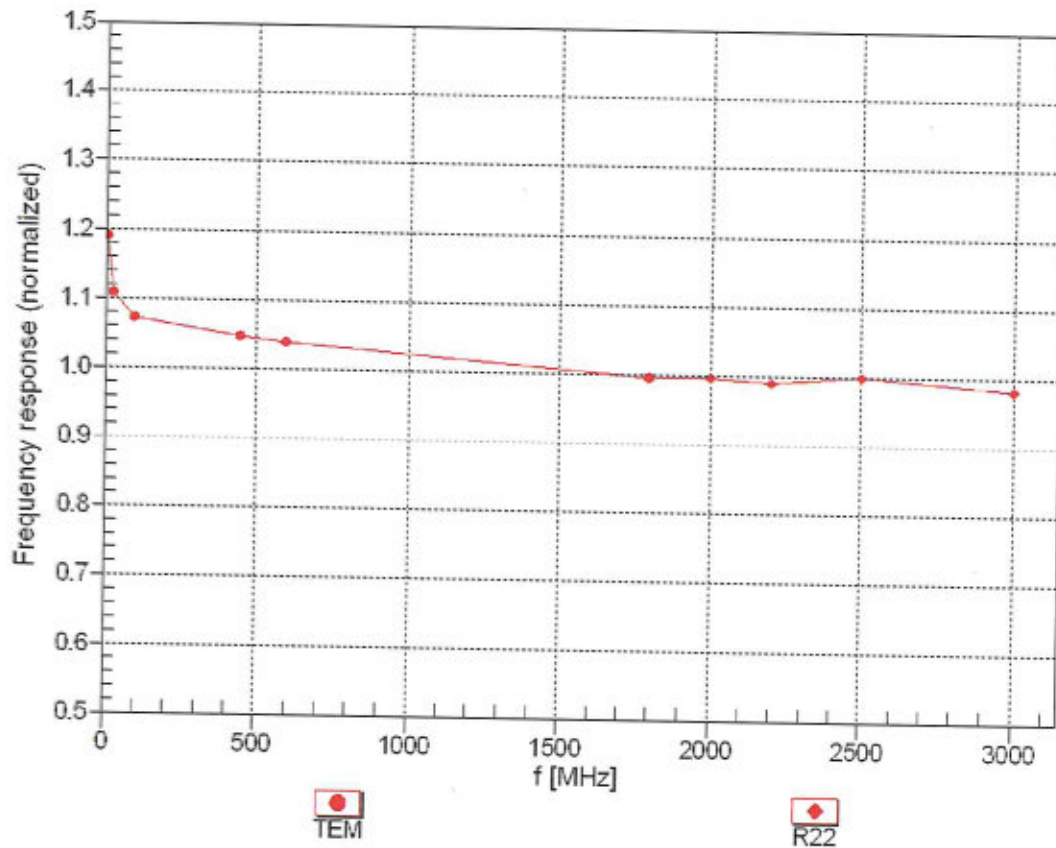
f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth (mm) ^G	Unc (k=2)
750	41.9	0.89	9.50	9.50	9.50	0.32	0.99	± 12.0 %
835	41.5	0.90	9.18	9.18	9.18	0.45	0.80	± 12.0 %
900	41.5	0.97	9.10	9.10	9.10	0.47	0.80	± 12.0 %
1750	40.1	1.37	8.06	8.06	8.06	0.27	0.86	± 12.0 %
1900	40.0	1.40	7.81	7.81	7.81	0.37	0.86	± 12.0 %
2000	40.0	1.40	7.78	7.78	7.78	0.40	0.86	± 12.0 %
2300	39.5	1.67	7.56	7.56	7.56	0.31	0.92	± 12.0 %
2450	39.2	1.80	7.44	7.44	7.44	0.40	0.92	± 12.0 %
2600	39.0	1.96	7.19	7.19	7.19	0.37	0.92	± 12.0 %
3300	38.2	2.71	6.70	6.70	6.70	0.30	1.35	± 14.0 %
3500	37.9	2.91	6.67	6.67	6.67	0.30	1.35	± 14.0 %
3700	37.7	3.12	6.61	6.61	6.61	0.30	1.35	± 14.0 %
3900	37.5	3.32	6.58	6.58	6.58	0.40	1.50	± 14.0 %
4100	37.2	3.53	6.08	6.08	6.08	0.35	1.50	± 14.0 %
4200	37.1	3.63	5.99	5.99	5.99	0.35	1.50	± 14.0 %
4400	36.9	3.84	5.93	5.93	5.93	0.35	1.70	± 14.0 %
4600	36.7	4.04	5.91	5.91	5.91	0.40	1.70	± 14.0 %
4800	36.4	4.25	5.76	5.76	5.76	0.40	1.80	± 14.0 %
4950	36.3	4.40	5.45	5.45	5.45	0.40	1.80	± 14.0 %
5250	35.9	4.71	5.04	5.04	5.04	0.40	1.80	± 14.0 %
5600	35.5	5.07	4.67	4.67	4.67	0.40	1.80	± 14.0 %
5750	35.4	5.22	4.93	4.93	4.93	0.40	1.80	± 14.0 %

^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

^F At frequencies up to 6 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

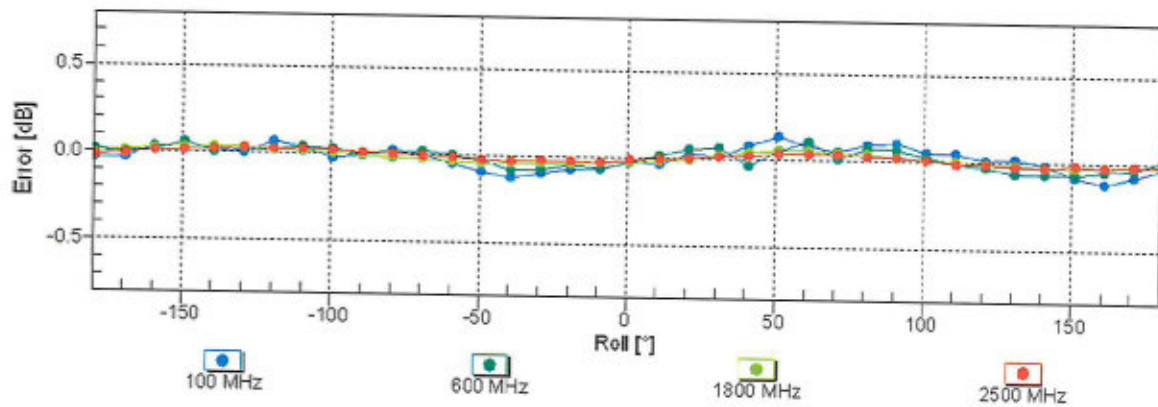
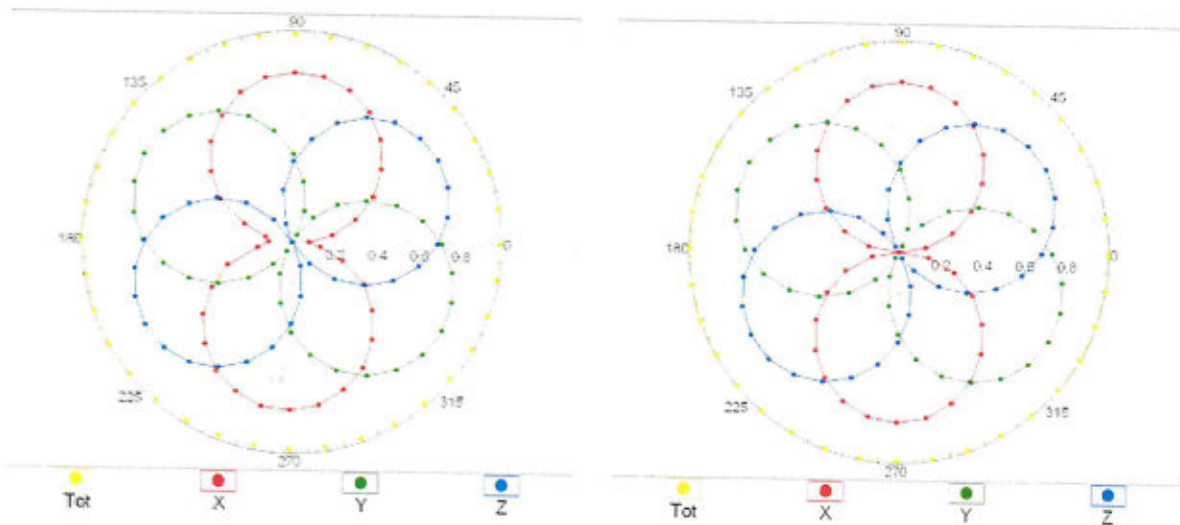


Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ (k=2)

Receiving Pattern (ϕ), $\theta = 0^\circ$

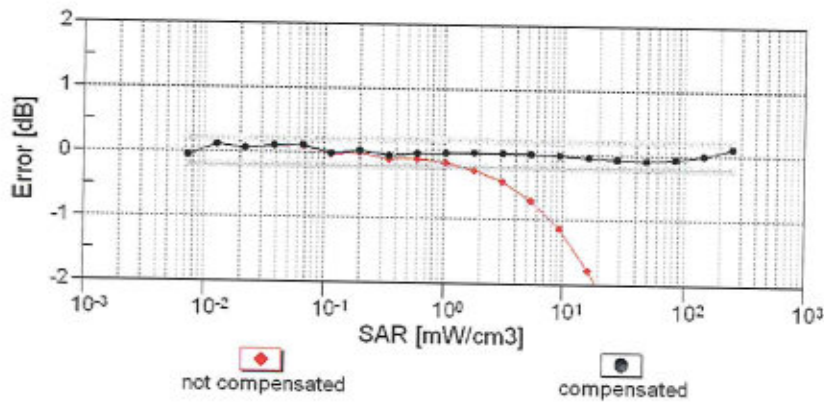
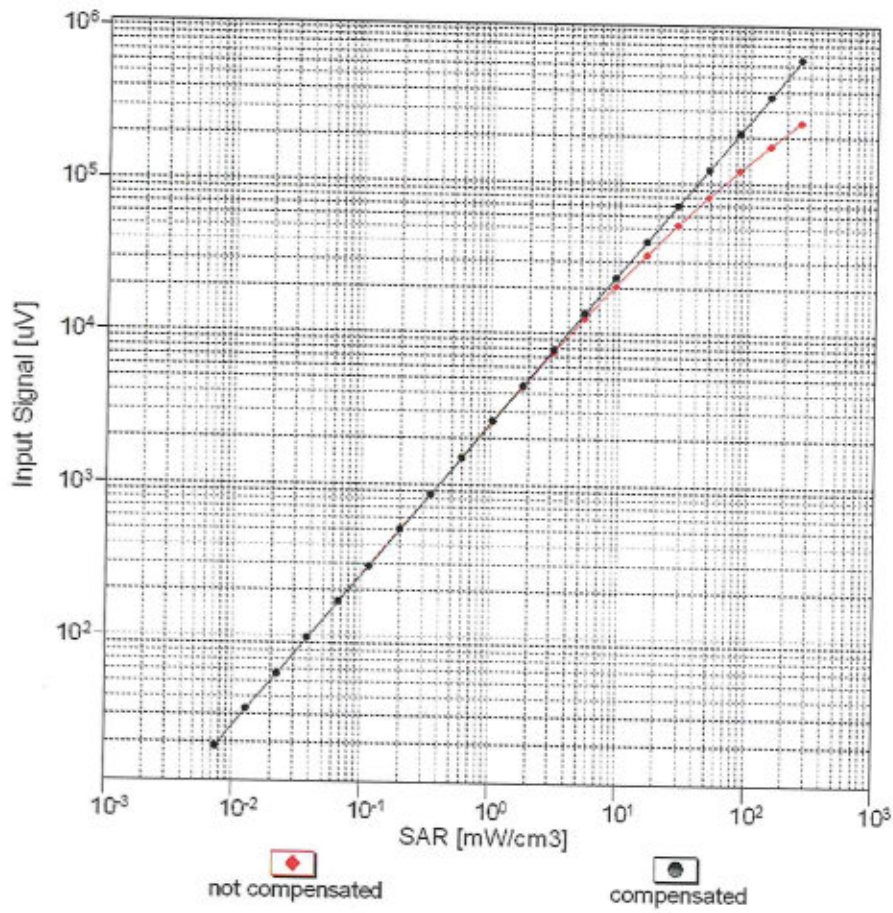
f=600 MHz,TEM

f=1800 MHz,R22



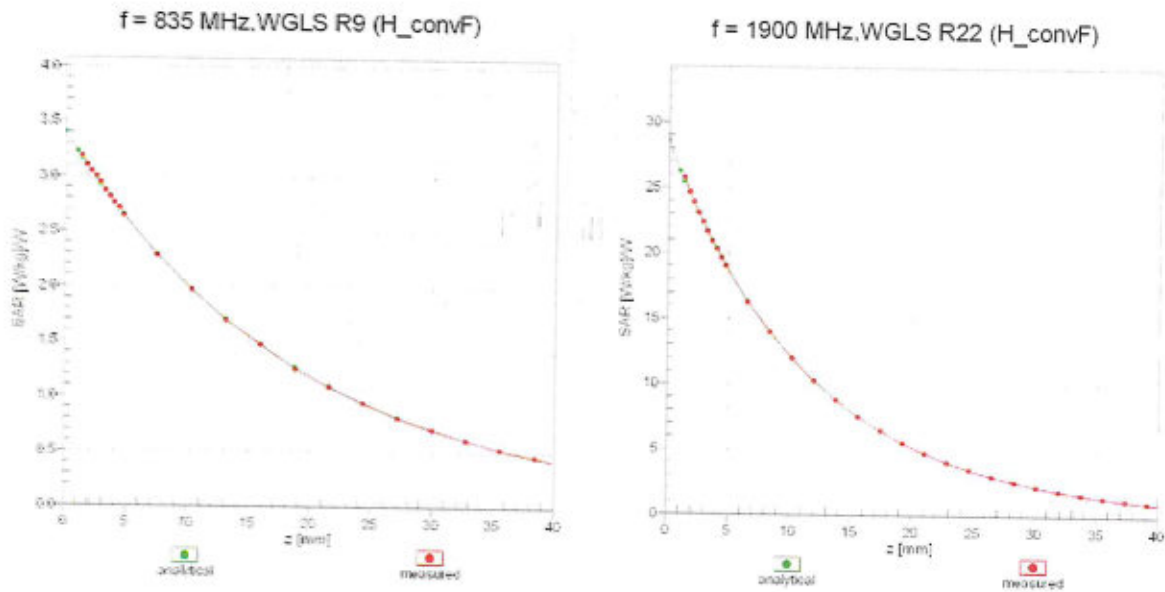
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ (k=2)

Dynamic Range $f(SAR_{head})$ (TEM cell , $f_{eval} = 1900$ MHz)

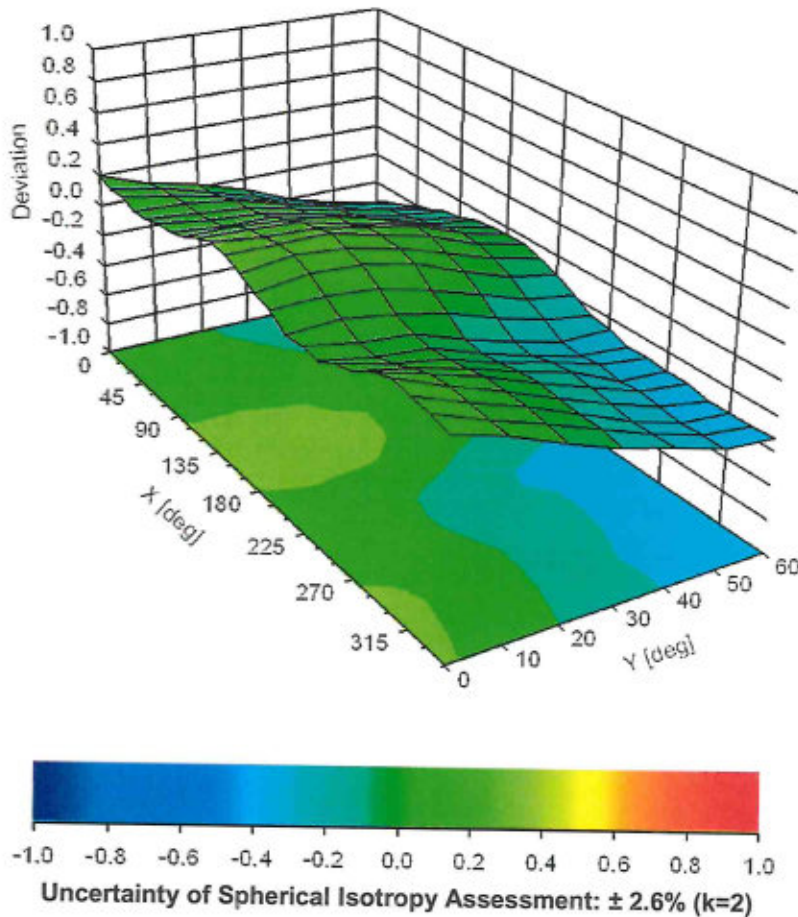


Uncertainty of Linearity Assessment: $\pm 0.6\%$ (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (ϕ, θ), $f = 900 \text{ MHz}$





Appendix E. Conducted RF Output Power Table

The detailed power table are shown as follows.



Default Power/Pmax power for WWAN

ANT1									
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	128	189	251		128	189	251		
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	31.86	31.94	31.75	33.50	22.86	22.94	22.75	24.50	0.21
GPRS 1 Tx slot	31.85	31.93	31.73	33.50	22.85	22.93	22.73	24.50	0.33
GPRS 2 Tx slots	30.18	30.51	30.20	32.00	24.18	24.51	24.20	26.00	0.17
GPRS 3 Tx slots	28.80	28.78	28.63	30.00	24.54	24.52	24.37	25.74	0.20
GPRS 4 Tx slots	26.41	26.61	26.57	28.00	23.41	23.61	23.57	25.00	0.29
EDGE 1 Tx slot	24.78	25.07	25.01	26.00	15.78	16.07	16.01	17.00	0.39
EDGE 2 Tx slots	23.34	23.73	23.61	24.50	17.34	17.73	17.61	18.50	0.40
EDGE 3 Tx slots	21.40	21.63	21.80	22.50	17.14	17.37	17.54	18.24	0.20
EDGE 4 Tx slots	19.54	19.72	19.74	21.00	16.54	16.72	16.74	18.00	

ANT1									
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	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	28.92	29.40	29.21	30.50	19.92	20.40	20.21	21.50	0.49
GPRS 1 Tx slot	28.91	29.36	29.20	30.50	19.91	20.36	20.20	21.50	0.41
GPRS 2 Tx slots	26.43	26.84	26.48	28.00	20.43	20.84	20.48	22.00	0.24
GPRS 3 Tx slots	24.93	25.17	25.12	26.50	20.67	20.91	20.86	22.24	0.49
GPRS 4 Tx slots	23.17	23.51	23.66	24.50	20.17	20.51	20.66	21.50	0.49
EDGE 1 Tx slot	24.72	25.03	25.21	26.50	15.72	16.03	16.21	17.50	0.45
EDGE 2 Tx slots	23.57	23.94	24.02	25.00	17.57	17.94	18.02	19.00	0.47
EDGE 3 Tx slots	21.89	22.32	22.36	23.50	17.63	18.06	18.10	19.24	0.44
EDGE 4 Tx slots	20.01	20.45	20.43	21.50	17.01	17.45	17.43	18.50	

ANT1		WCDMA II			ANT1			WCDMA IV			ANT1			WCDMA V			
Band	TX Channel	9262	9400	9538	Tune-up Limit (dBm)	1312	1413	1513	Tune-up Limit (dBm)	4132	4182	4233	Tune-up Limit (dBm)	4357	4407	4458	
Rx Channel	9662	9800	9938		1637	1638	1738		8264	8364	8466		8264	8364	8466		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		8264	8364	8466		8264	8364	8466		
3GPP Rel 99	AMR 12.2Kbps	22.39	22.77	22.65	24.00	22.75	22.79	22.63	24.00	23.01	23.05	22.93	24.00	23.01	23.05	22.93	24.00
3GPP Rel 99	RMC 12.2Kbps	22.41	22.78	22.68	24.00	22.79	22.81	22.66	24.00	23.03	23.08	22.95	24.00	23.03	23.08	22.95	24.00
3GPP Rel 6	HSDPA Subtest-1	21.80	22.07	22.22	23.00	22.24	22.25	22.16	23.00	22.08	22.02	21.93	23.00	22.08	22.02	21.93	23.00
3GPP Rel 6	HSDPA Subtest-2	21.81	22.05	22.21	23.00	22.26	22.22	22.12	23.00	22.09	22.02	21.93	23.00	22.09	22.02	21.93	23.00
3GPP Rel 6	HSDPA Subtest-3	21.33	21.57	21.77	22.50	21.77	21.78	21.64	22.50	21.56	21.52	21.41	22.50	21.56	21.52	21.41	22.50
3GPP Rel 6	HSDPA Subtest-4	21.33	21.57	21.71	22.50	21.77	21.74	21.62	22.50	21.61	21.51	21.41	22.50	21.61	21.51	21.41	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.79	22.04	22.11	23.00	22.16	22.19	22.12	23.00	21.99	21.92	21.80	23.00	21.99	21.92	21.80	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.75	22.02	22.08	23.00	22.18	22.18	22.00	23.00	21.94	22.00	21.82	23.00	21.94	22.00	21.82	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.30	21.54	21.67	22.50	21.71	21.75	21.57	22.50	21.51	21.48	21.33	22.50	21.51	21.48	21.33	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.24	21.44	21.67	22.50	21.73	21.61	21.50	22.50	21.55	21.43	21.35	22.50	21.55	21.43	21.35	22.50
3GPP Rel 6	HSUPA Subtest-1	21.84	22.09	22.20	23.00	22.23	22.21	22.12	23.00	22.04	21.99	21.89	23.00	22.04	21.99	21.89	23.00
3GPP Rel 6	HSUPA Subtest-2	19.86	20.05	20.17	21.00	20.18	20.15	20.12	21.00	20.05	20.00	20.04	21.00	20.05	20.00	20.04	21.00
3GPP Rel 6	HSUPA Subtest-3	20.86	21.06	21.23	22.00	21.27	21.23	21.12	22.00	21.05	21.02	21.03	22.00	21.05	21.02	21.03	22.00
3GPP Rel 6	HSUPA Subtest-4	19.84	20.10	20.23	21.00	20.31	20.22	20.13	21.00	20.04	20.00	20.02	21.00	20.04	20.00	20.02	21.00
3GPP Rel 6	HSUPA Subtest-5	21.80	22.10	22.20	23.00	22.20	22.20	22.10	23.00	22.00	22.00	21.90	23.00	22.00	22.00	21.90	23.00



Band 2 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Power (W)	Turn-up (dBm)	MPR (dB)	
				Ch1 Freq	Ch2 Freq	Ch3 Freq	Ch4 Freq			
				1887.5	1890	1915	1915			
				1887.5	1890	1915	1915	Turn-up (dBm)	MPR (dB)	
20	QPSK	1	0	22.50	22.88	22.81				
20	QPSK	1	49	22.43	22.87	22.70		24	0	
20	QPSK	1	49	22.44	22.87	22.70				
20	QPSK	50	0	21.44	21.85	21.83				
20	QPSK	50	24	21.52	21.85	21.71		23	1	
20	QPSK	50	24	21.54	21.85	21.74				
20	QPSK	100	0	21.56	21.89	21.83				
20	16QAM	1	0	22.09	22.11	21.83				
20	16QAM	1	49	21.86	22.11	22.01		23	1	
20	16QAM	1	99	21.99	22.19	22.10				
20	16QAM	50	0	20.43	20.59	20.89				
20	16QAM	50	24	20.53	20.69	20.99				
20	16QAM	50	50	20.41	20.58	20.83		22	2	
20	16QAM	100	0	20.59	20.65	20.72				
20	16QAM	100	49	20.39	20.59	20.80				
20	16QAM	100	99	20.48	20.53	20.80		22	2	
20	84QAM	1	99	20.42	20.78	20.39				
20	84QAM	50	24	19.50	19.58	19.80				
20	84QAM	50	24	19.50	19.58	19.80				
20	84QAM	50	50	19.39	19.59	19.72		21	3	
20	84QAM	100	0	18.49	18.86	18.62				
20	84QAM	100	49	18.11	18.29	18.07				
20	84QAM	100	99	17.92	18.21	18.21		19	5	
20	256QAM	1	99	17.96	18.35	18.00				
20	256QAM	50	24	18.29	18.29	18.08				
20	256QAM	50	24	18.30	18.19	17.98		19	5	
20	256QAM	50	50	18.14	18.21	18.03				
20	256QAM	100	0	18.34	18.29	17.88				
				Channel	1887.5	1890	1915	Turn-up (dBm)	MPR (dB)	
				1887.5	1890	1915	1915	Turn-up (dBm)	MPR (dB)	
15	QPSK	1	0	22.00	22.30	22.30				
15	QPSK	1	37	22.36	22.52	22.75		24	0	
15	QPSK	1	74	22.36	22.52	22.71				
15	QPSK	36	0	21.49	21.63	21.48				
15	QPSK	36	21	21.55	21.77	21.83		23	1	
15	QPSK	36	39	21.48	21.76	21.81				
15	QPSK	75	0	21.58	21.74	21.81				
15	16QAM	1	37	21.72	21.85	21.80		23	1	
15	16QAM	1	74	21.51	21.93	21.87				
15	16QAM	50	0	20.57	20.87	20.82				
15	16QAM	50	20	20.56	20.72	20.80		22	2	
15	16QAM	50	39	20.49	20.59	20.68				
15	16QAM	100	0	20.65	20.68	20.68				
15	16QAM	100	37	20.41	20.55	20.52		22	2	
15	84QAM	1	74	20.46	20.52	20.47				
15	84QAM	36	0	19.57	19.64	19.65				
15	84QAM	36	20	19.58	19.66	19.77		21	3	
15	84QAM	36	39	19.50	19.76	19.80				
15	84QAM	75	0	19.56	19.71	19.70				
15	256QAM	1	0	18.05	18.35	17.98				
15	256QAM	36	0	18.06	18.29	18.07				
15	256QAM	36	21	17.90	18.35	17.92		19	5	
15	256QAM	36	39	18.28	18.29	17.98				
15	256QAM	36	39	18.04	18.33	18.08		19	5	
15	256QAM	75	0	18.28	18.17	17.90				
				Channel	1887.5	1890	1915	Turn-up (dBm)	MPR (dB)	
				1887.5	1890	1915	1915	Turn-up (dBm)	MPR (dB)	
10	QPSK	1	0	22.72	22.62	22.84				
10	QPSK	1	25	22.58	22.84	22.80		24	0	
10	QPSK	1	49	22.45	22.83	22.80				
10	QPSK	25	0	21.68	21.70	21.83				
10	QPSK	25	12	21.72	21.82	21.94		23	1	
10	QPSK	50	0	21.60	21.84	21.87				
10	QPSK	50	0	21.66	21.88	21.87				
10	16QAM	1	0	21.83	21.96	22.07		23	1	
10	16QAM	1	49	21.70	22.00	22.00				
10	16QAM	1	49	21.71	21.90	22.03				
10	16QAM	25	0	20.59	20.61	20.57				
10	16QAM	25	12	20.61	20.77	20.87		22	2	
10	16QAM	25	25	20.69	20.68	21.00				
10	16QAM	50	0	20.59	20.84	20.94				
10	16QAM	50	24	20.50	20.54	20.76		22	2	
10	16QAM	50	24	20.43	20.38	20.82				
10	84QAM	1	49	20.42	20.69	20.72				
10	84QAM	25	0	19.70	19.82	19.84				
10	84QAM	25	12	19.62	19.76	19.85		21	3	
10	84QAM	25	25	19.48	19.69	19.80				
10	84QAM	36	0	18.80	18.74	18.94				
10	84QAM	36	21	18.86	18.94	19.04		19	5	
10	256QAM	1	25	17.87	18.34	18.21				
10	256QAM	1	49	17.88	18.30	17.94				
10	256QAM	25	0	18.28	18.21	18.08				
10	256QAM	25	12	18.28	18.21	17.93		19	5	
10	256QAM	25	25	18.09	18.12	17.99				
10	256QAM	25	25	18.21	18.28	18.13				
				Channel	1887.5	1890	1915	Turn-up (dBm)	MPR (dB)	
				1887.5	1890	1915	1915	Turn-up (dBm)	MPR (dB)	
5	QPSK	1	0	22.50	22.78	22.82				
5	QPSK	1	12	22.48	22.88	22.88		24	0	
5	QPSK	1	24	22.45	22.48	22.68				
5	QPSK	12	0	21.71	21.78	22.00				
5	QPSK	12	7	21.66	21.88	21.87		23	1	
5	QPSK	12	13	21.55	21.88	21.87				
5	QPSK	25	0	21.66	21.87	21.88				
5	16QAM	1	0	21.84	21.71	22.02		23	1	
5	16QAM	1	12	21.85	21.88	22.19				
5	16QAM	1	24	21.78	21.75	22.18				
5	16QAM	12	0	20.74	20.83	20.88				
5	16QAM	12	7	20.71	20.88	20.96		22	2	
5	16QAM	12	13	20.58	20.83	20.68				
5	16QAM	25	0	20.64	20.64	20.64				
5	84QAM	1	0	20.55	20.71	20.87		22	2	
5	84QAM	1	12	20.58	20.75	20.83				
5	84QAM	1	24	20.41	20.79	20.88				
5	84QAM	12	0	19.80	19.85	19.89				
5	84QAM	12	7	19.86	19.79	19.99		21	3	
5	84QAM	12	13	19.62	19.76	19.84				
5	256QAM	1	0	18.01	18.25	18.15				
5	256QAM	1	12	17.97	18.29	18.22		19	5	
5	256QAM	1	24	17.97	18.38	17.95				
5	256QAM	12	0	18.24	18.18	17.94				
5	256QAM	12	7	18.24	18.18	18.01				
5	256QAM	12	13	18.23	18.21	18.11		19	5	
5	256QAM	25	0	18.44	18.28	17.88				
				Channel	1887.5	1890	1915	Turn-up (dBm)	MPR (dB)	
				1887.5	1890	1915	1915	Turn-up (dBm)	MPR (dB)	
3	QPSK	1	0	22.59	22.75	22.79				
3	QPSK	1	8	22.41	22.72	22.64		24	0	
3	QPSK	1	14	22.38	22.45	22.76				
3	QPSK	8	0	21.66	21.85	21.87				
3	QPSK	8	4	21.70	21.89	21.87		23	1	
3	QPSK	8	7	21.66	21.78	21.86				
3	QPSK	15	0	21.64	21.85	21.86				
3	16QAM	1	0	22.02	22.10	22.20		23	1	
3	16QAM	1	8	21.79	22.11	22.11				
3	16QAM	1	14	21.88	21.90	22.20				
3	16QAM	8	0	20.77	20.65	21.13				
3	16QAM	8	4	20.76	20.96	21.09		22	2	
3	16QAM	8	7	20.67	20.90	20.78				
3	16QAM	15	0	20.69	20.71	20.84				
3	84QAM	1	0	20.61	20.89	20.81				
3	84QAM	1	8	20.64	20.72	20.77		22	2	
3	84QAM	1	14	20.56	20.67	20.71				
3	84QAM	8	0	19.71	19.71	19.88				
3	84QAM	8	4	19.64	19.77	19.85		21	3	
3	84QAM	8	7	19.61	19.75	19.85				
3	84QAM	15	0	18.54	18.78	19.00				
3	256QAM	1	0	18.25	18.25	18.24				
3	256QAM	1	14	17.88	18.16	18.31		19	5	
3	256QAM	1	14	17.85	18.28	18.03				
3	256QAM	8	0	18.31	18.31	18.31				
3	256QAM	8	4	18.40	18.14	18.21		19	5	
3	256QAM	8	7	18.20	18.20	18.08				
3	256QAM	15	0	18.31	18.18	18.04				
				Channel	1887.5	1890	1915	Turn-up (dBm)	MPR (dB)	
				1887.5	1890	1915	1915	Turn-up (dBm)	MPR (dB)	
1.4	QPSK	1	0	22.43	22.74	22.68				
1.4	QPSK	1	5	22.40						



Band 5 Ant2 for ENDC										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dBm)	MPR (dB)		
Channel				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.				
Frequency (MHz)				2640	2650	2660				
10	QPSK	1	0	23.40	23.43	23.30				
10	QPSK	1	25	23.29	23.31	23.23			24	0
10	QPSK	1	40	23.18	23.20	23.10				
10	QPSK	25	0	22.43	22.48	22.44				
10	QPSK	25	12	22.23	22.23	22.27			23	1
10	QPSK	25	0	22.22	22.23	22.22				
10	16QAM	1	0	22.97	22.72	22.98				
10	16QAM	1	49	22.50	22.50	22.37			23	1
10	16QAM	25	0	21.15	21.29	21.22				
10	16QAM	25	25	21.26	21.25	21.25			22	2
10	16QAM	50	0	21.35	21.47	21.34				
10	16QAM	1	25	21.70	21.81	21.74			22	2
10	16QAM	1	49	21.65	21.78	21.66				
10	16QAM	25	0	20.29	20.29	20.14				
10	16QAM	25	12	20.17	20.23	20.09			21	3
10	16QAM	25	25	20.18	20.20	20.23				
10	16QAM	50	0	20.22	20.24	20.21				
10	16QAM	50	25	19.99	19.92	19.73				
10	16QAM	1	25	18.62	18.54	18.70			19	5
10	16QAM	1	49	18.56	18.60	18.61				
10	16QAM	25	0	18.29	18.32	18.26				
10	16QAM	25	12	18.22	18.33	18.56			19	5
10	16QAM	25	25	18.16	18.32	18.36				
10	16QAM	50	0	18.37	18.30	18.30				
Channel				26420	26515	26605	Turn-up (dBm)	MPR (dB)		
Frequency (MHz)				826.5	836.5	846.5				
3	QPSK	1	0	23.12	23.06	23.08			24	0
3	QPSK	1	24	23.08	23.09	23.03				
3	QPSK	12	0	22.94	22.92	22.97				
3	QPSK	12	13	22.15	22.20	22.24			23	1
3	QPSK	25	0	22.07	22.19	22.07				
3	16QAM	1	0	22.34	22.51	22.41			23	1
3	16QAM	1	12	22.19	22.31	22.23				
3	16QAM	1	24	22.28	22.20	22.26				
3	16QAM	12	0	22.22	22.22	22.16				
3	16QAM	12	7	21.09	21.08	20.91			22	2
3	16QAM	12	13	21.07	21.20	21.07				
3	16QAM	1	0	21.16	21.10	21.09				
3	16QAM	1	0	21.61	21.61	21.57				
3	16QAM	1	12	21.53	21.62	21.61			22	2
3	16QAM	12	0	19.98	20.05	20.01				
3	16QAM	12	7	19.96	20.09	19.87			21	3
3	16QAM	12	13	19.97	20.15	19.97				
3	16QAM	25	0	20.01	20.15	19.97				
3	16QAM	25	12	18.74	18.49	18.64			19	5
3	16QAM	25	25	18.63	18.67	18.68				
3	16QAM	50	0	18.50	18.43	18.52				
3	16QAM	50	25	18.25	18.34	18.39			19	5
3	16QAM	12	13	18.14	18.18	18.37				
3	16QAM	25	0	18.32	18.30	18.30				
Channel				826.5	836.5	846.5	Turn-up (dBm)	MPR (dB)		
Frequency (MHz)				824	836.5	848.5				
1.4	QPSK	1	0	23.30	23.23	23.18			24	0
1.4	QPSK	1	5	23.18	23.07	23.05				
1.4	QPSK	1	5	22.90	22.80	22.80				
1.4	QPSK	3	0	22.90	22.89	22.89				
1.4	QPSK	3	3	22.85	22.89	22.77			23	1
1.4	QPSK	3	3	22.91	22.81	22.77				
1.4	16QAM	1	0	22.02	22.18	22.09			23	1
1.4	16QAM	1	0	22.28	22.10	22.12				
1.4	16QAM	1	3	22.25	22.26	22.18				
1.4	16QAM	1	3	22.02	22.14	22.03			23	1
1.4	16QAM	3	0	22.44	22.48	22.38				
1.4	16QAM	3	1	22.19	22.33	22.24				
1.4	16QAM	3	1	22.29	22.26	22.13			22	2
1.4	16QAM	6	0	20.77	20.62	20.62				
1.4	16QAM	1	0	20.76	20.81	20.84				
1.4	16QAM	1	3	20.97	21.01	20.98				
1.4	16QAM	1	0	21.04	21.13	20.97			22	2
1.4	16QAM	3	0	21.34	21.64	21.36				
1.4	16QAM	3	1	21.40	21.42	21.40			21	3
1.4	16QAM	6	0	19.83	19.80	19.78			21	3
1.4	16QAM	1	0	18.58	18.62	18.65				
1.4	16QAM	1	0	18.60	18.64	18.58				
1.4	16QAM	1	5	18.63	18.58	18.74			19	5
1.4	16QAM	3	0	18.27	18.42	18.41				
1.4	16QAM	3	3	18.16	18.24	18.50				
1.4	16QAM	3	3	18.27	18.30	18.44			19	5
1.4	16QAM	6	0	18.43	18.38	18.44			19	5

Band 7 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dBm)	MPR (dB)		
Channel				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.				
Frequency (MHz)				2160	2160	2160				
20	QPSK	1	0	22.77	22.85	22.89				
20	QPSK	1	49	22.66	22.60	22.58			24	0
20	QPSK	1	99	22.50	22.73	22.78				
20	QPSK	50	0	21.82	21.92	21.78				
20	QPSK	50	24	21.87	21.81	21.85			23	1
20	QPSK	100	0	21.78	21.88	21.74				
20	16QAM	1	0	22.10	22.13	21.99				
20	16QAM	1	49	22.00	21.96	21.84			23	1
20	16QAM	1	99	21.91	21.91	21.91				
20	16QAM	50	0	20.91	20.80	20.78				
20	16QAM	50	24	20.90	20.97	20.98				
20	16QAM	50	50	20.83	20.67	20.73			22	2
20	16QAM	100	0	20.89	20.77	20.75				
20	16QAM	1	0	20.96	20.97	20.98				
20	16QAM	1	49	20.84	20.89	20.83			22	2
20	16QAM	1	99	20.93	20.75	20.74				
20	16QAM	50	0	19.92	19.94	19.80				
20	16QAM	50	24	19.93	19.76	19.75			21	3
20	16QAM	50	50	19.87	19.72	19.69				
20	16QAM	100	0	19.87	19.84	19.80				
20	16QAM	1	0	19.53	19.51	19.56				
20	16QAM	1	49	18.57	18.60	18.59			19	5
20	16QAM	1	99	18.47	18.57	18.56				
20	16QAM	50	0	18.48	18.45	18.45				
20	16QAM	50	24	18.35	18.40	18.41			19	5
20	16QAM	50	50	18.61	18.38	18.35				
20	16QAM	100	0	18.43	18.40	18.44			19	5
Channel				2065	2100	2135	Turn-up (dBm)	MPR (dB)		
Frequency (MHz)				2507	2535	2562.5				
15	QPSK	1	0	22.11	22.11	22.11				
15	QPSK	1	37	22.77	22.81	22.81			24	0
15	QPSK	1	74	22.70	22.70	22.54				
15	QPSK	36	0	21.76	21.74	21.84				
15	QPSK	36	0	21.92	21.79	21.79			23	1
15	QPSK	36	39	21.90	21.82	21.77				
15	QPSK	75	0	21.88	21.78	21.77				
15	16QAM	1	0	22.06	22.02	21.81				
15	16QAM	1	37	21.96	21.99	21.81			23	1
15	16QAM	1	74	22.11	21.99	21.89				
15	16QAM	36	0	20.85	20.76	20.82				
15	16QAM	36	20	20.88	20.71	20.81			22	2
15	16QAM	36	39	20.95	20.81	20.69				
15	16QAM	75	0	20.87	20.79	20.83				
15	16QAM	1	0	20.93	20.78	20.87				
15	16QAM	1	37	20.79	21.08	20.84			22	2
15	16QAM	1	74	22.09	22.02	21.81				
15	16QAM	36	0	19.90	19.78	19.77				
15	16QAM	36	20	20.01	19.77	19.78			21	3
15	16QAM	36	39	20.06	20.06	19.98				
15	16QAM	75	0	19.96	19.76	19.74				
15	16QAM	75	0	18.42	18.62	18.66			19	5
15	16QAM	1	0	18.57	18.57	18.57				
15	16QAM	1	74	18.56	18.64	18.59			19	5
15	16QAM	36	0	18.36	18.51	18.37				
15	16QAM	36	20	18.56	18.46	18.38			19	5
15	16QAM	36	39	18.73	18.29	18.36				
15	16QAM	75	0	18.48	18.27	18.48				
Channel				2507	2535	2562.5	Turn-up (dBm)	MPR (dB)		
Frequency (MHz)				2505	2535	2565				
10	QPSK	1	0	22.75	22.83	22.75				
10	QPSK	1	25	22.81	22.83	22.77			24	0
10	QPSK	1	49	22.78	22.78	22.78				
10	QPSK	25	0	22.09	21.94	21.90				
10	QPSK	25	12	22.09	21.89	21.87			23	1
10	QPSK	25	25	22.09	22.09	22.09				
10	QPSK	50	0	22.10	21.90	21.93				
10	16QAM	1	0	22.32	2					



Band 12 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
				2300	2305	2310				
10	QPSK	1	0	22.73	22.98	22.79				
10	QPSK	1	25	22.94	22.83	22.83	24	0		
10	QPSK	1	49	22.81	22.81	22.81				
10	QPSK	25	0	21.94	21.98	21.92				
10	QPSK	25	12	21.94	21.92	21.95	23	1		
10	QPSK	25	25	21.95	21.93	21.93				
10	QPSK	50	0	21.92	21.93	21.89				
10	16QAM	1	0	22.45	22.43	22.44				
10	16QAM	1	25	22.45	22.44	22.44	23	1		
10	16QAM	1	49	22.05	22.05	22.08				
10	16QAM	25	0	21.19	21.11	21.17				
10	16QAM	25	12	21.15	21.13	21.16				
10	16QAM	25	25	21.11	21.15	21.18	22	2		
10	16QAM	50	0	21.19	21.10	21.14				
10	64QAM	1	0	21.12	21.09	21.10				
10	64QAM	1	25	21.12	20.99	21.10	22	2		
10	64QAM	1	49	21.09	20.98	21.03				
10	64QAM	25	0	20.92	20.97	20.91				
10	64QAM	25	12	20.92	20.98	20.93	21	3		
10	64QAM	25	25	20.92	20.98	20.95				
10	64QAM	50	0	19.97	19.99	19.94				
10	256QAM	1	0	18.30	18.41	18.35	19	5		
10	256QAM	1	25	18.38	18.32	18.48				
10	256QAM	1	49	18.25	18.37	18.39				
10	256QAM	25	0	18.30	18.39	18.36	19	5		
10	256QAM	25	12	18.46	18.44	18.15				
10	256QAM	25	25	18.43	18.32	18.34	19	5		
10	256QAM	50	0	18.38	18.48	18.34				
Channel										
Frequency (MHz)										
				2303	2305	2315	Turn-up (dBm)	MPR (dB)		
5	QPSK	1	0	22.81	22.77	22.76				
5	QPSK	1	12	22.88	22.79	22.80	24	0		
5	QPSK	1	24	22.87	22.78	22.79				
5	QPSK	12	0	21.88	21.76	21.86				
5	QPSK	12	7	21.88	21.86	21.89	23	1		
5	QPSK	12	13	21.89	21.86	21.89				
5	QPSK	25	0	21.89	21.89	21.84				
5	16QAM	1	0	22.39	22.31	22.40				
5	16QAM	1	12	22.01	22.01	22.01	23	1		
5	16QAM	1	24	22.03	22.03	22.02				
5	16QAM	12	0	21.95	21.96	21.11				
5	16QAM	12	7	21.21	21.09	21.13	22	2		
5	16QAM	12	13	21.08	21.12	21.14				
5	16QAM	25	0	21.12	21.09	21.09				
5	64QAM	1	0	21.09	21.04	21.08				
5	64QAM	1	12	21.05	20.92	21.07	22	2		
5	64QAM	1	24	21.05	20.92	21.07				
5	64QAM	12	0	19.89	19.94	19.96				
5	64QAM	12	7	19.99	19.93	19.88	21	3		
5	64QAM	12	13	19.99	19.93	19.93				
5	64QAM	25	0	19.91	19.92	19.90				
5	256QAM	1	0	18.18	18.47	18.43				
5	256QAM	1	25	18.29	18.27	18.26	19	5		
5	256QAM	1	49	18.13	18.33	18.32				
5	256QAM	12	0	18.58	18.48	18.13				
5	256QAM	12	7	18.40	18.40	18.26	19	5		
5	256QAM	12	13	18.44	18.31	18.23				
5	256QAM	25	0	18.33	18.58	18.22				
Channel										
Frequency (MHz)										
				707.5	707.5	714.5	Turn-up (dBm)	MPR (dB)		
3	QPSK	1	0	22.69	22.92	22.76				
3	QPSK	1	8	22.91	22.76	22.76	24	0		
3	QPSK	1	16	22.83	22.77	22.80				
3	QPSK	8	0	21.90	21.92	21.87				
3	QPSK	8	4	21.89	21.86	21.92	23	1		
3	QPSK	8	12	21.90	21.91	21.87				
3	QPSK	15	0	21.86	21.90	21.84				
3	16QAM	1	0	22.41	22.37	22.37				
3	16QAM	1	8	21.95	21.95	21.95	23	1		
3	16QAM	1	16	22.01	21.99	22.05				
3	16QAM	8	0	21.15	21.07	21.14				
3	16QAM	8	4	21.16	21.07	21.14	22	2		
3	16QAM	8	7	21.05	21.11	21.11				
3	16QAM	15	0	21.12	21.03	21.08				
3	64QAM	1	0	21.11	21.07	21.06				
3	64QAM	1	8	21.09	20.92	21.06	22	2		
3	64QAM	1	16	21.03	20.92	20.98				
3	64QAM	8	0	19.92	19.96	19.96				
3	64QAM	8	4	19.99	19.91	19.89	21	3		
3	64QAM	8	7	19.88	19.91	19.90				
3	256QAM	1	0	18.92	18.92	18.99				
3	256QAM	1	8	18.42	18.49	18.46	19	5		
3	256QAM	1	14	18.28	18.40	18.36				
3	256QAM	8	0	18.62	18.32	18.10				
3	256QAM	8	4	18.33	18.49	18.29	19	5		
3	256QAM	8	7	18.29	18.40	18.22				
3	256QAM	15	0	18.24	18.52	18.26				
Channel										
Frequency (MHz)										
				699.7	707.5	715.3	Turn-up (dBm)	MPR (dB)		
1.4	QPSK	1	0	22.88	22.96	22.72				
1.4	QPSK	1	5	22.85	22.76	22.79	24	0		
1.4	QPSK	3	0	22.89	22.82	22.88				
1.4	QPSK	3	3	22.83	22.73	22.73				
1.4	QPSK	3	3	22.78	22.71	22.74				
1.4	16QAM	1	0	21.88	21.89	21.86	23	1		
1.4	16QAM	1	5	22.41	22.37	22.41				
1.4	16QAM	1	3	22.01	22.02	22.02				
1.4	16QAM	3	0	22.01	21.99	22.02	23	1		
1.4	16QAM	3	1	21.17	21.10	21.12				
1.4	16QAM	3	3	21.08	21.13	21.11	22	2		
1.4	16QAM	6	0	21.15	21.04	21.06				
1.4	64QAM	1	0	21.08	21.03	21.09				
1.4	64QAM	1	3	21.06	20.95	21.07	22	2		
1.4	64QAM	1	6	21.04	20.93	20.96				
1.4	64QAM	3	0	21.03	20.97	21.04				
1.4	64QAM	3	1	20.99	20.90	21.03	21	3		
1.4	64QAM	3	3	20.99	20.90	20.93				
1.4	64QAM	6	0	19.93	19.94	19.90	21	3		
1.4	256QAM	1	0	18.38	18.52	18.28				
1.4	256QAM	1	3	18.46	18.44	18.42	19	5		
1.4	256QAM	1	5	18.14	18.38	18.38				
1.4	256QAM	3	0	18.53	18.38	18.37				
1.4	256QAM	3	1	18.59	18.47	18.26	19	5		
1.4	256QAM	3	3	18.50	18.28	18.33				
1.4	256QAM	6	0	18.31	18.48	18.44	19	5		

Band 12 Ant2 for ENDC										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
				2300	2305	2310				
10	QPSK	1	0	22.79	22.97	22.88				
10	QPSK	1	25	22.90	22.86	22.82	24	0		
10	16QAM	1	0	22.50	22.50	22.50				
10	16QAM	25	0	22.81	22.81	22.72				
10	16QAM	25	12	22.79	22.70	22.69	24	0		
10	16QAM	25	25	22.76	22.76	22.73				
10	16QAM	50	0	22.81	22.74	22.79				
10	16QAM	1	0	21.99	21.47	21.51				
10	16QAM	1	25	21.99	21.47	21.51	23	1		
10	16QAM	1	49	21.20	21.14	21.11				
10	16QAM	25	0	21.97	21.84	21.85				
10	16QAM	25	12	21.93	21.82	21.83	23	1		
10	16QAM	25	25	21.99	21.91	22.00				
10	16QAM	50	0	21.91	21.89	21.87				
10	64QAM	1	0	21.46	21.39	21.38				
10	64QAM	1	25	21.43	21.39	21.29	22	2		
10	64QAM	1	49	21.24	21.33	21.28				
10	64QAM	25	0	20.92	20.97	20.91				
10	64QAM	25	12	20.92	20.98	20.93	21	3		
10	64QAM	25	25	20.92	20.98	20.95				
10	64QAM	50	0	19.97	19.93	19.87				
10	64QAM	50	0	19.96	19.99	20.05				
10	256QAM	1	0	18.17	18.27	18.23				
10	256QAM	1	25	18.22	18.30	18.25	19	5		
10	256QAM	1	49	18.31	18.30	18.28				
10	256QAM	25	0	18.30	18.33	18.28	19	5		
10	256QAM	25	12	18.20	18.28	18.28				
10	256QAM	25	25	18.18	18.27	18.24	19	5		
10	256QAM	50	0	18.22	18.30	18.22				
Channel										
Frequency (MHz)										
				2303	2305	2315	Turn-up (dBm)	MPR (dB)		
5	QPSK	1	0	22.73	22.77	22.76				
5	QPSK	1	12	22.81	22.79	22.74	24			



Band 17 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Power (W)	Turn-up (dBm)	MPR (dB)
Channel				2376	2376	2376	2376		
Frequency (MHz)				710	710	710	710		
10	QPSK	1	0	22.82	22.84	22.83	22.82		
10	QPSK	1	25	22.73	22.83	22.81	22.81	24	0
10	QPSK	1	50	22.64	22.82	22.80	22.80		
10	QPSK	25	0	21.92	21.96	21.92	21.92		
10	QPSK	25	12	21.92	21.91	21.95	21.95	23	1
10	QPSK	25	45	21.87	21.81	21.85	21.85		
10	QPSK	50	0	21.91	21.82	21.87	21.87		
10	16QAM	1	0	22.32	22.27	22.35	22.35	23	1
10	16QAM	1	25	22.23	22.13	22.33	22.33		
10	16QAM	1	50	21.97	22.15	22.04	22.04		
10	16QAM	25	0	20.99	21.06	21.05	21.05		
10	16QAM	25	12	20.97	20.98	20.98	20.98	22	2
10	16QAM	25	25	20.95	20.95	20.98	20.98		
10	16QAM	50	0	21.03	20.95	20.82	20.82		
10	16QAM	50	12	21.12	21.18	21.16	21.16		
10	16QAM	50	25	20.94	21.02	21.09	21.09	22	2
10	16QAM	1	48	20.88	20.98	21.07	21.07		
10	16QAM	1	73	20.82	20.98	20.96	20.96		
10	16QAM	25	0	19.99	20.03	20.01	20.01	21	3
10	16QAM	25	12	19.95	19.96	19.90	19.90		
10	16QAM	25	25	19.80	19.92	19.93	19.93		
10	16QAM	50	0	19.82	19.98	19.96	19.96		
10	16QAM	50	12	19.48	19.99	19.90	19.90	19	5
10	16QAM	50	25	18.48	18.58	18.39	18.39		
25QAM	1	49	18.57	18.52	18.53	18.53	18.53		
25QAM	1	74	18.38	18.62	18.35	18.35	18.35		
25QAM	25	12	18.33	18.45	18.24	18.24	18.24	19	5
25QAM	25	25	18.41	18.49	18.48	18.48	18.48		
25QAM	50	0	18.33	18.39	18.26	18.26	18.26		

Band 26 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Power (W)	Turn-up (dBm)	MPR (dB)
Channel				2676	2676	2676	2676		
Frequency (MHz)				814	814	814	814		
15	QPSK	1	0	22.73	22.88	22.89	22.89		
15	QPSK	1	25	22.63	22.72	22.80	22.80		
15	QPSK	1	50	22.54	22.63	22.71	22.71		
15	QPSK	25	0	21.89	21.98	21.72	21.72		
15	QPSK	25	12	21.89	21.82	21.77	21.77	23	1
15	QPSK	25	45	21.82	21.78	21.83	21.83		
15	16QAM	1	0	22.28	21.92	21.91	21.91	23	1
15	16QAM	1	25	22.19	21.87	21.87	21.87		
15	16QAM	1	50	21.85	21.89	21.89	21.89		
15	16QAM	25	0	20.92	20.80	20.86	20.86		
15	16QAM	25	12	20.92	20.90	20.86	20.86	22	2
15	16QAM	25	25	20.95	20.91	20.94	20.94		
15	16QAM	50	0	20.83	20.70	20.55	20.55		
15	16QAM	50	12	21.04	20.92	20.86	20.86		
15	16QAM	50	25	20.88	20.91	20.80	20.80	22	2
15	16QAM	1	74	21.02	20.83	20.74	20.74		
15	16QAM	1	99	20.95	20.90	20.76	20.76		
15	16QAM	25	0	19.77	19.60	19.70	19.70	21	3
15	16QAM	25	12	19.77	19.60	19.63	19.63		
15	16QAM	25	25	19.77	19.60	19.63	19.63		
15	16QAM	50	0	18.19	18.07	18.07	18.07	19	5
15	16QAM	50	12	18.25	18.00	18.23	18.23		
15	16QAM	50	25	18.11	18.08	18.06	18.06		
15	25QAM	1	37	18.06	17.90	18.23	18.23		
15	25QAM	1	62	18.06	17.90	18.23	18.23		
15	25QAM	25	0	18.06	17.90	18.23	18.23	19	5
15	25QAM	25	12	18.14	17.90	18.19	18.19		
15	25QAM	25	25	18.07	17.90	17.79	17.79		

Band 66 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Power (W)	Turn-up (dBm)	MPR (dB)
Channel				13047	13022	13022	13022		
Frequency (MHz)				1717.5	1745	1772.5	1772.5		
20	QPSK	1	0	22.83	22.87	22.48	22.48		
20	QPSK	1	49	22.50	22.83	22.54	22.54	24	0
20	QPSK	1	98	22.41	22.86	22.46	22.46		
20	QPSK	50	0	21.71	21.78	21.58	21.58		
20	QPSK	50	24	21.74	21.58	21.44	21.44	23	1
20	QPSK	50	48	21.67	21.58	21.44	21.44		
20	16QAM	1	0	21.80	21.84	21.59	21.59		
20	16QAM	1	24	21.76	21.82	21.53	21.53		
20	16QAM	1	49	21.67	21.82	21.59	21.59		
20	16QAM	50	0	20.76	20.62	20.51	20.51		
20	16QAM	50	24	20.76	20.65	20.60	20.60	22	2
20	16QAM	50	48	20.82	20.50	20.59	20.59		
20	16QAM	100	0	20.79	20.51	20.47	20.47		
20	16QAM	100	24	21.00	20.78	20.70	20.70		
20	16QAM	100	48	20.81	20.59	20.58	20.58	22	2
20	16QAM	1	99	20.96	20.75	20.70	20.70		
20	16QAM	1	124	20.84	20.70	20.70	20.70		
20	16QAM	25	0	19.74	19.50	19.42	19.42	21	3
20	16QAM	25	12	19.74	19.48	19.46	19.46		
20	16QAM	25	25	19.74	19.48	19.46	19.46		
20	25QAM	1	49	18.47	18.56	18.53	18.53	19	5
20	25QAM	1	99	18.52	18.46	18.39	18.39		
20	25QAM	1	149	18.51	18.37	18.36	18.36		
20	25QAM	50	24	18.46	18.45	18.45	18.45	19	5
20	25QAM	50	50	18.51	18.44	18.30	18.30		
20	25QAM	50	75	18.46	18.30	18.26	18.26		

Band 66 Ant 2 for END C									
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Power (W)	Turn-up (dBm)	MPR (dB)
Channel				13047	13022	13022	13022		
Frequency (MHz)				1717.5	1745	1772.5	1772.5		
20	QPSK	1	0	22.83	22.87	22.48	22.48		
20	QPSK	1	49	22.50	22.79	22.65	22.65	24	0
20	QPSK	1	98	22.41	22.86	22.46	22.46		
20	QPSK	50	0	21.81	21.72	21.62	21.62		
20	QPSK	50	24	21.82	21.85	21.73	21.73	23	1
20	QPSK	50	48	21.75	21.82	21.63	21.63		
20	16QAM	1	0	21.77	21.84	21.56	21.56		
20	16QAM	1	24	21.73	21.84	21.53	21.53	23	1
20	16QAM	1	49	21.67	21.82	21.59	21.59		
20	16QAM	50	0	20.63	20.88	20.72	20.72		
20	16QAM	50	24	20.75	20.81	20.68	20.68	22	2
20	16QAM	50	48	20.75	20.82	20.65	20.65		
20	16QAM	100	0	20.51	20.82	20.66	20.66		
20	16QAM	100	24	20.75	20.81	20.68	20.68		
20	16QAM	100	48	20.51	21.05	20.83	20.83	22	2
20	16QAM	1	99	20.59	20.91	20.83	20.83		
20	16QAM	1	124	20.59	20.91	20.83	20.83		
20	16QAM	25	0	19.52	19.86	19.72	19.72	21	3
20	16QAM	25	12	19.52	19.84	19.84	19.84		
20	16QAM	25	25	19.52	19.83	19.82	19.82		
20	16QAM	50	0	18.57	18.33	18.09	18.09	19	5
20	16QAM	50	12	18.57	18.22	18.23	18.23		
20	16QAM	50	24	18.57	18.22	18.23	18.23		
20	16QAM	50	48	18.57	18.22	18.23	18.23		
20	16QAM	100	0	18.57	18.22	18.23	18.23	19	5
20	16QAM	100	24	18.57	18.22	18.23	18.23		
20	16QAM	100	48	18.57	18.22	18.23	18.23		
20	16QAM	1	99	18.50	18.22	18.23	18.23		
20	16QAM	1	124	18.50	18.22	18.23	18.23		
20	16QAM	25	0	18.15	18.25	18.18	18.18	19	5
20	16QAM	25	12	18.15	18.25	18.18	18.18		
20	16QAM	25	25	18.15	18.25	18.18	18.18		
20	16QAM	50	0	17.87	17.85	17.81	17.81		
20	16QAM	50	12	17.87	17.85	17.81	17.81		
20	16QAM	50	24	17.87	17.85	17.81	17.81		
20	16QAM	50	48	17.87	17.85	17.81	17.81		
20	16QAM	100	0	17.87	17.85	17.81	17.81	19	5
20	16QAM	100	24	17.87	17.85	17.81	17.81		
20	16QAM	100	48	17.87	17.85	17.81	17.81		

Band 17 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Power (W)	Turn-up (dBm)	MPR (dB)
Channel				2376	2376	2376	2376		
Frequency (MHz)				710	710	710	710		
10	QPSK	1	0	22.84	22.84	22.80	22.80		
10	QPSK	1	12	22.91	22.86	22.83	22.83	24	0
10	QPSK	1	24	22.78	22.82	22.84	22.84		
10	QPSK	12	0	21.99	21.88	21.99	21.99		
10	QPSK	12	7	21.99	22.02	21.97	21.97	23	1
10	QPSK	12	13	21.91	21.90	21.96	21.96		
10	QPSK	25	0	22.02	21.85	21.90	21.90		



Band 38 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37850	38000	38150			
20	QPSK	1	0	22.85	22.85	22.85	24	0	
20	QPSK	1	49	22.55	22.82	22.87	24	0	
20	QPSK	1	99	22.49	22.83	22.54	24	0	
20	QPSK	50	0	21.57	21.79	21.86	23	1	
20	QPSK	50	24	21.68	21.86	21.77	23	1	
20	QPSK	50	50	21.51	21.73	21.72	23	1	
20	16QAM	1	0	21.79	21.82	21.88	22	2	
20	16QAM	1	49	21.73	21.83	21.78	22	2	
20	16QAM	1	99	21.65	21.83	21.75	22	2	
20	16QAM	50	0	20.80	20.73	20.74	21	3	
20	16QAM	50	24	20.74	20.72	20.77	21	3	
20	16QAM	50	50	20.61	20.78	20.74	21	3	
20	84QAM	100	0	20.72	20.71	20.75	21	3	
20	84QAM	100	0	20.49	20.51	20.48	21	3	
20	84QAM	1	49	20.38	20.42	20.36	21	3	
20	84QAM	1	99	20.29	20.34	20.33	21	3	
20	84QAM	50	0	19.56	19.65	19.65	21	3	
20	84QAM	50	24	19.51	19.67	19.74	21	3	
20	84QAM	50	50	19.62	19.73	19.70	21	3	
20	84QAM	100	0	19.73	19.69	19.77	21	3	
20	256QAM	1	0	18.56	18.53	18.47	19	5	
20	256QAM	1	49	18.51	18.45	18.50	19	5	
20	256QAM	1	99	18.47	18.51	18.47	19	5	
20	256QAM	50	0	18.56	18.69	18.67	19	5	
20	256QAM	50	24	18.55	18.66	18.66	19	5	
20	256QAM	50	50	18.48	18.73	18.77	19	5	
20	256QAM	100	0	18.67	18.63	18.67	19	5	
Channel									
Frequency (MHz)				37825	38000	38175			
15	QPSK	1	0	22.58	22.61	22.64	24	0	
15	QPSK	1	49	22.28	22.58	22.82	24	0	
15	QPSK	1	99	22.49	22.82	22.80	24	0	
15	QPSK	36	0	21.55	21.68	21.66	23	1	
15	QPSK	36	20	21.67	21.68	21.70	23	1	
15	QPSK	36	39	21.56	21.69	21.85	23	1	
15	QPSK	1	49	21.83	21.84	21.84	23	1	
15	16QAM	1	0	21.75	21.86	21.85	23	1	
15	16QAM	1	37	21.74	21.78	21.78	23	1	
15	16QAM	1	74	21.89	21.81	21.78	23	1	
15	16QAM	36	0	20.62	20.58	20.64	22	2	
15	16QAM	36	20	20.65	20.71	20.87	22	2	
15	16QAM	36	39	20.57	20.71	20.69	22	2	
15	16QAM	75	0	20.69	20.70	20.69	22	2	
15	84QAM	1	0	20.43	20.51	20.45	22	2	
15	84QAM	1	37	20.32	20.41	20.36	22	2	
15	84QAM	1	74	20.30	20.37	20.30	22	2	
15	84QAM	36	0	19.56	19.68	19.67	21	3	
15	84QAM	36	20	19.70	19.72	19.69	21	3	
15	84QAM	36	39	19.61	19.73	19.68	21	3	
15	84QAM	75	0	19.71	19.73	19.68	21	3	
15	256QAM	1	0	18.47	18.56	18.52	19	5	
15	256QAM	1	37	18.50	18.42	18.51	19	5	
15	256QAM	1	74	18.43	18.54	18.58	19	5	
15	256QAM	36	0	18.67	18.60	18.65	19	5	
15	256QAM	36	20	18.67	18.59	18.79	19	5	
15	256QAM	36	39	18.61	18.60	18.89	19	5	
15	256QAM	75	0	18.58	18.54	18.64	19	5	
Channel									
Frequency (MHz)				37870	38000	38125			
10	QPSK	1	0	22.72	22.68	22.73	24	0	
10	QPSK	1	25	22.68	22.77	22.69	24	0	
10	QPSK	1	49	22.72	22.61	22.87	24	0	
10	QPSK	25	0	21.67	21.87	21.83	23	1	
10	QPSK	25	12	21.83	21.86	21.58	23	1	
10	QPSK	25	25	21.51	21.80	21.56	23	1	
10	QPSK	50	0	21.83	21.73	21.58	23	1	
10	16QAM	1	0	21.84	22.05	22.08	23	1	
10	16QAM	1	25	21.84	21.74	21.78	23	1	
10	16QAM	1	49	21.81	21.95	21.97	23	1	
10	16QAM	25	0	20.59	20.82	20.75	22	2	
10	16QAM	25	12	20.53	20.59	20.82	22	2	
10	16QAM	25	25	20.72	20.70	20.85	22	2	
10	16QAM	50	0	20.78	20.90	20.90	22	2	
10	84QAM	1	0	20.84	20.81	20.82	22	2	
10	84QAM	1	25	20.57	20.80	20.82	22	2	
10	84QAM	1	49	20.54	20.75	20.68	22	2	
10	84QAM	25	0	19.70	19.84	19.95	21	3	
10	84QAM	25	12	19.67	19.83	19.80	21	3	
10	84QAM	25	25	19.53	19.63	19.83	21	3	
10	256QAM	1	0	18.42	18.60	18.51	19	5	
10	256QAM	1	25	18.58	18.36	18.42	19	5	
10	256QAM	1	49	18.38	18.43	18.47	19	5	
10	256QAM	25	0	18.61	18.82	18.63	19	5	
10	256QAM	25	12	18.64	18.61	18.88	19	5	
10	256QAM	25	25	18.37	18.77	18.81	19	5	
10	256QAM	50	0	18.67	18.57	18.72	19	5	
Channel									
Frequency (MHz)				37775	38000	38225			
5	QPSK	1	0	22.73	22.85	22.78	24	0	
5	QPSK	1	12	22.78	22.75	22.73	24	0	
5	QPSK	1	24	22.57	22.80	22.39	24	0	
5	QPSK	12	0	21.85	21.82	21.87	23	1	
5	QPSK	12	7	21.56	21.63	21.84	23	1	
5	QPSK	12	13	21.56	21.61	21.54	23	1	
5	QPSK	25	0	21.84	21.70	21.93	23	1	
5	16QAM	1	0	21.92	22.04	21.97	23	1	
5	16QAM	1	12	21.78	21.56	21.85	23	1	
5	16QAM	1	24	21.83	22.04	21.87	23	1	
5	16QAM	12	0	20.41	20.87	20.87	22	2	
5	16QAM	12	7	20.72	20.88	20.73	22	2	
5	16QAM	12	13	20.83	20.45	20.45	22	2	
5	16QAM	25	0	20.66	20.71	20.72	22	2	
5	84QAM	1	0	20.40	20.44	20.46	21	3	
5	84QAM	1	12	20.81	20.86	20.82	21	3	
5	84QAM	1	24	20.53	20.75	20.65	21	3	
5	84QAM	12	0	19.67	19.91	19.84	21	3	
5	84QAM	12	7	19.86	19.51	19.70	21	3	
5	84QAM	12	13	19.66	19.70	19.83	21	3	
5	84QAM	25	0	19.72	19.67	19.73	21	3	
5	256QAM	1	0	18.45	18.43	18.61	19	5	
5	256QAM	1	12	18.46	18.47	18.80	19	5	
5	256QAM	1	24	18.27	18.41	18.33	19	5	
5	256QAM	12	0	18.49	18.77	18.67	19	5	
5	256QAM	12	7	18.61	18.74	18.53	19	5	
5	256QAM	12	13	18.48	18.74	18.75	19	5	
5	256QAM	25	0	18.63	18.61	18.71	19	5	

Band 38 Ant2 for ENDC									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37850	38000	38150			
20	QPSK	1	0	22.85	22.85	22.85	24	0	
20	QPSK	1	49	22.55	22.82	22.87	24	0	
20	QPSK	1	99	22.49	22.83	22.54	24	0	
20	QPSK	50	0	21.91	22.02	21.90	23	1	
20	QPSK	50	24	21.96	21.97	21.95	23	1	
20	QPSK	50	50	21.97	21.98	21.97	23	1	
20	16QAM	1	0	21.80	21.81	21.80	22	2	
20	16QAM	1	49	21.85	21.88	21.86	22	2	
20	16QAM	1	99	21.95	21.85	21.94	22	2	
20	16QAM	50	0	20.84	20.88	20.84	22	2	
20	16QAM	50	24	20.83	20.84	20.82	22	2	
20	16QAM	50	50	20.92	20.95	20.93	22	2	
20	84QAM	100	0	20.68	20.89	20.88	22	2	
20	84QAM	100	0	20.97	20.98	20.98	22	2	
20	84QAM	1	49	21.16	21.19				



Band 41 Ant 2 for ENDC										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				40140	40450	40670	41140			
Frequency (MHz)				2545	2571	2593	2643			
20	QPSK	1	0	23.44	23.47	23.44	23.43	24	0	
20	QPSK	1	49	23.38	23.39	23.37	23.38	24	0	
20	QPSK	1	99	23.43	23.46	23.43	23.43	24	0	
20	QPSK	50	0	22.49	22.60	22.48	22.48	23	1	
20	QPSK	50	24	22.46	22.49	22.45	22.47	23	1	
20	QPSK	50	50	22.54	22.57	22.55	22.56	23	1	
20	QPSK	100	0	22.45	22.47	22.44	22.45	23	1	
20	16QAM	1	0	22.52	22.54	22.52	22.53	23	1	
20	16QAM	1	49	22.33	22.34	22.32	22.32	23	1	
20	16QAM	1	99	22.59	22.50	22.49	22.48	22	2	
20	16QAM	50	0	21.50	21.53	21.50	21.51	22	2	
20	16QAM	50	24	21.46	21.49	21.46	21.48	22	2	
20	16QAM	50	50	21.56	21.58	21.56	21.56	22	2	
20	16QAM	100	0	21.46	21.48	21.45	21.45	21	3	
20	16QAM	100	1	21.70	21.71	21.68	21.68	21	3	
20	16QAM	1	49	21.82	21.85	21.82	21.82	21	2	
20	16QAM	1	99	21.72	21.73	21.71	21.71	21	2	
20	16QAM	50	0	20.52	20.54	20.53	20.53	21	3	
20	16QAM	50	24	20.44	20.45	20.43	20.43	21	3	
20	16QAM	50	50	20.60	20.63	20.61	20.61	21	3	
20	16QAM	100	0	20.56	20.59	20.57	20.57	19	5	
20	256QAM	1	0	17.83	17.90	17.76	17.83	19	5	
20	256QAM	1	49	17.86	17.88	17.84	17.85	19	5	
20	256QAM	1	99	17.83	17.86	17.80	17.81	19	5	
20	256QAM	50	0	18.37	18.42	18.35	18.35	19	5	
20	256QAM	50	24	18.30	18.37	18.23	18.22	19	5	
20	256QAM	50	50	18.23	18.35	18.18	18.25	19	5	
20	256QAM	100	0	18.33	18.45	18.33	18.38			
Channel				40115	40365	40585	41165	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2542.5	2570.5	2599.5	2647.5			
15	QPSK	1	0	23.42	23.38	23.45	23.42	24	0	
15	QPSK	1	37	23.34	23.35	23.36	23.37	24	0	
15	QPSK	1	74	23.41	23.41	23.42	23.40	24	0	
15	QPSK	36	0	22.47	22.45	22.49	22.47	23	1	
15	QPSK	36	20	22.45	22.44	22.48	22.45	23	1	
15	QPSK	36	39	22.53	22.54	22.55	22.54	23	1	
15	QPSK	75	0	22.43	22.41	22.46	22.43	23	1	
15	16QAM	1	0	22.49	22.50	22.51	22.51	23	1	
15	16QAM	1	37	22.31	22.30	22.32	22.31	23	1	
15	16QAM	1	74	22.47	22.48	22.49	22.46	23	1	
15	16QAM	36	0	21.48	21.48	21.51	21.50	22	2	
15	16QAM	36	20	21.44	21.45	21.48	21.45	22	2	
15	16QAM	36	39	21.53	21.54	21.57	21.54	22	2	
15	16QAM	75	0	21.44	21.44	21.46	21.42	22	2	
15	16QAM	1	0	21.68	21.67	21.69	21.67	22	2	
15	16QAM	1	37	21.59	21.60	21.62	21.60	22	2	
15	16QAM	1	74	21.69	21.68	21.71	21.70	22	2	
15	16QAM	36	0	20.50	20.50	20.51	20.51	21	3	
15	16QAM	36	20	20.42	20.41	20.44	20.42	21	3	
15	16QAM	36	39	20.59	20.58	20.62	20.58	21	3	
15	16QAM	75	0	20.53	20.56	20.57	20.54	21	3	
15	256QAM	1	0	17.80	17.76	17.69	17.73	19	5	
15	256QAM	1	37	17.79	17.80	17.73	17.80	19	5	
15	256QAM	1	74	17.88	17.81	17.70	17.71	19	5	
15	256QAM	36	0	18.26	18.22	18.20	18.21	19	5	
15	256QAM	36	20	18.22	18.25	18.13	18.12	19	5	
15	256QAM	36	39	18.10	18.26	18.06	18.15	19	5	
15	256QAM	75	0	18.22	18.41	18.20	18.23			
Channel				40090	40390	40690	41100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2550	2570	2600	2650			
10	QPSK	1	0	23.42	23.38	23.46	23.41	24	0	
10	QPSK	1	25	23.33	23.36	23.37	23.35	24	0	
10	QPSK	1	49	23.42	23.42	23.42	23.41	24	0	
10	QPSK	25	0	22.47	22.48	22.48	22.48	23	1	
10	QPSK	25	12	22.45	22.43	22.47	22.45	23	1	
10	QPSK	25	25	22.51	22.52	22.56	22.55	23	1	
10	QPSK	50	0	22.42	22.42	22.45	22.42	23	1	
10	16QAM	1	0	22.50	22.50	22.52	22.50	23	1	
10	16QAM	1	25	22.31	22.31	22.32	22.30	23	1	
10	16QAM	1	49	22.46	22.47	22.48	22.47	23	1	
10	16QAM	25	0	21.48	21.48	21.51	21.49	22	2	
10	16QAM	25	12	21.45	21.44	21.47	21.47	22	2	
10	16QAM	25	25	21.56	21.54	21.58	21.54	22	2	
10	16QAM	50	0	21.44	21.44	21.46	21.44	22	2	
10	16QAM	1	0	21.67	21.66	21.69	21.66	22	2	
10	16QAM	1	25	21.60	21.60	21.62	21.61	22	2	
10	16QAM	75	0	21.70	21.69	21.71	21.70	22	2	
10	16QAM	25	0	20.46	20.50	20.52	20.51	21	3	
10	16QAM	25	12	20.42	20.42	20.43	20.43	21	3	
10	16QAM	25	25	20.59	20.59	20.60	20.59	21	3	
10	16QAM	50	0	20.53	20.54	20.58	20.56	21	3	
10	256QAM	1	0	17.75	17.79	17.71	17.74	19	5	
10	256QAM	1	25	17.84	17.93	17.77	17.78	19	5	
10	256QAM	1	49	17.71	17.80	17.73	17.77	19	5	
10	256QAM	25	0	18.31	18.35	18.26	18.24	19	5	
10	256QAM	25	12	18.25	18.31	18.16	18.11	19	5	
10	256QAM	25	25	18.33	18.28	18.11	18.13	19	5	
10	256QAM	50	0	18.24	18.36	18.24	18.30			
Channel				40065	40365	40705	41215	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2337.5	2369.5	2401.5	2452.5			
5	QPSK	1	0	23.43	23.39	23.45	23.41	24	0	
5	QPSK	1	12	23.34	23.35	23.36	23.36	24	0	
5	QPSK	1	24	23.41	23.41	23.42	23.41	24	0	
5	QPSK	12	0	22.46	22.46	22.48	22.45	23	1	
5	QPSK	12	7	22.44	22.43	22.45	22.46	23	1	
5	QPSK	12	13	22.52	22.53	22.54	22.54	23	1	
5	QPSK	25	0	22.43	22.42	22.45	22.44	23	1	
5	16QAM	1	0	22.49	22.50	22.52	22.51	23	1	
5	16QAM	1	12	22.31	22.30	22.32	22.30	23	1	
5	16QAM	1	24	22.45	22.48	22.46	22.45	22	2	
5	16QAM	12	0	21.48	21.48	21.51	21.49	22	2	
5	16QAM	12	7	21.43	21.45	21.47	21.46	22	2	
5	16QAM	12	13	21.54	21.53	21.57	21.53	22	2	
5	16QAM	25	0	21.43	21.43	21.45	21.42	22	2	
5	16QAM	1	0	21.69	21.65	21.62	21.69	22	2	
5	16QAM	1	12	21.60	21.60	21.64	21.60	22	2	
5	16QAM	1	24	21.70	21.70	21.70	21.68	22	2	
5	16QAM	12	0	20.50	20.51	20.52	20.51	21	3	
5	16QAM	12	7	20.42	20.42	20.43	20.42	21	3	
5	16QAM	12	13	20.58	20.59	20.61	20.60	21	3	
5	16QAM	25	0	20.54	20.55	20.58	20.56	21	3	
5	256QAM	1	0	17.88	17.79	17.61	17.65	19	5	
5	256QAM	1	12	17.80	17.86	17.76	17.69	19	5	
5	256QAM	1	24	17.72	17.68	17.62	17.74	19	5	
5	256QAM	12	0	18.28	18.26	18.17	18.28	19	5	
5	256QAM	12	7	18.14	18.22	18.08	18.12	19	5	
5	256QAM	12	13	18.07	18.28	17.98	18.07	19	5	



Reduced Power Mode for WWAN

ANT1		DS12			ANT1			DS12			ANT1			DS12			ANT1			DS12			ANT1			DS12			ANT1			DS12			ANT1			DS12		
GSM850		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	GSM1900			Tune-up Limit (dBm)	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)															
TX Channel		128	189	251		128	189	251		TX Channel		512		661	810	Rx Channel		9262	9400	9538		Rx Channel		1312		1413	1513	Rx Channel		4132	4182	4233								
Frequency (MHz)		824.2	836.4	848.8	824.2	836.4	848.8	Frequency (MHz)		1850.2	1880	1909.8	Frequency (MHz)		1852.4	1880	1907.6	Frequency (MHz)		1712.4	1732.6	1752.6	Frequency (MHz)		4357	4407	4458													
GSM 1 Tx slot		31.86	31.94	31.75	33.50	22.86	22.94	22.75	24.50	28.92	29.40	29.21	30.50	19.92	20.40	20.21	21.50	28.91	29.36	29.20	30.50	19.91	20.36	20.20	21.50	26.43	26.84	26.48	28.00	20.43	20.84	20.48	22.00							
GPRS 1 Tx slots		31.85	31.93	31.73	33.50	22.85	22.93	22.73	24.50	28.91	29.36	29.20	30.50	19.91	20.36	20.20	21.50	26.43	26.84	26.48	28.00	20.43	20.84	20.48	22.00	24.93	25.17	25.12	26.50	20.67	20.91	20.86	22.24							
GPRS 2 Tx slots		30.18	30.51	30.20	32.00	24.18	24.51	24.20	26.00	23.17	23.51	23.66	24.50	20.17	20.51	20.66	21.50	23.17	23.51	23.66	24.50	20.17	20.51	20.66	21.50	24.72	25.03	25.21	26.50	15.72	16.03	16.21	17.50							
GPRS 3 Tx slots		28.80	28.78	28.63	30.00	24.54	24.52	24.37	25.74	23.57	23.57	23.57	24.50	20.17	20.51	20.66	21.50	23.57	23.57	23.57	24.50	20.17	20.51	20.66	21.50	23.34	23.94	24.02	25.00	17.57	17.94	18.02	19.00							
GPRS 4 Tx slots		26.41	26.61	26.57	28.00	23.41	23.61	23.57	25.00	20.67	20.91	20.86	22.24	20.67	20.91	20.86	22.24	20.67	20.91	20.86	22.24	20.67	20.91	20.86	22.24	21.89	22.32	22.36	23.50	17.63	18.06	18.10	19.24							
EDGE 1 Tx slot		24.78	25.07	25.01	26.00	15.78	16.07	16.01	17.00	17.63	18.06	18.10	19.24	17.63	18.06	18.10	19.24	17.63	18.06	18.10	19.24	17.63	18.06	18.10	19.24	20.01	20.45	20.43	21.50	17.01	17.45	17.43	18.50							
EDGE 2 Tx slots		23.34	23.73	23.61	24.50	17.34	17.73	17.61	18.50	17.01	17.45	17.43	18.50	17.01	17.45	17.43	18.50	17.01	17.45	17.43	18.50	17.01	17.45	17.43	18.50	19.54	19.72	19.74	21.00	16.54	16.72	16.74	18.00							
EDGE 3 Tx slots		21.40	21.63	21.60	22.50	17.14	17.37	17.54	18.24	16.54	16.72	16.74	18.00	16.54	16.72	16.74	18.00	16.54	16.72	16.74	18.00	16.54	16.72	16.74	18.00	20.01	20.45	20.43	21.50	17.01	17.45	17.43	18.50							
EDGE 4 Tx slots		19.54	19.72	19.74	21.00	16.54	16.72	16.74	18.00	16.54	16.72	16.74	18.00	16.54	16.72	16.74	18.00	16.54	16.72	16.74	18.00	16.54	16.72	16.74	18.00	20.01	20.45	20.43	21.50	17.01	17.45	17.43	18.50							



Band 2 Ant 1 DS12										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Power (W)	Turn-up (dBm)	MPR (dB)	
				Ch1 Freq	Ch2 Freq	Ch3 Freq	Ch4 Freq			
				1887.5	1890	1915	1915			
				1887.5	1890	1915	1915			
20	QPSK	1	0	22.50	22.88	22.81				
20	QPSK	1	49	22.43	22.87	22.70				
20	QPSK	1	48	22.44	22.87	22.70				24
20	QPSK	50	0	21.44	21.85	21.83				
20	QPSK	50	24	21.52	21.85	21.71				
20	QPSK	50	24	21.54	21.85	21.74				23
20	QPSK	100	0	21.56	21.89	21.83				
20	16QAM	1	0	22.09	22.11	21.83				
20	16QAM	1	49	21.86	22.11	22.01				23
20	16QAM	1	59	21.99	22.19	22.10				
20	16QAM	50	0	20.43	20.59	20.89				
20	16QAM	50	24	20.53	20.69	20.89				
20	16QAM	50	50	20.41	20.58	20.83				22
20	16QAM	100	0	20.59	20.65	20.72				
20	16QAM	100	49	20.53	20.65	20.80				22
20	16QAM	100	49	20.48	20.53	20.80				22
20	16QAM	100	59	20.42	20.78	20.35				
20	16QAM	50	24	19.50	19.58	19.80				
20	16QAM	50	24	19.50	19.58	19.80				
20	16QAM	50	50	19.39	19.59	19.72				21
20	16QAM	100	0	18.49	18.86	18.62				
20	16QAM	100	49	18.11	18.92	18.97				
20	16QAM	100	49	17.92	18.21	18.21				19
20	16QAM	100	59	17.96	18.35	18.20				
20	16QAM	50	24	18.29	18.29	18.08				
20	16QAM	50	24	18.30	18.19	17.93				19
20	16QAM	50	50	18.14	18.21	18.06				
20	16QAM	100	0	18.34	18.29	17.88				
				Channel	1887.5	1890	1915	Turn-up (dBm)	MPR (dB)	
				1887.5	1890	1915	1915			
15	QPSK	1	0	22.00	22.10	22.10				
15	QPSK	1	37	22.36	22.52	22.75				24
15	QPSK	1	74	22.36	22.52	22.71				
15	QPSK	36	0	21.49	21.63	21.48				
15	QPSK	36	21	21.55	21.77	21.83				23
15	QPSK	36	39	21.48	21.76	21.81				
15	QPSK	75	0	21.58	21.74	21.81				
15	16QAM	1	0	21.82	21.75	21.86				
15	16QAM	1	37	21.72	21.85	21.90				23
15	16QAM	1	74	21.51	21.93	21.87				
15	16QAM	50	0	20.57	20.87	20.87				
15	16QAM	50	20	20.56	20.72	20.80				22
15	16QAM	50	39	20.49	20.59	20.68				
15	16QAM	100	0	20.65	20.65	20.65				
15	16QAM	100	37	20.41	20.55	20.52				22
15	16QAM	100	74	20.46	20.46	20.47				
15	16QAM	36	0	19.57	19.64	19.65				
15	16QAM	36	20	19.58	19.66	19.77				21
15	16QAM	36	39	19.52	19.76	19.85				
15	16QAM	75	0	19.56	19.71	19.70				
15	16QAM	100	0	18.05	18.35	17.98				
15	16QAM	100	37	18.06	18.29	18.27				19
15	16QAM	100	74	17.90	18.35	17.92				
15	16QAM	36	0	18.28	18.29	17.96				
15	16QAM	36	20	18.30	18.29	18.08				
15	16QAM	36	39	18.04	18.33	18.08				19
15	16QAM	75	0	18.28	18.17	17.90				
				Channel	1887.5	1890	1915	Turn-up (dBm)	MPR (dB)	
				1887.5	1890	1915	1915			
10	QPSK	1	0	22.72	22.62	22.84				
10	QPSK	1	25	22.58	22.84	22.80				24
10	QPSK	1	49	22.45	22.83	22.80				
10	QPSK	25	0	21.68	21.70	21.83				
10	QPSK	25	12	21.72	21.82	21.94				23
10	QPSK	25	12	21.60	21.84	21.87				
10	QPSK	50	0	21.66	21.88	21.87				
10	16QAM	1	0	21.83	21.96	22.07				
10	16QAM	1	49	21.70	22.08	22.08				23
10	16QAM	1	49	21.71	21.90	22.03				
10	16QAM	25	0	20.59	20.61	20.57				
10	16QAM	25	12	20.61	20.77	20.87				22
10	16QAM	25	12	20.69	20.68	21.00				
10	16QAM	50	0	20.59	20.84	20.94				
10	16QAM	50	24	20.53	20.54	20.76				22
10	16QAM	50	24	20.43	20.58	20.82				
10	16QAM	100	0	20.42	20.69	20.72				
10	16QAM	100	49	20.42	20.69	20.72				22
10	16QAM	25	0	19.70	19.82	19.84				
10	16QAM	25	12	19.62	19.76	19.85				21
10	16QAM	25	12	19.48	19.66	19.80				
10	16QAM	36	0	18.80	18.74	18.94				
10	16QAM	36	20	18.86	18.74	18.94				19
10	16QAM	36	39	18.06	18.34	18.21				
10	16QAM	75	0	17.87	18.34	18.21				
10	16QAM	100	0	17.88	18.30	17.94				
10	16QAM	100	49	17.87	18.38	18.25				19
10	16QAM	100	74	17.87	18.38	18.25				
10	16QAM	25	12	18.28	18.21	17.83				19
10	16QAM	25	12	18.09	18.12	17.99				
10	16QAM	25	12	18.21	18.28	18.13				
				Channel	1887.5	1890	1915	Turn-up (dBm)	MPR (dB)	
				1887.5	1890	1915	1915			
5	QPSK	1	0	22.50	22.78	22.62				
5	QPSK	1	12	22.48	22.88	22.88				24
5	QPSK	1	24	22.45	22.48	22.68				
5	QPSK	12	0	21.71	21.75	22.03				
5	QPSK	12	7	21.66	21.88	21.87				23
5	QPSK	12	13	21.55	21.88	21.87				
5	QPSK	25	0	21.66	21.87	21.88				
5	16QAM	1	0	21.84	21.71	22.02				
5	16QAM	1	12	21.85	21.88	22.19				23
5	16QAM	1	24	21.78	21.75	22.18				
5	16QAM	12	0	20.74	20.83	20.88				
5	16QAM	12	7	20.71	20.88	20.96				22
5	16QAM	12	13	20.58	20.83	20.68				
5	16QAM	25	0	20.64	20.64	20.64				
5	16QAM	1	0	20.55	20.71	20.87				
5	16QAM	1	12	20.58	20.75	20.83				22
5	16QAM	1	24	20.41	20.79	20.85				
5	16QAM	12	0	19.80	19.85	19.89				
5	16QAM	12	7	19.86	19.79	19.99				21
5	16QAM	12	13	19.62	19.76	19.84				
5	16QAM	25	0	19.05	19.05	19.30				
5	16QAM	100	0	18.01	18.25	18.15				19
5	16QAM	100	49	17.97	18.38	18.25				
5	16QAM	100	74	17.97	18.38	18.25				
5	16QAM	25	12	18.28	18.18	17.84				19
5	16QAM	25	12	18.23	18.21	18.11				
5	16QAM	25	12	18.44	18.28	17.88				
				Channel	1887.5	1890	1915	Turn-up (dBm)	MPR (dB)	
				1887.5	1890	1915	1915			
3	QPSK	1	0	22.59	22.75	22.79				
3	QPSK	1	8	22.41	22.72	22.64				24
3	QPSK	1	14	22.38	22.45	22.76				
3	QPSK	8	0	21.66	21.85	21.87				
3	QPSK	8	4	21.70	21.89	21.87				23
3	QPSK	8	7	21.66	21.78	21.86				
3	QPSK	15	0	21.64	21.85	21.86				
3	16QAM	1	0	22.02	22.10	22.20				
3	16QAM	1	8	21.79	22.11	22.11				23
3	16QAM	1	14	21.88	21.90	22.20				
3	16QAM	8	0	20.77	20.65	21.13				
3	16QAM	8	4	20.76	20.69	21.09				22
3	16QAM	8	7	20.67	20.90	20.78				
3	16QAM	15	0	20.69	20.71	20.84				
3	16QAM	1	0	20.61	20.89	20.84				
3	16QAM	1	8	20.64	20.72	20.77				22
3	16QAM	1	14	20.56	20.67	20.71				
3	16QAM	8	0	19.71	19.71	19.86				
3	16QAM	8	4	19.64	19.77	19.85				21
3	16QAM	8	7	19.61	19.75	19.85				
3	16QAM	15	0	18.54	18.78	19.00				
3	16QAM	15	8	18.25	18.25	18.24				19
3	16QAM	1	0	17.88	18.15	18.31				
3	16QAM	1	14	17.85	18.28	18.03				
3	16QAM	8	0	18.31	18.31	18.31				19
3	16QAM	8	4	18.40	18.14	18.21				
3	16QAM	8	7	18.20	18.20	18.08				19
3	16QAM	15	0	18.31	18.18	18.18				
				Channel	1887.5	1890				



Band 7 Ant 2 DS12 for ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power (Ch. / Freq)	Power (Ch. / Freq)	Power (Ch. / Freq)	Turn-up (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	16.55	16.67	16.87			
20	QPSK	1	49	16.48	16.51	16.45	17.8	0	
20	QPSK	25	0	16.53	16.59	16.55			
20	QPSK	50	0	16.53	16.59	16.55			
20	QPSK	50	24	16.47	16.51	16.48	17.8	0	
20	QPSK	100	0	16.47	16.52	16.49			
20	16QAM	1	0	16.41	16.47	16.42	17.8	0	
20	16QAM	1	49	16.38	16.41	16.38			
20	16QAM	1	59	16.48	16.51	16.47			
20	16QAM	50	0	16.43	16.48	16.45	17.8	0	
20	16QAM	50	24	16.47	16.52	16.50			
20	16QAM	50	50	16.28	16.32	16.29	17.8	0	
20	16QAM	100	0	16.43	16.47	16.44			
20	84QAM	1	49	16.24	16.29	16.24	17.8	0	
20	84QAM	1	59	16.42	16.48	16.41			
20	84QAM	50	0	16.40	16.44	16.38	17.8	0	
20	84QAM	50	24	16.44	16.51	16.48			
20	84QAM	50	50	16.56	16.60	16.55	17.8	0	
20	256QAM	1	0	16.46	16.51	16.45			
20	256QAM	1	49	16.50	16.53	16.50	17.8	0	
20	256QAM	1	49	16.41	16.47	16.40			
20	256QAM	1	99	16.44	16.48	16.44			
20	256QAM	1	99	16.50	16.51	16.49	17.8	0	
20	256QAM	50	24	16.43	16.48	16.39			
20	256QAM	50	50	16.40	16.47	16.37	17.8	0	
20	256QAM	100	0	16.43	16.47	16.46			
Channel									
Frequency (MHz)									
16	QPSK	1	0	20.07	20.33	20.67.5	Turn-up (dBm)	MPR (dB)	
16	QPSK	1	37	16.44	16.45	16.41	17.8	0	
16	QPSK	1	74	16.44	16.50	16.43			
16	QPSK	36	0	16.49	16.50	16.49	17.8	0	
16	QPSK	36	20	16.42	16.49	16.41			
16	QPSK	36	39	16.40	16.45	16.39	17.8	0	
16	QPSK	75	0	16.42	16.46	16.45			
16	16QAM	1	37	16.37	16.38	16.33	17.8	0	
16	16QAM	1	74	16.49	16.49	16.42			
16	16QAM	36	0	16.37	16.41	16.39	17.8	0	
16	16QAM	36	20	16.42	16.47	16.46	17.8	0	
16	16QAM	36	39	16.21	16.28	16.25			
16	16QAM	75	0	16.37	16.41	16.38			
16	84QAM	1	0	16.13	16.21	16.15			
16	84QAM	1	37	16.18	16.26	16.18	17.8	0	
16	84QAM	1	74	16.33	16.41	16.36			
16	84QAM	36	0	16.33	16.39	16.33	17.8	0	
16	84QAM	36	20	16.40	16.45	16.40	17.8	0	
16	84QAM	36	39	16.42	16.48	16.39			
16	84QAM	75	0	16.42	16.45	16.42			
16	256QAM	1	0	16.49	16.50	16.52	17.8	0	
16	256QAM	1	49	16.42	16.47	16.40			
16	256QAM	1	74	16.42	16.52	16.42			
16	256QAM	36	0	16.47	16.53	16.51	17.8	0	
16	256QAM	36	20	16.42	16.49	16.39			
16	256QAM	36	39	16.38	16.47	16.39	17.8	0	
16	256QAM	75	0	16.40	16.48	16.43			
Channel									
Frequency (MHz)									
16	QPSK	1	0	16.49	16.51	16.51	Turn-up (dBm)	MPR (dB)	
16	QPSK	1	25	16.42	16.47	16.41	17.8	0	
16	QPSK	1	49	16.38	16.43	16.36			
16	QPSK	25	0	16.48	16.58	16.48	17.8	0	
16	QPSK	25	12	16.43	16.47	16.40			
16	QPSK	25	12	16.40	16.49	16.41	17.8	0	
16	QPSK	50	0	16.44	16.48	16.42			
16	16QAM	1	0	16.35	16.40	16.37	17.8	0	
16	16QAM	25	0	16.38	16.42	16.40			
16	16QAM	25	12	16.40	16.48	16.45	17.8	0	
16	16QAM	25	25	16.23	16.28	16.25			
16	16QAM	50	0	16.38	16.40	16.37	17.8	0	
16	84QAM	1	24	16.16	16.21	16.13	17.8	0	
16	84QAM	1	25	16.20	16.23	16.19			
16	84QAM	1	49	16.38	16.40	16.38			
16	84QAM	25	0	16.34	16.36	16.33	17.8	0	
16	84QAM	25	12	16.39	16.46	16.42			
16	84QAM	25	25	16.50	16.55	16.49	17.8	0	
16	84QAM	50	0	16.41	16.49	16.42			
16	84QAM	50	12	16.36	16.41	16.38	17.8	0	
16	84QAM	50	25	16.42	16.48	16.38			
16	256QAM	1	0	16.45	16.51	16.43	17.8	0	
16	256QAM	25	0	16.50	16.53	16.50			
16	256QAM	25	12	16.41	16.44	16.42	17.8	0	
16	256QAM	25	25	16.38	16.46	16.39			
16	256QAM	50	0	16.43	16.47	16.44	17.8	0	
Channel									
Frequency (MHz)									
5	QPSK	1	0	16.51	16.60	16.51	Turn-up (dBm)	MPR (dB)	
5	QPSK	1	12	16.43	16.45	16.41	17.8	0	
5	QPSK	1	24	16.46	16.52	16.43			
5	QPSK	12	0	16.48	16.58	16.51	17.8	0	
5	QPSK	12	7	16.40	16.49	16.41			
5	QPSK	12	13	16.38	16.47	16.37	17.8	0	
5	QPSK	25	0	16.43	16.47	16.44			
5	16QAM	1	0	16.36	16.41	16.38	17.8	0	
5	16QAM	1	12	16.34	16.38	16.34			
5	16QAM	1	24	16.41	16.47	16.42	17.8	0	
5	16QAM	12	0	16.36	16.42	16.36	17.8	0	
5	16QAM	12	7	16.40	16.47	16.47			
5	16QAM	12	13	16.22	16.26	16.23	17.8	0	
5	84QAM	1	0	16.10	16.12	16.10			
5	84QAM	1	12	16.19	16.23	16.20	17.8	0	
5	84QAM	1	24	16.35	16.39	16.38			
5	84QAM	12	0	16.34	16.40	16.33	17.8	0	
5	84QAM	12	7	16.38	16.48	16.40			
5	84QAM	12	13	16.53	16.55	16.51	17.8	0	
5	256QAM	1	0	16.49	16.63	16.52	17.8	0	
5	256QAM	1	12	16.42	16.47	16.36			
5	256QAM	12	0	16.41	16.47	16.43	17.8	0	
5	256QAM	12	7	16.47	16.48	16.43			
5	256QAM	12	13	16.38	16.48	16.40	17.8	0	
5	256QAM	25	0	16.43	16.47	16.42			

Band 7 Ant 2 DS12 Simultaneous for ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power (Ch. / Freq)	Power (Ch. / Freq)	Power (Ch. / Freq)	Turn-up (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	16.33	16.49	16.42			
20	QPSK	1	49	16.29	16.33	16.26	16.8	0	
20	QPSK	50	0	16.45	16.48	16.43			
20	QPSK	50	24	16.34	16.38	16.31	16.8	0	
20	QPSK	100	0	16.41	16.44	16.39			
20	16QAM	1	0	16.34	16.39	16.32	16.8	0	
20	16QAM	1	49	16.35	16.40	16.31			
20	16QAM	1	99	16.43	16.47	16.43			
20	16QAM	50	0	16.31	16.38	16.33	16.8	0	
20	16QAM	50	24	16.36	16.43	16.40			
20	16QAM	50	50	16.39	16.43	16.36	16.8	0	
20	16QAM	100	0	16.36	16.42	16.38			
20	84QAM	1	49	16.24	16.28	16.25	16.8	0	
20	84QAM	1	99	16.29	16.35	16.31			
20	84QAM	50	0	16.34	16.40	16.35	16.8	0	
20	84QAM	50	24	16.35	16.41	16.35			
20	84QAM	50	50	16.37	16.42	16.39	16.8	0	
20	84QAM	100	0	16.41	16.46	16.41			
20	256QAM	1	49	16.24	16.28	16.22	16.8	0	
20	256QAM	1	99	16.39	16.42	16.39			
20	256QAM	1	99	16.50	16.51	16.49	16.8	0	
20	256QAM	50	24	16.30	16.31	16.27			
20	256QAM	50	50	16.37	16.43	16.37	16.8	0	
20	256QAM	100	0	16.34	16.40	16.34			
Channel									
Frequency (MHz)									
15	QPSK	1							



Band 12 Ant 2 DSI2 for END C										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq	Power Mid Ch./F.Freq	Power High Ch./F.Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.79	22.97	22.88				
10	QPSK	1	25	22.90	22.86	22.82	24	0		
10	QPSK	1	49	22.92	22.82	22.80				
10	QPSK	25	0	22.81	22.81	22.72				
10	QPSK	25	12	22.79	22.70	22.69	24	0		
10	QPSK	25	25	22.82	22.75	22.75				
10	QPSK	50	0	22.81	22.74	22.79				
10	16QAM	1	0	21.99	21.47	21.51				
10	16QAM	1	25	21.98	21.47	21.52	23	1		
10	16QAM	1	49	21.20	21.14	21.11				
10	16QAM	25	0	21.97	21.94	21.85				
10	16QAM	25	12	21.98	21.92	21.80	23	1		
10	16QAM	25	25	21.99	22.01	22.00				
10	16QAM	50	0	21.91	21.89	21.87				
10	16QAM	1	25	21.43	21.39	21.29	22	2		
10	16QAM	1	49	21.24	21.33	21.26				
10	16QAM	25	0	19.97	19.98	19.97				
10	16QAM	25	12	19.98	19.89	19.93	21	3		
10	16QAM	25	25	19.97	19.93	19.87				
10	16QAM	50	0	19.96	20.02	20.05				
10	16QAM	1	25	18.17	18.27	18.23	19	5		
10	16QAM	1	49	18.22	18.30	18.25				
10	16QAM	1	25	18.31	18.20	18.26				
10	16QAM	25	0	18.32	18.25	18.25				
10	16QAM	25	12	18.20	18.26	18.25	19	5		
10	16QAM	25	25	18.18	18.27	18.24				
10	16QAM	50	0	18.20	18.23	18.21				
Channel				23035	23095	23165	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				701.5	707.5	713.5				
5	QPSK	1	0	22.07	22.68	22.68				
5	QPSK	1	12	22.81	22.79	22.74	24	0		
5	QPSK	1	24	22.45	22.47	22.46				
5	QPSK	12	0	22.08	22.77	22.83				
5	QPSK	12	7	22.44	22.60	22.68	24	0		
5	QPSK	12	13	22.74	22.60	22.64				
5	QPSK	25	0	22.80	22.60	22.74				
5	16QAM	1	0	21.48	21.36	21.37				
5	16QAM	1	12	21.43	21.36	21.47	23	1		
5	16QAM	1	24	21.17	21.06	21.03				
5	16QAM	12	0	21.98	21.80	21.82				
5	16QAM	12	7	21.95	21.81	21.80	23	1		
5	16QAM	12	13	21.88	21.96	21.97				
5	16QAM	25	0	21.78	21.80	21.80				
5	16QAM	1	0	21.02	21.20	21.28				
5	16QAM	1	12	21.40	21.26	21.24	22	2		
5	16QAM	1	24	20.98	20.96	20.96				
5	16QAM	12	0	19.76	19.88	19.86				
5	16QAM	12	7	19.86	19.80	19.79	21	3		
5	16QAM	12	13	19.87	19.80	19.80				
5	16QAM	25	0	19.95	19.90	19.97				
5	16QAM	1	0	18.09	18.32	18.14				
5	16QAM	1	12	18.18	18.35	18.25	19	5		
5	16QAM	1	24	18.37	18.39	18.38				
5	16QAM	12	0	18.38	18.40	18.18				
5	16QAM	12	7	18.36	18.25	18.25				
5	16QAM	12	13	18.12	18.15	18.22	19	5		
5	16QAM	25	0	18.17	18.19	18.09				
Channel				23075	23095	23173	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				699.7	707.5	715.3				
1.4	QPSK	1	0	22.46	22.46	22.74				
1.4	QPSK	1	8	22.48	22.70	22.62	24	0		
1.4	QPSK	1	16	22.55	22.44	22.42				
1.4	QPSK	8	0	22.58	22.75	22.58				
1.4	QPSK	8	4	22.85	22.47	22.67	24	0		
1.4	QPSK	8	12	22.67	22.68	22.60				
1.4	QPSK	16	0	22.77	22.54	22.64				
1.4	16QAM	1	0	21.45	21.21	21.22				
1.4	16QAM	1	8	21.65	21.54	21.55	23	1		
1.4	16QAM	1	16	21.00	21.19	21.10				
1.4	16QAM	8	0	21.88	21.75	21.82				
1.4	16QAM	8	4	21.89	21.83	21.69	23	1		
1.4	16QAM	8	12	21.84	21.83	21.79				
1.4	16QAM	16	0	21.69	21.73	21.61				
1.4	16QAM	1	0	20.97	21.72	21.16				
1.4	16QAM	1	8	21.38	21.26	21.13	22	2		
1.4	16QAM	1	16	21.15	21.18	21.22				
1.4	16QAM	8	0	19.70	19.81	19.76				
1.4	16QAM	8	4	19.75	19.74	19.79	21	3		
1.4	16QAM	8	12	19.82	19.70	19.84				
1.4	16QAM	16	0	19.83	19.86	19.87				
1.4	16QAM	1	0	18.21	18.25	18.18				
1.4	16QAM	1	8	18.08	18.41	18.11	19	5		
1.4	16QAM	1	16	18.24	18.23	18.13				
1.4	16QAM	8	0	18.45	18.19	18.25				
1.4	16QAM	8	4	18.28	18.16	18.25	19	5		
1.4	16QAM	8	12	18.10	18.30	18.17				
1.4	16QAM	16	0	18.35	18.35	18.36				
Channel				23077	23095	23173	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				699.7	707.5	715.3				
1.4	QPSK	1	0	22.46	22.46	22.74				
1.4	QPSK	1	8	22.48	22.70	22.62	24	0		
1.4	QPSK	1	16	22.55	22.32	22.41				
1.4	QPSK	8	0	22.57	22.45	22.50				
1.4	QPSK	8	4	22.44	22.43	22.58	24	0		
1.4	QPSK	8	12	22.53	22.38	22.56				
1.4	16QAM	1	0	22.70	22.53	22.50	24	0		
1.4	16QAM	1	8	21.91	21.14	21.10				
1.4	16QAM	1	16	21.27	21.15	21.29				
1.4	16QAM	1	8	21.07	21.17	21.08	23	1		
1.4	16QAM	8	0	21.82	21.72	21.68				
1.4	16QAM	8	4	21.89	21.78	21.85				
1.4	16QAM	8	12	21.79	21.70	21.75	23	1		
1.4	16QAM	16	0	21.63	21.69	21.55				
1.4	16QAM	1	0	21.28	21.11	21.11				
1.4	16QAM	1	8	21.20	21.07	21.10				
1.4	16QAM	1	16	21.04	21.15	21.04	22	2		
1.4	16QAM	8	0	21.16	21.16	21.08				
1.4	16QAM	8	4	21.20	21.20	20.98				
1.4	16QAM	16	0	21.08	21.19	21.03				
1.4	16QAM	1	0	19.81	19.80	19.81	21	3		
1.4	16QAM	1	8	18.27	18.38	18.33				
1.4	16QAM	1	16	18.16	18.39	18.36				
1.4	16QAM	8	0	18.23	18.26	18.11	19	5		
1.4	16QAM	8	4	18.21	18.32	18.37				
1.4	16QAM	8	12	18.07	18.17	18.23	19	5		
1.4	16QAM	16	0	18.22	18.35	18.10				
1.4	16QAM	1	0	18.13	18.47	18.09	19	5		

Band 13 Ant 1 DSI2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq	Power Mid Ch./F.Freq	Power High Ch./F.Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.77	22.77	22.77				
10	QPSK	1	25	22.68	22.68	22.68	24	0		
10	QPSK	1	49	22.68	22.68	22.68				
10	QPSK	25	0	21.73	21.73	21.73				
10	QPSK	25	12	21.72	21.72	21.72	23	1		
10	QPSK	25	25	21.62	21.62	21.62				
10	QPSK	50	0	21.74	21.74	21.74				
10	16QAM	1	0	22.07	22.07	22.07				
10	16QAM	1	25	22.07	22.07	22.07	23	1		
10	16QAM	1	49	22.01	22.01	22.01				
10	16QAM	25	0	20.						

**Band 26 Ant 1 DS12**

RW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Take-up (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.73	22.88	22.89	24	0		
15	QPSK	1	37	22.83	22.72	22.80				
15	QPSK	1	74	22.73	22.82	22.86				
15	QPSK	36	0	21.89	21.98	21.72				
15	QPSK	36	36	21.89	21.82	21.77	23	1		
15	QPSK	36	72	21.83	21.78	21.78				
15	QPSK	75	0	21.68	21.78	21.83				
15	16QAM	1	0	22.28	21.92	21.91				
15	16QAM	1	37	21.92	21.85	21.87	23	1		
15	16QAM	1	74	22.08	21.85	21.89				
15	16QAM	36	0	20.92	20.80	20.88				
15	16QAM	36	36	21.02	20.90	20.96				
15	16QAM	36	72	20.95	20.90	20.76	22	2		
15	16QAM	36	108	21.05	20.91	20.94				
15	16QAM	75	0	20.83	20.70	20.55				
15	16QAM	75	36	20.88	20.91	20.80				
15	16QAM	1	0	21.02	20.83	20.74	22	2		
15	16QAM	1	37	20.88	20.91	20.80				
15	16QAM	1	74	21.02	20.83	20.74				
15	16QAM	1	110	20.95	20.90	20.76				
15	16QAM	36	0	19.77	19.60	19.63	21	3		
15	16QAM	36	36	19.85	19.74	19.63				
15	16QAM	75	0	18.77	18.60	18.70				
15	25QAM	1	0	19.26	18.35	18.30				
15	25QAM	1	37	18.19	18.07	18.07	19	5		
15	25QAM	1	74	18.25	18.00	18.23				
15	25QAM	36	0	18.11	18.00	18.13				
15	25QAM	36	36	18.06	17.90	18.25				
15	25QAM	36	72	18.14	17.90	18.19	19	5		
15	25QAM	75	0	17.95	17.80	17.79				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.52	22.47	22.47	24	0		
10	QPSK	1	25	22.62	22.58	22.53				
10	QPSK	1	49	22.60	22.54	22.51				
10	QPSK	25	0	21.89	21.80	21.84				
10	QPSK	25	12	21.79	21.89	21.83	23	1		
10	QPSK	25	25	21.76	21.89	21.83				
10	QPSK	25	37	21.75	21.87	21.86				
10	QPSK	50	0	21.71	21.71	21.52				
10	16QAM	1	0	22.04	21.95	21.88	23	1		
10	16QAM	1	25	21.95	21.90	21.79				
10	16QAM	1	49	21.83	21.80	21.78				
10	16QAM	25	0	20.83	20.7	20.67				
10	16QAM	25	12	20.76	20.72	20.66	22	2		
10	16QAM	25	25	20.77	20.65	20.62				
10	16QAM	50	0	20.84	20.60	20.64				
10	16QAM	50	25	20.87	20.60	20.64				
10	16QAM	1	0	21.08	20.50	20.87	22	2		
10	16QAM	1	25	20.85	20.65	20.83				
10	16QAM	1	49	20.87	20.45	20.78				
10	16QAM	25	0	19.83	19.78	19.86				
10	16QAM	25	12	19.83	19.71	19.71	21	3		
10	16QAM	25	25	19.75	19.73	19.63				
10	16QAM	50	0	18.92	18.57	18.99				
10	25QAM	1	0	18.24	18.07	18.12				
10	25QAM	1	25	18.07	17.90	18.14	19	5		
10	25QAM	1	49	18.35	17.90	18.20				
10	25QAM	25	0	18.06	17.83	18.23				
10	25QAM	25	12	17.93	17.80	18.07				
10	25QAM	25	25	18.14	17.95	18.08	19	5		
10	25QAM	50	0	17.99	17.91	17.78				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.49	22.48	22.47	24	0		
5	QPSK	1	12	22.35	22.48	22.41				
5	QPSK	1	24	22.36	22.38	22.39				
5	QPSK	12	0	21.65	21.57	21.54				
5	QPSK	12	7	21.59	21.47	21.48	23	1		
5	QPSK	12	14	21.65	21.55	21.58				
5	QPSK	25	0	21.64	21.50	21.49				
5	16QAM	1	0	21.75	21.79	21.86				
5	16QAM	1	12	21.81	21.80	21.75	23	1		
5	16QAM	1	24	21.70	21.81	21.85				
5	16QAM	12	0	20.65	20.58	20.54				
5	16QAM	12	7	20.57	20.50	20.58				
5	16QAM	12	14	20.62	20.49	20.56	22	2		
5	16QAM	25	0	20.66	20.53	20.56				
5	16QAM	25	12	20.65	20.50	20.58				
5	16QAM	50	0	20.76	20.67	20.61				
5	16QAM	1	0	20.76	20.67	20.61	22	2		
5	16QAM	1	24	20.56	20.44	20.48				
5	16QAM	12	0	19.67	19.63	19.66				
5	16QAM	12	7	19.68	19.49	19.49				
5	16QAM	12	14	19.62	19.60	19.56	21	3		
5	16QAM	25	0	19.66	19.50	19.54				
5	25QAM	1	0	18.20	18.10	18.16				
5	25QAM	1	12	18.38	18.20	18.00				
5	25QAM	1	24	18.27	17.97	18.29	19	5		
5	25QAM	12	0	18.22	18.00	18.04				
5	25QAM	12	7	18.08	17.87	18.22				
5	25QAM	12	14	18.08	17.92	18.18				
5	25QAM	25	0	17.88	17.83	17.78	19	5		
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.50	22.42	22.48			24	0
3	QPSK	1	14	22.36	22.51	22.41				
3	QPSK	1	28	22.40	22.43	22.26				
3	QPSK	8	0	21.88	21.81	21.88				
3	QPSK	8	7	21.85	21.84	21.44	23	1		
3	QPSK	8	14	21.84	21.80	21.60				
3	QPSK	15	0	21.85	21.63	21.51				
3	16QAM	1	0	21.81	21.80	21.80				
3	16QAM	1	8	21.85	21.84	21.76	23	1		
3	16QAM	1	14	21.73	21.77	21.62				
3	16QAM	8	0	20.71	20.68	20.63				
3	16QAM	8	4	20.53	20.62	20.32				
3	16QAM	8	7	20.68	20.45	20.61	22	2		
3	16QAM	15	0	20.70	20.67	20.61				
3	16QAM	1	0	20.65	20.78	20.55				
3	16QAM	1	8	20.77	20.69	20.68				
3	16QAM	1	14	20.60	20.43	20.46	22	2		
3	16QAM	8	0	19.72	19.60	19.64				
3	16QAM	8	4	19.86	19.58	19.49				
3	16QAM	8	7	19.85	19.35	19.54				
3	16QAM	15	0	19.73	19.54	19.64	21	3		
3	25QAM	1	0	18.15	18.15	18.09				
3	25QAM	1	8	18.34	18.16	18.04				
3	25QAM	1	14	18.18	18.08	18.31				
3	25QAM	8	0	18.15	18.14	18.06	19	5		
3	25QAM	8	4	17.99	17.91	18.13				
3	25QAM	8	7	18.12	17.90	18.11				
3	25QAM	15	0	17.88	17.81	17.73				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.53	22.40	22.31	24	0		
1.4	QPSK	1	3	22.37	22.63	22.43				
1.4	QPSK	1	6	22.43	22.45	22.35				
1.4	QPSK	3	0	22.00	22.40	22.30				
1.4	QPSK	3	1	22.84	22.60	22.47	23	1		
1.4	QPSK	3	4	22.81	22.57	22.38				
1.4	QPSK	6	0	21.68	21.58	21.40				
1.4	16QAM	1	0	21.80	21.66	21.80				
1.4	16QAM	1	3	21.87	21.69	21.80	23	1		
1.4	16QAM	1	6	21.85	21.63	21.61				
1.4	16QAM	3	0	21.65	21.62	21.46				
1.4	16QAM	3	3	21.51	21.71	21.34				
1.4	16QAM	6	0	20.65	20.66	20.49	22	2		
1.4	16QAM	6	3	20.68	20.60	20.61				
1.4	16QAM	3	3	20.87	20.79	20.75				
1.4	16QAM	1	0	20.81	20.78	20.63				
1.4	16QAM	3	0	20.76	20.50	20.67	22	2		
1.4	16QAM	3	3	20.89	20.70	20.60				
1.4	16QAM	6	0	20.79	20.69	20.55				
1.4	16QAM	6	3	20.79	20.60	20.55				
1.4	16QAM	3	0	19.72	19.60	19.54	21	3		
1.4	16QAM	3	3	19.72	19.60	19.54				
1.4	25QAM	1	0	18.12	18.20	18.06				
1.4	25QAM	1	5	18.16	18.16	18.09				
1.4	25QAM	3	0	18.23	18.13	18.07	19	5		
1.4	25QAM	3	1	18.14	18.00	18.22				
1.4	25QAM	3	3	18.16	18.11	18.13				
1.4	25QAM	6	0	18.06	17.90	17.85				

Band 66 Ant 1 DS12

RW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Take-up (dB)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	22.83	22.69	22.48	24	0
20	QPSK	1	49	22.50	22.83	22.54		
20	QPSK	1	98	22.48	22.61	22.38		
20	QPSK	60	0	21.71	21.78	21.58		
20	QPSK	60	24	21.74	21.58	21.44	23	1
20	QPSK	60	48	21.7				



Band 66 Ant 2 DS12 for ENDC

RF BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Frac.	Power Mid Ch./Frac.	Power High Ch./Frac.	Turn-up (dB)	MPR (dB)
Channel								
Frequency (MHz)				130072	130222	130372		
20	QPSK	1	0	15.89	15.77	15.73		
20	QPSK	1	49	15.56	15.59	15.55	17.1	0
20	QPSK	1	99	15.62	15.65	15.61		
20	QPSK	50	0	15.89	15.71	15.70		
20	QPSK	50	24	15.58	15.62	15.57	17.1	0
20	QPSK	50	49	15.57	15.58	15.61		
20	QPSK	100	0	15.80	15.63	15.61		
20	16QAM	1	0	15.61	15.66	15.63		
20	16QAM	1	49	15.58	15.62	15.58	17.1	0
20	16QAM	1	99	15.59	15.65	15.65		
20	16QAM	50	0	15.70	15.68	15.71		
20	16QAM	50	24	15.56	15.62	15.64	17.1	0
20	16QAM	50	50	15.54	15.57	15.58		
20	16QAM	100	0	15.59	15.61	15.66		
20	16QAM	100	24	15.64	15.72	15.65		
20	64QAM	1	49	15.71	15.67	15.64	17.1	0
20	64QAM	1	99	15.59	15.67	15.59		
20	64QAM	50	0	15.64	15.68	15.68		
20	64QAM	50	24	15.56	15.66	15.69	17.1	0
20	64QAM	50	50	15.58	15.63	15.59		
20	64QAM	100	0	15.56	15.56	15.70		
20	256QAM	1	49	15.50	15.52	15.51	17.1	0
20	256QAM	1	99	15.56	15.60	15.63		
20	256QAM	50	0	15.65	15.65	15.69		
20	256QAM	50	24	15.63	15.55	15.52	17.1	0
20	256QAM	50	50	15.52	15.54	15.57		
20	256QAM	100	0	15.53	15.58	15.58		
Channel								
Frequency (MHz)				130047	130222	130397	Turn-up (dB)	MPR (dB)
15	QPSK	1	0	15.67	15.62	15.62		
15	QPSK	1	37	15.52	15.67	15.62	17.1	0
15	QPSK	1	74	15.58	15.62	15.64		
15	QPSK	36	7	15.63	15.63	15.69		
15	QPSK	36	20	15.54	15.66	15.67	17.1	0
15	QPSK	36	39	15.52	15.61	15.62		
15	QPSK	79	0	15.55	15.59	15.60		
15	16QAM	1	0	15.63	15.62	15.67		
15	16QAM	1	37	15.54	15.61	15.66	17.1	0
15	16QAM	1	74	15.66	15.71	15.70		
15	16QAM	36	0	15.54	15.70	15.69		
15	16QAM	36	20	15.67	15.58	15.60	17.1	0
15	16QAM	36	39	15.55	15.62	15.55		
15	16QAM	79	0	15.58	15.61	15.64		
15	64QAM	1	0	15.63	15.70	15.58		
15	64QAM	1	37	15.58	15.69	15.63	17.1	0
15	64QAM	1	74	15.70	15.62	15.62		
15	64QAM	36	0	15.54	15.65	15.58		
15	64QAM	36	20	15.66	15.61	15.69	17.1	0
15	64QAM	36	39	15.59	15.65	15.61		
15	64QAM	79	0	15.50	15.57	15.51		
15	256QAM	1	0	15.56	15.72	15.68		
15	256QAM	1	37	15.66	15.63	15.63	17.1	0
15	256QAM	1	74	15.59	15.65	15.65		
15	256QAM	36	0	15.59	15.62	15.59		
15	256QAM	36	20	15.63	15.55	15.52	17.1	0
15	256QAM	36	39	15.52	15.58	15.57		
15	256QAM	79	0	15.53	15.56	15.58		
Channel								
Frequency (MHz)				17115	1745	1775	Turn-up (dB)	MPR (dB)
10	QPSK	1	0	15.61	15.68	15.61		
10	QPSK	1	25	15.49	15.61	15.51	17.1	0
10	QPSK	1	49	15.61	15.63	15.67		
10	QPSK	25	0	15.53	15.65	15.69		
10	QPSK	25	12	15.52	15.61	15.54	17.1	0
10	QPSK	25	24	15.47	15.65	15.62		
10	QPSK	50	0	15.52	15.63	15.61		
10	16QAM	1	0	15.66	15.59	15.69		
10	16QAM	1	24	15.66	15.66	15.69	17.1	0
10	16QAM	1	49	15.59	15.67	15.74		
10	16QAM	25	0	15.70	15.68	15.68		
10	16QAM	25	12	15.67	15.59	15.62	17.1	0
10	16QAM	25	24	15.51	15.64	15.57		
10	16QAM	50	0	15.62	15.64	15.67		
10	64QAM	1	0	15.70	15.69	15.67		
10	64QAM	1	25	15.71	15.69	15.63	17.1	0
10	64QAM	1	49	15.52	15.52	15.48		
10	64QAM	25	0	15.66	15.71	15.43		
10	64QAM	25	12	15.61	15.58	15.57	17.1	0
10	64QAM	25	24	15.52	15.61	15.56		
10	160AM	50	0	15.53	15.56	15.52		
10	256QAM	1	0	15.65	15.71	15.68		
10	256QAM	1	25	15.49	15.53	15.51	17.1	0
10	256QAM	1	49	15.57	15.61	15.63		
10	256QAM	25	0	15.65	15.64	15.64		
10	256QAM	25	12	15.55	15.57	15.51	17.1	0
10	256QAM	25	24	15.53	15.53	15.55		
10	256QAM	50	0	15.54	15.57	15.56		
Channel								
Frequency (MHz)				131997	130222	130947	Turn-up (dB)	MPR (dB)
5	QPSK	1	0	15.70	15.59	15.67		
5	QPSK	1	12	15.51	15.59	15.50	17.1	0
5	QPSK	1	24	15.61	15.56	15.66		
5	QPSK	12	0	15.72	15.64	15.66		
5	QPSK	12	7	15.49	15.66	15.50	17.1	0
5	QPSK	12	13	15.55	15.59	15.64		
5	QPSK	25	0	15.51	15.54	15.61		
5	16QAM	1	0	15.64	15.65	15.71		
5	16QAM	1	12	15.56	15.65	15.68	17.1	0
5	16QAM	1	24	15.66	15.66	15.57		
5	16QAM	12	0	15.72	15.56	15.63		
5	16QAM	12	7	15.49	15.55	15.57	17.1	0
5	16QAM	12	13	15.52	15.58	15.51		
5	16QAM	25	0	15.63	15.67	15.66		
5	64QAM	1	0	15.63	15.63	15.67		
5	64QAM	1	12	15.66	15.68	15.63	17.1	0
5	64QAM	1	24	15.57	15.57	15.55		
5	64QAM	12	0	15.59	15.45	15.53		
5	64QAM	12	7	15.68	15.65	15.66	17.1	0
5	64QAM	12	13	15.66	15.60	15.56		
5	64QAM	25	0	15.44	15.59	15.51		
5	256QAM	1	0	15.65	15.71	15.68		
5	256QAM	1	12	15.50	15.56	15.48	17.1	0
5	256QAM	1	24	15.56	15.59	15.64		
5	256QAM	12	0	15.63	15.66	15.68		
5	256QAM	12	7	15.52	15.54	15.58	17.1	0
5	256QAM	12	13	15.52	15.54	15.58		
5	256QAM	25	0	15.59	15.59	15.58		
Channel								
Frequency (MHz)				17115	1745	1775	Turn-up (dB)	MPR (dB)
3	QPSK	1	0	15.72	15.71	15.70		
3	QPSK	1	8	15.52	15.54	15.52	17.1	0
3	QPSK	1	14	15.48	15.58	15.55		
3	QPSK	8	0	15.70	15.57	15.59		
3	QPSK	8	4	15.46	15.66	15.49	17.1	0
3	QPSK	8	7	15.56	15.58	15.61		
3	QPSK	15	0	15.49	15.56	15.65		
3	16QAM	1	0	15.63	15.64	15.59		
3	16QAM	1	8	15.53	15.67	15.61	17.1	0
3	16QAM	1	14	15.69	15.69	15.72		
3	16QAM	8	0	15.71	15.59	15.61		
3	16QAM	8	4	15.67	15.54	15.64	17.1	0
3	16QAM	8	7	15.56	15.59	15.60		
3	16QAM	15	0	15.63	15.56	15.69		
3	64QAM	1	0	15.68	15.70	15.69		
3	64QAM	1	8	15.52	15.66	15.67	17.1	0
3	64QAM	1	14	15.55	15.53	15.52		
3	64QAM	8	0	15.66	15.72	15.64		
3	64QAM	8	4	15.71	15.70	15.69	17.1	0
3	64QAM	8	7	15.67	15.59	15.56		
3	160AM	15	0	15.42	15.61	15.49		
3	256QAM	1	0	15.52	15.72	15.67		
3	256QAM	1	8	15.51	15.54	15.51	17.1	0
3	256QAM	1	14	15.57	15.60	15.63		
3	256QAM	8	0	15.62	15.60	15.67		
3	256QAM	8	4	15.53	15.57	15.51	17.1	0
3	256QAM	8	7	15.51	15.53	15.55		
3	256QAM	15	0	15.55	15.60	15.58		
Channel								
Frequency (MHz)				131979	130222	130946	Turn-up (dB)	MPR (dB)
1.4	QPSK	1	0	15.66	15.70	15.69		
1.4	QPSK	1	3	15.50	15.58	15.51	17.1	0
1.4	QPSK	1	5	15.49	15.57	15.64		
1.4	QPSK	3	0	15.70	15.58	15.72		
1.4	QPSK	3	1	15.42	15.70	15.67	17.1	0
1.4	QPSK	3	3	15.54	15.55	15.69		
1.4	QPSK	6	0	15.45	15.56	15.60		
1.4	16QAM	1	0	15.59	15.64	15.61		
1.4	16QAM	1	3	15.57	15.63	15.61	17.1	0
1.4	16QAM	1	5	15.63	15.64	15.56		
1.4	16QAM	3	0	15.70	15.66	15.65		
1.4	16QAM	3	1	15.46	15.55	15.49	17.1	0
1.4	16QAM	3	3	15.55	15.63	15.52		
1.4	16QAM	6	0	15.62	15.56	15.72	17.1	0
1.4	64QAM	1	0	15.69	15.68	15.71		
1.4	64QAM	1	3	15.64	15.62	15.70		
1.4	64QAM	1	5	15.52	15.56	15.51	17.1	0
1.4	64QAM	3	0	15.69	15.61	15.71		



Band 38 Ant 1 DS12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Time-up limit (dBm)	MPR (dB)		
Channel Frequency (MHz)										
20	QPSK	1	0	22.61	22.64	22.68	24	0		
20	QPSK	1	49	22.65	22.62	22.67				
20	QPSK	1	99	22.66	21.92	21.91	23	1		
20	QPSK	50	0	21.57	21.79	21.65				
20	QPSK	50	24	21.68	21.68	21.77				
20	QPSK	50	50	21.64	21.70	21.89				
20	QPSK	100	0	21.64	21.72	21.72				
20	16QAM	1	0	21.79	21.92	21.88	23	1		
20	16QAM	1	49	21.73	21.83	21.78				
20	16QAM	1	99	21.65	21.83	21.75				
20	16QAM	50	0	20.60	20.70	20.74	22	2		
20	16QAM	50	24	20.74	20.72	20.77				
20	16QAM	50	50	20.61	20.78	20.74				
20	16QAM	100	0	20.72	20.71	20.75				
20	64QAM	1	0	20.48	20.51	20.48	22	2		
20	64QAM	1	49	20.38	20.42	20.36				
20	64QAM	1	99	20.29	20.34	20.33				
20	64QAM	50	0	19.96	19.93	19.95	21	3		
20	64QAM	50	24	19.95	19.97	19.74				
20	64QAM	50	50	19.62	19.73	19.70				
20	64QAM	100	0	19.73	19.69	19.77				
20	256QAM	1	0	18.80	18.82	18.82	19	5		
20	256QAM	1	49	18.51	18.45	18.50				
20	256QAM	1	99	18.47	18.51	18.47				
20	256QAM	50	0	18.56	18.69	18.67	19	5		
20	256QAM	50	24	18.49	18.63	18.54				
20	256QAM	50	50	18.48	18.73	18.77				
20	256QAM	100	0	18.67	18.63	18.67				
Channel Frequency (MHz)										
15	QPSK	1	0	22.58	22.61	22.64	24	0		
15	QPSK	1	37	22.51	22.58	22.62				
15	QPSK	1	74	22.49	22.62	22.80				
15	QPSK	36	0	21.60	21.66	21.66	23	1		
15	QPSK	36	20	21.67	21.68	21.70				
15	QPSK	36	39	21.56	21.69	21.85				
15	QPSK	75	0	21.63	21.65	21.64				
15	16QAM	1	0	21.80	21.82	21.82	23	1		
15	16QAM	1	37	21.74	21.78	21.78				
15	16QAM	1	74	21.89	21.81	21.78				
15	16QAM	36	0	20.86	20.88	20.87	22	2		
15	16QAM	36	20	20.95	20.71	20.67				
15	16QAM	36	39	20.57	20.71	20.69				
15	16QAM	75	0	20.89	20.70	20.69				
15	64QAM	1	0	20.43	20.41	20.44	22	2		
15	64QAM	1	37	20.32	20.41	20.35				
15	64QAM	1	74	20.30	20.37	20.30				
15	64QAM	36	0	19.56	19.68	19.67	21	3		
15	64QAM	36	20	19.55	19.68	19.67				
15	64QAM	36	39	19.61	19.71	19.68				
15	64QAM	75	0	19.71	19.73	19.68	19	5		
15	256QAM	1	0	18.47	18.56	18.52				
15	256QAM	1	37	18.43	18.54	18.54				
15	256QAM	1	74	18.43	18.54	18.58				
15	256QAM	36	0	18.57	18.80	18.64	19	5		
15	256QAM	36	20	18.67	18.50	18.79				
15	256QAM	36	39	18.58	18.54	18.64				
15	256QAM	75	0	18.58	18.54	18.64				
Channel Frequency (MHz)										
10	QPSK	1	0	22.74	22.66	22.73	24	0		
10	QPSK	1	25	22.68	22.77	22.79				
10	QPSK	1	49	22.72	22.61	22.87				
10	QPSK	25	0	21.87	21.97	21.83	23	1		
10	QPSK	25	12	21.83	21.96	21.58				
10	QPSK	25	25	21.51	21.60	21.60				
10	QPSK	50	0	21.63	21.73	21.58				
10	16QAM	1	0	21.80	21.82	21.82	23	1		
10	16QAM	1	25	21.84	21.74	21.73				
10	16QAM	1	49	21.81	21.96	21.97				
10	16QAM	25	0	20.59	20.92	20.75	22	2		
10	16QAM	25	12	20.52	20.98	20.84				
10	16QAM	25	25	20.72	20.96	20.65				
10	16QAM	50	0	20.78	20.90	20.82				
10	64QAM	1	0	20.84	20.91	20.82	22	2		
10	64QAM	1	25	20.72	20.85	20.79				
10	64QAM	1	49	20.54	20.75	20.68				
10	64QAM	25	0	19.78	19.78	19.65	21	3		
10	64QAM	25	12	19.70	19.64	19.95				
10	64QAM	25	25	19.67	19.85	19.80				
10	64QAM	50	0	19.53	19.63	19.83				
10	256QAM	1	0	18.42	18.60	18.51	19	5		
10	256QAM	1	25	18.36	18.38	18.47				
10	256QAM	1	49	18.39	18.43	18.47				
10	256QAM	25	0	18.61	18.62	18.63	19	5		
10	256QAM	25	12	18.64	18.61	18.68				
10	256QAM	25	25	18.37	18.77	18.81				
10	256QAM	50	0	18.67	18.57	18.72				
Channel Frequency (MHz)										
5	QPSK	1	0	22.71	22.60	22.39	24	0		
5	QPSK	1	12	22.78	22.75	22.73				
5	QPSK	1	24	22.57	22.80	22.39				
5	QPSK	12	0	21.85	21.82	21.87	23	1		
5	QPSK	12	7	21.80	21.63	21.64				
5	QPSK	12	13	21.50	21.61	21.54				
5	QPSK	25	0	21.84	21.70	21.93				
5	16QAM	1	0	21.92	22.04	21.97	23	1		
5	16QAM	1	12	21.79	21.95	21.95				
5	16QAM	1	24	21.83	22.04	21.87				
5	16QAM	12	0	20.41	20.87	20.87	22	2		
5	16QAM	12	7	20.72	20.85	20.79				
5	16QAM	12	13	20.83	20.85	20.87				
5	16QAM	25	0	20.66	20.71	20.72	22	2		
5	16QAM	25	0	20.46	20.44	20.46				
5	64QAM	1	0	20.61	20.96	20.82	22	2		
5	64QAM	1	24	20.53	20.75	20.65				
5	64QAM	12	0	19.67	19.91	19.64	21	3		
5	64QAM	12	7	19.86	19.51	19.70				
5	64QAM	12	13	19.86	19.70	19.63				
5	64QAM	25	0	19.72	19.67	19.73	19	5		
5	256QAM	1	0	18.46	18.43	18.61				
5	256QAM	1	12	18.46	18.47	18.60				
5	256QAM	1	24	18.37	18.41	18.33				
5	256QAM	12	0	18.49	18.77	18.67	19	5		
5	256QAM	12	7	18.61	18.74	18.67				
5	256QAM	12	13	18.48	18.74	18.75				
5	256QAM	25	0	18.63	18.61	18.71				

Band 38 Ant 2 DS12 for ENDC										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Time-up limit (dBm)	MPR (dB)		
Channel Frequency (MHz)										
20	QPSK	1	0	20.11	20.13	20.06	21.6	0		
20	QPSK	1	49	20.10	19.95	20.07				
20	QPSK	1	99	20.04	20.12	20.12	21.6	0		
20	QPSK	50	0	19.97	20.10	19.95				
20	QPSK	50	24	20.01	19.96	20.00				
20	QPSK	50	50	20.05	20.00	20.02				
20	QPSK	100	0	20.08	20.11	20.09				
20	16QAM	1	0	20.12	20.05	20.00	21.6	0		
20	16QAM	1	49	20.11	20.05	19.92				
20	16QAM	1	99	20.01	20.00	20.00				
20	16QAM	50	0	19.99	19.99	19.99	21.6	0		
20	16QAM	50	24	20.11	19.91	20.09				
20	16QAM	50	50	20.07	19.99	20.08				
20	16QAM	100	0	19.99	19.93	20.04				
20	64QAM	1	0	20.07	20.05	20.00	21.6	0		
20	64QAM	1	49	20.12	20.02	20.05				
20	64QAM	1	99	20.02	20.10	20.02				
20	64QAM	50	0	19.84	19.86	19.89	21	0.6		
20	64QAM	50	24	19.98	19.99	19.97				
20	64QAM	50	50	19.95	20.01	19.99				
20	64QAM	100	0	19.97	19.99	19.98				
20	256QAM	1	0	17.44	17.44	17.47	19	2.6		
20	256QAM	1	49	17.44	17.51	17.43				
20	256QAM	1	99	17.42	17.47	17.38				
20	256QAM	50	0	18.01	18.13	18.07	19	2.6		
20	256QAM	50	24	18.04	18.10	17.89				
20	256QAM	50	50	17.93	18.07	17.95				
20	256QAM	100	0	18.02	18.08	18.07				
Channel Frequency (MHz)										
15	QPSK	1	0	20.12	20.05	20.02	21.6	0		
15	QPSK	1	37	20.11	19.96	20.11				
15	QPSK	1	74	20.06	20.07	20.11				
15	QPSK	36	0	20.08	20.01	20.00	21.6	0		
15	QPSK	36	20	20.01	20.00	19.92				
15	QPSK	36	39	20.07	20.03	20.03				
15	QPSK	75	0	20.07	20.07	19.99				
15	16QAM	1	0	20.08	20.01	19.99	21.6	0		
15	16QAM	1	37	20.03	20.00	19.98				
15	16QAM	1	74	20.00	20.04	19.99				
15	16QAM	36	0	20.06	19.90	20.00	21.6	0		
15	16QAM	36	20	20.12	19.88	20.10				
15	16QAM	36	39	20.09	19.95	20.05				
15	16QAM	75	0	19.96	19.94	20.06				
15	64QAM	1	0	20.05	20.07	20.02	21.6	0		
15	64QAM	1	37	20.05	20.07	20.02				
15	64QAM	1	74	20.02	20.05	19.99				
15	64QAM	36	0	19.69	19.68	19.72	21	0.6		
15	64QAM	36	20	19.63	19.39	19.47				
15	64QAM	36	39	19.68	19.68	19.63				
15	64QAM	75	0	19.67	19.68	19.58				
15	256QAM	1	0	17.47	17.54	17.46	19	2.6		
15	256QAM	1	37	17.42	17.47	17.38				
15	256QAM	1	74	17.43	17.45	17.36				
15	256QAM	36	0	18.02	18.13	18.06	19	2.6		
15	256QAM	36	20	18.02	18.10	17.89				
15	256QAM	36	39	17.84	18.08	17.88				
15	256QAM	75	0	18.02	18.08	18.05				
Channel Frequency (MHz)										
10	QPSK	1</								



Band 41 (2.6G Band) Ant 1 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Low Ch./Freq.	Power Middle High Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)									
20	QPSK	1	0	23.09	23.20	23.30	23.52	24	0
20	QPSK	1	49	23.17	23.20	23.19	23.11		
20	QPSK	1	99	23.09	23.29	23.19	23.18	23	1
20	QPSK	50	0	22.21	22.37	22.09	21.99		
20	QPSK	50	24	22.31	22.08	22.32	22.32	23	1
20	QPSK	50	50	22.17	22.34	22.28	22.25		
20	QPSK	100	0	22.19	22.29	22.21	22.07	23	1
20	16QAM	1	0	22.15	22.29	22.44	22.20		
20	16QAM	1	49	22.05	22.16	22.18	22.20	23	1
20	16QAM	1	99	22.29	22.43	21.97	22.17		
20	16QAM	50	0	21.29	21.34	21.30	21.03	22	2
20	16QAM	50	24	21.30	21.37	21.32	21.38		
20	16QAM	50	50	21.32	21.27	21.37	21.37	22	2
20	16QAM	100	0	21.17	21.38	21.26	21.12		
20	64QAM	1	0	21.24	21.08	21.44	21.09	22	2
20	64QAM	1	49	21.04	21.03	21.36	21.19		
20	64QAM	1	99	21.41	21.24	21.41	21.52	21	3
20	64QAM	50	0	20.35	20.13	20.03	20.16		
20	64QAM	50	24	20.48	20.41	20.35	20.31	21	3
20	64QAM	50	50	20.18	20.27	20.38	20.30		
20	64QAM	100	0	20.10	20.31	20.08	20.11	21	3
20	256QAM	1	0	18.44	18.81	18.89	18.40		
20	256QAM	1	49	18.48	18.58	18.49	18.51	19	5
20	256QAM	1	99	18.36	18.60	18.48	18.36		
20	256QAM	50	0	18.73	18.64	18.53	18.69	19	5
20	256QAM	50	24	18.63	18.38	18.65	18.61		
20	256QAM	50	50	18.70	18.54	18.44	18.67	19	5
20	256QAM	100	0	18.80	18.67	18.79	18.64		
Channel Frequency (MHz)									
15	QPSK	1	0	23.09	23.21	23.26	23.12	24	0
15	QPSK	1	37	23.17	23.16	23.21	23.08		
15	QPSK	1	74	23.17	23.24	23.22	23.14	23	1
15	QPSK	36	0	22.34	22.39	22.42	22.18		
15	QPSK	36	20	22.37	22.39	22.42	22.18	23	1
15	QPSK	36	39	22.32	22.32	22.38	22.25		
15	16QAM	75	0	22.31	22.16	22.04	22.24	23	1
15	16QAM	75	37	22.30	22.29	22.24	22.23		
15	16QAM	1	74	22.32	22.29	22.46	22.19	22	2
15	16QAM	36	0	21.44	21.22	21.09	21.09		
15	16QAM	36	20	21.37	21.39	21.23	21.19	22	2
15	16QAM	36	39	21.33	21.32	21.38	21.21		
15	16QAM	75	0	21.17	21.49	21.16	21.18	21	3
15	64QAM	1	0	21.03	21.11	20.96	20.96		
15	64QAM	1	37	20.98	21.20	20.91	21.01	21	3
15	64QAM	1	74	21.22	21.14	21.22	21.04		
15	64QAM	36	0	20.18	20.15	20.21	20.03	21	3
15	64QAM	36	20	20.15	20.32	20.26	20.12		
15	64QAM	36	39	20.37	20.24	20.30	20.20	19	5
15	64QAM	75	0	20.16	20.36	20.06	20.23		
15	256QAM	1	0	18.62	18.57	18.56	18.38	19	5
15	256QAM	1	37	18.63	18.58	18.58	18.41		
15	256QAM	1	74	18.43	18.72	18.38	18.44	19	5
15	256QAM	36	0	18.72	18.62	18.54	18.68		
15	256QAM	36	20	18.69	18.58	18.61	18.75	19	5
15	256QAM	36	39	18.67	18.69	18.67	18.67		
15	256QAM	75	0	18.79	18.77	18.77	18.72	21	3
Channel Frequency (MHz)									
10	QPSK	1	0	23.09	23.14	23.03	23.23	24	0
10	QPSK	1	25	23.26	23.19	23.10	23.11		
10	QPSK	1	49	23.13	23.12	23.14	23.19	23	1
10	QPSK	25	0	22.37	22.28	22.15	22.28		
10	QPSK	25	0	22.56	22.50	22.57	22.45	23	1
10	QPSK	25	25	22.46	22.48	22.42	22.46		
10	QPSK	50	0	22.33	22.45	22.17	22.35	23	1
10	16QAM	1	0	22.33	22.45	22.17	22.35		
10	16QAM	1	25	22.27	22.32	22.40	22.38	23	1
10	16QAM	1	49	22.47	22.34	22.44	22.23		
10	16QAM	25	0	21.32	21.23	21.27	21.14	22	2
10	16QAM	25	12	21.51	21.50	21.50	21.51		
10	16QAM	25	25	21.53	21.52	21.56	21.54	22	2
10	16QAM	50	0	21.37	21.42	21.39	21.28		
10	64QAM	1	0	21.41	21.40	21.09	21.15	22	2
10	64QAM	1	25	21.40	21.40	21.53	21.23		
10	64QAM	1	49	21.45	21.31	21.38	21.20	21	3
10	64QAM	25	0	20.27	20.10	20.22	20.28		
10	64QAM	25	12	20.37	20.31	20.47	20.47	21	3
10	64QAM	25	25	20.46	20.47	20.41	20.35		
10	64QAM	50	0	20.32	20.36	20.43	20.12	21	3
10	256QAM	1	0	18.35	18.48	18.62	18.33		
10	256QAM	1	25	18.52	18.60	18.36	18.46	19	5
10	256QAM	1	49	18.34	18.59	18.56	18.47		
10	256QAM	25	0	18.66	18.64	18.69	18.69	19	5
10	256QAM	25	12	18.70	18.53	18.69	18.70		
10	256QAM	25	25	18.61	18.60	18.54	18.66	19	5
10	256QAM	50	0	18.88	18.78	18.78	18.68		
Channel Frequency (MHz)									
5	QPSK	1	0	23.09	23.23	23.23	23.03	24	0
5	QPSK	1	12	23.14	23.23	23.22	23.17		
5	QPSK	1	24	23.16	23.15	23.06	22.96	23	1
5	QPSK	12	0	22.46	22.29	22.45	22.12		
5	QPSK	12	7	22.48	22.51	22.57	22.46	23	1
5	QPSK	12	13	22.43	22.47	22.45	22.35		
5	QPSK	25	0	22.47	22.41	22.27	22.37	23	1
5	16QAM	1	0	22.23	22.22	22.19	22.17		
5	16QAM	1	12	22.43	22.18	22.53	22.52	23	1
5	16QAM	1	24	22.50	22.29	22.06	22.28		
5	16QAM	12	0	21.46	21.38	21.13	21.03	22	2
5	16QAM	12	7	21.48	21.11	21.22	21.06		
5	16QAM	12	13	21.44	21.38	21.53	21.27	22	2
5	16QAM	25	0	21.35	21.27	21.23	21.28		
5	64QAM	1	0	21.50	21.41	21.35	21.26	22	2
5	64QAM	1	12	21.40	21.33	21.49	21.11		
5	64QAM	1	24	21.44	21.23	21.21	21.32	21	3
5	64QAM	12	0	20.45	20.28	20.27	20.23		
5	64QAM	12	7	20.48	20.50	20.62	20.29	21	3
5	64QAM	12	13	20.33	20.28	20.41	20.16		
5	64QAM	25	0	20.39	20.41	20.45	20.29	19	5
5	256QAM	1	0	18.50	18.54	18.72	18.33		
5	256QAM	1	12	18.43	18.59	18.27	18.65	19	5
5	256QAM	1	24	18.27	18.70	18.45	18.33		
5	256QAM	12	0	18.69	18.63	18.48	18.81	19	5
5	256QAM	12	7	18.71	18.45	18.71	18.69		
5	256QAM	12	13	18.78	18.64	18.50	18.63	19	5
5	256QAM	25	0	18.86	18.60	18.79	18.62		

Band 41 Ant 2 DS12 for ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Low Ch./Freq.	Power Middle High Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)									
20	QPSK	1	0	20.41	20.49	20.35	20.44	21.6	0
20	QPSK	1	49	20.38	20.36	20.31	20.33		
20	QPSK	1	99	20.42	20.44	20.47	20.43	21.6	0
20	QPSK	50	0	20.39	20.41	20.40	20.39		
20	QPSK	50	24	20.40	20.36	20.38	20.34	21.6	0
20	QPSK	50	50	20.34	20.39	20.40	20.37		
20	16QAM	1	0	20.42	20.45	20.41	20.43	21.6	0
20	16QAM	1	49	20.39	20.37	20.40	20.41		
20	16QAM	1	99	20.39	20.35	20.33	20.32	21.6	0
20	16QAM	50	0	20.35	20.36	20.38	20.32		
20	16QAM	50	24	20.30	20.29	20.29	20.31	21.6	0
20	16QAM	50	50	20.37	20.35	20.33	20.38		
20	16QAM	100	0	20.40	20.37	20.36	20.32	21.6	0
20	64QAM	1	49	20.42	20.44	20.39	20.40		
20	64QAM	1	99	20.4					



Band 42 FCC Part27Q Ant 4 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.33	22.39	22.38			
20	QPSK	1	49	22.28	22.34	22.28	24	0	
20	QPSK	1	99	22.28	22.34	22.28			
20	QPSK	50	0	21.47	21.52	21.48			
20	QPSK	50	24	21.35	21.40	21.36	23	1	
20	QPSK	50	50	21.21	21.26	21.22			
20	QPSK	100	0	21.28	21.32	21.28			
20	16QAM	1	0	21.25	21.28	21.22			
20	16QAM	1	49	21.26	21.32	21.27	23	1	
20	16QAM	1	99	21.26	21.32	21.31			
20	16QAM	50	0	20.50	20.54	20.51			
20	16QAM	50	24	20.44	20.48	20.43	22	2	
20	16QAM	50	50	20.37	20.40	20.38			
20	16QAM	100	0	20.29	20.36	20.32			
20	16QAM	36	0	20.34	20.38	20.35			
20	64QAM	1	49	20.35	20.40	20.35	22	2	
20	64QAM	1	99	20.30	20.35	20.29			
20	64QAM	50	0	19.86	19.72	19.67			
20	64QAM	50	24	19.97	19.91	19.96			
20	64QAM	50	50	19.87	19.83	19.60			
20	64QAM	100	0	19.45	19.50	19.44	21	3	
20	256QAM	1	0	17.30	17.23	17.38			
20	256QAM	1	49	17.15	17.20	17.20	19	5	
20	256QAM	1	99	17.01	17.26	17.38			
20	256QAM	50	0	17.24	17.29	17.41			
20	256QAM	50	24	17.20	17.25	17.44			
20	256QAM	50	50	17.16	17.18	17.44	19	5	
20	256QAM	100	0	17.11	17.12	17.22			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.28	22.35	22.29			
15	QPSK	1	37	22.22	22.29	22.24	24	0	
15	QPSK	1	74	22.21	22.25	22.19			
15	QPSK	36	0	21.63	21.68	21.62			
15	QPSK	36	20	21.28	21.37	21.32	23	1	
15	QPSK	36	39	21.17	21.25	21.19			
15	QPSK	75	0	21.22	21.26	21.21			
15	16QAM	1	0	21.19	21.23	21.18			
15	16QAM	1	37	21.20	21.26	21.21	23	1	
15	16QAM	1	74	21.24	21.31	21.25			
15	16QAM	36	0	20.46	20.49	20.47			
15	16QAM	36	20	20.39	20.41	20.40	22	2	
15	16QAM	36	39	20.31	20.35	20.32			
15	16QAM	75	0	20.24	20.32	20.26			
15	64QAM	1	0	20.28	20.31	20.31	22	2	
15	64QAM	1	37	20.31	20.36	20.29			
15	64QAM	1	74	20.24	20.32	20.24			
15	64QAM	36	0	19.60	19.69	19.63			
15	64QAM	36	20	19.52	19.57	19.52	21	3	
15	64QAM	36	39	19.52	19.58	19.57			
15	64QAM	75	0	18.41	18.47	18.37			
15	256QAM	1	0	17.01	17.31	17.35			
15	256QAM	1	37	17.20	17.28	17.28	19	5	
15	256QAM	1	74	17.11	17.35	17.24			
15	256QAM	36	0	17.28	17.20	17.31			
15	256QAM	36	20	17.13	17.18	17.41	19	5	
15	256QAM	36	39	17.05	17.07	17.41			
15	256QAM	75	0	17.08	17.10	17.30			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.57	22.34	22.32			
10	QPSK	1	25	22.25	22.30	22.23	24	0	
10	QPSK	1	49	22.22	22.25	22.22			
10	QPSK	25	0	21.44	21.44	21.44			
10	QPSK	25	12	21.31	21.35	21.32	23	1	
10	QPSK	25	25	21.14	21.24	21.16			
10	QPSK	50	0	21.21	21.26	21.20			
10	16QAM	1	0	21.22	21.21	21.16			
10	16QAM	1	25	21.19	21.26	21.24	23	1	
10	16QAM	1	49	21.23	21.30	21.26			
10	16QAM	25	0	20.43	20.51	20.45			
10	16QAM	25	12	20.28	20.34	20.28	22	2	
10	16QAM	25	25	20.31	20.36	20.30			
10	16QAM	50	0	20.24	20.30	20.29			
10	64QAM	1	0	20.29	20.31	20.31	22	2	
10	64QAM	1	25	20.31	20.36	20.30			
10	64QAM	1	49	20.23	20.29	20.22			
10	64QAM	25	0	19.62	19.67	19.63			
10	64QAM	25	12	19.51	19.57	19.55	21	3	
10	64QAM	25	25	19.50	19.59	19.56			
10	64QAM	50	0	18.40	18.45	18.38			
10	256QAM	1	0	17.07	17.34	17.31			
10	256QAM	1	25	17.14	17.20	17.16	19	5	
10	256QAM	1	49	17.02	17.22	17.44			
10	256QAM	25	0	17.11	17.27	17.53			
10	256QAM	25	12	17.26	17.06	17.38	19	5	
10	256QAM	25	25	17.17	17.19	17.66			
10	256QAM	50	0	17.18	17.07	17.32			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.28	22.34	22.32			
5	QPSK	1	12	22.23	22.30	22.25	24	0	
5	QPSK	1	24	22.19	22.25	22.21			
5	QPSK	12	0	21.43	21.45	21.43			
5	QPSK	12	7	21.31	21.36	21.32	23	1	
5	QPSK	12	13	21.16	21.24	21.17			
5	QPSK	25	0	21.22	21.26	21.22			
5	16QAM	1	0	21.20	21.22	21.19	23	1	
5	16QAM	1	12	21.21	21.28	21.22			
5	16QAM	1	24	21.22	21.28	21.26			
5	16QAM	12	0	20.45	20.49	20.44			
5	16QAM	12	7	20.40	20.44	20.37	22	2	
5	16QAM	12	13	20.33	20.36	20.30			
5	16QAM	25	0	20.23	20.30	20.27			
5	64QAM	1	0	20.30	20.33	20.29			
5	64QAM	1	12	20.30	20.34	20.31	22	2	
5	64QAM	1	24	20.25	20.28	20.22			
5	64QAM	12	0	19.60	19.68	19.61			
5	64QAM	12	7	19.50	19.57	19.52	21	3	
5	64QAM	12	13	19.52	19.55	19.56			
5	64QAM	25	0	19.39	19.48	19.39			
5	256QAM	1	0	17.08	17.33	17.33			
5	256QAM	1	12	17.12	17.32	17.12	19	5	
5	256QAM	1	24	17.08	17.34	17.42			
5	256QAM	12	0	17.11	17.39	17.44			
5	256QAM	12	7	17.25	17.11	17.36	19	5	
5	256QAM	12	13	17.16	17.27	17.36			
5	256QAM	25	0	17.01	17.17	17.28			

Band 42 FCC Part27Q Ant 4 DS12 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.10	22.16	22.13			
20	QPSK	1	49	22.05	22.11	22.05	23.5	0	
20	QPSK	1	99	22.05	22.07	22.03			
20	QPSK	50	0	21.27	21.30	21.28			
20	QPSK	50	24	21.15	21.18	21.16	23	0.5	
20	QPSK	50	50	21.01	21.06	21.02			
20	16QAM	1	0	21.08	21.10	21.06			
20	16QAM	1	49	21.02	21.05	21.01	23	0.5	
20	16QAM	1	99	21.03	21.09	21.04			
20	16QAM	50	0	20.36	20.32	20.31			
20	16QAM	50	24	20.24	20.26	20.23	22	1.5	
20	16QAM	50	50	20.17	20.18	20.15			
20	16QAM	100	0	20.09	20.14	20.12			
20	64QAM	1	49	20.11	20.15	20.12	22	1.5	
20	64QAM	1	99	20.12	20.17	20.12			
20	64QAM	1	99	20.07	20.12	20.06			
20	64QAM	50	0	19.46	19.50	19.42			
20	64QAM	50	24	19.37	19.39	19.36			
20	64QAM	50	50	19.37	19.41	19.40			
20	64QAM	100	0	19.25	19.28	19.24	21	2.5	
20	256QAM	1	0	17.10	17.23	17.30			
20	256QAM	1	49	17.15	17.20	17.20	19	4.5	
20	256QAM	1	99	17.01	17.26	17.38			
20	256QAM	50	0	17.24	17.29	17.41			
20	256QAM	50	24	17.20	17.25	17.44			
20	256QAM	50	50	17.16	17.18	17.44	19	4.5	
20	256QAM	100	0	17.11	17.12	17.22			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.05	22.12	22.06			
15	QPSK	1	37	21.99	22.06	22.01	23.5	0	
15	QPSK	1	74	21.98	22.02	21.96			
15	QPSK	36	0	21.23	21.24	21.22			
15	QPSK	36	20	21.08	21.15	21.12	23	0.5	
15	QPSK	36	39	21.07	21.13	21.09			
15	QPSK	75	0	21.02	21.04	21.01			
15	16QAM	1	0	21.00	21.10	21.02			
15	16QAM	1	37	21.07	21.13	21.08	23	0.5	
15	16QAM	1	74	21.01	21.08	21.02			
15	16QAM	36	0	20.26	20.27	20.27			
15	16QAM	36	20	20.19	20.19	20.20	22	1.5	
15	16QAM	36	39	20.11	20.13	20.12			
15	16QAM	75	0	20.04	20.10	20.06			
15	64QAM	1	0	20.05	20.08	20.08	22	1.5	
15	64QAM	1	37	20.08	20.13	20.06			



ANT1		DSIS					
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)		
	128	189	251		128	189	251
TX Channel	128	189	251	Limit	128	189	251
Frequency (MHz)	928.2	938.4	948.8	(dBm)	928.2	938.4	948.8
GSM 1 Tx slot	31.86	31.94	31.75	33.50	22.85	22.94	22.75
GPRS 1 Tx slot	31.85	31.93	31.73	33.50	22.85	22.93	22.73
GPRS 2 Tx slots	29.74	29.77	29.55	30.70	23.74	23.77	23.55
GPRS 3 Tx slots	27.23	27.56	27.53	28.70	22.97	23.30	23.27
GPRS 4 Tx slots	26.06	26.17	26.29	27.50	23.06	23.17	23.29
EDGE 1 Tx slot	24.78	25.07	25.01	26.00	15.78	16.07	16.01
EDGE 2 Tx slots	23.34	23.73	23.61	24.50	17.34	17.73	17.61
EDGE 3 Tx slots	21.40	21.63	21.80	22.50	17.14	17.37	17.54
EDGE 4 Tx slots	19.54	19.72	19.74	21.00	16.54	16.72	16.74

ANT1		DSIS					
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)		
	512	681	810		512	681	810
TX Channel	512	681	810	Limit	512	681	810
Frequency (MHz)	1850.2	1890	1809.8	(dBm)	1850.2	1890	1809.8
GSM 1 Tx slot	28.36	28.82	28.77	29.00	19.36	19.82	19.77
GPRS 1 Tx slot	28.41	28.81	28.81	29.00	19.41	19.81	19.81
GPRS 2 Tx slots	25.31	25.81	25.65	26.00	19.31	19.81	19.65
GPRS 3 Tx slots	23.40	23.41	23.38	24.40	19.14	19.15	19.12
GPRS 4 Tx slots	22.10	22.25	22.16	23.00	19.10	19.25	19.16
EDGE 1 Tx slot	24.72	25.03	25.21	26.50	15.72	16.03	16.21
EDGE 2 Tx slots	23.57	23.94	24.02	25.00	17.57	17.94	18.02
EDGE 3 Tx slots	21.89	22.32	22.36	23.50	17.63	18.06	18.10
EDGE 4 Tx slots	20.01	20.45	20.43	21.50	17.01	17.45	17.43

ANT1		DSIS					
Band	WCDMA I			WCDMA IV			
	9262	9400	9538	1312	1413	1513	
TX Channel	9262	9400	9538	Limit	1312	1413	1513
Rx Channel	9662	9800	9938	(dBm)	1537	1638	1738
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6
3GPP Rel 99	AMR 12.2Kbps	20.91	21.13	21.11	21.70	20.30	20.32
3GPP Rel 99	RMC 12.2Kbps	21.10	21.15	21.12	21.70	20.34	20.36
3GPP Rel 6	HSDPA Subtest-1	19.88	20.08	20.15	20.70	19.87	19.85
3GPP Rel 6	HSDPA Subtest-2	20.12	20.15	20.44	20.70	19.93	19.87
3GPP Rel 6	HSDPA Subtest-3	19.46	19.71	19.59	20.20	19.50	19.37
3GPP Rel 6	HSDPA Subtest-4	19.51	19.87	19.75	20.20	19.44	19.29
3GPP Rel 6	DC-HSDPA Subtest-1	19.98	20.37	20.19	20.70	19.72	19.88
3GPP Rel 6	DC-HSDPA Subtest-2	20.06	20.26	20.11	20.70	19.81	19.91
3GPP Rel 6	DC-HSDPA Subtest-3	19.50	19.67	19.73	20.20	19.44	19.35
3GPP Rel 6	DC-HSDPA Subtest-4	19.55	19.74	19.75	20.20	19.32	19.32
3GPP Rel 6	HSPA Subtest-1	19.97	20.34	20.31	20.70	19.79	19.93
3GPP Rel 6	HSPA Subtest-2	17.83	18.03	18.15	18.70	17.88	17.74
3GPP Rel 6	HSPA Subtest-3	18.94	19.25	19.18	19.70	18.95	18.80
3GPP Rel 6	HSPA Subtest-4	18.12	18.07	18.55	18.70	17.96	17.88
3GPP Rel 6	HSPA Subtest-5	19.94	20.35	20.19	20.70	19.83	19.80

ANT1		DSIS Simultaneous					
Band	WCDMA I			WCDMA IV			
	9262	9400	9538	1312	1413	1513	
TX Channel	9262	9400	9538	Limit	1312	1413	1513
Rx Channel	9662	9800	9938	(dBm)	1537	1638	1738
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6
3GPP Rel 99	AMR 12.2Kbps	19.31	19.52	19.51	19.70	19.25	19.30
3GPP Rel 99	RMC 12.2Kbps	19.35	19.64	19.53	19.70	19.31	19.32
3GPP Rel 6	HSDPA Subtest-1	17.71	18.18	18.15	18.70	18.76	18.71
3GPP Rel 6	HSDPA Subtest-2	17.90	18.05	18.31	18.70	18.71	18.71
3GPP Rel 6	HSDPA Subtest-3	17.28	17.56	17.54	18.20	18.36	18.18
3GPP Rel 6	HSDPA Subtest-4	17.40	17.62	17.52	18.20	18.32	18.06
3GPP Rel 6	DC-HSDPA Subtest-1	17.80	18.26	17.96	18.70	18.58	18.74
3GPP Rel 6	DC-HSDPA Subtest-2	17.89	18.14	17.96	18.70	18.65	18.79
3GPP Rel 6	DC-HSDPA Subtest-3	17.36	17.45	17.51	18.20	18.25	18.13
3GPP Rel 6	DC-HSDPA Subtest-4	17.32	17.56	17.50	18.20	18.14	18.22
3GPP Rel 6	HSPA Subtest-1	17.76	18.20	18.10	18.70	18.69	18.71
3GPP Rel 6	HSPA Subtest-2	15.82	16.20	16.26	16.70	16.70	16.54
3GPP Rel 6	HSPA Subtest-3	16.74	17.10	17.13	17.70	17.81	17.69
3GPP Rel 6	HSPA Subtest-4	16.00	15.87	16.34	16.70	16.84	16.71
3GPP Rel 6	HSPA Subtest-5	17.79	18.17	17.98	18.70	18.59	18.62

ANT1		DSIS Simultaneous					
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)		
	128	189	251		128	189	251
TX Channel	128	189	251	Limit	128	189	251
Frequency (MHz)	928.2	938.4	948.8	(dBm)	928.2	938.4	948.8
GSM 1 Tx slot	30.46	30.44	30.75	31.50	21.46	21.44	21.75
GPRS 1 Tx slot	30.65	30.30	30.70	31.50	21.65	21.30	21.70
GPRS 2 Tx slots	27.39	27.59	27.26	28.70	21.39	21.59	21.26
GPRS 3 Tx slots	25.84	25.56	25.92	26.70	21.58	21.30	21.66
GPRS 4 Tx slots	24.13	23.70	24.09	25.50	21.13	20.70	21.09
EDGE 1 Tx slot	24.78	25.07	25.01	26.00	15.78	16.07	16.01
EDGE 2 Tx slots	23.34	23.73	23.61	24.50	17.34	17.73	17.61
EDGE 3 Tx slots	21.40	21.63	21.80	22.50	17.14	17.37	17.54
EDGE 4 Tx slots	19.54	19.72	19.74	21.00	16.54	16.72	16.74

ANT1		DSIS Simultaneous					
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)		
	512	681	810		512	681	810
TX Channel	512	681	810	Limit	512	681	810
Frequency (MHz)	1850.2	1890	1809.8	(dBm)	1850.2	1890	1809.8
GSM 1 Tx slot	27.19	27.29	27.10	27.50	18.19	18.29	18.10
GPRS 1 Tx slot	27.19	27.27	27.06	27.50	18.19	18.27	18.06
GPRS 2 Tx slots	24.05	24.23	24.36	24.50	18.05	18.23	18.36
GPRS 3 Tx slots	22.21	22.35	22.18	22.90	17.95	18.09	17.92
GPRS 4 Tx slots	21.23	21.21	21.31	21.50	18.23	18.21	18.31
EDGE 1 Tx slot	24.72	25.03	25.21	26.00	15.72	16.03	16.21
EDGE 2 Tx slots	23.57	23.94	24.02	24.50	17.57	17.94	18.02
EDGE 3 Tx slots	21.89	22.32	22.36	22.50	17.63	18.06	18.10
EDGE 4 Tx slots	20.01	20.45	20.43	21.50	17.01	17.45	17.43

ANT1		DSIS					
Band	WCDMA I			WCDMA V			
	9262	9400	9538	1413	4182	4233	
TX Channel	9262	9400	9538	Limit	1413	4182	4233
Rx Channel	9662	9800	9938	(dBm)	4357	4407	4458
Frequency (MHz)	1852.4	1880	1907.6		826.4	836.4	846.6
3GPP Rel 99	AMR 12.2Kbps	20.91	21.13	21.11	21.70	20.30	20.32
3GPP Rel 99	RMC 12.2Kbps	21.10	21.15	21.12	21.70	20.34	20.36
3GPP Rel 6	HSDPA Subtest-1	19.88	20.08	20.15	20.70	19.87	19.85
3GPP Rel 6	HSDPA Subtest-2	20.12	20.15	20.44	20.70	19.93	19.87
3GPP Rel 6	HSDPA Subtest-3	19.46	19.71	19.59	20.20	19.50	19.37
3GPP Rel 6	HSDPA Subtest-4	19.51	19.87	19.75	20.20	19.44	19.29
3GPP Rel 6	DC-HSDPA Subtest-1	19.98	20.37	20.19	20.70	19.72	19.88
3GPP Rel 6	DC-HSDPA Subtest-2	20.06	20.26	20.11	20.70	19.81	19.91
3GPP Rel 6	DC-HSDPA Subtest-3	19.50	19.67	19.73	20.20	19.44	19.35
3GPP Rel 6	DC-HSDPA Subtest-4	19.55	19.74	19.75	20.20	19.32	19.32
3GPP Rel 6	HSPA Subtest-1	19.97	20.34	20.31	20.70	19.79	19.93
3GPP Rel 6	HSPA Subtest-2	17.83	18.03	18.15	18.70	17.88	17.74
3GPP Rel 6	HSPA Subtest-3	18.94	19.25	19.18	19.70	18.95	18.80
3GPP Rel 6	HSPA Subtest-4	18.12	18.07	18.55	18.70	17.96	17.88
3GPP Rel 6	HSPA Subtest-5	19.94	20.35	20.19	20.70	19.83	19.80

ANT1		DSIS Simultaneous					
Band	WCDMA I			WCDMA V			
	9262	9400	9538	1413	4182	4233	
TX Channel	9262	9400	9538	Limit	1413	4182	4233
Rx Channel	9662	9800	9938	(dBm)	4357	4407	4458
Frequency (MHz)	1852.4	1880	1907.6		826.4	836.4	846.6
3GPP Rel 99	AMR 12.2Kbps	19.31	19.52	19.51	19.70	19.25	19.30
3GPP Rel 99	RMC 12.2Kbps	19.35	19.64	19.53	19.70	19.31	19.32
3GPP Rel 6	HSDPA Subtest-1	17.71	18.18	18.15	18.70	18.76	18.71
3GPP Rel 6	HSDPA Subtest-2	17.90	18.05	18.31	18.70	18.71	18.71
3GPP Rel 6	HSDPA Subtest-3	17.28	17.56	17.54	18.20	18.36	18.18
3GPP Rel 6	HSDPA Subtest-4	17.40	17.62	17.52	18.20	18.32	18.06
3GPP Rel 6	DC-HSDPA Subtest-1	17.80	18.26	17.96	18.70	18.58	18.74
3GPP Rel 6	DC-HSDPA Subtest-2	17.89	18.14	17.96	18.70	18.65	18.79
3GPP Rel 6	DC-HSDPA Subtest-3	17.36	17.45	17.51	18.20	18.25	18.13
3GPP Rel 6	DC-HSDPA Subtest-4	17.32	17.56	17.50	18.20	18.14	18.22
3GPP Rel 6	HSPA Subtest-1	17.76	18.20	18.10	18.70	18.69	18.71
3GPP Rel 6	HSPA Subtest-2	15.82	16.20	16.26	16.70	16.70	16.54
3GPP Rel 6	HSPA Subtest-3	16.74					



Band 2 Ant 1 DS13										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dBm)	MPR (dB)		
Channel				Ch. Freq	Ch. Freq	Ch. Freq	In-band			
Frequency (MHz)				18800	18900	19000	Interp	MPR	Interp	MPR
20	QPSK	1	0	20.58	20.61	20.41				
20	QPSK	1	49	20.33	20.47	20.41	21.9	0		
20	QPSK	50	0	20.46	20.54	20.47				
20	QPSK	50	24	20.49	20.48	20.51	21.9	0		
20	QPSK	100	0	20.32	20.48	20.46				
20	QPSK	100	0	20.36	20.56	20.59				
20	16QAM	1	49	20.56	20.37	20.49	21.9	0		
20	16QAM	1	99	20.56	20.37	20.49				
20	16QAM	50	0	20.51	20.23	20.29				
20	16QAM	50	24	20.52	20.38	20.44	21.9	0		
20	16QAM	50	50	20.55	20.60	20.55				
20	16QAM	100	0	20.45	20.54	20.57				
20	16QAM	100	0	20.52	20.58	20.40				
20	16QAM	1	49	20.46	20.47	20.53	21.9	0		
20	16QAM	1	99	20.53	20.52	20.47				
20	16QAM	50	24	19.50	19.58	19.80				
20	16QAM	50	24	19.59	19.59	19.72	21	0.9		
20	16QAM	100	0	19.49	19.86	19.82				
20	16QAM	100	0	19.07	19.91	19.90				
20	25QAM	1	49	17.89	18.14	18.17	19	2.9		
20	25QAM	1	99	17.89	18.29	17.96				
20	25QAM	50	0	18.26	18.16	18.08				
20	25QAM	50	24	18.24	18.15	17.92	19	2.9		
20	25QAM	50	50	18.10	18.14	17.97				
20	25QAM	100	0	18.26	18.21	18.04				
Channel				18872	18900	19015	Interp	MPR	Interp	MPR
Frequency (MHz)				18872	18900	19015	Interp	MPR	Interp	MPR
15	QPSK	1	0	20.33	20.38	20.38	21.9	0		
15	QPSK	1	37	20.17	20.38	20.32	21.9	0		
15	QPSK	1	74	20.04	20.29	20.05				
15	QPSK	36	0	20.39	20.28	20.41	21.9	0		
15	QPSK	36	20	20.39	20.29	20.29				
15	QPSK	36	36	20.08	20.32	20.22	21.9	0		
15	QPSK	75	0	20.33	20.43	20.35				
15	16QAM	1	37	20.06	20.26	20.20	21.9	0		
15	16QAM	1	37	20.33	20.05	20.34				
15	16QAM	1	74	20.44	20.17	20.37				
15	16QAM	50	0	20.16	20.16	20.05				
15	16QAM	50	20	20.14	20.31	20.29	21.9	0		
15	16QAM	50	39	20.36	20.36	20.46				
15	16QAM	25	0	20.44	20.44	20.38				
15	16QAM	1	0	20.34	20.42	20.40	21.9	0		
15	16QAM	1	37	20.35	20.29	20.43				
15	16QAM	1	74	20.46	20.28	20.38				
15	16QAM	36	0	19.54	19.62	19.74				
15	16QAM	36	20	19.52	19.49	19.53	21	0.9		
15	16QAM	36	36	19.49	19.52	19.58				
15	16QAM	75	0	19.41	19.53	19.41				
15	25QAM	1	0	18.08	18.19	18.00				
15	25QAM	1	37	17.88	18.16	18.18	19	2.9		
15	25QAM	1	74	17.88	18.31	17.97				
15	25QAM	36	0	18.22	18.20	17.99				
15	25QAM	36	20	18.23	18.16	17.91	19	2.9		
15	25QAM	36	39	18.19	18.16	17.98				
15	25QAM	75	0	18.30	18.20	17.81				
Channel				18860	18900	19150	Interp	MPR	Interp	MPR
Frequency (MHz)				18860	18900	19150	Interp	MPR	Interp	MPR
10	QPSK	1	0	20.47	20.41	20.30	21.9	0		
10	QPSK	1	25	20.23	20.34	20.29				
10	QPSK	1	49	20.03	20.30	20.20	21.9	0		
10	QPSK	25	0	20.36	20.35	20.41				
10	QPSK	25	12	20.29	20.29	20.27	21.9	0		
10	QPSK	25	25	20.17	20.32	20.21				
10	QPSK	50	0	20.36	20.32	20.39				
10	16QAM	1	0	19.97	20.34	20.05	21.9	0		
10	16QAM	25	0	20.06	20.06	20.06				
10	16QAM	1	49	20.43	20.25	20.27	21.9	0		
10	16QAM	25	0	20.11	20.09	20.09				
10	16QAM	25	0	20.21	20.08	20.02	21.9	0		
10	16QAM	25	25	20.42	20.54	20.40				
10	16QAM	50	0	20.33	20.40	20.39				
10	16QAM	1	0	20.42	20.36	20.37	21.9	0		
10	16QAM	1	25	20.36	20.37	20.37				
10	16QAM	1	49	20.38	20.46	20.37				
10	16QAM	25	0	19.47	19.81	19.73				
10	16QAM	25	0	19.41	19.45	19.73	21	0.9		
10	16QAM	25	25	19.32	19.59	19.73				
10	16QAM	50	0	19.44	19.68	19.60				
10	16QAM	50	0	19.30	19.31	19.21				
10	16QAM	50	25	19.56	19.15	19.08	19.9	1.9		
10	25QAM	1	25	17.88	18.18	18.17	19	1.9		
10	25QAM	1	49	17.88	18.31	17.94				
10	25QAM	1	74	17.88	18.39	17.94	19	1.9		
10	25QAM	36	0	18.26	18.13	17.90				
10	25QAM	36	20	18.27	18.17	17.85	19	1.9		
10	25QAM	75	0	18.29	18.19	17.85				
Channel				18850	18900	19115	Interp	MPR	Interp	MPR
Frequency (MHz)				18850	18900	19115	Interp	MPR	Interp	MPR
5	QPSK	1	0	19.43	19.61	19.26	20.9	0		
5	QPSK	1	12	19.52	19.51	19.21				
5	QPSK	1	24	19.41	19.50	19.19	20.9	0		
5	QPSK	12	0	19.54	19.51	19.42				
5	QPSK	12	7	19.43	19.29	19.38	20.9	0		
5	QPSK	12	13	19.40	19.25	19.34				
5	QPSK	25	0	19.32	19.33	19.49				
5	16QAM	1	0	19.39	19.45	19.52				
5	16QAM	1	12	19.49	19.37	19.28	20.9	0		
5	16QAM	1	24	19.63	19.34	19.23				
5	16QAM	12	0	19.27	19.34	19.47				
5	16QAM	12	7	19.35	19.44	19.31	20.9	0		
5	16QAM	12	13	19.49	19.47	19.45				
5	16QAM	25	0	19.41	19.40	19.52				
5	16QAM	1	0	19.35	19.40	19.54	20.9	0		
5	16QAM	1	12	19.32	19.41	19.40				
5	16QAM	1	24	19.38	19.52	19.40				
5	16QAM	12	0	19.14	19.52	19.38	20.9	0		
5	16QAM	12	7	19.27	19.30	19.58				
5	16QAM	12	13	19.35	19.22	19.51	20.9	0		
5	16QAM	25	0	19.25	19.45	19.40				
5	25QAM	1	0	18.06	18.19	18.03				
5	25QAM	1	12	18.05	18.16	18.04	19	1.9		
5	25QAM	1	24	18.05	18.37	18.01				
5	25QAM	12	0	18.20	18.31	17.94				
5	25QAM	12	7	18.23	18.17	17.98	19	1.9		
5	25QAM	12	13	18.27	18.15	17.90				
5	25QAM	25	0	18.11	18.13	18.11	19	1.9		
5	25QAM	25	0	18.31	18.18	17.85				
Channel				18815	18900	19185	Interp	MPR	Interp	MPR
Frequency (MHz)				18815	18900	19185	Interp	MPR	Interp	MPR
3	QPSK	1	0	19.44	19.65	19.38	20.9	0		
3	QPSK	1	8	19.39	19.48	19.58				
3	QPSK	1	16	19.38	19.61	19.51	20.9	0		
3	QPSK	8	0	19.32	19.56	19.43				
3	QPSK	8	4	19.33	19.32	19.41	20.9	0		
3	QPSK	15	0	19.21	19.21	19.21				
3	QPSK	15	0	19.29	19.56	19.54				
3	16QAM	1	0	19.37	19.47	19.49	20.9	0		
3	16QAM	1	8	19.26	19.62	19.49				
3	16QAM	1	14	19.62	19.33	19.32	20.9	0		
3	16QAM	8	0	19.40	19.35	19.54				
3	16QAM	8	4	19.23	19.48	19.49	20.9	0		
3	16QAM	8	7	19.40	19.51	19.56				
3	16QAM	15	0	19.48	19.45	19.54				
3	16QAM	1	0	19.41	19.34	19.44	20.9	0		
3	16QAM	1	8	19.26	19.42	19.41				
3	16QAM	1	14	19.31	19.53	19.54				
3	16QAM	8	0	19.14	19.38	19.44	20.9	0		
3	16QAM	8	2	19.31	19.24	19.51				
3	16QAM	8	7	19.39	19.18	19.38				
3	16QAM	15	0	19.20	19.37	19.40				
3	16QAM	1	0	19.24	19.18	19.52	20.9	0		
3	25QAM	1	8	17.88	18.14	18.16	19	1.9		
3	25QAM	1	14	17.89	18.30	17.95				
3	25QAM	1	28	18.25	18.17	18.02	19	1.9		
3	25QAM	8	4	18.24	18.13	17.91				
3	25QAM	8	7	18.09	18.18	17.80	19	1.9		
3	25QAM	15	0	18.26	18.26	17.91				
Channel				18807	18900	19193	Interp	MPR	Interp	



Band 4 Ant 1 DS13 Simultaneous													
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Frac.	Power Ch./Frac.	Power Ch./Frac.	Time-up [min]	MPR (dB)					
										2017.5	2017.5	2017.5	MPR (dB)
										2017.5	2017.5	2017.5	MPR (dB)
20	QPSK	1	0	20.45	20.45	20.45							
20	QPSK	1	49	20.45	20.45	20.45							
20	QPSK	50	0	20.45	20.45	20.45							
20	QPSK	50	24	20.45	20.45	20.45							
20	QPSK	100	0	20.45	20.45	20.45							
20	QPSK	100	24	20.45	20.45	20.45							
20	16QAM	1	0	20.45	20.45	20.47							
20	16QAM	1	49	20.47	20.47	20.49							
20	16QAM	50	0	20.34	20.31	20.32							
20	16QAM	50	24	20.38	20.38	20.39							
20	16QAM	50	50	20.29	20.45	20.21							
20	16QAM	100	0	20.30	20.43	20.43							
20	16QAM	100	24	20.40	20.33	20.39							
20	16QAM	100	49	20.49	20.43	20.25							
20	16QAM	1	99	20.27	20.28	20.29							
20	16QAM	50	24	19.54	19.49	19.42							
20	16QAM	50	50	19.63	19.53	19.41							
20	16QAM	100	0	19.90	19.43	19.37							
20	16QAM	100	0	19.87	19.81	19.41							
20	25QAM	1	49	18.90	18.49	18.33							
20	25QAM	1	99	18.47	18.37	18.34							
20	25QAM	50	0	18.48	18.38	18.34							
20	25QAM	50	24	18.41	18.29	18.36							
20	25QAM	50	50	18.33	18.36	18.27							
20	25QAM	100	0	18.29	18.25	18.30							
20	25QAM	100	0	18.29	18.25	18.30							
20	25QAM	100	24	18.29	18.25	18.30							
20	25QAM	100	49	18.29	18.25	18.30							
20	25QAM	100	99	18.29	18.25	18.30							
20	25QAM	1	0	18.54	18.49	18.41							
20	25QAM	1	49	18.48	18.35	18.38							
20	25QAM	50	0	18.42	18.27	18.26							
20	25QAM	50	24	18.39	18.29	18.34							
20	25QAM	50	50	18.35	18.35	18.28							
20	25QAM	100	0	18.47	18.37	18.38							
20	25QAM	100	0	18.47	18.37	18.38							
20	25QAM	100	24	18.47	18.37	18.38							
20	25QAM	100	49	18.47	18.37	18.38							
20	25QAM	100	99	18.47	18.37	18.38							
20	25QAM	1	0	18.54	18.50	18.38							
20	25QAM	1	49	18.48	18.35	18.38							
20	25QAM	50	0	18.42	18.27	18.26							
20	25QAM	50	24	18.39	18.29	18.34							
20	25QAM	50	50	18.35	18.35	18.28							
20	25QAM	100	0	18.47	18.37	18.38							
20	25QAM	100	0	18.47	18.37	18.38							
20	25QAM	100	24	18.47	18.37	18.38							
20	25QAM	100	49	18.47	18.37	18.38							
20	25QAM	100	99	18.47	18.37	18.38							
20	25QAM	1	0	18.54	18.50	18.38							
20	25QAM	1	49	18.48	18.35	18.38							
20	25QAM	50	0	18.42	18.27	18.26							
20	25QAM	50	24	18.39	18.29	18.34							
20	25QAM	50	50	18.35	18.35	18.28							
20	25QAM	100	0	18.47	18.37	18.38							
20	25QAM	100	0	18.47	18.37	18.38							
20	25QAM	100	24	18.47	18.37	18.38							
20	25QAM	100	49	18.47	18.37	18.38							
20	25QAM	100	99	18.47	18.37	18.38							
20	25QAM	1	0	18.54	18.50	18.38							
20	25QAM	1	49	18.48	18.35	18.38							
20	25QAM	50	0	18.42	18.27	18.26							
20	25QAM	50	24	18.39	18.29	18.34							
20	25QAM	50	50	18.35	18.35	18.28							
20	25QAM	100	0	18.47	18.37	18.38							
20	25QAM	100	0	18.47	18.37	18.38							
20	25QAM	100	24	18.47	18.37	18.38							
20	25QAM	100	49	18.47	18.37	18.38							
20	25QAM	100	99	18.47	18.37	18.38							
20	25QAM	1	0	18.54	18.50	18.38							
20	25QAM	1	49	18.48	18.35	18.38							
20	25QAM	50	0	18.42	18.27	18.26							
20	25QAM	50	24	18.39	18.29	18.34							
20	25QAM	50	50	18.35	18.35	18.28							
20	25QAM	100	0	18.47	18.37	18.38							
20	25QAM	100	0	18.47	18.37	18.38							
20	25QAM	100	24	18.47	18.37	18.38							
20	25QAM	100	49	18.47	18.37	18.38							
20	25QAM	100	99	18.47	18.37	18.38							
20	25QAM	1	0	18.54	18.50	18.38							
20	25QAM	1	49	18.48	18.35	18.38							
20	25QAM	50	0	18.42	18.27	18.26							
20	25QAM	50	24	18.39	18.29	18.34							
20	25QAM	50	50	18.35	18.35	18.28							
20	25QAM	100	0	18.47	18.37	18.38							
20	25QAM	100	0	18.47	18.37	18.38							
20	25QAM	100	24	18.47	18.37	18.38							
20	25QAM	100	49	18.47	18.37	18.38							
20	25QAM	100	99	18.47	18.37	18.38							
20	25QAM	1	0	18.54	18.50	18.38							
20	25QAM	1	49	18.48	18.35	18.38							
20	25QAM	50	0	18.42	18.27	18.26							
20	25QAM	50	24	18.39	18.29	18.34							
20	25QAM	50	50	18.35	18.35	18.28							
20	25QAM	100	0	18.47	18.37	18.38							
20	25QAM	100	0	18.47	18.37	18.38							
20	25QAM	100	24	18.47	18.37	18.38							
20	25QAM	100	49	18.47	18.37	18.38							
20	25QAM	100	99	18.47	18.37	18.38							
20	25QAM	1	0	18.54	18.50	18.38							
20	25QAM	1	49	18.48	18.35	18.38							
20	25QAM	50	0	18.42	18.27	18.26							
20	25QAM	50	24	18.39	18.29	18.34							
20	25QAM	50	50	18.35	18.35	18.28							
20	25QAM	100	0	18.47	18.37	18.38							
20	25QAM	100	0	18.47	18.37	18.38							
20	25QAM	100	24	18.47	18.37	18.38							
20	25QAM	100	49	18.47	18.37	18.38							
20	25QAM	100	99	18.47	18.37	18.38							

Band 5 Ant 1 DS13													
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Frac.	Power Ch./Frac.	Power Ch./Frac.	Time-up [min]	MPR (dB)					
										2017.5	2017.5	2017.5	MPR (dB)
										2017.5	2017.5	2017.5	MPR (dB)
10	QPSK	1	0	22.61	22.71	22.59							
10	QPSK	1	25	22.58	22.44	22.49							
10	QPSK	25	0	20.76	20.56	20.56							
10	QPSK	25	0	21.59	21.66	21.65							
10	QPSK	25	12	21.61	21.61	21.60							
10	QPSK	25	12	21.61	21.61	21.60							
10	QPSK	50	0	21.61	21.63	21.54							
10	16QAM	1	0	21.91	21.80	21.77							
10	16QAM	1	49	21.82	21.82	21.83							
10	16QAM	1	49	21.81	21.85	21.89							
10	16QAM	25	0	20.67	20.64	20.57							
10	16QAM	25	12	20.70	20.68	20.56							
10	16QAM	25	25	20.29	20.69	20.70							
10	16QAM	50	0	20.73	20.64	20.57							
10	16QAM	50	0	20.71	20.58	20.56							
10	16QAM	1	25	20.69	20.69	20.77							
10	16QAM	1	49	20.75	20.74	20.63							
10	16QAM	25	0	19.70	19.72	19.65							
10	16QAM	25	12	19.75	19.71	19.66							
10	16QAM	25	25	19.67	19.67	19.67							
10	16QAM	50	0	19.72	19.65	19.70							
10	16QAM	50	0	19.11	19.19	19.32							
10	16QAM	1	25	19.88	19.08	18.25							
10													



Band 5 Ant 2 DS13 Simultaneous for ENDC

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Power, Power, Tune-up, MPR. Contains multiple rows of frequency and power data for various channels.

Band 7 Ant 1 DS13

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Power, Power, Tune-up, MPR. Contains multiple rows of frequency and power data for various channels.

Band 7 Ant 1 DS13 Simultaneous

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Power, Power, Tune-up, MPR. Contains multiple rows of frequency and power data for various channels.

Band 7 Ant 2 DS13 for ENDC

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Power, Power, Tune-up, MPR. Contains multiple rows of frequency and power data for various channels.



Band 7 Ant 2 DS31 Simultaneous for ENDC

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Ch./F.Freq., Ch./F.Freq., Ch./F.Freq., Tune-up (MHz), MPR (dB). Rows include various modulation types (QPSK, 16QAM, 64QAM, 256QAM) and channel frequencies.

Band 12 Ant 1 DS31

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Ch./F.Freq., Ch./F.Freq., Ch./F.Freq., Tune-up (MHz), MPR (dB). Rows include various modulation types (QPSK, 16QAM, 64QAM, 256QAM) and channel frequencies.

Band 12 Ant 1 DS31 Simultaneous

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Ch./F.Freq., Ch./F.Freq., Ch./F.Freq., Tune-up (MHz), MPR (dB). Rows include various modulation types (QPSK, 16QAM, 64QAM, 256QAM) and channel frequencies.

Band 12 Ant 2 DS31 for ENDC

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Ch./F.Freq., Ch./F.Freq., Ch./F.Freq., Tune-up (MHz), MPR (dB). Rows include various modulation types (QPSK, 16QAM, 64QAM, 256QAM) and channel frequencies.



Band 13 Ant 1 DS13									
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dBm)	MPR (dB)	
Channel			Cl. / Freq.	Cl. / Freq.	Cl. / Freq.	Cl. / Freq.			
Frequency (MHz)			2330	2335	2340	2345			
10	QPSK	1	0	22.77					
10	QPSK	1	25	22.68			24	0	
10	QPSK	1	49	22.61					
10	QPSK	25	0	21.73					
10	QPSK	25	12	21.72			23	1	
10	QPSK	25	48	21.63					
10	QPSK	50	0	21.74					
10	16QAM	1	0	22.67			23	1	
10	16QAM	1	25	22.58					
10	16QAM	1	49	22.51					
10	16QAM	25	0	20.84					
10	16QAM	25	12	20.88					
10	16QAM	25	25	20.85			22	2	
10	16QAM	50	0	20.82					
10	16QAM	50	6	20.82					
10	84QAM	1	25	20.84			22	2	
10	84QAM	1	49	20.87					
10	84QAM	25	0	19.72					
10	84QAM	25	12	19.76			21	3	
10	84QAM	25	25	19.70					
10	84QAM	50	0	19.81					
10	256QAM	1	0	18.26			19	5	
10	256QAM	1	49	18.17					
10	256QAM	25	0	18.07					
10	256QAM	25	12	18.11			19	5	
10	256QAM	25	25	18.01					
10	256QAM	50	0	18.13					
Channel			2305	2310	2315	2320			
Frequency (MHz)			773	773	773	773	MPR (dB)		
5	QPSK	1	0	22.67	22.68	22.69	24	0	
5	QPSK	1	24	22.48	22.68	22.69			
5	QPSK	12	0	21.77	21.88	21.87			
5	QPSK	12	7	21.99	21.93	21.84	23	1	
5	QPSK	12	13	21.84	21.88	21.83			
5	QPSK	25	0	21.84	21.93	21.82			
5	16QAM	1	0	22.01	22.08	22.03	23	1	
5	16QAM	1	24	21.82	21.85	21.91			
5	16QAM	12	0	20.85	20.82	20.99			
5	16QAM	12	7	20.95	21.02	20.89	22	2	
5	16QAM	12	13	20.87	20.83	20.93			
5	16QAM	25	0	20.99	20.94	20.88			
5	84QAM	1	0	20.89	20.86	20.80			
5	84QAM	1	12	20.82	20.70	20.86	22	2	
5	84QAM	1	24	20.78	20.87	20.81			
5	84QAM	12	0	19.67	19.68	19.75			
5	84QAM	12	7	19.83	19.84	19.74	21	3	
5	84QAM	12	13	19.74	19.71	19.73			
5	84QAM	25	0	19.75	19.73	19.70			
5	256QAM	1	0	18.35	18.28	18.31			
5	256QAM	1	12	18.17	18.20	18.20	19	5	
5	256QAM	1	24	18.31	18.17	18.11			
5	256QAM	12	0	18.07	18.23	18.13			
5	256QAM	12	7	18.28	18.02	18.21	19	5	
5	256QAM	12	13	18.01	18.10	17.93			
5	256QAM	25	0	18.15	18.03	18.27			

Band 13 Ant 1 DS13 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dBm)	MPR (dB)	
Channel			Cl. / Freq.	Cl. / Freq.	Cl. / Freq.	Cl. / Freq.			
Frequency (MHz)			785	785	785	785			
10	QPSK	1	0	22.77					
10	QPSK	1	25	22.68			24	0	
10	QPSK	1	49	22.61					
10	QPSK	25	0	21.73					
10	QPSK	25	12	21.72			23	1	
10	QPSK	25	48	21.63					
10	QPSK	50	0	21.74					
10	16QAM	1	0	22.67			23	1	
10	16QAM	1	25	22.58					
10	16QAM	1	49	22.51					
10	16QAM	25	0	20.84					
10	16QAM	25	12	20.88					
10	16QAM	25	25	20.85			22	2	
10	16QAM	50	0	20.82					
10	16QAM	50	6	20.82					
10	84QAM	1	25	20.84			22	2	
10	84QAM	1	49	20.87					
10	84QAM	25	0	19.72					
10	84QAM	25	12	19.76			21	3	
10	84QAM	25	25	19.70					
10	84QAM	50	0	19.81					
10	256QAM	1	0	18.26			19	5	
10	256QAM	1	49	18.17					
10	256QAM	25	0	18.07					
10	256QAM	25	12	18.11			19	5	
10	256QAM	25	25	18.01					
10	256QAM	50	0	18.13					
Channel			2305	2310	2315	2320			
Frequency (MHz)			773	773	773	773	MPR (dB)		
5	QPSK	1	0	22.67	22.68	22.69	24	0	
5	QPSK	1	24	22.48	22.68	22.69			
5	QPSK	12	0	21.77	21.88	21.87			
5	QPSK	12	7	21.99	21.93	21.84	23	1	
5	QPSK	12	13	21.84	21.88	21.83			
5	QPSK	25	0	21.84	21.93	21.82			
5	16QAM	1	0	22.01	22.08	22.03	23	1	
5	16QAM	1	24	21.82	21.85	21.91			
5	16QAM	12	0	20.85	20.82	20.99			
5	16QAM	12	7	20.95	21.02	20.89	22	2	
5	16QAM	12	13	20.87	20.83	20.93			
5	16QAM	25	0	20.99	20.94	20.88			
5	84QAM	1	0	20.89	20.86	20.80			
5	84QAM	1	12	20.82	20.70	20.86	22	2	
5	84QAM	1	24	20.78	20.87	20.81			
5	84QAM	12	0	19.67	19.68	19.75			
5	84QAM	12	7	19.83	19.84	19.74	21	3	
5	84QAM	12	13	19.74	19.71	19.73			
5	84QAM	25	0	19.75	19.73	19.70			
5	256QAM	1	0	18.35	18.28	18.31			
5	256QAM	1	12	18.17	18.20	18.20	19	5	
5	256QAM	1	24	18.31	18.17	18.11			
5	256QAM	12	0	18.07	18.23	18.13			
5	256QAM	12	7	18.28	18.02	18.21	19	5	
5	256QAM	12	13	18.01	18.10	17.93			
5	256QAM	25	0	18.15	18.03	18.27			

Band 17 Ant 1 DS13									
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dBm)	MPR (dB)	
Channel			Cl. / Freq.	Cl. / Freq.	Cl. / Freq.	Cl. / Freq.			
Frequency (MHz)			2370	2370	2370	2370			
10	QPSK	1	0	22.82	22.84	22.83			
10	QPSK	1	25	22.73	22.83	22.81	24	0	
10	QPSK	1	49	22.64	22.66	22.65			
10	QPSK	25	0	21.92	21.96	21.92			
10	QPSK	25	12	21.92	21.91	21.95	23	1	
10	QPSK	25	48	21.87	21.85	21.83			
10	QPSK	50	0	21.91	21.92	21.87			
10	16QAM	1	0	22.32	22.27	22.25	23	1	
10	16QAM	1	25	22.23	22.13	22.16			
10	16QAM	1	49	21.97	22.15	22.04			
10	16QAM	25	0	20.98	21.08	21.05			
10	16QAM	25	12	20.97	20.96	20.90			
10	16QAM	25	25	20.89	20.95	20.85	22	2	
10	16QAM	50	0	21.03	20.88	20.82			
10	84QAM	1	0	21.12	21.18	21.16			
10	84QAM	1	25	20.94	21.02	21.09	22	2	
10	84QAM	1	49	20.88	20.88	21.07			
10	84QAM	25	0	19.86	19.89	19.87			
10	84QAM	25	12	20.00	19.98	19.90	21	3	
10	84QAM	25	25	19.82	19.92	19.85			
10	84QAM	50	0	20.02	19.98	19.98			
10	256QAM	1	0	18.48	18.56	18.50	19	5	
10	256QAM	1	25	18.46	18.58	18.39			
10	256QAM	1	49	18.57	18.52	18.53			
10	256QAM	25	0	18.38	18.42	18.35			
10	256QAM	25	12	18.33	18.45	18.24	19	5	
10	256QAM	25	25	18.41	18.49	18.48			
10	256QAM	50	0	18.33	18.39	18.25			
Channel			2370	2370	2370	2370			
Frequency (MHz)			711	711	711	711	MPR (dB)		
5	QPSK	1	0	22.84	22.84	22.83	24	0	
5	QPSK	1	24	22.76	22.82	22.84			
5	QPSK	12	0	21.96	21.88	21.88			
5	QPSK	12	7	21.99	22.02	21.97	23	1	
5	QPSK	12	13	21.91	21.90	21.95			
5	QPSK	25	0	22.02	21.96	21.90			
5	16QAM	1	0	22.08	22.14	22.03	23	1	
5	16QAM	1	24	22.10	22.12	22.20			
5	16QAM	12	0	21.09	21.01	21.02			
5	16QAM	12	7	21.05	20.98	20.95	22	2	
5	16QAM	12	13	20.90	20.86	21.01			
5	16QAM	25	0	20.97	20.95	20.93			
5	84QAM	1	0	21.07	21.07	21.09			
5	84QAM	1	12	20.99	21.08	20.96	22	2	
5	84QAM	1	24	21.06	21.06	20.93			
5	84QAM	12	0	20.05	19.98	20.07			
5	84QAM	12	7	20.03	19.93	19.95	21	3	
5	84QAM	12	13	19.98	20.00	19.95			
5	84QAM	25	0	20.08	19.98	19.93			
5	256QAM	1	0	18.54	18.57	18.55			
5	256QAM	1	12	18.43	18.53	18.53	19	5	
5									



Band 26 Ant 1 DS13											
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Frac	Power Ch./Frac	Power Ch./Frac	Turn-up (dBm)	MPR (dB)			
Channel 26976											
Frequency (MHz)											
18	QPSK	1	0	22.73	22.88	22.89					
15	QPSK	1	37	22.83	22.72	22.60			24	0	
15	QPSK	36	0	21.89	21.96	21.72					
15	QPSK	36	20	21.89	21.82	21.77					
15	QPSK	36	39	21.83	21.78	21.63			23	1	
15	QPSK	75	0	21.68	21.78	21.63					
15	16QAM	1	0	22.28	21.92	21.91					
15	16QAM	1	37	22.16	21.97	21.87			23	1	
15	16QAM	1	74	22.08	21.85	21.89					
15	16QAM	36	0	20.92	20.89	20.85					
15	16QAM	36	20	21.04	20.93	20.86					
15	16QAM	36	39	21.05	20.91	20.94			22	2	
15	16QAM	75	0	20.83	20.70	20.55					
15	16QAM	1	0	20.95	20.90	20.76					
15	16QAM	1	37	20.88	20.91	20.80			22	2	
15	16QAM	1	74	21.02	20.83	20.74					
15	16QAM	36	20	19.90	19.85	19.73					
15	16QAM	36	39	19.85	19.74	19.63			21	3	
15	16QAM	75	0	18.77	18.69	18.70					
15	256QAM	1	0	19.28	18.15	18.10					
15	256QAM	1	37	18.19	18.07	18.07			19	5	
15	256QAM	1	74	18.25	18.09	18.23					
15	256QAM	36	0	18.37	18.20	18.23					
15	256QAM	36	20	18.06	17.93	18.25			19	5	
15	256QAM	36	39	18.14	17.98	18.19					
15	256QAM	75	0	17.97	17.91	17.78					
Channel 26977											
Frequency (MHz)											
18	QPSK	1	0	22.73	22.88	22.89					
15	QPSK	1	26	22.92	22.58	22.53			24	0	
15	QPSK	1	46	22.80	22.54	22.51					
15	QPSK	25	0	21.68	21.61	21.61					
15	QPSK	25	12	21.76	21.69	21.63					
15	QPSK	25	26	21.75	21.67	21.56			23	1	
15	QPSK	50	0	21.71	21.71	21.52					
15	16QAM	1	0	22.04	21.90	21.90					
15	16QAM	1	26	21.95	21.95	21.79			23	1	
15	16QAM	1	46	21.83	21.89	21.78					
15	16QAM	25	0	20.83	20.87	20.87					
15	16QAM	25	12	20.76	20.72	20.86			22	2	
15	16QAM	25	26	20.77	20.68	20.62					
15	16QAM	50	0	20.84	20.64	20.64					
15	16QAM	1	0	21.08	20.83	20.87					
15	16QAM	1	26	20.85	20.85	20.83			22	2	
15	16QAM	1	46	20.83	20.83	20.83					
15	16QAM	25	0	19.83	19.78	19.66					
15	16QAM	25	12	19.83	19.71	19.71			21	3	
15	16QAM	25	26	19.82	19.67	19.66					
15	16QAM	50	0	19.82	19.67	19.66					
15	256QAM	1	0	18.24	18.07	18.12					
15	256QAM	1	26	18.07	17.82	18.15			19	5	
15	256QAM	1	46	18.35	17.90	18.26					
15	256QAM	25	0	18.96	17.83	18.23					
15	256QAM	25	12	17.93	17.92	18.27			19	5	
15	256QAM	25	26	18.14	17.92	18.08					
15	256QAM	50	0	17.99	17.81	17.78					
Channel 26978											
Frequency (MHz)											
18	QPSK	1	0	22.49	22.48	22.47					
5	QPSK	1	12	22.35	22.48	22.41			24	0	
5	QPSK	12	0	21.65	21.57	21.54					
5	QPSK	12	7	21.59	21.47	21.46					
5	QPSK	12	14	21.64	21.59	21.46			23	1	
5	16QAM	1	0	21.75	21.79	21.86					
5	16QAM	1	12	21.66	21.81	21.81			23	1	
5	16QAM	1	24	21.70	21.81	21.65					
5	16QAM	12	0	20.65	20.58	20.54					
5	16QAM	12	7	20.57	20.68	20.58					
5	16QAM	12	14	20.62	20.49	20.56			22	2	
5	16QAM	25	0	20.66	20.53	20.58					
5	16QAM	25	7	20.59	20.70	20.61					
5	16QAM	25	14	20.78	20.67	20.61			22	2	
5	16QAM	1	0	20.65	20.44	20.48					
5	16QAM	12	0	19.67	19.83	19.86					
5	16QAM	12	7	19.68	19.49	19.49			21	3	
5	16QAM	12	14	19.62	19.50	19.56					
5	16QAM	25	0	19.65	19.58	19.54					
5	16QAM	25	7	19.62	19.56	19.54					
5	256QAM	1	0	18.08	18.20	18.04			19	5	
5	256QAM	1	24	18.27	17.87	18.29					
5	256QAM	1	46	18.36	18.04	18.04					
5	256QAM	12	7	18.08	17.97	18.22			19	5	
5	256QAM	12	14	18.08	17.92	18.18					
5	256QAM	25	0	18.26	18.25	18.09					
Channel 26979											
Frequency (MHz)											
3	QPSK	1	0	22.50	22.42	22.46					
3	QPSK	1	14	22.40	22.43	22.26			24	0	
3	QPSK	8	0	21.68	21.61	21.58					
3	QPSK	8	7	21.65	21.53	21.44					
3	QPSK	8	14	21.64	21.50	21.60			23	1	
3	QPSK	15	0	21.66	21.63	21.53					
3	16QAM	1	0	21.81	21.81	21.68					
3	16QAM	1	8	21.85	21.84	21.76			23	1	
3	16QAM	1	14	21.73	21.77	21.62					
3	16QAM	8	0	20.71	20.68	20.61					
3	16QAM	8	4	20.53	20.62	20.52			22	2	
3	16QAM	8	7	20.66	20.45	20.61					
3	16QAM	8	14	20.70	20.67	20.61					
3	16QAM	1	0	20.65	20.78	20.55					
3	16QAM	1	8	20.77	20.69	20.68			22	2	
3	16QAM	1	14	20.60	20.45	20.46					
3	16QAM	8	0	19.72	19.69	19.64					
3	16QAM	8	4	19.68	19.58	19.49			21	3	
3	16QAM	8	7	19.65	19.55	19.54					
3	16QAM	15	0	19.73	19.54	19.64					
3	256QAM	1	0	18.15	18.15	18.09			19	5	
3	256QAM	1	8	18.24	18.16	18.04					
3	256QAM	1	14	18.18	18.08	18.31					
3	256QAM	8	0	18.15	18.14	18.06					
3	256QAM	8	4	17.99	17.81	18.13			19	5	
3	256QAM	8	7	18.12	17.90	18.11					
3	256QAM	15	0	17.88	17.81	17.73					
Channel 26980											
Frequency (MHz)											
1.4	QPSK	1	0	22.53	22.49	22.31					
1.4	QPSK	1	3	22.57	22.63	22.43					
1.4	QPSK	1	6	22.43	22.48	22.35			24	0	
1.4	QPSK	3	0	22.60	22.48	22.39					
1.4	QPSK	3	1	22.64	22.60	22.47					
1.4	QPSK	3	3	22.61	22.57	22.39					
1.4	QPSK	6	0	21.68	21.58	21.40			23	1	
1.4	16QAM	1	0	21.80	21.68	21.80					
1.4	16QAM	1	3	21.67	21.69	21.80					
1.4	16QAM	1	6	21.85	21.61	21.61			23	1	
1.4	16QAM	3	0	21.65	21.52	21.46					
1.4	16QAM	3	3	21.80	21.58	21.41					
1.4	16QAM	3	6	21.51	21.71	21.34					
1.4	16QAM	6	0	20.65	20.68	20.49			22</		



Band 38 Ant 1 DS13												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Turn-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	21.21	21.59	21.28	23.2	0				
20	QPSK	1	49	21.25	21.32	21.37						
20	QPSK	1	99	21.49	21.39	21.24	23	0.2				
20	QPSK	50	0	21.27	21.49	21.38						
20	QPSK	50	24	21.38	21.38	21.47	23	0.2				
20	QPSK	50	50	21.24	21.40	21.39						
20	QPSK	100	0	21.24	21.43	21.42	22	1.2				
20	16QAM	1	0	21.49	21.32	21.48						
20	16QAM	1	49	21.43	21.53	21.48	23	0.2				
20	16QAM	1	99	21.25	21.43	21.45						
20	16QAM	50	0	20.54	20.62	20.62	22	1.2				
20	16QAM	50	24	20.76	20.54	20.61						
20	16QAM	100	0	20.76	20.73	20.80	22	1.2				
20	64QAM	1	0	20.51	20.33	20.32						
20	64QAM	1	49	20.40	20.37	20.22	21	2.2				
20	64QAM	1	99	20.30	20.37	20.24						
20	64QAM	50	0	19.49	19.52	19.57	20	2.2				
20	64QAM	50	24	19.85	19.80	19.76						
20	64QAM	50	50	19.59	19.69	19.69	20	2.2				
20	64QAM	100	0	19.67	19.59	19.79						
20	256QAM	1	0	18.44	18.38	18.45	19	4.2				
20	256QAM	1	49	18.44	18.38	18.45						
20	256QAM	1	99	18.41	18.44	18.44	19	4.2				
20	256QAM	50	0	18.50	18.62	18.63						
20	256QAM	50	24	18.49	18.58	18.58	19	4.2				
20	256QAM	50	50	18.42	18.70	18.74						
20	256QAM	100	0	18.62	18.59	18.63						
Channel												
Frequency (MHz)												
15	QPSK	1	0	21.27	21.43	21.26	23.2	0				
15	QPSK	1	37	21.27	21.29	21.24						
15	QPSK	1	74	21.24	21.36	21.24	23	0.2				
15	QPSK	36	0	21.30	21.38	21.35						
15	QPSK	36	36	21.26	21.38	21.33	23	0.2				
15	QPSK	75	0	21.36	21.46	21.37						
15	16QAM	1	0	21.43	21.54	21.45	23	0.2				
15	16QAM	1	37	21.25	21.30	21.50						
15	16QAM	1	74	21.25	21.30	21.50	22	1.2				
15	16QAM	36	0	20.48	20.62	20.64						
15	16QAM	36	20	20.62	20.56	20.54	21	2.2				
15	16QAM	36	39	20.47	20.83	20.68						
15	16QAM	75	0	20.64	20.59	20.76	21	2.2				
15	64QAM	1	0	20.21	20.41	20.23						
15	64QAM	1	37	20.21	20.41	20.23	19	4.2				
15	64QAM	1	74	20.15	20.37	20.24						
15	64QAM	36	0	19.41	19.66	19.63	19	4.2				
15	64QAM	36	20	19.41	19.66	19.63						
15	64QAM	36	39	19.64	19.74	19.56	19	4.2				
15	64QAM	75	0	19.71	19.70	19.66						
15	256QAM	1	0	18.50	18.47	18.41	19	4.2				
15	256QAM	1	37	18.43	18.47	18.42						
15	256QAM	1	74	18.43	18.47	18.42	19	4.2				
15	256QAM	36	0	18.52	18.64	18.61						
15	256QAM	36	20	18.50	18.63	18.62	19	4.2				
15	256QAM	36	39	18.49	18.63	18.61						
15	256QAM	75	0	18.63	18.56	18.64						
Channel												
Frequency (MHz)												
10	QPSK	1	0	21.24	21.57	21.22	23.2	0				
10	QPSK	1	25	21.30	21.28	21.38						
10	QPSK	1	49	21.37	21.27	21.32	23	0.2				
10	QPSK	25	0	21.28	21.36	21.36						
10	QPSK	25	12	21.31	21.37	21.51	23	0.2				
10	QPSK	25	25	21.24	21.34	21.42						
10	QPSK	50	0	21.23	21.31	21.38	23	0.2				
10	16QAM	1	0	21.49	21.34	21.49						
10	16QAM	1	25	21.37	21.38	21.51	23	0.2				
10	16QAM	1	49	21.28	21.33	21.46						
10	16QAM	25	0	20.64	20.72	20.77	22	1.2				
10	16QAM	25	12	20.66	20.60	20.68						
10	16QAM	25	25	20.58	20.71	20.74	22	1.2				
10	16QAM	50	0	20.64	20.63	20.74						
10	64QAM	1	0	20.41	20.41	20.43	21	2.2				
10	64QAM	1	25	20.30	20.32	20.38						
10	64QAM	1	49	20.15	20.37	20.26	19	4.2				
10	64QAM	25	0	19.55	19.56	19.64						
10	64QAM	25	12	19.55	19.57	19.63	19	4.2				
10	64QAM	25	25	19.55	19.59	19.62						
10	64QAM	50	0	19.70	19.72	19.69	19	4.2				
10	256QAM	1	0	18.51	18.50	18.40						
10	256QAM	1	25	18.45	18.41	18.44	19	4.2				
10	256QAM	1	49	18.43	18.47	18.41						
10	256QAM	25	0	18.51	18.60	18.62	19	4.2				
10	256QAM	25	12	18.50	18.61	18.61						
10	256QAM	25	25	18.45	18.67	18.72	19	4.2				
10	256QAM	50	0	18.61	18.59	18.61						
Channel												
Frequency (MHz)												
5	QPSK	1	0	21.20	21.46	21.26	23.2	0				
5	QPSK	1	12	21.21	21.35	21.23						
5	QPSK	1	24	21.54	21.36	21.21	23	0.2				
5	QPSK	12	0	21.27	21.44	21.33						
5	QPSK	12	7	21.20	21.34	21.42	23	0.2				
5	QPSK	12	13	21.20	21.26	21.39						
5	QPSK	25	0	21.26	21.43	21.43	23	0.2				
5	16QAM	1	0	21.27	21.37	21.47						
5	16QAM	1	12	21.42	21.40	21.49	22	1.2				
5	16QAM	1	24	21.22	21.43	21.42						
5	16QAM	12	0	20.54	20.75	20.73	22	1.2				
5	16QAM	12	7	20.66	20.60	20.68						
5	16QAM	12	13	20.57	20.70	20.78	21	2.2				
5	16QAM	25	0	20.77	20.69	20.60						
5	64QAM	1	0	20.37	20.51	20.51	21	2.2				
5	64QAM	1	12	20.40	20.30	20.46						
5	64QAM	1	24	20.26	20.39	20.22	21	2.2				
5	64QAM	12	0	19.55	19.50	19.56						
5	64QAM	12	7	19.58	19.55	19.75	19	4.2				
5	64QAM	12	13	19.54	19.75	19.66						
5	64QAM	25	0	19.63	19.62	19.78	19	4.2				
5	256QAM	1	0	18.50	18.49	18.43						
5	256QAM	1	12	18.45	18.41	18.46	19	4.2				
5	256QAM	1	24	18.40	18.45	18.43						
5	256QAM	12	0	18.49	18.66	18.60	19	4.2				
5	256QAM	12	7	18.48	18.60	18.62						
5	256QAM	12	13	18.43	18.66	18.70	19	4.2				
5	256QAM	25	0	18.62	18.60	18.60						

Band 38 Ant 1 DS13 Simultaneous												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Turn-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	18.63	18.74	18.57	20.2	0				
20	QPSK	1	49	18.44	18.52	18.55						
20	QPSK	1	99	18.14	18.37	18.37	20.2	0				
20	QPSK	50	0	18.40	18.61	18.43						
20	QPSK	50	24	18.60	18.56	18.58	20.2	0				
20	QPSK	50	50	18.42	18.55	18.46						
20	16QAM	1	0	18.53	18.61	18.57	20.2	0				
20	16QAM	1	49	18.65	18.71	18.64						
20	16QAM	1	99	18.68	18.59	18.55	20.2	0				
20	16QAM	50	0	18.44	18.68	18.40						
20	16QAM	50	24	18.65	18.58	18.58	20.2	0				
20	16QAM	50	50	18.60	18.63	18.63						
20	16QAM	100	0	18.55	18.54	18.61	20.2	0				
20	64QAM	1	0	18.30	18.31	18.37						
20	64QAM	1	49	18.30	18.49	18.32	20.2	0				
20	64QAM	1	99	18.60	18.36	18.28						
20	64QAM	50	0	18.40	18.35	18.32	20.2	0				
20	64QAM	50	24	18.32								



Band 38 Ant 2 DS3 Simultaneous for ENDC														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)						
Channel														
Frequency (MHz)				3760	3800	3840								
20	QPSK	1	0	18.08	18.16	18.02	19.1	0						
20	QPSK	1	49	18.13	17.92	18.03								
20	QPSK	1	99	18.08	18.06	18.07								
20	QPSK	50	0	17.95	18.08	17.99								
20	QPSK	50	24	17.97	18.01	17.88	19.1	0						
20	QPSK	50	50	18.05	18.02	18.01								
20	QPSK	100	0	18.02	18.14	18.04								
20	16QAM	1	0	18.11	18.04	17.96								
20	16QAM	1	49	18.12	18.09	17.93	19.1	0						
20	16QAM	1	99	18.04	17.98	17.96								
20	16QAM	50	0	18.02	18.12	18.02								
20	16QAM	50	24	18.07	17.90	18.09								
20	16QAM	50	50	18.04	18.02	18.08	19.1	0						
20	16QAM	100	0	18.00	17.92	18.06								
20	16QAM	1	0	18.04	18.04	17.98								
20	16QAM	1	49	18.07	18.04	18.01								
20	16QAM	1	99	18.00	18.14	18.02	19.1	0						
20	16QAM	50	0	18.03	17.96	18.12								
20	16QAM	50	24	18.05	17.95	17.87								
20	16QAM	50	50	18.07	18.11	18.06								
20	16QAM	100	0	17.84	18.03	17.96	19.1	0						
20	256QAM	1	0	18.00	18.00	18.03								
20	256QAM	1	49	18.06	18.02	18.05								
20	256QAM	1	99	17.95	18.12	17.88								
20	256QAM	50	0	18.04	17.97	18.09	19	0.1						
20	256QAM	50	24	18.02	18.14	18.04								
20	256QAM	50	50	18.11	18.06	18.08								
20	256QAM	100	0	17.92	17.98	17.99								
Channel														
Frequency (MHz)				3765	3800	3835								
15	QPSK	1	0	18.11	18.11	18.04	19.1	0						
15	QPSK	1	37	18.14	17.92	17.88								
15	QPSK	1	74	18.04	18.09	18.10								
15	QPSK	36	0	18.08	18.02	18.03								
15	QPSK	36	20	17.96	18.00	17.92	19.1	0						
15	QPSK	36	39	18.01	18.06	18.02								
15	QPSK	75	0	18.13	18.12	18.06								
15	16QAM	1	0	18.08	18.02	17.94								
15	16QAM	1	37	18.12	18.14	17.90	19.1	0						
15	16QAM	1	74	18.06	18.01	17.93								
15	16QAM	36	0	18.04	18.03	18.03								
15	16QAM	36	20	18.11	17.91	18.11								
15	16QAM	36	39	18.02	18.06	18.12	19.1	0						
15	16QAM	75	0	18.03	17.89	18.06								
15	16QAM	75	0	18.02	18.06	18.06								
15	16QAM	1	37	18.09	18.02	18.06								
15	16QAM	1	74	18.00	18.13	18.05	19.1	0						
15	16QAM	36	0	18.01	17.92	18.11								
15	16QAM	36	20	18.03	17.96	17.86								
15	16QAM	36	39	18.08	18.15	18.07								
15	16QAM	75	0	17.95	18.05	17.88	19.1	0						
15	256QAM	1	0	18.07	18.05	17.98								
15	256QAM	1	37	18.02	17.90	17.94								
15	256QAM	1	74	18.01	18.05	18.00								
15	256QAM	36	0	18.02	17.99	18.19	19	0.1						
15	256QAM	36	20	18.01	17.96	17.89								
15	256QAM	36	39	18.03	18.13	18.05								
15	256QAM	75	0	17.88	18.05	17.93								
Channel														
Frequency (MHz)				3760	3800	3800								
10	QPSK	1	0	18.12	18.13	18.06	19.1	0						
10	QPSK	1	25	18.10	17.90	18.02								
10	QPSK	1	49	18.06	18.11	18.14								
10	QPSK	25	0	17.96	18.12	18.04								
10	QPSK	25	12	17.95	17.97	17.90	19.1	0						
10	QPSK	25	25	18.01	18.03	18.05								
10	QPSK	50	0	18.14	18.07	18.02								
10	16QAM	1	0	18.05	18.07	17.86								
10	16QAM	1	25	18.15	18.14	17.87	19.1	0						
10	16QAM	1	49	18.09	18.00	17.94								
10	16QAM	25	0	18.02	17.85	17.93								
10	16QAM	25	12	18.14	18.07	18.04								
10	16QAM	25	25	18.03	18.07	18.08	19.1	0						
10	16QAM	50	0	18.05	17.90	18.04								
10	16QAM	50	1	18.02	18.04	17.91								
10	16QAM	1	25	18.07	17.98	18.03								
10	16QAM	1	49	18.04	18.14	18.07	19.1	0						
10	16QAM	25	0	18.03	17.95	18.09								
10	16QAM	25	12	18.08	17.95	17.87								
10	16QAM	25	25	18.08	18.07	18.11								
10	256QAM	1	0	18.00	18.06	18.03	19.1	0						
10	256QAM	1	25	18.08	18.02	18.05								
10	256QAM	25	0	18.02	17.97	18.11								
10	256QAM	25	12	18.08	17.95	17.88								
10	256QAM	25	25	18.07	18.07	18.09	19	0.1						
10	256QAM	50	0	17.95	18.04	17.95								
Channel														
Frequency (MHz)				3775	3800	3825								
5	QPSK	1	0	18.07	18.15	18.02	19.1	0						
5	QPSK	1	12	18.08	17.95	17.95								
5	QPSK	1	24	18.08	18.07	18.09								
5	QPSK	12	0	17.96	18.06	17.99								
5	QPSK	12	7	18.05	17.99	17.89	19.1	0						
5	QPSK	12	13	18.04	18.08	18.01								
5	QPSK	25	0	18.07	18.07	17.99								
5	16QAM	1	0	18.05	18.00	17.97								
5	16QAM	1	12	18.09	18.09	17.92	19.1	0						
5	16QAM	1	24	18.04	18.01	17.90								
5	16QAM	12	0	18.04	17.89	17.91								
5	16QAM	12	7	18.02	18.03	18.11								
5	16QAM	25	0	18.07	17.92	18.03	19.1	0						
5	16QAM	1	0	18.02	18.01	17.96								
5	16QAM	12	13	18.13	18.11	18.06								
5	16QAM	1	24	17.98	18.12	18.07								
5	16QAM	12	0	18.03	17.94	18.08	19.1	0						
5	16QAM	12	7	18.04	17.96	17.88								
5	16QAM	12	13	18.13	18.11	18.06								
5	16QAM	25	0	17.88	18.02	18.01								
5	256QAM	1	0	18.08	18.06	17.96	19.1	0						
5	256QAM	1	12	18.06	18.08	17.99								
5	256QAM	12	0	18.00	17.96	18.08								
5	256QAM	12	7	18.06	17.93	17.85								
5	256QAM	12	13	18.00	18.12	18.05	19	0.1						
5	256QAM	25	0	17.93	17.90	17.91								

Band 41 Ant 1 DS3													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)					
Channel													
Frequency (MHz)				4060	4080	4090	4100						
20	QPSK	1	0	21.61	21.64	21.61	23.2	0					
20	QPSK	1	49	21.45	21.62	21.49			21.65				
20	QPSK	1	99	21.61	21.66	21.50			21.48				
20	QPSK	50	0	21.54	21.71	21.56			21.56				
20	QPSK	50	24	21.53	21.33	21.38	21.87	23	0.2				
20	QPSK	50	50	21.50	21.62	21.38	21.49						
20	QPSK	100	0	21.53	21.62	21.57	21.51						
20	16QAM	1	0	21.61	21.55	21.42	21.64						
20	16QAM	1	49	21.67	21.62	21.55	21.83	23	0.2				
20	16QAM	1	99	21.56	21.50	21.68	21.48						
20	16QAM	50	0	20.94	20.92	20.72	20.72						
20	16QAM	50	24	20.65	20.83	20.93	20.71						
20	16QAM	50	50	21.01	21.01	20.98	20.70	22	1.2				
20	16QAM	100	0	20.76	21.00	20.92	20.74						
20	16QAM	1	0	20.74	20.76	20.74	20.74						
20	16QAM	1	49	20.62	20.42	20.46	20.46						
20	16QAM	1	99	20.38	20.61	20.62	20.69	21	2.2				
20	16QAM	50	0	19.87	19.68	19.78	19.63						
20	16QAM	50	24	19.98	19.91	19.90	19.71						
20	16QAM	50	50	19.85	19.79	19.73	19.65						
20	16QAM	100	0	19.81	19.77	19.70	19.85	19	4.2				
20	256QAM	1	0	19.86	19								



Band 41 Ant 2 DSIS for ENDC										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Low Ch./Freq	Power Middle High Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)										
20	QPSK	1	0	20.49	20.51	20.45	20.44	21.1	0	
20	QPSK	1	49	20.36	20.35	20.31	20.33			
20	QPSK	1	99	20.42	20.44	20.41	20.47	21.1	0	
20	QPSK	50	0	20.39	20.41	20.40	20.39			
20	QPSK	50	24	20.41	20.36	20.38	20.34	21.1	0	
20	QPSK	50	50	20.34	20.39	20.40	20.37			
20	QPSK	100	0	20.42	20.45	20.41	20.43	21.1	0	
20	16QAM	1	0	20.39	20.37	20.40	20.41			
20	16QAM	1	49	20.39	20.38	20.33	20.32	21.1	0	
20	16QAM	1	99	20.35	20.36	20.38	20.32			
20	16QAM	50	0	20.29	20.29	20.29	20.31	21.1	0	
20	16QAM	50	24	20.37	20.35	20.33	20.36			
20	16QAM	50	50	20.32	20.34	20.37	20.38	21.1	0	
20	16QAM	100	0	20.40	20.37	20.36	20.32			
20	64QAM	1	49	20.42	20.44	20.39	20.40	21.1	0	
20	64QAM	1	99	20.44	20.45	20.43	20.46			
20	64QAM	50	0	20.34	20.36	20.30	20.32	21	0.1	
20	64QAM	50	24	20.31	20.34	20.35	20.38			
20	64QAM	50	50	20.34	20.33	20.38	20.37	21	0.1	
20	64QAM	100	0	20.36	20.38	20.42	20.40			
20	256QAM	1	0	17.82	17.83	17.74	17.80	19	2.1	
20	256QAM	1	49	17.83	18.03	17.85	17.84			
20	256QAM	1	99	17.84	17.84	17.81	17.82	19	2.1	
20	256QAM	50	0	18.40	18.35	18.38	18.38			
20	256QAM	50	24	18.28	18.23	18.21	18.21	19	2.1	
20	256QAM	50	50	18.24	18.36	18.22	18.28			
20	256QAM	100	0	18.28	18.38	18.32	18.37	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)										
15	QPSK	1	0	20.47	20.47	20.44	20.46	21.1	0	
15	QPSK	1	37	20.38	20.34	20.33	20.30			
15	QPSK	1	74	20.38	20.42	20.42	20.41	21.1	0	
15	QPSK	36	20	20.40	20.32	20.37	20.29			
15	QPSK	36	39	20.33	20.35	20.42	20.34	21.1	0	
15	QPSK	75	0	20.44	20.43	20.43	20.39			
15	16QAM	1	0	20.38	20.36	20.41	20.41	21.1	0	
15	16QAM	1	37	20.40	20.37	20.38	20.30			
15	16QAM	1	74	20.36	20.36	20.34	20.32	21.1	0	
15	16QAM	36	20	20.28	20.33	20.32	20.34			
15	16QAM	36	39	20.28	20.35	20.38	20.33	21.1	0	
15	16QAM	75	0	20.40	20.32	20.34	20.33			
15	64QAM	1	0	20.38	20.44	20.38	20.41	21.1	0	
15	64QAM	1	37	20.44	20.46	20.34	20.44			
15	64QAM	1	74	20.47	20.39	20.44	20.43	21	0.1	
15	64QAM	36	0	20.31	20.34	20.31	20.36			
15	64QAM	36	20	20.31	20.33	20.31	20.41	21	0.1	
15	64QAM	36	39	20.36	20.29	20.35	20.39			
15	64QAM	75	0	20.36	20.38	20.40	20.44	19	2.1	
15	256QAM	1	0	17.86	17.81	17.75	17.81			
15	256QAM	1	37	17.85	18.03	17.83	17.83	19	2.1	
15	256QAM	1	74	17.83	17.87	17.84	17.80			
15	256QAM	36	0	18.36	18.37	18.37	18.38	19	2.1	
15	256QAM	36	20	18.30	18.24	18.20	18.17			
15	256QAM	36	39	18.28	18.38	18.22	18.28	Tune-up limit (dBm)	MPR (dB)	
15	256QAM	75	0	18.27	18.39	18.38	18.41			
Channel Frequency (MHz)										
10	QPSK	1	0	20.36	20.44	20.43	20.41	21.1	0	
10	QPSK	1	25	20.34	20.34	20.34	20.35			
10	QPSK	1	49	20.42	20.40	20.41	20.46	21.1	0	
10	QPSK	25	0	20.36	20.36	20.33	20.32			
10	QPSK	12	0	20.41	20.35	20.35	20.31	21.1	0	
10	QPSK	25	25	20.35	20.34	20.47	20.34			
10	QPSK	50	0	20.48	20.47	20.42	20.43	21.1	0	
10	16QAM	1	0	20.40	20.39	20.40	20.45			
10	16QAM	1	25	20.36	20.35	20.41	20.28	21.1	0	
10	16QAM	1	49	20.35	20.34	20.33	20.27			
10	16QAM	25	0	20.29	20.30	20.27	20.25	21.1	0	
10	16QAM	25	12	20.41	20.38	20.43	20.31			
10	16QAM	25	25	20.28	20.32	20.43	20.31	21	0.1	
10	16QAM	50	0	20.40	20.34	20.31	20.36			
10	64QAM	1	0	20.35	20.42	20.39	20.37	21	0.1	
10	64QAM	1	25	20.41	20.45	20.31	20.43			
10	64QAM	1	49	20.44	20.39	20.41	20.40	21	0.1	
10	64QAM	25	0	20.29	20.37	20.28	20.39			
10	64QAM	25	12	20.34	20.35	20.34	20.44	19	2.1	
10	64QAM	25	25	20.35	20.30	20.32	20.40			
10	256QAM	1	0	17.84	17.85	17.70	17.80	19	2.1	
10	256QAM	1	25	17.84	18.05	17.86	17.81			
10	256QAM	1	49	17.84	17.85	17.77	17.87	19	2.1	
10	256QAM	25	0	18.39	18.32	18.37	18.40			
10	256QAM	25	12	18.28	18.35	18.22	18.22	19	2.1	
10	256QAM	25	25	18.27	18.33	18.18	18.28			
10	256QAM	50	0	18.25	18.40	18.35	18.38	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)										
5	QPSK	1	0	20.40	20.41	20.43	20.37	21.1	0	
5	QPSK	1	12	20.35	20.32	20.37	20.31			
5	QPSK	1	24	20.38	20.36	20.37	20.41	21.1	0	
5	QPSK	12	0	20.38	20.32	20.36	20.34			
5	QPSK	12	7	20.39	20.40	20.33	20.36	21.1	0	
5	QPSK	12	13	20.39	20.33	20.36	20.33			
5	QPSK	25	0	20.44	20.43	20.39	20.43	21.1	0	
5	16QAM	1	0	20.41	20.38	20.45	20.45			
5	16QAM	1	12	20.40	20.32	20.36	20.29	21.1	0	
5	16QAM	1	24	20.31	20.38	20.35	20.23			
5	16QAM	12	0	20.32	20.32	20.29	20.26	21.1	0	
5	16QAM	12	7	20.42	20.40	20.32	20.34			
5	16QAM	12	13	20.29	20.32	20.36	20.32	21.1	0	
5	16QAM	25	0	20.44	20.29	20.31	20.31			
5	64QAM	1	0	20.35	20.46	20.39	20.41	21	0.1	
5	64QAM	1	12	20.40	20.41	20.29	20.38			
5	64QAM	1	24	20.41	20.42	20.44	20.35	21	0.1	
5	64QAM	12	0	20.33	20.41	20.29	20.40			
5	64QAM	12	7	20.34	20.30	20.38	20.47	21	0.1	
5	64QAM	12	13	20.37	20.28	20.36	20.38			
5	64QAM	25	0	20.44	20.39	20.41	20.48	19	2.1	
5	256QAM	1	0	17.81	17.86	17.71	17.86			
5	256QAM	1	12	17.87	18.04	17.84	17.84	19	2.1	
5	256QAM	1	24	17.83	17.80	17.83	17.80			
5	256QAM	12	0	18.42	18.34	18.33	18.41	19	2.1	
5	256QAM	12	7	18.31	18.34	18.27	18.19			
5	256QAM	12	13	18.26	18.37	18.20	18.23	Tune-up limit (dBm)	MPR (dB)	
5	256QAM	25	0	18.24	18.41	18.31	18.33			

Band 41 Ant 2 DSIS Simultaneous for ENDC										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Low Ch./Freq	Power Middle High Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)										
20	QPSK	1	0	18.48	18.58	18.43	18.46	19.1	0	
20	QPSK	1	49	18.37	18.34	18.33	18.28			
20	QPSK	1	99	18.47	18.45	18.43	18.46	19.1	0	
20	QPSK	50	0	18.36	18.46	18.39	18.38			
20	QPSK	50	24	18.44	18.41	18.43	18.33	19.1	0	
20	QPSK	50	50	18.32	18.37	18.37	18.36			
20	16QAM	1	0	18.41	18.44	18.41	18.43	19.1	0	
20	16QAM	1	49	18.37	18.33	18.45	18.45			
20	16QAM	1	99	18.43	18.38	18.29	18.34	19.1	0	
20	16QAM	1	99	18.33	18.32	18.37	18.31			
20	16QAM	50	0	18.37	18.32	18.31	18.32			



Band 42 Ant 4 DS13									
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				42150	42990	42990			
Frequency (MHz)				3450	3500	3550			
20	QPSK	1	0	18.07	18.30	18.23	19.5	0	
20	QPSK	1	49	18.19	17.91	18.13			
20	QPSK	1	99	18.30	18.13	18.13			
20	QPSK	50	0	18.08	18.19	18.16	19.5	0	
20	QPSK	50	24	18.13	17.83	18.08			
20	QPSK	50	50	18.12	17.90	17.93			
20	QPSK	100	0	18.04	18.09	18.06	19.5	0	
20	16QAM	1	0	18.25	17.88	18.21			
20	16QAM	1	49	18.26	17.86	18.10			
20	16QAM	1	99	18.25	17.83	18.07	19.5	0	
20	16QAM	50	0	18.10	17.76	18.03			
20	16QAM	50	24	18.06	17.69	17.84			
20	16QAM	50	50	17.93	17.50	17.78	19.5	0	
20	16QAM	100	0	18.04	17.91	17.93			
20	16QAM	100	0	17.96	17.82	17.84			
20	64QAM	1	49	17.91	17.77	17.76	19.5	0	
20	64QAM	1	99	17.88	17.72	17.69			
20	64QAM	50	0	17.86	17.69	17.74			
20	64QAM	50	24	17.87	17.74	17.74	19.5	0	
20	64QAM	50	50	17.86	17.59	17.51			
20	64QAM	100	0	17.78	17.66	17.62			
20	256QAM	1	0	17.27	17.24	17.32	19	0.5	
20	256QAM	1	49	17.15	17.26	17.24			
20	256QAM	1	99	17.06	17.30	17.18			
20	256QAM	50	0	17.22	17.14	17.27	19	0.5	
20	256QAM	50	24	17.28	17.12	17.44			
20	256QAM	50	50	17.01	17.03	17.43			
20	256QAM	100	0	17.02	17.09	17.24			
Channel				42165	42990	43015			
Frequency (MHz)				3451.5	3500	3547.5			
15	QPSK	1	0	18.00	18.14	18.07	19.5	0	
15	QPSK	1	37	18.20	17.86	17.86			
15	QPSK	1	74	18.26	17.80	18.01			
15	QPSK	36	0	18.04	18.04	18.04	19.5	0	
15	QPSK	36	20	18.15	17.69	18.04			
15	QPSK	36	39	18.04	17.83	17.85			
15	QPSK	75	0	17.96	17.83	17.96	19.5	0	
15	16QAM	1	0	18.21	17.88	18.11			
15	16QAM	1	37	18.11	17.76	17.97			
15	16QAM	1	74	18.20	17.76	18.00	19.5	0	
15	16QAM	36	0	17.87	17.84	17.84			
15	16QAM	36	20	18.03	17.64	17.81			
15	16QAM	36	39	17.91	17.87	17.71	19.5	0	
15	16QAM	75	0	17.89	17.80	17.77			
15	64QAM	1	0	17.83	17.79	17.77			
15	64QAM	1	37	17.85	17.71	17.73	19.5	0	
15	64QAM	1	74	17.73	17.63	17.66			
15	64QAM	36	0	17.78	17.75	17.63			
15	64QAM	36	20	17.72	17.67	17.59	19.5	0	
15	64QAM	36	39	17.55	17.53	17.57			
15	64QAM	75	0	17.59	17.62	17.59			
15	256QAM	1	0	17.26	17.25	17.20	19	0.5	
15	256QAM	1	37	17.21	17.24	17.24			
15	256QAM	1	74	17.06	17.30	17.18			
15	256QAM	36	0	17.22	17.15	17.26	19	0.5	
15	256QAM	36	20	17.07	17.13	17.47			
15	256QAM	36	39	17.19	17.03	17.44			
15	256QAM	75	0	17.02	17.11	17.24			
Channel				42140	42990	43040			
Frequency (MHz)				3450	3500	3547.5			
10	QPSK	1	0	17.97	18.14	18.11	19.5	0	
10	QPSK	1	49	18.23	17.84	18.07			
10	QPSK	25	0	18.05	18.14	18.04			
10	QPSK	25	12	18.16	17.69	18.00	19.5	0	
10	QPSK	25	25	18.01	17.86	17.89			
10	QPSK	50	0	18.01	18.06	17.99			
10	16QAM	1	0	18.25	17.88	18.16	19.5	0	
10	16QAM	1	25	18.10	17.76	18.01			
10	16QAM	1	49	18.12	17.78	18.03			
10	16QAM	25	0	17.88	17.84	17.84	19.5	0	
10	16QAM	25	12	17.89	17.69	17.89			
10	16QAM	25	25	17.81	17.85	17.69			
10	16QAM	50	0	17.93	17.75	17.68	19.5	0	
10	64QAM	1	0	17.80	17.71	17.68			
10	64QAM	1	25	17.81	17.63	17.71			
10	64QAM	1	49	17.79	17.59	17.62	19.5	0	
10	64QAM	25	0	17.81	17.85	17.69			
10	64QAM	25	12	17.76	17.66	17.61			
10	64QAM	25	25	17.53	17.50	17.51	19.5	0	
10	64QAM	50	0	17.70	17.55	17.53			
10	256QAM	1	0	17.27	17.24	17.30			
10	256QAM	1	25	17.13	17.26	17.22	19	0.5	
10	256QAM	1	49	17.05	17.30	17.17			
10	256QAM	25	0	17.26	17.16	17.26			
10	256QAM	25	12	17.07	17.13	17.48	19	0.5	
10	256QAM	25	25	17.00	17.03	17.41			
10	256QAM	50	0	17.02	17.09	17.25			
Channel				42115	42990	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	17.99	18.19	18.17	19.5	0	
5	QPSK	1	12	18.13	17.79	17.98			
5	QPSK	1	24	18.20	17.84	18.04			
5	QPSK	12	0	17.92	18.17	18.00	19.5	0	
5	QPSK	12	7	18.20	17.77	17.97			
5	QPSK	12	13	17.97	17.83	17.79			
5	16QAM	1	0	18.01	18.01	17.93	19.5	0	
5	16QAM	1	0	18.25	17.84	18.14			
5	16QAM	1	12	18.20	17.88	18.06			
5	16QAM	1	24	18.09	17.91	17.99	19.5	0	
5	16QAM	12	0	17.94	17.61	18.00			
5	16QAM	12	7	17.94	17.85	17.91			
5	16QAM	12	13	17.86	17.83	17.71	19.5	0	
5	16QAM	25	0	17.94	17.80	17.78			
5	64QAM	1	0	17.82	17.79	17.68			
5	64QAM	1	12	17.82	17.69	17.64	19.5	0	
5	64QAM	1	24	17.79	17.58	17.59			
5	64QAM	12	0	17.81	17.78	17.75			
5	64QAM	12	7	17.83	17.68	17.64	19.5	0	
5	64QAM	12	13	17.83	17.85	17.54			
5	64QAM	25	0	17.74	17.52	17.67			
5	256QAM	1	0	17.25	17.26	17.29	19	0.5	
5	256QAM	1	12	17.15	17.23	17.25			
5	256QAM	1	24	17.06	17.29	17.17			
5	256QAM	12	0	17.26	17.16	17.26	19	0.5	
5	256QAM	12	7	17.06	17.13	17.47			
5	256QAM	12	13	17.01	17.04	17.40			
5	256QAM	25	0	17.00	17.11	17.26			

Band 42 Ant 4 DS13 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				42160	42990	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	17.50	17.63	17.48	18.5	0	
20	QPSK	1	49	17.33	17.30	17.29			
20	QPSK	1	99	17.15	17.30	17.34			
20	QPSK	50	0	17.28	17.38	17.21	18.5	0	
20	QPSK	50	24	17.35	17.37	17.18			
20	QPSK	50	50	17.22	17.19	17.34			
20	QPSK	100	0	17.23	17.36	17.24	18.5	0	
20	16QAM	1	0	17.24	17.26	17.21			
20	16QAM	1	49	17.25	17.18	17.26			
20	16QAM	1	99	17.24	17.15	17.26	18.5	0	
20	16QAM	50	0	17.22	17.07	17.26			
20	16QAM	50	24	17.13	17.16	17.33			
20	16QAM	50	50	17.23	17.25	17.11	18.5	0	
20	16QAM	100	0	17.24	17.31	17.28			
20	16QAM	100	0	17.22	17.31	17.20			
20	64QAM	1	49	17.25	17.37	17.16	18.5	0	
20	64QAM	1	99	17.17	17.30	17.26			
20	64QAM	50	0	17.27	17.26	17.20			
20	64QAM	50	24	17.31	17.33	17.06	18.5	0	
20	64QAM	50	50	16.88	16.92	16.85			
20	64QAM	100	0	17.29	17.07	17.17			
20	256QAM	1	0	17.34	17.21	17.24	18.5	0	
20	256QAM	1	49	17.21	17.23	17.25			
20	256QAM	1	99	17.14	17.26	17.21			
20	256QAM	50	0	17.31	17.24	17.21	18.5	0	
20	256QAM	50	24	17.26	17.31	17.25			
20	256QAM	50	5						



ANT1		DS16					
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)		
	128	189	251		128	189	251
TX Channel	512	651	810	512	651	810	512
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1850.2
GSM 1 Tx slot	31.86	31.94	31.75	33.50	22.86	22.94	22.75
GPRS 1 Tx slot	31.85	31.93	31.73	33.50	22.85	22.93	22.73
GPRS 2 Tx slots	30.18	30.51	30.20	32.00	24.18	24.51	24.20
GPRS 3 Tx slots	28.80	28.78	28.63	30.00	24.54	24.52	24.37
GPRS 4 Tx slots	26.41	26.61	26.57	28.00	23.41	23.61	23.57
EDGE 1 Tx slot	24.78	25.07	25.01	26.00	15.78	16.07	16.01
EDGE 2 Tx slots	23.34	23.73	23.61	24.50	17.34	17.73	17.61
EDGE 3 Tx slots	21.40	21.63	21.80	22.50	17.14	17.37	17.54
EDGE 4 Tx slots	19.54	19.72	19.74	21.00	16.54	16.72	16.74

ANT1		DS16					
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)		
	512	651	810		512	651	810
TX Channel	1850.2	1880	1909.8	1850.2	1880	1909.8	1850.2
Frequency (MHz)	28.77	29.20	29.17	29.50	19.77	20.20	20.17
GSM 1 Tx slot	28.88	29.17	29.21	29.50	19.88	20.17	20.21
GPRS 1 Tx slot	25.85	26.17	26.01	26.50	19.85	20.17	20.01
GPRS 2 Tx slots	23.87	23.96	23.83	25.30	19.61	19.70	19.57
GPRS 3 Tx slots	22.47	22.72	22.59	23.30	19.47	19.72	19.59
GPRS 4 Tx slots	24.72	25.03	25.21	26.50	15.72	16.03	16.21
EDGE 1 Tx slot	23.57	23.94	24.02	25.00	17.57	17.94	18.02
EDGE 2 Tx slots	21.89	22.32	22.36	23.50	17.63	18.06	18.10
EDGE 3 Tx slots	20.01	20.45	20.43	21.50	17.01	17.45	17.43
EDGE 4 Tx slots							

ANT1		DS16					
Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV		
	9262	9400	9538		1312	1443	1513
TX Channel	6662	6800	6938	1537	1638	1739	4367
Rx Channel	1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4
Frequency (MHz)	22.07	22.10	22.05	23.20	22.75	22.79	22.63
3GPP Rel 99 AMR 12.2Kbps	22.09	22.11	22.07	23.20	22.79	22.81	22.66
3GPP Rel 99 RMC 12.2Kbps	20.83	21.12	21.25	22.20	22.24	22.25	22.16
3GPP Rel 6 HSDPA Subtest-1	20.90	21.11	21.23	22.20	22.26	22.22	22.12
3GPP Rel 6 HSDPA Subtest-2	20.39	20.65	20.81	21.70	21.77	21.78	21.64
3GPP Rel 6 HSDPA Subtest-3	20.42	20.57	20.74	21.70	21.77	21.74	21.62
3GPP Rel 6 HSDPA Subtest-4	20.88	21.13	21.17	22.20	22.16	22.19	22.12
3GPP Rel 6 DC-HSDPA Subtest-1	20.83	20.98	21.16	22.20	22.18	22.18	22.00
3GPP Rel 6 DC-HSDPA Subtest-2	20.37	20.63	20.76	21.70	21.71	21.75	21.57
3GPP Rel 6 DC-HSDPA Subtest-3	20.21	20.48	20.67	21.70	21.73	21.81	21.50
3GPP Rel 6 DC-HSDPA Subtest-4	20.82	21.16	21.18	22.20	22.23	22.21	22.12
3GPP Rel 6 HSUPA Subtest-1	19.93	19.00	19.12	20.20	20.18	20.15	20.12
3GPP Rel 6 HSUPA Subtest-2	19.92	20.11	20.25	21.20	21.27	21.23	21.12
3GPP Rel 6 HSUPA Subtest-3	18.81	19.06	19.22	20.20	20.31	20.22	20.13
3GPP Rel 6 HSUPA Subtest-4	20.83	21.13	21.05	22.20	22.20	22.20	22.10
3GPP Rel 6 HSUPA Subtest-5							

ANT1		DS16 Simultaneous					
Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV		
	9262	9400	9538		1312	1443	1513
TX Channel	6662	6800	6938	1537	1638	1739	4367
Rx Channel	1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4
Frequency (MHz)	21.62	21.70	21.63	22.70	22.11	22.14	22.08
3GPP Rel 99 AMR 12.2Kbps	21.63	21.71	21.65	22.70	22.26	22.31	22.07
3GPP Rel 99 RMC 12.2Kbps	20.35	20.85	20.83	21.70	21.96	21.86	21.75
3GPP Rel 6 HSDPA Subtest-1	20.66	20.97	20.83	21.70	21.90	21.73	21.77
3GPP Rel 6 HSDPA Subtest-2	20.16	20.38	20.36	21.20	21.30	21.29	21.34
3GPP Rel 6 HSDPA Subtest-3	20.13	20.03	20.26	21.20	21.31	21.20	21.07
3GPP Rel 6 HSDPA Subtest-4	20.45	20.88	20.91	21.70	21.71	21.74	21.61
3GPP Rel 6 DC-HSDPA Subtest-1	20.66	20.72	20.71	21.70	21.63	21.76	21.67
3GPP Rel 6 DC-HSDPA Subtest-2	20.10	20.36	20.35	21.20	21.27	21.38	21.28
3GPP Rel 6 DC-HSDPA Subtest-3	19.93	20.10	20.41	21.20	21.26	21.17	21.00
3GPP Rel 6 DC-HSDPA Subtest-4	20.46	20.73	20.81	21.70	21.70	21.91	21.71
3GPP Rel 6 HSUPA Subtest-1	18.50	18.60	18.77	19.70	19.87	19.76	19.82
3GPP Rel 6 HSUPA Subtest-2	19.64	19.76	19.79	20.70	20.80	20.76	20.80
3GPP Rel 6 HSUPA Subtest-3	18.50	18.83	18.94	19.70	19.93	19.79	19.62
3GPP Rel 6 HSUPA Subtest-4	20.60	20.86	20.77	21.70	21.69	21.67	21.71
3GPP Rel 6 HSUPA Subtest-5							

ANT1		DS16 Simultaneous					
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)		
	512	651	810		512	651	810
TX Channel	1850.2	1880	1909.8	1850.2	1880	1909.8	1850.2
Frequency (MHz)	27.96	28.38	28.38	29.00	18.96	19.38	19.38
GSM 1 Tx slot	27.89	28.34	28.21	29.00	18.89	19.34	19.21
GPRS 1 Tx slot	25.69	25.81	25.96	26.00	19.69	19.81	19.96
GPRS 2 Tx slots	23.74	23.81	24.06	24.80	19.48	19.55	19.80
GPRS 3 Tx slots	22.07	22.35	22.51	22.80	19.07	19.35	19.51
GPRS 4 Tx slots	24.78	25.07	25.01	26.00	15.78	16.07	16.01
EDGE 1 Tx slot	23.34	23.73	23.61	24.50	17.34	17.73	17.61
EDGE 2 Tx slots	21.40	21.63	21.80	22.50	17.14	17.37	17.54
EDGE 3 Tx slots	19.54	19.72	19.74	21.00	16.54	16.72	16.74
EDGE 4 Tx slots							



Band 2 Ant 1 DS16										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dBm)	MPR (dB)		
Channel				1860	1880	1900				
Frequency (MHz)	Ch	F/Freq	Ch/Freq	Ch/Freq	Ch/Freq	Ch/Freq				
20	QPSK	1	0	22.40	22.60	22.42				
20	QPSK	1	49	22.13	22.44	22.24				
20	QPSK	50	0	21.76	21.88	21.87			23.5	0
20	QPSK	50	24	21.61	21.67	21.79				
20	QPSK	100	0	21.60	21.60	21.60			23	0.5
20	QPSK	100	0	21.67	21.64	21.62				
20	16QAM	1	0	22.12	22.21	21.62				
20	16QAM	1	49	21.96	19.90	22.24			23	0.5
20	16QAM	1	99	21.99	22.18	22.17				
20	16QAM	50	0	20.42	20.77	20.63				
20	16QAM	50	24	20.70	20.99	20.89			22	1.5
20	16QAM	50	50	20.45	20.73	20.88				
20	16QAM	100	0	20.71	20.82	20.72				
20	16QAM	100	0	20.70	20.99	20.95				
20	16QAM	1	49	20.45	20.53	20.89			22	1.5
20	16QAM	1	99	20.51	20.76	20.41				
20	16QAM	50	24	19.56	19.85	19.88				
20	16QAM	50	50	19.41	19.69	19.76			21	2.5
20	16QAM	100	0	19.63	19.72	19.68				
20	16QAM	100	0	19.65	19.90	19.90				
20	256QAM	1	49	17.87	18.14	18.16			19	4.5
20	256QAM	1	99	17.90	18.29	17.96				
20	256QAM	50	0	18.27	18.17	18.21				
20	256QAM	50	24	18.23	18.13	17.93			19	4.5
20	256QAM	50	50	18.18	18.18	17.99				
20	256QAM	100	0	18.29	18.29	18.29				
Channel				1867	1890	1915				
Frequency (MHz)	Ch	F/Freq	Ch/Freq	Ch/Freq	Ch/Freq	Ch/Freq				
15	QPSK	1	0	22.17	22.18	22.18				
15	QPSK	1	37	21.99	22.24	22.15			23.5	0
15	QPSK	1	74	22.08	22.20	21.98				
15	QPSK	36	0	21.64	21.63	21.74				
15	QPSK	36	25	21.54	21.43	21.74			23	0.5
15	QPSK	36	39	21.43	21.67	21.68				
15	QPSK	75	0	21.46	21.84	21.88				
15	16QAM	1	0	22.02	22.10	21.72				
15	16QAM	1	37	21.84	22.08	22.11			23	0.5
15	16QAM	1	74	21.82	22.00	22.07				
15	16QAM	36	0	20.21	20.87	20.86				
15	16QAM	36	25	20.28	20.44	20.48			22	1.5
15	16QAM	36	39	20.35	20.53	20.48				
15	16QAM	75	0	20.62	20.34	20.48				
15	16QAM	1	37	20.26	20.40	20.55			22	1.5
15	16QAM	1	74	20.39	20.39	20.41				
15	16QAM	36	0	19.53	19.53	19.66				
15	16QAM	36	25	19.33	19.67	19.63			21	2.5
15	16QAM	36	39	19.27	19.67	19.71				
15	16QAM	75	0	19.52	19.57	19.33				
15	256QAM	1	0	18.05	18.15	18.01				
15	256QAM	1	37	17.87	18.29	18.18			19	4.5
15	256QAM	1	74	17.92	18.29	17.97				
15	256QAM	36	0	18.24	18.19	18.00				
15	256QAM	36	25	18.25	18.16	17.92			19	4.5
15	256QAM	36	39	18.11	18.11	17.97				
15	256QAM	75	0	18.29	18.21	17.81				
Channel				1860	1890	1910				
Frequency (MHz)	Ch	F/Freq	Ch/Freq	Ch/Freq	Ch/Freq	Ch/Freq				
10	QPSK	1	0	22.26	22.20	22.32				
10	QPSK	1	25	21.90	22.29	22.17			23.5	0
10	QPSK	1	49	22.13	22.22	22.10				
10	QPSK	25	0	21.66	21.71	21.79				
10	QPSK	25	12	21.47	21.67	21.63			23	0.5
10	QPSK	50	0	21.46	21.46	21.46				
10	QPSK	50	0	21.52	21.55	21.75				
10	16QAM	1	0	22.02	22.07	21.71				
10	16QAM	1	49	21.71	21.99	22.08			23	0.5
10	16QAM	1	49	21.74	22.10	22.09				
10	16QAM	25	0	20.30	20.59	20.52				
10	16QAM	25	12	20.36	20.50	20.54			22	1.5
10	16QAM	25	25	20.35	20.57	20.77				
10	16QAM	50	0	20.58	20.60	20.54				
10	16QAM	50	0	20.59	20.60	20.61				
10	16QAM	1	49	20.34	20.45	20.53			22	1.5
10	16QAM	1	49	20.38	20.69	20.67				
10	16QAM	1	25	20.30	20.37	20.43			22	1.5
10	16QAM	1	49	20.43	20.73	20.43				
10	16QAM	25	0	19.42	19.69	19.67				
10	16QAM	25	12	19.49	19.29	19.50			21	2.5
10	16QAM	25	25	19.42	19.32	19.47				
10	16QAM	50	0	19.57	19.52	19.24				
10	16QAM	50	0	19.57	19.68	19.24			19	4.5
10	256QAM	1	25	17.88	18.16	18.16				
10	256QAM	1	49	17.91	18.31	17.95				
10	256QAM	1	99	18.26	18.26	18.26				
10	256QAM	25	12	18.23	18.15	17.92			19	4.5
10	256QAM	25	25	18.08	18.14	18.00				
10	256QAM	50	0	18.25	18.25	18.25				
Channel				1865	1890	1915				
Frequency (MHz)	Ch	F/Freq	Ch/Freq	Ch/Freq	Ch/Freq	Ch/Freq				
5	QPSK	1	0	21.79	21.94	21.86				
5	QPSK	1	12	21.71	21.83	21.81			23	0
5	QPSK	1	24	21.93	21.89	21.80				
5	QPSK	12	0	21.66	21.73	21.81				
5	QPSK	12	7	21.44	21.29	21.56			23	0
5	QPSK	12	13	21.25	21.55	21.68				
5	QPSK	25	0	21.61	21.62	21.62				
5	QPSK	25	0	21.73	21.69	21.69				
5	16QAM	1	12	21.81	21.98	21.88			23	0
5	16QAM	1	24	21.70	21.91	21.87				
5	16QAM	1	24	20.49	20.42	20.49				
5	16QAM	12	7	20.35	20.55	20.67			22	1
5	16QAM	12	13	20.61	20.52	20.74				
5	16QAM	25	0	20.53	20.76	20.67				
5	16QAM	1	0	20.59	20.32	20.38			22	1
5	16QAM	1	12	20.23	20.45	20.55				
5	16QAM	12	4	19.58	19.63	19.58				
5	16QAM	12	7	19.63	19.67	19.75			21	2
5	16QAM	12	13	19.63	19.68	19.75				
5	16QAM	25	0	19.44	19.48	19.50				
5	256QAM	1	0	18.08	18.16	18.04				
5	256QAM	1	12	17.88	18.14	18.17			19	4
5	256QAM	1	24	17.89	18.20	17.96				
5	256QAM	12	0	18.23	18.17	18.01				
5	256QAM	12	7	18.24	18.13	17.91			19	4
5	256QAM	12	13	18.09	18.14	17.99				
5	256QAM	25	0	18.29	18.19	17.81				
Channel				18615	18900	19185				
Frequency (MHz)	Ch	F/Freq	Ch/Freq	Ch/Freq	Ch/Freq	Ch/Freq				
3	QPSK	1	0	21.80	21.92	21.78				
3	QPSK	1	8	21.53	21.95	21.87			23	0
3	QPSK	8	0	21.62	21.69	21.81				
3	QPSK	8	0	21.52	21.72	21.54				
3	QPSK	8	4	21.41	21.43	21.56			23	0
3	QPSK	15	0	21.67	21.66	21.67				
3	QPSK	15	0	21.45	21.73	21.67				
3	16QAM	1	0	21.88	22.03	21.81				
3	16QAM	1	8	21.62	21.92	21.82			23	0.5
3	16QAM	1	14	21.69	21.80	21.93				
3	16QAM	8	0	20.38	20.48	20.63				
3	16QAM	8	0	20.36	20.59	20.61			22	1
3	16QAM	8	7	20.43	20.71	20.76				
3	16QAM	15	0	20.45	20.50	20.69				
3	16QAM	1	0	20.61	20.68	20.41			22	1
3	16QAM	1	8	20.30	20.45	20.49				
3	16QAM	1	14	20.29	20.71	20.62				
3	16QAM	8	0	19.60	19.77	19.79				
3	16QAM	8	2	19.69	19.68	19.64				
3	16QAM	8	7	19.43	19.30	19.48			21	2
3	16QAM	15	0	19.58	19.58	19.40				
3	16QAM	15	0	19.58	19.19	18.08			19	4.5
3	256QAM	1	8	17.88	18.17	18.17				
3	256QAM	1	14	17.90	18.30	17.95				
3	256QAM	8	0	18.25	18.17	18.01				
3	256QAM	8	4	18.27	18.13	17.92			19	4.5
3	256QAM	8	7	18.09	18.16	17.91				
3	256QAM	15	0	18.07	18.16	17.92				
Channel				18607	18900	19183				
Frequency (MHz)	Ch	F/Freq	Ch/Freq	Ch/Freq	Ch/Freq	Ch/Freq				
1.4	QPSK	1	0	21.65	21.94	21.86				
1.4	QPSK	1								



Band 4 Ant 1 DS16 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Power (W)	Turn-up (dBm)	MPR (dB)	
Channel				Ch. 1/Freq. (MHz)	Ch. 2/Freq. (MHz)	Ch. 3/Freq. (MHz)	Ch. 4/Freq. (MHz)	Turn-up (dBm)	MPR (dB)	
Frequency (MHz)				20690	20715	20800	20825			
20	QPSK	1	0	22.12	22.21	22.02				
20	QPSK	1	49	21.90	22.12	21.97			23	0
20	QPSK	1	49	21.94	21.99	21.96				
20	QPSK	50	0	21.67	21.72	21.42				
20	QPSK	50	24	21.95	21.95	21.49			23	0
20	QPSK	100	0	21.52	21.58	21.45				
20	16QAM	1	0	22.01	21.91	21.81				
20	16QAM	1	49	21.81	21.81	21.81			23	0
20	16QAM	1	59	21.80	21.81	21.66				
20	16QAM	50	0	20.70	20.67	20.65				
20	16QAM	50	24	20.75	20.68	20.57				
20	16QAM	50	50	20.65	20.64	20.40			22	1
20	16QAM	100	0	20.77	20.74	20.41				
20	16QAM	100	24	20.65	20.65	20.62				
20	16QAM	100	49	20.59	20.54	20.78			22	1
20	16QAM	100	74	20.91	20.48	20.66				
20	16QAM	50	0	19.64	19.40	19.62				
20	16QAM	50	24	19.65	19.36	19.62			21	2
20	16QAM	50	50	19.62	19.33	19.37				
20	16QAM	100	0	19.38	19.38	19.41				
20	16QAM	100	24	19.39	19.25	19.41				
20	16QAM	100	49	18.49	18.46	18.31			19	4
20	16QAM	100	74	18.48	18.35	18.41				
20	16QAM	50	0	18.44	18.26	18.38				
20	16QAM	50	24	18.40	18.29	18.33			19	4
20	16QAM	50	50	18.35	18.38	18.29				
20	16QAM	100	0	18.29	18.25	18.45				
Channel				20692	20715	20802				
Frequency (MHz)				17117	17223	17473				
18	QPSK	1	0	21.98	22.02	21.70				
18	QPSK	1	37	22.11	22.12	21.70			23	0
18	QPSK	1	74	22.18	21.78	21.90				
18	QPSK	36	0	21.58	21.58	21.50				
18	QPSK	36	20	21.52	21.59	21.40				
18	QPSK	36	36	21.79	21.58	21.33			23	0
18	QPSK	72	0	21.41	21.71	21.36				
18	16QAM	1	0	21.96	21.96	21.55				
18	16QAM	1	37	21.78	21.57	21.57			23	0
18	16QAM	1	74	21.90	21.60	21.61				
18	16QAM	36	0	20.85	20.54	20.54				
18	16QAM	36	20	20.68	20.71	20.45			22	1
18	16QAM	36	36	20.69	20.72	20.60				
18	16QAM	72	0	20.74	20.74	20.34				
18	16QAM	1	0	20.91	20.67	20.46				
18	16QAM	1	37	20.47	20.49	20.77			22	1
18	16QAM	1	74	20.64	20.54	20.51				
18	16QAM	36	0	19.71	19.38	19.32				
18	16QAM	36	20	19.69	19.65	19.49				
18	16QAM	72	0	19.63	19.62	19.45			21	2
18	16QAM	75	0	19.63	19.62	19.44				
18	16QAM	1	0	18.65	18.48	18.41				
18	16QAM	1	37	18.58	18.46	18.30			19	4
18	16QAM	74	0	18.48	18.37	18.41				
18	16QAM	36	0	18.43	18.28	18.26				
18	16QAM	36	20	18.39	18.20	18.32			19	4
18	16QAM	36	36	18.33	18.26	18.35				
18	16QAM	75	0	18.47	18.38	18.38				
Channel				20690	20715	20800				
Frequency (MHz)				17119	17223	17473				
18	QPSK	1	0	21.93	22.14	21.91				
18	QPSK	1	25	22.05	22.06	21.77			23	0
18	QPSK	25	0	21.49	21.65	21.36				
18	QPSK	25	12	21.44	21.41	21.38				
18	QPSK	50	0	21.49	21.43	21.51			23	0
18	16QAM	1	0	21.93	21.90	21.57				
18	16QAM	1	49	21.96	21.70	21.84			23	0
18	16QAM	25	0	20.58	20.67	20.44				
18	16QAM	25	12	20.58	20.58	20.44			22	1
18	16QAM	25	25	20.45	20.76	20.62				
18	16QAM	50	0	20.53	20.59	20.64				
18	16QAM	1	25	20.81	20.86	20.68				
18	16QAM	1	49	20.73	20.58	20.58			22	1
18	16QAM	25	0	19.53	19.50	19.50				
18	16QAM	25	12	19.58	19.55	19.59			21	2
18	16QAM	25	25	19.55	19.55	19.37				
18	16QAM	50	0	19.57	19.26	19.36				
18	16QAM	50	24	19.58	18.45	18.42				
18	16QAM	1	25	18.50	18.49	18.34			19	4
18	16QAM	1	49	18.47	18.38	18.38				
18	16QAM	25	0	18.43	18.26	18.36				
18	16QAM	25	12	18.39	18.28	18.34			19	4
18	16QAM	25	25	18.34	18.35	18.28				
18	16QAM	50	0	18.47	18.38	18.38				
Channel				19995	20175	20375				
Frequency (MHz)				17150	17325	17545				
3	QPSK	1	0	22.01	22.14	21.85				
3	QPSK	1	8	21.85	22.09	21.71			23	0
3	QPSK	1	14	22.11	21.75	21.96				
3	QPSK	8	0	21.30	21.58	21.39				
3	QPSK	8	4	21.44	21.42	21.37			23	0
3	QPSK	8	7	21.68	21.58	21.51				
3	QPSK	15	0	21.59	21.52	21.39				
3	16QAM	1	0	22.05	21.84	21.74				
3	16QAM	1	8	22.05	21.82	21.88			23	0
3	16QAM	1	14	21.86	21.73	21.81				
3	16QAM	8	0	20.71	20.69	20.60				
3	16QAM	8	7	20.58	20.65	20.67			22	1
3	16QAM	15	0	20.84	20.49	20.54				
3	16QAM	1	0	20.68	20.68	20.42				
3	16QAM	1	8	20.53	20.50	20.68			22	1
3	16QAM	1	14	20.59	20.65	20.50				
3	16QAM	8	0	19.63	19.43	19.60				
3	16QAM	8	7	19.79	19.51	19.51			21	2
3	16QAM	15	0	19.62	19.41	19.50				
3	16QAM	15	8	19.56	18.60	18.40				
3	16QAM	1	8	18.48	18.48	18.34			19	4
3	16QAM	1	14	18.45	18.37	18.41				
3	16QAM	8	0	18.40	18.26	18.36				
3	16QAM	8	7	18.40	18.26	18.34			19	4
3	16QAM	15	0	18.35	18.38	18.29				
3	16QAM	15	8	18.46	18.38	18.38				
Channel				19997	20175	20383				
Frequency (MHz)				17150	17325	17545				
1.4	QPSK	1	0	21.96	21.95	21.83				
1.4	QPSK	1	5	21.94	21.81	21.89			23	0
1.4	QPSK	1	5	21.82	21.67	21.75				
1.4	QPSK	3	0	22.11	21.77	21.86				
1.4	QPSK	3	3	21.94	21.71	21.73				
1.4	QPSK	3	3	22.00	21.72	21.83				
1.4	QPSK	6	0	21.86	21.26	21.37			23	0
1.4	16QAM	1	0	21.78	21.66	21.63				
1.4	16QAM	1	3	21.95	21.86	21.76				
1.4	16QAM	1	5	21.88	21.74	21.49				
1.4	16QAM	3	0	21.70	21.61	21.33			23	0
1.4	16QAM	3	1	21.55	21.43	21.46				
1.4	16QAM	3	3	21.51	21.26	21.32				
1.4	16QAM	6	0	20.44	20.65	20.16			22	1
1.4	16QAM	1	0	20.85	20.62	20.55				
1.4	16QAM	1	3	20.80	20.65	20.61				
1.4	16QAM	1	5	20.52	20.49	20.36			22	1
1.4	16QAM	3	0	20.69	20.35	20.31				
1.4	16QAM	3	1	20.33	20.52	20.46				
1.4	16QAM	6	0	20.07	20.48	20.40				
1.4	16QAM	6	0	19.30	19.44	19.48			21	2
1.4	16QAM	1	0	18.55	18.60	18.40				
1.4	16QAM	1	3	18.49	18.48	18.34				
1.4	16QAM	1	5	18.47	18.36	18.40				
1.4	16QAM	3	0	18.44	18.20	18.23			18.5	4.5
1.4	16QAM	3	1	18.38	18.27	18.32				
1.4	16QAM	3	3	18.35	18.36	18.26				
1.4	16QAM	6	0	18.49	18.38	18.39			18.5	4.5

Band 5 Ant 1 DS16										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Power (W)	Turn-up (dBm)	MPR (dB)	
Channel				Ch. 1/Freq. (MHz)	Ch. 2/Freq. (MHz)	Ch. 3/Freq. (MHz)	Ch. 4/Freq. (MHz)	Turn-up (dBm)	MPR (dB)	
Frequency (MHz)				20620	20625	20625	20600			
10	QPSK	1	0	22.51	22.71	22.59				
10	QPSK	1	25	22.58	22.44	22.49			24	0
10	QPSK	1	49	22.56	21.62	21.61				
10	QPSK	25	0	21.59	21.66	21.65				
10	QPSK									



Band 5 Ant 2 DS16 Simultaneous for ENDC

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Power, Power, Turn-up, MPR. Contains multiple rows of data for various modulation schemes and power levels.

Band 7 Ant 1 DS16

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Power, Power, Turn-up, MPR. Contains multiple rows of data for various modulation schemes and power levels.

Band 7 Ant 1 DS16 Simultaneous

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Power, Power, Turn-up, MPR. Contains multiple rows of data for various modulation schemes and power levels.



Band 7 Ant 2 DS16 for ENDC

RF (MHz)	Modulation	RB Size	RB Offset	Power Ch./Frac.	Power Ch./Frac.	Power Ch./Frac.	Turn-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	19.89	19.96	19.83		
20	QPSK	1	49	19.82	19.80	19.53	21.2	0
20	QPSK	50	0	19.84	19.83	19.80		
20	QPSK	50	0	19.83	19.92	19.82		
20	QPSK	50	24	19.88	19.70	19.73	21.2	0
20	QPSK	50	0	19.82	19.79	19.85		
20	QPSK	100	0	19.85	19.81	19.76		
20	16QAM	1	0	19.86	19.86	19.58	21.2	0
20	16QAM	1	49	19.83	19.79	19.70		
20	16QAM	1	59	19.78	19.68	19.73		
20	16QAM	50	0	19.70	19.84	19.86		
20	16QAM	50	24	19.84	19.83	19.80	21.2	0
20	16QAM	50	50	19.70	19.94	19.59		
20	16QAM	100	0	19.58	19.85	19.52		
20	16QAM	1	49	19.79	19.88	19.82	21.2	0
20	16QAM	1	59	19.78	19.88	19.90		
20	16QAM	50	0	19.84	19.71	19.86		
20	16QAM	50	24	19.73	19.71	19.75	21	0.2
20	16QAM	50	50	19.87	19.87	19.79		
20	16QAM	100	0	19.86	19.87	19.70		
20	256QAM	1	0	17.79	17.73	17.80	19	2.2
20	256QAM	1	49	17.70	17.83	17.73		
20	256QAM	1	59	17.64	17.73	17.83		
20	256QAM	50	0	19.84	19.71	19.86		
20	256QAM	50	24	17.74	17.75	18.00	19	2.2
20	256QAM	50	50	17.81	17.81	18.02		
20	256QAM	100	0	17.81	17.79	17.85		
Channel								
Frequency (MHz)								
18	QPSK	1	0	20.02	20.03	20.03		
18	QPSK	1	37	19.82	19.84	19.48	21.2	0
18	QPSK	1	74	19.80	19.87	19.75		
18	QPSK	36	0	19.81	19.86	19.77		
18	QPSK	36	20	19.79	19.70	19.82	21.2	0
18	QPSK	36	39	19.78	19.79	19.90		
18	QPSK	75	0	19.86	19.86	19.77		
18	16QAM	1	0	19.71	19.89	19.83	21.2	0
18	16QAM	1	37	19.87	19.83	19.72		
18	16QAM	1	74	19.81	19.87	19.78		
18	16QAM	36	0	19.71	19.83	19.81		
18	16QAM	36	20	19.79	19.84	19.79	21.2	0
18	16QAM	36	39	19.88	19.82	19.57		
18	16QAM	75	0	19.87	19.86	19.81		
18	16QAM	1	0	19.50	19.78	19.60		
18	16QAM	1	37	19.81	19.82	19.87	21.2	0
18	16QAM	1	74	19.80	19.71	19.89		
18	16QAM	36	0	19.80	19.71	19.89		
18	16QAM	36	20	19.88	19.72	19.78	21	0.2
18	16QAM	36	39	19.87	19.82	19.81		
18	16QAM	75	0	19.83	19.87	19.70		
18	256QAM	1	0	17.73	17.74	17.59	19	2.2
18	256QAM	1	37	17.68	17.80	17.73		
18	256QAM	1	74	17.82	17.77	17.84		
18	256QAM	36	0	17.81	17.79	17.81		
18	256QAM	36	20	17.74	17.75	17.98	19	2.2
18	256QAM	36	39	17.77	17.81	18.04		
18	256QAM	75	0	17.79	17.72	17.79		
Channel								
Frequency (MHz)								
16	QPSK	1	0	19.80	19.82	19.85		
16	QPSK	1	25	19.87	19.85	19.50	21.2	0
16	QPSK	1	49	19.83	19.82	19.56		
16	QPSK	25	0	19.82	19.67	19.73		
16	QPSK	25	12	19.70	19.86	19.82	21.2	0
16	QPSK	25	0	19.85	19.88	19.74		
16	16QAM	1	0	19.69	19.82	19.62	21.2	0
16	16QAM	1	24	19.88	19.87	19.83		
16	16QAM	1	49	19.84	19.70	19.80		
16	16QAM	25	0	19.71	19.84	19.77		
16	16QAM	25	12	19.76	19.81	19.78	21.2	0
16	16QAM	25	0	19.87	19.82	19.56		
16	16QAM	50	0	19.54	19.83	19.54		
16	16QAM	1	24	19.83	19.79	19.83	21.2	0
16	16QAM	1	49	19.78	19.84	19.94		
16	16QAM	25	0	19.78	19.73	19.87		
16	16QAM	25	12	19.68	19.75	19.81	21	0.2
16	16QAM	25	0	19.86	19.80	19.80		
16	16QAM	50	0	19.86	19.86	19.73		
16	256QAM	1	0	17.69	17.80	17.85	19	2.2
16	256QAM	1	25	17.72	17.82	17.73		
16	256QAM	1	49	17.68	17.80	17.67		
16	256QAM	25	0	17.81	17.77	17.91		
16	256QAM	25	12	17.75	17.78	18.01	19	2.2
16	256QAM	25	0	17.88	17.80	17.95		
16	256QAM	50	0	17.83	17.74	17.75		
Channel								
Frequency (MHz)								
14	QPSK	1	0	19.79	19.88	19.83		
14	QPSK	1	19	19.88	19.82	19.56	21.2	0
14	QPSK	1	24	19.82	19.88	19.70		
14	QPSK	12	0	19.81	19.87	19.70		
14	QPSK	12	7	19.89	19.84	19.82	21.2	0
14	QPSK	12	13	19.78	19.74	19.90		
14	QPSK	25	0	19.81	19.86	19.73		
14	16QAM	1	0	19.70	19.89	19.83	21.2	0
14	16QAM	1	12	19.89	19.77	19.73		
14	16QAM	1	24	19.83	19.72	19.86		
14	16QAM	12	0	19.73	19.86	19.78		
14	16QAM	12	7	19.76	19.82	19.75	21.2	0
14	16QAM	25	0	19.83	19.84	19.51		
14	16QAM	1	12	19.82	19.83	19.81	21.2	0
14	16QAM	1	24	19.78	19.87	19.80		
14	16QAM	12	0	19.78	19.69	19.88		
14	16QAM	12	7	19.71	19.72	19.78	21	0.2
14	16QAM	12	13	19.87	19.84	19.82		
14	16QAM	25	0	19.78	19.80	19.69		
14	256QAM	1	0	17.78	17.78	17.68	19	2.2
14	256QAM	1	19	17.67	17.75	17.60		
14	256QAM	1	24	17.85	17.80	17.84		
14	256QAM	12	0	17.74	17.79	17.81		
14	256QAM	12	7	17.88	17.80	17.95	19	2.2
14	256QAM	25	0	17.85	17.72	17.73		

Band 7 Ant 2 DS16 Simultaneous for ENDC

RF (MHz)	Modulation	RB Size	RB Offset	Power Ch./Frac.	Power Ch./Frac.	Power Ch./Frac.	Turn-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	19.86	19.73	19.68		
20	QPSK	1	49	19.41	19.56	19.33	20.7	0
20	QPSK	1	99	19.52	19.42	19.37		
20	QPSK	50	0	19.44	19.67	19.60		
20	QPSK	50	24	19.48	19.52	19.57	20.7	0
20	QPSK	50	0	19.51	19.63	19.60		
20	16QAM	1	0	19.43	19.67	19.34	20.7	0
20	16QAM	1	49	19.54	19.44	19.45		
20	16QAM	1	99	19.53	19.49	19.53		
20	16QAM	50	0	19.50	19.64	19.65		
20	16QAM	50	24	19.56	19.56	19.37	20.7	0
20	16QAM	50	50	19.51	19.64	19.35		
20	16QAM	100	0	19.31	19.63	19.33		
20	16QAM	1	49	19.51	19.54	19.41	20.7	0
20	16QAM	1	99	19.52	19.67	19.72		
20	16QAM	50	0	19.55	19.48	19.30		
20	16QAM	50	24	19.55	19.48	19.52	20.7	0
20	16QAM	50	50	19.69	19.64	19.58		
20	16QAM	100	0	19.65	19.65	19.35		
20	256QAM	1	0	19.08	19.11	17.80	19	1.7
20	256QAM	1	49	17.94	18.11	18.00		
20	256QAM	1	99	17.94	18.03	17.93		
20	256QAM	50	0	17.89	17.97	17.83		
20	256QAM	50	24	17.88	18.12	18.25	20.7	0
20	256QAM	50	50	18.11	18.12	18.35		
20	256QAM	100	0	17.97	17.95	17.85		
Channel								
Frequency (MHz)								
15	QPSK	1	0	20.07	20.03	20.03		
15	QPSK	1	37	19.20	19.42	19.27	20.7	0
15	QPSK	1	74	19.52	19.56	19.44		
15	QPSK	36	0	19.34	19.43	19.51		
15	QPSK	36	20	19.41	19.36	19.57	20.7	0
15	QPSK	36	39	19.45	19.53	19.58		
15	QPSK	75	0	19.45	19.48	19.48		
15	16QAM	1	0	19.20	19.42	19.30	20.7	0
15	16QAM	1	37	19.43	19.42	19.30		
15	16QAM	1	74	19.45	19.38	19.38		
15	16QAM	36	0	19.41	19.36	19.57		
15	16QAM	36	20	19.56	19.58	19.46	20.7	0
15	16QAM	36	39	19.37	19.53	19.20		
15	16QAM	75	0	19.53	19.55	19.27		
15	16QAM	1	0	19.20	19.46	19.31		
15	16QAM	1	37	19.49	19.59	19.47	20.7	0
15	16QAM	1	74	19.36	19.35	19.25		
15	16QAM	36	0	19.48	19.35	19.65		
15	16QAM	36	20	19.44	19.44	19.40	20.7	0
15	16QAM	36	39	19.54	19.36	19.57		
15	16QAM	75	0	19.58	19.54	19.42		
15	256QAM	1	0	17.97	18.01	17.82	19	1.7
15	256QAM	1	37	17.89	17.97	17.83		
15	256QAM	1	74	17.83	17.94	17.91		
15	256QAM	36	0	18.00	17.99	18.10		
15	256QAM	36	20	17.94	17.95	18.19	19	1.7



Band 12 Ant 2 DS16 for ENDC										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dBm)	MPR (dB)		
Channel										
Frequency (MHz)	Ch. Freq.	Ch. Freq.	Ch. Freq.	23000	23095	23190				
10	QPSK	1	0	22.79	22.87	22.88				
10	QPSK	1	25	22.90	22.86	22.82	24	0		
10	QPSK	1	49	22.81	22.81	22.72				
10	QPSK	25	0	22.81	22.81	22.72				
10	QPSK	25	12	22.79	22.70	22.69	24	0		
10	QPSK	25	25	22.81	22.74	22.79				
10	QPSK	50	0	22.81	22.74	22.79				
10	16QAM	1	0	21.99	21.47	21.51				
10	16QAM	1	25	21.49	21.47	21.51	23	1		
10	16QAM	1	49	21.20	21.14	21.11				
10	16QAM	25	0	21.97	21.94	21.85				
10	16QAM	25	12	21.96	22.02	21.90				
10	16QAM	25	25	21.99	22.01	22.00	23	1		
10	16QAM	50	0	21.91	21.89	21.87				
10	16QAM	1	25	21.43	21.39	21.29	22	2		
10	16QAM	1	49	21.24	21.33	21.28				
10	16QAM	25	0	19.98	19.89	19.93				
10	16QAM	25	12	19.98	19.89	19.93	21	3		
10	16QAM	25	25	19.97	19.93	19.87				
10	16QAM	50	0	19.96	20.02	20.05				
10	16QAM	1	0	18.17	18.27	18.23				
10	16QAM	1	25	18.22	18.30	18.25	19	5		
10	16QAM	1	49	18.31	18.30	18.26				
10	16QAM	25	0	18.30	18.26	18.26				
10	16QAM	25	12	18.20	18.26	18.26	19	5		
10	16QAM	25	25	18.18	18.27	18.24				
10	16QAM	50	0	18.20	18.27	18.23				
Channel										
Frequency (MHz)	Ch. Freq.	Ch. Freq.	Ch. Freq.	23005	23095	23195	Turn-up (dBm)	MPR (dB)		
5	QPSK	1	0	22.81	22.79	22.74				
5	QPSK	1	24	22.45	22.47	22.46	24	0		
5	QPSK	12	0	22.68	22.77	22.83				
5	QPSK	12	7	22.44	22.60	22.68	24	0		
5	QPSK	12	13	22.74	22.60	22.64				
5	QPSK	25	0	22.80	22.60	22.74				
5	16QAM	1	0	21.48	21.36	21.37	23	1		
5	16QAM	1	12	21.43	21.36	21.47				
5	16QAM	1	24	21.17	21.06	21.03				
5	16QAM	12	0	21.96	21.90	21.82				
5	16QAM	12	7	21.95	21.91	21.80	23	1		
5	16QAM	12	13	21.88	21.96	21.97				
5	16QAM	25	0	21.78	21.90	21.87				
5	16QAM	1	0	21.02	21.20	21.28				
5	16QAM	1	12	21.40	21.26	21.24	22	2		
5	16QAM	1	24	20.78	19.89	19.86				
5	16QAM	12	0	19.78	19.89	19.86				
5	16QAM	12	7	19.86	19.80	19.79	21	3		
5	16QAM	12	13	19.82	19.80	19.79				
5	16QAM	25	0	19.95	19.90	19.97				
5	16QAM	1	0	18.09	18.32	18.14				
5	16QAM	1	12	18.19	18.39	18.35	19	5		
5	16QAM	1	24	18.37	18.39	18.38				
5	16QAM	12	0	18.38	18.40	18.18				
5	16QAM	12	7	18.34	18.39	18.36	19	5		
5	16QAM	12	13	18.12	18.15	18.22				
5	16QAM	25	0	18.17	18.19	18.09				
Channel										
Frequency (MHz)	Ch. Freq.	Ch. Freq.	Ch. Freq.	23005	23095	23195	Turn-up (dBm)	MPR (dB)		
3	QPSK	1	0	22.55	22.62	22.83				
3	QPSK	1	8	22.48	22.70	22.62	24	0		
3	QPSK	1	14	22.41	22.42	22.42				
3	QPSK	8	0	22.58	22.75	22.58				
3	QPSK	8	4	22.85	22.47	22.67	24	0		
3	QPSK	8	7	22.87	22.60	22.60				
3	QPSK	15	0	22.77	22.54	22.64				
3	16QAM	1	0	21.45	21.21	21.22	23	1		
3	16QAM	1	8	21.48	21.36	21.37				
3	16QAM	1	14	21.09	21.19	21.10				
3	16QAM	8	0	21.88	21.75	21.82				
3	16QAM	8	4	21.89	21.83	21.69	23	1		
3	16QAM	8	7	21.84	21.83	21.79				
3	16QAM	15	0	21.69	21.73	21.61				
3	16QAM	1	0	20.97	21.12	21.16				
3	16QAM	1	8	21.38	21.26	21.13	22	2		
3	16QAM	1	14	21.15	21.18	21.22				
3	16QAM	8	0	19.70	19.81	19.76				
3	16QAM	8	4	19.78	19.74	19.70	21	3		
3	16QAM	8	7	19.82	19.70	19.64				
3	16QAM	15	0	19.83	19.96	19.87				
3	16QAM	1	0	18.21	18.25	18.18				
3	16QAM	1	8	18.08	18.41	18.11	19	5		
3	16QAM	1	14	18.24	18.23	18.13				
3	16QAM	8	0	18.46	18.39	18.35				
3	16QAM	8	4	18.28	18.16	18.25	19	5		
3	16QAM	8	7	18.10	18.30	18.17				
3	16QAM	15	0	18.35	18.35	18.35				
Channel										
Frequency (MHz)	Ch. Freq.	Ch. Freq.	Ch. Freq.	23017	23095	23173	Turn-up (dBm)	MPR (dB)		
1.4	QPSK	1	0	22.48	22.48	22.74				
1.4	QPSK	1	5	22.58	22.67	22.58	24	0		
1.4	QPSK	1	5	22.35	22.32	22.41				
1.4	QPSK	3	0	22.57	22.43	22.50				
1.4	QPSK	3	1	22.44	22.43	22.58	24	0		
1.4	QPSK	3	3	22.53	22.38	22.56				
1.4	QPSK	6	0	22.70	22.63	22.60	24	0		
1.4	16QAM	1	0	21.91	21.94	21.10				
1.4	16QAM	1	3	21.27	21.15	21.29				
1.4	16QAM	1	6	21.07	21.17	21.08	23	1		
1.4	16QAM	3	0	21.82	21.72	21.69				
1.4	16QAM	3	1	21.89	21.78	21.85				
1.4	16QAM	3	1	21.79	21.70	21.75	23	1		
1.4	16QAM	6	0	21.63	21.69	21.65				
1.4	16QAM	1	0	21.28	21.11	21.11				
1.4	16QAM	1	3	21.20	21.07	21.10				
1.4	16QAM	1	6	21.34	21.15	21.04	22	2		
1.4	16QAM	3	0	21.16	21.16	21.08				
1.4	16QAM	3	1	21.20	21.20	20.98				
1.4	16QAM	3	1	21.28	21.18	21.03				
1.4	16QAM	6	0	19.81	19.80	19.81	21	3		
1.4	16QAM	1	0	18.27	18.38	18.33				
1.4	16QAM	1	3	18.16	18.38	18.36				
1.4	16QAM	1	6	18.23	18.20	18.11	19	5		
1.4	16QAM	3	0	18.21	18.32	18.37				
1.4	16QAM	3	1	18.08	18.16	18.33				
1.4	16QAM	3	1	18.22	18.35	18.10				
1.4	16QAM	6	0	18.13	18.47	18.09	19	5		

Band 12 Ant 2 DS16 Simultaneous for ENDC										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dBm)	MPR (dB)		
Channel										
Frequency (MHz)	Ch. Freq.	Ch. Freq.	Ch. Freq.	23000	23095	23190				
10	QPSK	1	0	22.79	22.87	22.88				
10	QPSK	1	25	22.90	22.86	22.82	24	0		
10	QPSK	1	49	22.81	22.81	22.72				
10	QPSK	25	0	22.81	22.81	22.72				
10	QPSK	25	12	22.79	22.70	22.69	24	0		
10	QPSK	25	25	22.81	22.74	22.79				
10	QPSK	50	0	22.81	22.74	22.79				
10	16QAM	1	0	21.99	21.47	21.51				
10	16QAM	1	25	21.49	21.47	21.51	23	1		
10	16QAM	1	49	21.20	21.14	21.11				
10	16QAM	25	0	21.97	21.94	21.85				
10	16QAM	25	12	21.96	22.02	21.90				
10	16QAM	25	25	21.99	22.01	22.00	23	1		
10	16QAM	50	0	21.91	21.89	21.87				
10	16QAM	1	25	21.43	21.39	21.29	22	2		
10	16QAM	1	49	21.24	21.33	21.28				
10	16QAM	25	0	19.98	19.89	19.93				
10	16QAM	25	12	19.98	19.89	19.93	21	3		
10	16QAM	25	25	19.97	19.93	19.87				
10	16QAM	50	0	19.96	20.02	20.05				
10	16QAM	1	0	18.17	18.27	18.23				
10	16QAM	1	25	18.22	18.30	18.25	19	5		
10	16QAM	1	49	18.31	18.30	18.26				
10	16QAM	25	0	18.30	18.26	18.26				
10	16QAM	25	12	18.20	18.26	18.26	19	5		
10	16QAM	25	25	18.18	18.27	18.24				
10	16QAM	50	0	18.20	18.27	18.23				
Channel										
Frequency (MHz)	Ch. Freq.	Ch. Freq.	Ch. Freq.	23005	23095	23195	Turn-up (dBm)	MPR (dB)		
5	QPSK	1	0	22.81	22.79	22.74				
5	QPSK	1	24	22.45	22.47	22.46	24	0		
5	QPSK									



Band 17 Ant 1 DS16										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Frac.	Power Ch./Frac.	Power Ch./Frac.	Turn-up Time (dB)	MPR (dB)		
Channel										
Frequency (MHz)	Ch.	23790	23790	23800	23810	23820				
10	QPSK	1	0	22.82	22.84	22.83				
10	QPSK	1	26	22.73	22.63	22.91		24	0	
10	QPSK	1	46	22.67	22.66	22.68				
10	QPSK	25	0	21.92	21.98	21.92				
10	QPSK	25	12	21.92	21.91	21.95		23	1	
10	QPSK	25	6	21.87	21.81	21.83				
10	QPSK	50	0	21.91	21.92	21.87				
10	16QAM	1	0	22.32	22.27	22.35				
10	16QAM	1	26	22.23	22.13	22.16		23	1	
10	16QAM	1	46	21.97	21.15	22.04				
10	16QAM	25	0	20.99	21.06	21.05				
10	16QAM	25	12	20.99	20.98	20.98				
10	16QAM	25	26	20.89	20.85	20.88		22	2	
10	16QAM	50	0	21.03	20.98	20.92				
10	16QAM	1	0	21.12	21.18	21.16				
10	16QAM	1	26	20.94	21.02	21.09		22	2	
10	16QAM	1	46	20.88	20.98	21.07				
10	16QAM	25	0	19.98	20.00	20.01				
10	16QAM	25	12	19.98	19.99	19.98				
10	16QAM	25	26	19.80	19.90	19.90		21	3	
10	16QAM	50	0	18.33	18.30	18.25				
10	256QAM	1	26	18.46	18.58	18.39		19	5	
10	256QAM	1	46	18.67	18.82	18.53				
10	256QAM	25	0	18.38	18.42	18.35				
10	256QAM	25	12	18.33	18.45	18.24		19	5	
10	256QAM	25	26	18.41	18.49	18.48				
10	256QAM	50	0	18.33	18.30	18.25				
Channel										
Frequency (MHz)	Ch.	23795	23795	23805	23815	23825	Turn-up Time (dB)	MPR (dB)		
5	QPSK	1	0	22.84	22.84	22.80				
5	QPSK	1	24	22.78	22.82	22.84		24	0	
5	QPSK	12	0	21.96	21.98	21.99				
5	QPSK	12	7	21.99	22.02	21.97		23	1	
5	QPSK	12	13	21.91	21.90	21.95				
5	QPSK	26	0	22.02	21.96	21.99				
5	16QAM	1	0	22.06	22.14	22.23				
5	16QAM	1	12	22.20	22.27	22.19		23	1	
5	16QAM	1	24	22.10	22.12	22.26				
5	16QAM	12	0	21.09	21.01	21.02				
5	16QAM	12	7	21.05	20.98	20.95		22	2	
5	16QAM	12	13	20.99	20.96	21.01				
5	16QAM	26	0	20.97	20.98	20.93				
5	16QAM	1	0	21.07	21.07	21.09				
5	16QAM	1	12	20.99	21.09	20.96		22	2	
5	16QAM	1	24	21.06	21.06	20.93				
5	16QAM	12	0	20.05	19.98	20.07				
5	16QAM	12	7	20.03	19.93	19.95		21	3	
5	16QAM	12	13	19.98	20.00	19.96				
5	16QAM	26	0	20.05	19.90	19.93				
5	256QAM	1	0	18.54	18.57	18.55				
5	256QAM	1	12	18.43	18.63	18.53		19	5	
5	256QAM	1	24	18.82	18.41	18.63				
5	256QAM	12	0	18.51	18.53	18.46				
5	256QAM	12	7	18.40	18.58	18.29		19	5	
5	256QAM	12	13	18.49	18.52	18.45				
5	256QAM	26	0	18.20	18.44	18.18				

Band 26 Ant 1 DS16										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Frac.	Power Ch./Frac.	Power Ch./Frac.	Turn-up Time (dB)	MPR (dB)		
Channel										
Frequency (MHz)	Ch.	23790	23790	23800	23810	23820				
15	QPSK	1	0	22.73	22.86	22.69				
15	QPSK	1	37	22.83	22.72	22.60		24	0	
15	QPSK	1	74	22.73	22.73	22.64				
15	QPSK	36	0	21.89	21.96	21.72				
15	QPSK	36	20	21.89	21.82	21.77		23	1	
15	QPSK	36	39	21.83	21.78	21.83				
15	QPSK	75	0	21.68	21.78	21.63				
15	16QAM	1	0	22.28	21.92	21.91				
15	16QAM	1	37	22.15	21.97	21.87		23	1	
15	16QAM	1	74	22.08	21.85	21.89				
15	16QAM	36	0	20.92	20.89	20.85				
15	16QAM	36	20	21.00	20.90	20.86				
15	16QAM	36	39	21.05	20.91	20.94		22	2	
15	16QAM	75	0	20.83	20.70	20.55				
15	16QAM	1	0	20.85	20.96	20.76				
15	16QAM	1	37	20.88	20.91	20.80		22	2	
15	16QAM	1	74	21.02	20.83	20.74				
15	16QAM	36	20	19.90	19.85	19.73				
15	16QAM	36	39	19.95	19.85	19.73				
15	16QAM	75	0	19.74	19.63	19.63		21	3	
15	16QAM	75	0	19.77	19.69	19.70				
15	256QAM	1	0	18.26	18.15	18.10				
15	256QAM	1	37	18.19	18.07	18.07		19	5	
15	256QAM	1	74	18.25	18.08	18.23				
15	256QAM	36	20	18.77	18.53	19.03				
15	256QAM	36	39	18.06	17.93	18.25		19	5	
15	256QAM	75	0	18.14	17.98	18.19				
15	256QAM	75	0	18.26	18.05	18.00				
Channel										
Frequency (MHz)	Ch.	23792	23792	23802	23812	23822	Turn-up Time (dB)	MPR (dB)		
10	QPSK	1	0	22.70	22.74	22.74				
10	QPSK	1	26	22.62	22.58	22.63		24	0	
10	QPSK	1	49	22.60	22.54	22.61				
10	QPSK	25	0	21.83	21.69	21.64				
10	QPSK	25	12	21.76	21.66	21.63		23	1	
10	QPSK	25	26	21.75	21.67	21.66				
10	QPSK	50	0	21.71	21.71	21.52				
10	16QAM	1	0	22.04	21.97	21.88				
10	16QAM	1	26	21.95	21.95	21.79		23	1	
10	16QAM	1	49	21.83	21.89	21.78				
10	16QAM	25	0	20.78	20.72	20.67				
10	16QAM	25	12	20.76	20.72	20.68		22	2	
10	16QAM	25	26	20.77	20.68	20.62				
10	16QAM	50	0	20.64	20.66	20.64				
10	16QAM	1	0	21.68	20.83	20.87				
10	16QAM	1	26	20.85	20.85	20.83				
10	16QAM	1	49	20.87	20.83	19.78		21	3	
10	16QAM	25	0	19.83	19.71	19.71				
10	16QAM	25	12	19.83	19.71	19.71				
10	16QAM	25	26	19.82	19.67	19.66		19	5	
10	256QAM	1	0	18.24	18.07	18.12				
10	256QAM	1	26	18.07	17.89	18.11		19	5	
10	256QAM	1	49	18.35	17.96	18.26				
10	256QAM	25	0	18.06	17.93	18.23				
10	256QAM	25	12	17.93	17.92	18.27		19	5	
10	256QAM	25	26	18.14	17.96	18.27				
10	256QAM	50	0	17.99	17.91	17.78				
Channel										
Frequency (MHz)	Ch.	23795	23795	23805	23815	23825	Turn-up Time (dB)	MPR (dB)		
5	QPSK	1	0	22.49	22.45	22.47				
5	QPSK	1	12	22.36	22.48	22.41		24	0	
5	QPSK	1	24	22.36	22.48	22.41				
5	QPSK	12	0	21.66	21.57	21.54				
5	QPSK	12	7	21.69	21.47	21.46		23	1	
5	QPSK	12	13	21.65	21.53	21.58				
5	QPSK	25	0	21.64	21.59	21.49				
5	16QAM	1	0	21.75	21.79	21.86				
5	16QAM	1	12	21.81	21.81	21.69		23	1	
5	16QAM	1	24	21.70	21.81	21.69				
5	16QAM	12	0	20.66	20.58	20.54				
5	16QAM	12	7	20.67	20.68	20.58		22	2	
5	16QAM	12	13	20.62	20.49	20.56				
5	16QAM	25	0	20.66	20.53	20.59				
5	16QAM	25	12	20.76	20.70	20.64				
5	16QAM	25	26	20.76	20.67	20.61		22	2	
5	16QAM	50	0	20.76	20.67	20.61				
5	16QAM	1	0	20.66	20.44	20.48				
5	16QAM	1	12	20.67	20.63	19.66				
5	16QAM	1	24	20.65	20.45	19.69		21	3	
5	16QAM	12	0	19.68	19.68	19.56				
5	16QAM	12	7	19.62	19.60	19.56				
5	16QAM	12	13	19.62	19.50	19.56				
5	16QAM	25	0	19.65	19.58	19.54				
5	16QAM	25	12	19.60	19.51	19.56				
5	256QAM	1	0	18.18	18.20	18.00		19	5	
5	256QAM	1	24	18.27	17.97	18.29				
5	256QAM	1	49	18.35	18.04	18.34				
5	256QAM	12	0	18.08	17.97	18.22		19	5	
5	256QAM	12	7	18.08	17.97	18.22				
5	256QAM	12	13	18.08	17.92	18.18				
5	256QAM	25	0	18.27						



Band 66 Ant 1 DS16 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dBm)	MPR (dB)		
Channel	Ch. Freq.	Ch. Freq.	Ch. Freq.	130072	130322	130572				
20	QPSK	1	0	22.18	22.34	21.93				
20	QPSK	1	49	22.07	22.07	22.01			23	0
20	QPSK	1	98	21.96	21.96	21.96				
20	QPSK	50	0	21.68	21.81	21.54				
20	QPSK	50	24	21.60	21.71	21.55			23	0
20	QPSK	50	49	21.59	21.54	21.60				
20	QPSK	100	0	21.59	21.54	21.60				
20	16QAM	1	0	21.88	22.02	21.71				
20	16QAM	1	49	21.88	22.02	21.71			23	0
20	16QAM	1	98	21.95	21.90	21.74				
20	16QAM	50	0	20.58	20.83	20.54				
20	16QAM	50	24	20.58	20.51	20.48			22	1
20	16QAM	50	49	20.83	20.55	20.53				
20	16QAM	100	0	20.81	20.81	20.59				
20	16QAM	100	49	20.70	20.57	20.92			22	1
20	16QAM	1	99	20.86	20.57	20.61				
20	16QAM	50	0	20.58	20.58	20.74				
20	16QAM	50	24	19.71	19.44	19.74			21	2
20	16QAM	50	49	19.44	19.36	19.41				
20	16QAM	100	0	19.62	19.49	19.38				
20	16QAM	100	49	19.47	18.42	18.39			21	2
20	256QAM	1	49	18.43	18.49	18.48			19	4
20	256QAM	1	99	18.47	18.40	18.34				
20	256QAM	50	0	18.46	18.26	18.43				
20	256QAM	50	24	18.40	18.31	18.40			19	4
20	256QAM	50	49	18.48	18.41	18.47				
20	256QAM	100	0	18.20	18.20	18.45				
20	256QAM	100	49	18.72	18.73	18.68				
15	QPSK	1	0	21.08	22.01	21.82				
15	QPSK	1	37	21.85	22.02	21.89			23	0
15	QPSK	1	74	21.97	21.79	21.88				
15	QPSK	36	0	21.46	21.61	21.24				
15	QPSK	36	20	21.50	21.49	21.49			23	0
15	QPSK	36	39	21.54	21.32	21.33				
15	QPSK	75	0	21.46	21.46	21.22				
15	16QAM	1	37	21.76	21.62	21.97			23	0
15	16QAM	1	74	21.57	21.87	21.84				
15	16QAM	36	0	20.70	20.54	20.54				
15	16QAM	36	20	20.47	20.41	20.24			22	1
15	16QAM	36	39	20.48	20.62	20.20				
15	16QAM	75	0	20.66	20.72	20.58				
15	16QAM	1	0	20.83	20.51	20.42				
15	16QAM	1	37	20.48	20.51	20.67			22	1
15	16QAM	1	74	20.44	20.47	20.47				
15	16QAM	36	0	19.47	19.19	19.19				
15	16QAM	36	20	19.35	19.24	19.58			21	2
15	16QAM	36	39	19.44	19.44	19.44				
15	16QAM	75	0	19.48	19.40	19.34				
15	256QAM	1	0	18.47	18.43	18.38				
15	256QAM	1	37	18.44	18.57	18.47			19	4
15	256QAM	1	74	18.48	18.39	18.34				
15	256QAM	36	0	18.46	18.30	18.42				
15	256QAM	36	20	18.39	18.28	18.40			19	4
15	256QAM	36	39	18.48	18.29	18.47				
15	256QAM	75	0	18.20	18.20	18.69				
10	QPSK	1	0	22.07	21.98	21.86				
10	QPSK	1	25	21.93	22.02	21.90			23	0
10	QPSK	1	50	21.82	21.82	21.82				
10	QPSK	25	0	21.44	21.62	21.35				
10	QPSK	25	12	21.53	21.33	21.34			23	0
10	QPSK	25	25	21.48	21.62	21.35				
10	QPSK	50	0	21.43	21.62	21.27				
10	16QAM	1	0	21.83	21.78	21.58				
10	16QAM	1	25	21.83	21.58	21.58			23	0
10	16QAM	1	50	21.76	21.76	21.71				
10	16QAM	25	0	20.57	20.83	20.45				
10	16QAM	25	12	20.58	20.58	20.39			22	1
10	16QAM	25	25	20.72	20.58	20.38				
10	16QAM	50	0	20.81	20.83	20.31				
10	16QAM	50	25	20.44	20.75	20.43			22	1
10	16QAM	50	50	20.44	20.56	20.54				
10	16QAM	100	0	20.44	20.39	20.44				
10	16QAM	100	25	19.33	19.25	19.24				
10	16QAM	100	50	19.38	19.20	19.48			21	2
10	16QAM	25	0	19.63	19.30	19.23				
10	16QAM	25	12	19.46	19.24	19.09				
10	16QAM	25	25	19.44	18.84	19.00				
10	256QAM	1	25	18.44	18.50	18.46			19	4
10	256QAM	1	49	18.48	18.40	18.33				
10	256QAM	12	0	18.46	18.36	18.36				
10	256QAM	12	12	18.39	18.23	18.39			19	4
10	256QAM	25	0	18.46	18.39	18.45				
10	256QAM	25	12	18.40	18.18	18.68				
5	QPSK	1	0	22.02	22.17	22.00				
5	QPSK	1	8	21.71	21.96	21.76			23	0
5	QPSK	1	16	21.86	21.86	21.86				
5	QPSK	8	0	21.61	21.50	21.48				
5	QPSK	8	4	21.38	21.32	21.33			23	0
5	QPSK	8	8	21.48	21.48	21.48				
5	QPSK	15	0	21.21	21.63	21.34				
5	16QAM	1	0	21.84	21.92	21.69				
5	16QAM	1	8	21.78	21.92	21.83			23	0
5	16QAM	1	16	21.81	21.84	21.62				
5	16QAM	8	0	20.62	20.54	20.80				
5	16QAM	8	4	20.67	20.37	20.39			22	1
5	16QAM	8	7	20.69	20.85	20.40				
5	16QAM	15	0	20.60	20.69	20.37				
5	16QAM	15	8	20.67	20.67	20.64			22	1
5	16QAM	15	16	20.49	20.40	20.92				
5	16QAM	1	14	20.74	20.31	20.70				
5	16QAM	8	0	19.36	19.42	19.25				
5	16QAM	8	4	19.39	19.62	19.65			21	2
5	16QAM	8	7	19.59	19.25	19.24				
5	16QAM	15	0	19.40	19.41	19.10				
5	256QAM	1	0	18.48	18.41	18.37				
5	256QAM	1	8	18.43	18.51	18.49			19	4
5	256QAM	1	16	18.48	18.40	18.35				
5	256QAM	8	0	18.46	18.26	18.23				
5	256QAM	8	4	18.41	18.31	18.41			19	4
5	256QAM	8	7	18.48	18.40	18.45				
5	256QAM	15	0	18.20	18.20	18.69				
1.4	QPSK	1	0	22.08	22.10	21.94				
1.4	QPSK	1	5	22.09	22.07	22.05				
1.4	QPSK	1	9	22.01	22.13	22.05			23	0
1.4	QPSK	3	0	22.08	22.11	22.21				
1.4	QPSK	3	3	22.10	22.10	22.02				
1.4	QPSK	3	6	22.07	22.05	21.91				
1.4	QPSK	3	9	21.90	21.92	21.99			22	1
1.4	16QAM	1	0	21.50	21.52	21.52				
1.4	16QAM	1	3	21.80	21.62	21.52				
1.4	16QAM	1	6	21.75	21.68	21.42			22	1
1.4	16QAM	3	0	21.38	21.37	21.37				
1.4	16QAM	3	1	21.65	21.39	21.28				
1.4	16QAM	3	3	21.51	21.19	21.59			21	2
1.4	16QAM	6	0	20.83	20.83	20.84			21	2
1.4	16QAM	6	0	20.76	20.38	20.42				
1.4	16QAM	3	0	20.68	20.51	20.39				
1.4	16QAM	3	3	20.66	20.34	20.34				



Band 38 Ant 1 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.61	22.64	22.68			
20	QPSK	1	49	22.65	22.62	22.67	24	0	
20	QPSK	50	50	22.69	22.63	22.66			
20	QPSK	50	0	21.97	21.79	21.66			
20	QPSK	50	24	21.68	21.68	21.77	23	1	
20	QPSK	50	49	21.98	21.68	21.77			
20	QPSK	100	0	21.84	21.73	21.72			
20	16QAM	1	0	21.79	21.92	21.88			
20	16QAM	1	49	21.73	21.83	21.78	29	1	
20	16QAM	50	50	20.61	20.78	20.74			
20	16QAM	50	0	20.60	20.73	20.74			
20	16QAM	50	24	20.74	20.72	20.77	22	2	
20	16QAM	50	49	20.71	20.71	20.75			
20	64QAM	1	0	20.48	20.51	20.48			
20	64QAM	1	49	20.36	20.42	20.38	22	2	
20	64QAM	50	50	19.29	19.34	19.33			
20	64QAM	50	0	19.58	19.65	19.65			
20	64QAM	50	24	19.65	19.67	19.74	21	3	
20	64QAM	50	49	19.62	19.73	19.70			
20	256QAM	1	0	19.73	19.69	19.77			
20	256QAM	1	49	18.56	18.53	18.47			
20	256QAM	50	50	18.51	18.46	18.50	19	5	
20	256QAM	50	0	18.47	18.53	18.47			
20	256QAM	50	0	18.50	18.60	18.67			
20	256QAM	50	24	18.55	18.58	18.65	19	5	
20	256QAM	50	49	18.67	18.63	18.67			
20	256QAM	100	0	18.67	18.63	18.67			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.21	22.24	22.28			
15	QPSK	1	37	22.21	22.58	22.62	24	0	
15	QPSK	1	74	22.49	22.62	22.60			
15	QPSK	36	0	21.26	21.66	21.66			
15	QPSK	36	29	21.07	21.69	21.70	23	1	
15	QPSK	36	39	21.58	21.69	21.65			
15	QPSK	75	0	21.63	21.69	21.64			
15	16QAM	1	0	21.78	21.82	21.83			
15	16QAM	1	37	21.74	21.78	21.78	23	1	
15	16QAM	1	74	21.99	21.81	21.78			
15	16QAM	36	0	20.52	20.65	20.64			
15	16QAM	36	29	20.65	20.71	20.67	22	2	
15	16QAM	36	39	20.57	20.71	20.69			
15	16QAM	75	0	20.69	20.70	20.69			
15	64QAM	1	0	20.43	20.51	20.48			
15	64QAM	1	37	20.32	20.41	20.38	22	2	
15	64QAM	1	74	20.30	20.37	20.36			
15	64QAM	36	0	19.56	19.66	19.67			
15	64QAM	36	29	19.70	19.72	19.68	21	3	
15	64QAM	36	39	19.61	19.71	19.68			
15	64QAM	75	0	19.71	19.73	19.68			
15	256QAM	1	0	18.48	18.73	18.77			
15	256QAM	1	37	18.50	18.42	18.51	19	5	
15	256QAM	1	74	18.43	18.54	18.56			
15	256QAM	36	0	18.57	18.60	18.54			
15	256QAM	36	29	18.55	18.60	18.59	19	5	
15	256QAM	36	39	18.61	18.60	18.60			
15	256QAM	75	0	18.58	18.54	18.64			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.72	22.68	22.73			
10	QPSK	1	25	22.68	22.77	22.69	24	0	
10	QPSK	25	0	22.72	22.61	22.67			
10	QPSK	25	0	21.97	21.87	21.83			
10	QPSK	25	12	21.93	21.88	21.98	23	1	
10	QPSK	25	25	21.83	21.79	21.98			
10	16QAM	1	0	21.84	22.06	22.06			
10	16QAM	1	25	21.94	21.74	21.73	23	1	
10	16QAM	25	0	21.81	21.88	21.83			
10	16QAM	25	12	20.82	20.83	20.81			
10	16QAM	25	12	20.59	20.52	20.51	22	2	
10	16QAM	25	25	20.72	20.96	20.95			
10	16QAM	50	0	20.78	20.90	20.82			
10	64QAM	1	0	20.84	20.91	20.82			
10	64QAM	1	25	20.57	20.60	20.82	22	2	
10	64QAM	25	0	20.84	20.93	20.88			
10	64QAM	25	0	19.76	19.78	19.88			
10	64QAM	25	12	19.70	19.64	19.95	21	3	
10	64QAM	25	12	19.67	19.63	19.83			
10	64QAM	50	0	19.53	19.63	19.63			
10	256QAM	1	0	18.42	18.60	18.61			
10	256QAM	1	25	18.58	18.36	18.42	19	5	
10	256QAM	1	49	18.38	18.43	18.47			
10	256QAM	25	0	18.61	18.62	18.63			
10	256QAM	25	12	18.64	18.61	18.68	19	5	
10	256QAM	25	25	18.27	18.77	18.81			
10	256QAM	50	0	18.67	18.67	18.77			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.74	22.80	22.76			
5	QPSK	1	12	22.78	22.75	22.73	24	0	
5	QPSK	12	0	22.57	22.80	22.38			
5	QPSK	12	0	21.86	21.82	21.87			
5	QPSK	12	7	21.56	21.63	21.64	23	1	
5	QPSK	12	13	21.56	21.61	21.54			
5	QPSK	25	0	21.84	21.70	21.93			
5	16QAM	1	0	21.82	22.04	21.97			
5	16QAM	1	12	21.78	21.96	21.95	23	1	
5	16QAM	1	24	21.83	22.04	21.87			
5	16QAM	12	0	20.41	20.87	20.87			
5	16QAM	12	7	20.72	20.88	20.73	22	2	
5	16QAM	12	13	20.83	20.45	20.45			
5	16QAM	25	0	20.66	20.71	20.72			
5	64QAM	1	0	20.46	20.44	20.46			
5	64QAM	1	12	20.61	20.88	20.82	22	2	
5	64QAM	1	24	20.53	20.78	20.65			
5	64QAM	12	0	19.67	19.91	19.64			
5	64QAM	12	7	19.88	19.91	19.78	21	3	
5	64QAM	12	13	19.88	19.70	19.83			
5	64QAM	25	0	19.72	19.67	19.73			
5	256QAM	1	0	18.45	18.43	18.61			
5	256QAM	1	12	18.61	18.74	18.63	19	5	
5	256QAM	1	24	18.37	18.41	18.33			
5	256QAM	12	0	18.49	18.77	18.67			
5	256QAM	12	7	18.61	18.74	18.63			
5	256QAM	12	13	18.48	18.74	18.75	19	5	
5	256QAM	25	0	18.63	18.61	18.71			

Band 38 Ant 2 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.05	23.18	23.08			
20	QPSK	1	49	23.15	23.16	23.14	24	0	
20	QPSK	50	50	22.92	23.05	23.03			
20	QPSK	50	0	21.91	22.02	21.90			
20	QPSK	50	24	21.56	21.87	21.95	23	1	
20	QPSK	50	49	21.87	21.91	21.97			
20	QPSK	100	0	21.96	21.99	21.97			
20	16QAM	1	0	21.80	21.81	21.80			
20	16QAM	1	49	21.85	21.88	21.86	29	1	
20	16QAM	50	50	20.23	20.25	20.23			
20	16QAM	50	0	20.84	20.85	20.84			
20	16QAM	50	24	20.93	20.94	20.92	22	2	
20	16QAM	50	49	20.92	20.98	20.98			
20	16QAM	100	0	20.88	20.89	20.88			
20	64QAM	1	0	20.87	20.98	20.96			
20	64QAM	1	49	21.16	21.19	21.17	22	2	
20	64QAM	50	50	19.21	19.23	19.21			
20	64QAM	50	0	19.94	19.96	19.93			
20	64QAM	50	24	19.98	19.99	19.97	21	3	
20	64QAM	50	49	19.99	20.01	19.98			
20	64QAM	100	0	19.97	19.99	19.98			
20	256QAM	1	0	17.50	17.58	17.51			



Band 41 (2.6G Band) Ant 1 DS16

BW (MHz)	Modulation	RB Size	RB Offset	Power				Tune-up limit (dBm)	MPR (dB)
				Power Low Ch / Freq	Power Middle Low Ch / Freq	Power Middle High Ch / Freq	Power High Ch / Freq		
Channel									
Frequency (MHz)									
				2545	2571	2598	2645		
20	QPSK	1	0	23.09	23.29	23.30	23.32		
20	QPSK	1	49	23.17	23.20	23.18	23.18	24	0
20	QPSK	50	50	23.29	23.43	23.38	23.43		
20	QPSK	50	0	23.21	23.37	23.08	21.99		
20	QPSK	50	24	23.21	23.28	23.32	23.32	23	1
20	QPSK	50	25	23.17	23.32	23.35	23.35		
20	QPSK	100	0	22.19	22.23	22.21	22.27		
20	16QAM	1	0	22.16	22.29	22.44	22.20		
20	16QAM	1	49	22.05	22.16	22.16	22.20	23	1
20	16QAM	50	50	22.18	22.43	22.38	22.43		
20	16QAM	50	0	21.28	21.34	21.30	21.03		
20	16QAM	50	24	21.30	21.37	21.32	21.38	22	2
20	16QAM	50	25	21.27	21.38	21.28	21.12		
20	16QAM	100	0	21.17	21.38	21.28	21.12		
20	64QAM	1	0	21.24	21.08	21.44	21.05		
20	64QAM	1	49	21.04	21.03	21.35	21.19	22	2
20	64QAM	50	50	21.41	21.24	21.41	21.29		
20	64QAM	50	0	20.35	20.13	20.93	20.16		
20	64QAM	50	24	20.48	20.41	20.35	20.31	21	3
20	64QAM	50	25	20.38	20.27	20.38	20.30		
20	64QAM	100	0	20.10	20.31	20.98	20.11		
20	256QAM	1	0	18.44	18.51	18.58	18.40		
20	256QAM	1	49	18.48	18.58	18.49	18.51	19	5
20	256QAM	50	50	18.35	18.60	18.97	18.47		
20	256QAM	50	0	18.73	18.64	18.63	18.69		
20	256QAM	50	24	18.63	18.58	18.65	18.61	19	5
20	256QAM	50	25	18.70	18.60	18.71	18.67		
20	256QAM	100	0	18.80	18.60	18.78	18.64		
Channel									
Frequency (MHz)									
				40115	40365	40685	41165	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	23.42	23.32	23.33	23.47		
15	QPSK	1	37	23.17	23.18	23.21	23.08	24	0
15	QPSK	1	74	23.17	23.24	23.22	23.40		
15	QPSK	36	0	22.24	22.02	22.08	21.96		
15	QPSK	36	29	22.47	22.67	22.68	22.18	23	1
15	QPSK	36	39	22.32	22.32	22.36	22.47		
15	QPSK	75	0	22.31	22.16	22.04	22.24		
15	16QAM	1	0	22.31	22.14	22.36	22.14		
15	16QAM	1	37	22.30	22.29	22.24	22.23	23	1
15	16QAM	1	74	22.32	22.28	22.48	22.19		
15	16QAM	36	0	21.14	21.22	21.08	21.09		
15	16QAM	36	29	21.37	21.39	21.23	21.19	22	2
15	16QAM	36	39	21.33	21.32	21.38	21.24		
15	16QAM	75	0	21.17	21.49	21.16	21.18		
15	64QAM	1	0	21.03	21.11	21.08	20.96		
15	64QAM	1	37	20.98	21.20	20.91	21.01	22	2
15	64QAM	1	74	21.22	21.14	21.22	21.04		
15	64QAM	36	0	20.18	20.15	20.21	20.29		
15	64QAM	36	29	20.31	20.32	20.28	20.23	21	3
15	64QAM	36	39	20.37	20.34	20.39	20.30		
15	64QAM	75	0	20.16	20.36	20.06	20.25		
15	256QAM	1	0	18.62	18.67	18.66	18.68		
15	256QAM	1	37	18.44	18.49	18.38	18.54	19	5
15	256QAM	1	74	18.43	18.72	18.36	18.44		
15	256QAM	36	0	18.72	18.62	18.54	18.68		
15	256QAM	36	29	18.93	18.90	18.92	18.87	19	5
15	256QAM	36	39	18.67	18.65	18.34	18.77		
15	256QAM	75	0	18.79	18.77	18.77	18.72		
Channel									
Frequency (MHz)									
				40960	40960	40960	41160	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	23.26	23.18	23.17	23.21		
10	QPSK	1	25	23.20	23.19	23.10	23.11	24	0
10	QPSK	1	50	23.32	23.32	23.32	23.32		
10	QPSK	25	0	22.37	22.28	22.15	22.08		
10	QPSK	25	12	22.56	22.50	22.37	22.45	23	1
10	QPSK	25	29	22.45	22.34	22.36	22.45		
10	QPSK	50	0	22.33	22.45	22.17	22.05		
10	16QAM	1	0	22.62	22.46	22.69	22.37		
10	16QAM	1	25	22.27	22.32	22.60	22.38	23	1
10	16QAM	1	49	22.47	22.47	22.44	22.27		
10	16QAM	25	0	21.32	21.23	21.57	21.14		
10	16QAM	25	12	21.51	21.44	21.34	21.47	22	2
10	16QAM	25	29	21.29	21.62	21.36	21.01		
10	16QAM	50	0	21.37	21.62	21.23	21.18		
10	64QAM	1	0	21.41	21.40	21.09	21.21		
10	64QAM	1	25	21.40	21.46	21.20	21.33	22	2
10	64QAM	1	49	21.45	21.31	21.38	21.20		
10	64QAM	25	0	20.27	20.10	20.22	20.28		
10	64QAM	25	12	20.37	20.51	20.47	20.47	21	3
10	64QAM	25	29	20.46	20.47	20.41	20.35		
10	64QAM	50	0	20.32	20.36	20.43	20.32		
10	256QAM	1	0	18.35	18.48	18.62	18.33		
10	256QAM	1	25	18.52	18.60	18.38	18.46	19	5
10	256QAM	1	49	18.34	18.60	18.56	18.47		
10	256QAM	25	0	18.68	18.64	18.59	18.68		
10	256QAM	25	12	18.70	18.63	18.66	18.70	19	5
10	256QAM	25	29	18.61	18.60	18.54	18.68		
10	256QAM	50	0	18.69	18.70	18.70	18.64		
Channel									
Frequency (MHz)									
				2037.5	2099.5	2001.5	2052.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	23.26	23.21	23.21	23.24		
5	QPSK	1	12	23.14	23.25	23.22	23.17	24	0
5	QPSK	1	24	23.16	23.15	23.06	22.95		
5	QPSK	12	0	22.46	22.29	22.45	22.32	23	1
5	QPSK	12	7	22.48	22.51	22.57	22.46		
5	QPSK	12	13	22.43	22.47	22.45	22.35	23	1
5	QPSK	25	0	22.47	22.41	22.27	22.45		
5	16QAM	1	0	22.23	22.22	22.18	22.17		
5	16QAM	1	24	22.50	22.29	22.06	22.48	23	1
5	16QAM	12	0	21.46	21.38	21.13	21.03		
5	16QAM	12	7	21.48	21.11	21.27	21.08	22	2
5	16QAM	12	13	21.44	21.38	21.53	21.37		
5	16QAM	25	0	21.35	21.27	21.23	21.35		
5	64QAM	1	0	21.20	21.41	21.45	21.26	22	2
5	64QAM	1	12	21.40	21.34	21.49	21.11		
5	64QAM	1	24	21.44	21.23	21.21	21.32		
5	64QAM	12	0	20.45	20.28	20.27	20.23	21	3
5	64QAM	12	7	20.49	20.50	20.63	20.29		
5	64QAM	12	13	20.33	20.28	20.41	20.18		
5	64QAM	25	0	20.39	20.41	20.46	20.29		
5	256QAM	1	0	18.50	18.54	18.72	18.33		
5	256QAM	1	12	18.63	18.59	18.57	18.56	19	5
5	256QAM	1	24	18.27	18.70	18.46	18.33		
5	256QAM	12	0	18.69	18.63	18.48	18.61		
5	256QAM	12	7	18.71	18.46	18.71	18.69	19	5
5	256QAM	12	13	18.78	18.64	18.50	18.63		
5	256QAM	25	0	18.66	18.60	18.70	18.62		

Band 41 Ant 2 DS16

BW (MHz)	Modulation	RB Size	RB Offset	Power				Tune-up limit (dBm)	MPR (dB)
				Power Low Ch / Freq	Power Middle Low Ch / Freq	Power Middle High Ch / Freq	Power High Ch / Freq		
Channel									
Frequency (MHz)									
				2545	2571	2598	2645		
20	QPSK	1	0	23.44	23.47	23.40	23.43		
20	QPSK	1	49	23.36	23.39	23.27	23.36	24	0
20	QPSK	1	243	23.43	23.46	23.43	23.46		
20	QPSK	50	0	22.49	22.60	22.48	22.48		
20	QPSK	50	24	22.46	22.48	22.45	22.47	23	1
20	QPSK	50	25	22.43	22.45	22.38	22.43		
20	QPSK	100	0	22.45	22.47	22.44	22.45		
20	16QAM	1	0	22.52	22.54	22.52	22.53		
20	16QAM	1	49	22.33	22.34	22.32	22.31	23	1
20	16QAM	50	50	22.48	22.48	22.48	22.48		
20	16QAM	50	0	21.50	21.53	21.56	21.56		
20	16QAM	50	24	21.46	21.49	21.46	21.48	22	2
20	16QAM	50	25	21.43	21.46	21.45	21.45		
20	16QAM	100	0	21.46	21.48	21.45	21.45		
20	64QAM	1	0	21.70	21.71	21.68	21.68		
20	64QAM	1	49	21.62	21.65	21.62	21.62	22	2
20	64QAM	50	50	21.72	21.73	21.71	21.71		
20	64QAM	50	0	20.52	20.54	20.53	20.53		
20	64QAM	50	24	20.44	20.45	20.43	20.43	21	3
20	64QAM	50	25	20.60	20.63	20.61	20.61		
20	64QAM	100	0	20.56	20.59	20.57	20.57		
20	256QAM	1	0	17.83	17.90	17.76	17.83		
20	256QAM	1	49	17.80	17.88	17.84	17.86	19	5
20	256QAM	50	50	17.83	17.86	17.80	17.81		
20									



Band 42 Ant 4 DSI6										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.33	22.39	22.36	23.5	0		
20	QPSK	1	49	22.28	22.34	22.28				
20	QPSK	1	98	22.23	22.29	22.26				
20	QPSK	50	0	21.47	21.52	21.48	23	0.5		
20	QPSK	50	24	21.36	21.40	21.36				
20	QPSK	50	48	21.21	21.25	21.21				
20	QPSK	100	0	21.28	21.32	21.25	23	0		
20	QPSK	100	24	21.18	21.22	21.22				
20	QPSK	100	48	21.08	21.12	21.08				
20	16QAM	1	0	21.25	21.28	21.22	23	0.5		
20	16QAM	1	49	21.28	21.32	21.27				
20	16QAM	1	98	21.35	21.35	21.31				
20	16QAM	50	0	20.50	20.54	20.51	22	1.5		
20	16QAM	50	24	20.44	20.48	20.43				
20	16QAM	50	48	20.37	20.40	20.36				
20	16QAM	100	0	20.29	20.36	20.32	22	1		
20	16QAM	100	24	20.34	20.38	20.35				
20	16QAM	100	48	20.35	20.40	20.35				
20	64QAM	1	0	20.30	20.35	20.29	22	1.5		
20	64QAM	1	49	20.35	20.40	20.35				
20	64QAM	1	98	20.30	20.35	20.29				
20	64QAM	50	0	19.86	19.72	19.87	21	2.5		
20	64QAM	50	24	19.87	19.61	19.58				
20	64QAM	50	48	19.87	19.63	19.60				
20	64QAM	100	0	19.45	19.50	19.44	20	4.5		
20	256QAM	1	0	17.05	17.18	17.25				
20	256QAM	1	49	17.10	17.15	17.14				
20	256QAM	1	98	17.26	17.21	17.24	19	4		
20	256QAM	50	0	17.19	17.25	17.35				
20	256QAM	50	24	17.15	17.18	17.41				
20	256QAM	50	48	17.52	17.15	17.38	19	4.5		
20	256QAM	100	0	17.06	17.09	17.18				
20	256QAM	100	24	17.05	17.09	17.18				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.28	22.29	22.29	23.5	0		
15	QPSK	1	37	22.22	22.29	22.24				
15	QPSK	1	74	22.21	22.25	22.19				
15	QPSK	36	0	21.43	21.46	21.42	23	0.5		
15	QPSK	36	20	21.38	21.32	21.32				
15	QPSK	36	39	21.17	21.25	21.19				
15	QPSK	75	0	21.22	21.26	21.21	23	0.5		
15	16QAM	1	0	21.19	21.23	21.15				
15	16QAM	1	37	21.20	21.26	21.21				
15	16QAM	1	74	21.24	21.31	21.25	22	1.5		
15	16QAM	36	0	20.46	20.49	20.47				
15	16QAM	36	20	20.38	20.41	20.40				
15	16QAM	36	39	20.31	20.35	20.32	22	1		
15	16QAM	75	0	20.24	20.32	20.26				
15	64QAM	1	0	20.38	20.31	20.31				
15	64QAM	1	37	20.31	20.36	20.29	22	1.5		
15	64QAM	1	74	20.24	20.32	20.24				
15	64QAM	36	0	19.60	19.59	19.63				
15	64QAM	36	20	19.52	19.57	19.52	21	2.5		
15	64QAM	36	39	19.52	19.58	19.57				
15	64QAM	75	0	19.41	19.47	19.37				
15	256QAM	1	0	17.06	17.20	17.26	19	4.5		
15	256QAM	1	37	17.09	17.15	17.15				
15	256QAM	1	74	17.06	17.23	17.33				
15	256QAM	36	0	17.20	17.24	17.38	19	4.5		
15	256QAM	36	20	17.13	17.14	17.40				
15	256QAM	36	39	17.12	17.12	17.39				
15	256QAM	75	0	17.06	17.07	17.18				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.27	22.34	22.32	23.5	0		
10	QPSK	1	25	22.25	22.30	22.23				
10	QPSK	1	49	22.22	22.26	22.22				
10	QPSK	25	0	21.44	21.45	21.44	23	0.5		
10	QPSK	25	12	21.31	21.33	21.32				
10	QPSK	25	25	21.21	21.26	21.26				
10	QPSK	50	0	21.24	21.26	21.20	23	0.5		
10	16QAM	1	0	21.22	21.21	21.16				
10	16QAM	1	25	21.19	21.26	21.24				
10	16QAM	1	49	21.23	21.26	21.26	22	1.5		
10	16QAM	25	0	20.43	20.51	20.45				
10	16QAM	25	12	20.39	20.43	20.36				
10	16QAM	25	25	20.31	20.36	20.30	22	1.5		
10	16QAM	50	0	20.24	20.30	20.29				
10	64QAM	1	0	20.29	20.31	20.31				
10	64QAM	1	25	20.31	20.36	20.30	22	1		
10	64QAM	1	49	20.33	20.29	20.22				
10	64QAM	25	0	19.62	19.67	19.63				
10	64QAM	25	12	19.51	19.57	19.55	21	2.5		
10	64QAM	25	25	19.50	19.59	19.56				
10	64QAM	50	0	19.40	19.45	19.38				
10	256QAM	1	0	17.07	17.17	17.27	19	4.5		
10	256QAM	1	25	17.10	17.15	17.14				
10	256QAM	1	49	17.04	17.20	17.34				
10	256QAM	25	0	17.18	17.22	17.38	19	4.5		
10	256QAM	25	12	17.16	17.14	17.39				
10	256QAM	25	25	17.11	17.12	17.41				
10	256QAM	50	0	17.06	17.07	17.15				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.28	22.28	22.26	23.5	0		
5	QPSK	1	12	22.23	22.30	22.25				
5	QPSK	1	24	22.19	22.25	22.21				
5	QPSK	12	0	21.43	21.45	21.43	23	0.5		
5	QPSK	12	7	21.31	21.36	21.32				
5	QPSK	12	13	21.16	21.24	21.17				
5	QPSK	25	0	21.22	21.26	21.22	23	0		
5	16QAM	1	0	21.20	21.22	21.19				
5	16QAM	1	12	21.21	21.28	21.22				
5	16QAM	1	24	21.22	21.28	21.26	23	0		
5	16QAM	12	0	20.45	20.49	20.44				
5	16QAM	12	7	20.40	20.44	20.37				
5	16QAM	12	13	20.33	20.36	20.30	22	1		
5	16QAM	25	0	20.23	20.30	20.27				
5	64QAM	1	0	20.30	20.33	20.29				
5	64QAM	1	12	20.30	20.34	20.31	22	1		
5	64QAM	1	24	20.25	20.28	20.22				
5	64QAM	12	0	19.60	19.68	19.61				
5	64QAM	12	7	19.50	19.57	19.52	21	2		
5	64QAM	12	13	19.52	19.58	19.56				
5	64QAM	25	0	19.39	19.46	19.39				
5	256QAM	1	0	17.06	17.20	17.26	19	4.5		
5	256QAM	1	12	17.11	17.14	17.13				
5	256QAM	1	24	17.17	17.21	17.34				
5	256QAM	12	0	17.21	17.23	17.37	19	4		
5	256QAM	12	7	17.15	17.15	17.41				
5	256QAM	12	13	17.12	17.14	17.41				
5	256QAM	25	0	17.08	17.07	17.17				

Band 42 Ant 4 DSI6 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										
Frequency (MHz)										
20	QPSK	1	0	22.13	22.39	22.36	23	0		
20	QPSK	1	49	22.28	22.34	22.28				
20	QPSK	1	98	22.26	22.30	22.26				
20	QPSK	50	0	21.47	21.52	21.48	23	0		
20	QPSK	50	24	21.39	21.40	21.36				
20	QPSK	50	48	21.28	21.32	21.25				
20	16QAM	1	0	21.25	21.28	21.22	23	0		
20	16QAM	1	49	21.28	21.32	21.27				
20	16QAM	1	98	21.28	21.35	21.31				
20	16QAM	50	0	20.50	20.54	20.51	22	1		
20	16QAM	50	24	20.44	20.48	20.43				
20	16QAM	100	0	20.29	20.36	20.32				
20	64QAM	1	0	20.34	20.38	20.35	22	1		
20	64QAM	1	49	20.35	20.40	20.35				
20	64QAM	1	98	20.30	20.35	20.29				
20	64QAM	50	0	19.66	19.72	19.67	21	2		
20	64QAM	50	24	19.57	19.61	19.58				
20	64QAM	50	48	19.45	19.50	19.44				
20	256QAM	1	0	17.05	17.18	17.25	19	4		
20	256QAM	1	49	17.10	17.15	17.14				
20	256QAM	1	98	17.06	17.21	17.34				
20	256QAM	50	0	17.19	17.25	17.35	19	4		
20	256QAM	50	24	17.15	17.16	17.41				
20	256QAM	50	48	17.52	17.15	17.38				
20	256QAM	100	0	17.06	17.09	17.18				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.28	22.29	22.29	23	0		
15	QPSK	1	37	22.22	22.29	22.24				
15	QPSK	1	74	22.21	22.25	22.19				
15	QPSK	36	0	21.43	21.46	21.42	23	0		
15	QPSK	36	20	21.38	21.32	21.32				
15	QPSK	36	39	21.17	21.25	21.19				
15	QPSK	75	0	21.22	21.26	21.21	23	0		
15	16QAM	1	0	21.19	21.23	21.15				
15	16QAM	1	37	21.20	21.26	21.21				
15	16QAM	1	74	21.24	21.31					

UL CA Conducted Power

Ant 1 Full Power								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	0	1	99	22.74	24
21100	20902	QPSK	1	0	1	99	22.76	24
21350	21152	QPSK	1	0	1	99	22.72	24

Ant 1 DSI3 Standalone								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	0	1	99	19.58	20.5
21100	20902	QPSK	1	0	1	99	19.67	20.5
21350	21152	QPSK	1	0	1	99	19.49	20.5

Ant 1 DSI3 Simultaneous								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	0	1	99	16.58	17.5
21100	20902	QPSK	1	0	1	99	16.77	17.5
21350	21152	QPSK	1	0	1	99	16.61	17.5

Ant 1 DSI6								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	0	1	99	22.68	23.8
21100	20902	QPSK	1	0	1	99	22.77	23.8
21350	21152	QPSK	1	0	1	99	22.71	23.8



2CA DL Conducted Power

Configure	PCC										SCC					Power	
	LTE	Ant	BW	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA		
	Band		(MHz)	Freq (MHz)		Channel	RB		Offset	Band	(MHz)	Freq (MHz)		Channel	Tx Power (dBm)	Tx Power (dBm)	
CA_2C	Band 2	1	20M	1880	18900	QPSK	1	0		Band 2	20M	1979.8	1098		22.69	22.88	
CA_4A-4A	Band 4	1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	22.75	22.80	
CA_4A-5A	Band 4	1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		22.75	22.80	
	Band 5	1	10M	836.5	20525	QPSK	1	0		Band 4	5M	2152.5	2375	4xMIMO	22.67	22.71	
CA_4A-7A	Band 4	1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	22.78	22.80	
	Band 7	1	20M	2535	21100	QPSK	1	0		Band 4	5M	2152.5	2375	4xMIMO	22.79	22.85	
CA_4A-12A	Band 4	1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 12	10M	737.5	5095		22.65	22.80	
	Band 12	1	10M	707.5	23095	QPSK	1	0		Band 4	5M	2152.5	2375	4xMIMO	22.88	22.96	
CA_4A-17A	Band 4	1	10M	1715	20000	QPSK	1	25	4xMIMO	Band 17	10M	740	5790		22.62	22.80	
	Band 17	1	10M	1732.5	20175	QPSK	1	0		Band 4	10M	2152.5	2375	4xMIMO	22.81	22.94	
CA_5A-7A	Band 5	1	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4xMIMO	22.64	22.71	
	Band 7	1	20M	2535	21100	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		22.71	22.85	
CA_5A-38A	Band 5	1	10M	836.5	20525	QPSK	1	0		Band 38	20M	2595	38000	4xMIMO	22.62	22.71	
	Band 38	1	20M	2585.1	37901	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		22.77	22.84	
CA_5A-41A	Band 5	1	10M	836.5	20525	QPSK	1	0		Band 41	20M	2571	40400	4xMIMO	22.56	22.71	
	Band 41	1	20M	2571	40400	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		23.11	23.29	
CA_7B	Band 7	1	15M	2535	21100	QPSK	1	0	4xMIMO	Band 7	5M	2664.3	3193	4xMIMO	22.53	22.62	
CA_7A-26A	Band 7	1	20M	2535	21100	QPSK	1	0	4xMIMO	Band 26	15M	876.5	8865		22.73	22.85	
	Band 26	1	15M	831.5	26865	QPSK	1	0		Band 7	5M	2664.3	3193	4xMIMO	22.79	22.86	
CA_7A-42A	Band 7	1	20M	2535	21100	QPSK	1	0	4xMIMO	Band 42	20M	3500	42590	4xMIMO	22.71	22.85	
	Band 42	4	20M	3500	42590	QPSK	1	0	4xMIMO	Band 7	5M	2664.3	3193	4xMIMO	22.18	22.39	
CA_12A-66A	Band 12	1	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886		22.83	22.96	
	Band 66	1	20M	1745	132322	QPSK	1	0		Band 12	10M	737.5	5095		22.61	22.69	
CA_26A-41A	Band 26	1	15M	831.5	26865	QPSK	1	0		Band 41	20M	2571	40400	4xMIMO	22.65	22.86	
	Band 41	1	20M	2571	40400	QPSK	1	0	4xMIMO	Band 26	15M	876.5	8865		23.17	23.29	
CA_38C	Band 38	1	20M	2585.1	37901	QPSK	1	0	4xMIMO	Band 38	20M	2604.9	38099	4xMIMO	22.78	22.84	
	Band 41	1	20M	2571	40400	QPSK	1	0	4xMIMO	Band 42	20M	3500	42590	4xMIMO	23.19	23.29	
CA_41A-42A	Band 42	4	20M	3500	42590	QPSK	1	0	4xMIMO	Band 41	20M	2571	40400	4xMIMO	22.21	22.39	
CA_66B	Band 66	1	15M	1745	132322	QPSK	1	0		Band 66	5M	2164.3	66979		22.34	22.47	
CA_66C	Band 66	1	20M	1745	132322	QPSK	1	0		Band 66	20M	2174.8	67084		22.51	22.69	



3CA DL Conducted Power

Configure	PCC									SCC1					SCC2					Power	
	LTE	Ant	BW	UL	Mod.	ULF	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA	
	Band		(MHz)	Freq (MHz)		Channel	RB			RB Offset	(MHz)	Channel			(MHz)	Channel	Tx Power (dBm)		Tx Power (dBm)		
CA_2A-4A-5A	Band 2	1	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525		22.71	22.88
	Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1979.8	1098		Band 5	10M	881.5	2525		22.61	22.80
CA_2A-7C	Band 5	1	10M	836.5	20525	QPSK	1	0		Band 2	20M	1979.8	1098		Band 4	5M	2152.5	2375	4x4MIMO	22.59	22.71
	Band 2	1	20M	1880	18900	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2674.8	3298	4x4MIMO	22.77	22.88
CA_2A-7A-7A	Band 7	1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2674.8	3298	4x4MIMO	Band 2	20M	1979.8	1098		22.67	22.85
	Band 2	1	20M	1880	18900	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	22.69	22.88
CA_4A-7C	Band 7	1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 2	20M	1979.8	1098		22.69	22.85
	Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2674.8	3298	4x4MIMO	22.75	22.80
CA_5A-7C	Band 7	1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2674.8	3298	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.73	22.85
	Band 5	1	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2674.8	3298	4x4MIMO	22.69	22.71
CA_5A-66A-66A	Band 7	1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2674.8	3298	4x4MIMO	Band 5	10M	881.5	2525		22.61	22.85
	Band 5	1	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886		Band 66	5M	2197.5	67311		22.51	22.71
CA_7C-66A	Band 66	1	20M	1745	132322	QPSK	1	0		Band 66	5M	2197.5	67311		Band 5	10M	881.5	2525		22.54	22.69
	Band 66	1	20M	1745	132322	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2674.8	3298	4x4MIMO	22.59	22.69
CA_7A-66A-66A	Band 7	1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 66	5M	2197.5	67311		22.74	22.85
	Band 66	1	20M	1745	132322	QPSK	1	0		Band 66	20M	2155	66886		Band 66	5M	2197.5	67311		22.78	22.85
CA_41D	Band 66	1	20M	1745	132322	QPSK	1	0		Band 66	5M	2197.5	67311		Band 7	20M	2655	3100	4x4MIMO	22.68	22.69
	Band 41	1	20M	2571	40400	QPSK	1	0	4x4MIMO	Band 41	20M	2590.8	40598	4x4MIMO	Band 41	20M	2610.6	40796	4x4MIMO	23.06	23.29
CA_41A-41C	Band 41	1	20M	2571	40400	QPSK	1	0	4x4MIMO	Band 41	20M	2590.8	40598	4x4MIMO	Band 41	5M	2650	41190	4x4MIMO	23.05	23.29
	Band 41	1	20M	2571	40400	QPSK	1	0	4x4MIMO	Band 41	5M	2650	41190	4x4MIMO	Band 41	20M	2545	40140	4x4MIMO	23.07	23.29
CA_41C-42A	Band 41	1	20M	2571	40400	QPSK	1	0	4x4MIMO	Band 41	20M	2590.8	40598	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	23.12	23.29
	Band 42	4	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2590.8	40598	4x4MIMO	Band 41	5M	2650	41190	4x4MIMO	22.31	22.39
CA_41A-42C	Band 41	1	20M	2571	40400	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	23.08	23.29
	Band 42	4	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 41	20M	2590.8	40598	4x4MIMO	22.33	22.39
CA_42D	Band 42	4	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 42	20M	3539.8	42986	4x4MIMO	22.28	22.39



Default Power/Pmax Power for 5G NR

n5 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI/2 BPSK	1	1	23.37	23.33	23.36	24.0	0.0	
20	PI/2 BPSK	1	53	23.32	23.37	23.31			
20	PI/2 BPSK	1	104	23.12	23.15	23.10			
20	PI/2 BPSK	50	0	22.87	22.92	22.86	23.5	0.5	
20	PI/2 BPSK	50	28	23.30	23.35	23.31	24.0	0.0	
20	PI/2 BPSK	50	56	22.69	22.75	22.71	23.5	0.5	
20	PI/2 BPSK	100	0	22.85	22.90	22.84			
20	QPSK	1	1	23.27	23.41	23.26	24.0	0.0	
20	QPSK	1	53	23.15	23.21	23.18			
20	QPSK	1	104	23.10	23.16	23.09			
20	QPSK	50	0	22.34	22.39	22.33	23.0	1.0	
20	QPSK	50	28	23.35	23.38	23.32	24.0	0.0	
20	QPSK	50	56	22.20	22.27	22.21	23.0	1.0	
20	QPSK	100	0	22.29	22.33	22.30			
20	16QAM	1	1	23.25	23.31	23.25	24.0	0.0	
20	64QAM	1	1	20.59	20.65	20.60	21.5	2.5	
20	256QAM	1	1	19.07	19.11	19.05	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	23.23	23.37	23.19	24.0	0.0	
Channel				168800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	23.21	23.34	23.21	24.0	0.0	
Channel				169300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	23.21	23.31	23.22	24.0	0.0	

n7 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI/2 BPSK	1	1	22.65	22.69	22.64	24.0	0.0	
50	PI/2 BPSK	1	135	22.54	22.57	22.52			
50	PI/2 BPSK	1	268	22.53	22.57	22.52			
50	PI/2 BPSK	135	0	22.01	22.05	22.00	23.5	0.5	
50	PI/2 BPSK	135	68	22.47	22.52	22.45	24.0	0.0	
50	PI/2 BPSK	135	135	22.03	22.07	22.01	23.5	0.5	
50	PI/2 BPSK	270	0	21.96	22.01	21.96			
50	QPSK	1	1	22.62	22.65	22.78	24.0	0.0	
50	QPSK	1	135	22.74	22.79	22.76			
50	QPSK	1	268	22.58	22.65	22.58			
50	QPSK	135	0	21.50	21.56	21.52	23.0	1.0	
50	QPSK	135	68	22.52	22.58	22.53	24.0	0.0	
50	QPSK	135	135	21.55	21.61	21.57	23.0	1.0	
50	QPSK	270	0	21.50	21.55	21.51			
50	16QAM	1	1	22.57	22.61	22.57	23.0	1.0	
50	64QAM	1	1	20.35	20.39	20.34	21.5	2.5	
50	256QAM	1	1	17.97	18.03	18.00	19.5	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	22.68	22.70	22.62	24.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	22.63	22.70	22.64	24.0	0.0	
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	22.69	22.68	22.66	24.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	22.65	22.64	22.53	24.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	22.68	22.63	22.64	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	22.58	22.61	22.64	24.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	22.70	22.54	22.65	24.0	0.0	



n7 Ant 2									
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				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI/2 BPSK	1	1	22.54	22.59	22.52	24.0	0.0	
50	PI/2 BPSK	1	135	22.58	22.61	22.54			
50	PI/2 BPSK	1	268	22.62	22.66	22.59			
50	PI/2 BPSK	135	0	22.04	22.07	22.00	23.5	0.5	
50	PI/2 BPSK	135	68	22.61	22.64	22.60	24.0	0.0	
50	PI/2 BPSK	135	135	22.05	22.09	22.02	23.5	0.5	
50	PI/2 BPSK	270	0	21.99	22.04	22.00			
50	QPSK	1	1	22.61	22.79	22.62	24.0	0.0	
50	QPSK	1	135	22.73	22.72	22.78			
50	QPSK	1	268	22.69	22.75	22.69			
50	QPSK	135	0	21.53	21.60	21.55	23.0	1.0	
50	QPSK	135	68	22.65	22.70	22.63	24.0	0.0	
50	QPSK	135	135	21.56	21.62	21.59	23.0	1.0	
50	QPSK	270	0	21.55	21.61	21.54			
50	16QAM	1	1	22.68	22.75	22.68	23.0	1.0	
50	64QAM	1	1	20.13	20.19	20.15	21.5	2.5	
50	256QAM	1	1	18.29	18.33	18.29	19.5	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550	24.0	0.0	
40	QPSK	1	1	22.55	22.69	22.56	24.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	24.0	0.0	
30	QPSK	1	1	22.56	22.68	22.55	24.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	24.0	0.0	
25	QPSK	1	1	22.57	22.69	22.55	24.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	19.5	4.5	
20	QPSK	1	1	22.55	22.66	22.58	19.5	4.5	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	24.0	0.0	
15	QPSK	1	1	22.57	22.69	22.56	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	24.0	0.0	
10	QPSK	1	1	22.54	22.72	22.59	24.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	24.0	0.0	
5	QPSK	1	1	22.57	22.64	22.57	24.0	0.0	

n66 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	23.22	23.27	23.21	24.0	0.0	
40	PI/2 BPSK	1	108	23.18	23.24	23.21			
40	PI/2 BPSK	1	214	22.92	22.98	22.92			
40	PI/2 BPSK	108	0	21.60	21.65	21.61	23.5	0.5	
40	PI/2 BPSK	108	54	23.06	23.09	23.05	24.0	0.0	
40	PI/2 BPSK	108	108	21.62	21.67	21.62	23.5	0.5	
40	PI/2 BPSK	216	0	21.62	21.66	21.60			
40	QPSK	1	1	23.24	23.28	23.23	24.0	0.0	
40	QPSK	1	108	23.20	23.25	23.18			
40	QPSK	1	214	22.93	22.99	22.94			
40	QPSK	108	0	21.07	21.12	21.07	23.0	1.0	
40	QPSK	108	54	23.09	23.12	23.08	24.0	0.0	
40	QPSK	108	108	21.13	21.17	21.13	23.0	1.0	
40	QPSK	216	0	21.10	21.15	21.10			
40	16QAM	1	1	21.22	21.28	21.23	22.0	2.0	
40	64QAM	1	1	19.71	19.75	19.71	21.5	2.5	
40	256QAM	1	1	17.99	17.82	17.98	19.5	4.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	24.0	0.0	
30	QPSK	1	1	23.21	23.22	23.18	24.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	24.0	0.0	
20	QPSK	1	1	23.20	23.24	23.20	24.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0	
15	QPSK	1	1	23.20	23.24	23.17	24.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	24.0	0.0	
10	QPSK	1	1	23.20	23.23	23.18	24.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0	
5	QPSK	1	1	23.17	23.24	23.19	24.0	0.0	



Par270 n77_FCC Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq			
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	23.02	23.08	23.00	24.0	0.0	
100	PI/2 BPSK	1	137	23.25	23.32	23.27			
100	PI/2 BPSK	1	271	23.21	23.39	23.35			
100	PI/2 BPSK	135	0	22.57	22.63	22.57	23.5	0.5	
100	PI/2 BPSK	135	69	23.21	23.24	23.20	24.0	0.0	
100	PI/2 BPSK	135	138	22.78	22.83	22.77	23.5	0.5	
100	PI/2 BPSK	270	0	22.69	22.74	22.68			
100	QPSK	1	1	23.24	23.40	23.22			
100	QPSK	1	137	23.31	23.37	23.31	24.0	0.0	
100	QPSK	1	271	23.29	23.39	23.30			
100	QPSK	135	0	22.09	22.14	22.10			
100	QPSK	135	69	23.23	23.26	23.25	24.0	0.0	
100	QPSK	135	138	22.26	22.32	22.27	23.0	1.0	
100	QPSK	270	0	22.21	22.27	22.21			
100	16QAM	1	1	22.16	22.21	22.14			
100	64QAM	1	1	20.25	20.32	20.28	21.5	2.5	
100	256QAM	1	1	18.42	18.47	18.43	19.5	4.5	
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	23.22	23.29	23.19	24.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	23.24	23.30	23.19	24.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	23.25	23.30	23.18	24.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	23.23	23.31	23.19	24.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	23.23	23.29	23.20	24.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	23.25	23.30	23.20	24.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	23.23	23.31	23.20	24.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	23.22	23.32	23.21	24.0	0.0	

Par270 n78_FCC Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq			
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1	22.96	23.01	22.94	24.0	0.0	
100	PI/2 BPSK	1	137	23.21	23.27	23.20			
100	PI/2 BPSK	1	271	23.10	23.17	23.21			
100	PI/2 BPSK	135	0	21.49	21.55	21.49	23.5	0.5	
100	PI/2 BPSK	135	69	23.10	23.17	23.12	24.0	0.0	
100	PI/2 BPSK	135	138	21.57	21.62	21.57	23.5	0.5	
100	PI/2 BPSK	270	0	21.53	21.58	21.52			
100	QPSK	1	1	23.21	23.37	23.28			
100	QPSK	1	137	23.19	23.22	23.18	24.0	0.0	
100	QPSK	1	271	22.92	23.19	23.05			
100	QPSK	135	0	21.03	21.06	21.00			
100	QPSK	135	69	23.13	23.19	23.13	24.0	0.0	
100	QPSK	135	138	21.09	21.13	21.09	23.0	1.0	
100	QPSK	270	0	21.04	21.08	21.04			
100	16QAM	1	1	22.11	22.15	22.11			
100	64QAM	1	1	19.44	19.49	19.45	21.5	2.5	
100	256QAM	1	1	17.36	17.42	17.36	19.5	4.5	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	23.06	23.23	23.12	24.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	23.07	23.24	23.12	24.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	23.08	23.21	23.13	24.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	23.04	23.21	23.14	24.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	23.06	23.21	23.13	24.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	23.04	23.22	23.13	24.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	23.07	23.23	23.13	24.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	23.07	23.22	23.12	24.0	0.0	



Par27Q n77_FCC Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1	22.62				
100	PI/2 BPSK	1	137	22.61			24.0	0.0
100	PI/2 BPSK	1	271	22.69				
100	PI/2 BPSK	135	0	22.12			23.5	0.5
100	PI/2 BPSK	135	69	22.65			24.0	0.0
100	PI/2 BPSK	135	138	22.07			23.5	0.5
100	PI/2 BPSK	270	0	22.07				
100	QPSK	1	1	22.71				
100	QPSK	1	137	22.65			24.0	0.0
100	QPSK	1	271	22.54				
100	QPSK	135	0	21.63			23.0	1.0
100	QPSK	135	69	22.67			24.0	0.0
100	QPSK	135	138	21.53			23.0	1.0
100	QPSK	270	0	21.60				
100	16QAM	1	1	21.60			23.0	1.0
100	64QAM	1	1	20.20			21.5	2.5
100	256QAM	1	1	18.09			19.5	4.5
Channel				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3504.99		
90	QPSK	1	1	22.58	22.67	22.64	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.58	22.67	22.62	24.0	0.0
Channel				632334	633334	634332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3514.98		
70	QPSK	1	1	22.59	22.67	22.62	24.0	0.0
Channel				632000	633334	634666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3519.99		
60	QPSK	1	1	22.62	22.68	22.64	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	22.60	22.66	22.62	24.0	0.0
Channel				631334	633334	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3529.98		
40	QPSK	1	1	22.62	22.66	22.64	24.0	0.0
Channel				631000	633334	635666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3534.99		
30	QPSK	1	1	22.60	22.65	22.62	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.59	22.65	22.64	24.0	0.0

Part27Q n78_FCC Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1	22.47				
100	PI/2 BPSK	1	137	22.60			24.0	0.0
100	PI/2 BPSK	1	271	22.60				
100	PI/2 BPSK	135	0	21.04			23.5	0.5
100	PI/2 BPSK	135	69	22.44			24.0	0.0
100	PI/2 BPSK	135	138	21.28			23.5	0.5
100	PI/2 BPSK	270	0	21.21				
100	QPSK	1	1	22.63				
100	QPSK	1	137	22.52			24.0	0.0
100	QPSK	1	271	22.45				
100	QPSK	135	0	20.49			23.0	1.0
100	QPSK	135	69	22.60			24.0	0.0
100	QPSK	135	138	20.85			23.0	1.0
100	QPSK	270	0	20.72				
100	16QAM	1	1	20.73			23.0	1.0
100	64QAM	1	1	18.71			21.5	2.5
100	256QAM	1	1	17.24			19.5	4.5
Channel				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3504.99		
90	QPSK	1	1	22.48	22.57	22.53	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.51	22.59	22.55	24.0	0.0
Channel				632334	633334	634332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3514.98		
70	QPSK	1	1	22.52	22.57	22.54	24.0	0.0
Channel				632000	633334	634666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3519.99		
60	QPSK	1	1	22.50	22.56	22.55	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	22.48	22.60	22.53	24.0	0.0
Channel				631334	633334	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3529.98		
40	QPSK	1	1	22.50	22.60	22.53	24.0	0.0
Channel				631000	633334	635666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3534.99		
30	QPSK	1	1	22.52	22.60	22.53	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	PI/2 BPSK	1	1	22.50	22.58	22.56	24.0	0.0



Reduced Power Mode for 5G NR

n5 Ant 2 DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				168800	167300	167800	24.0	0.0
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.37	23.33	23.36	24.0	0.0
20	PI/2 BPSK	1	53	23.32	23.37	23.31		
20	PI/2 BPSK	1	104	23.12	23.15	23.10		
20	PI/2 BPSK	50	0	22.87	22.92	22.86		
20	PI/2 BPSK	50	28	23.30	23.35	23.31	24.0	0.0
20	PI/2 BPSK	50	56	22.69	22.75	22.71	23.5	0.5
20	PI/2 BPSK	100	0	22.85	22.90	22.84		
20	QPSK	1	1	23.27	23.41	23.26	24.0	0.0
20	QPSK	1	53	23.15	23.21	23.18		
20	QPSK	1	104	23.10	23.16	23.09		
20	QPSK	50	0	22.34	22.39	22.33		
20	QPSK	50	28	23.35	23.38	23.32	24.0	0.0
20	QPSK	50	56	22.20	22.27	22.21	23.0	1.0
20	QPSK	100	0	22.29	22.33	22.30		
20	16QAM	1	1	23.25	23.31	23.25	24.0	0.0
20	64QAM	1	1	20.59	20.65	20.60	21.5	2.5
20	256QAM	1	1	19.07	19.11	19.05	19.5	4.5
Channel				166300	167300	168300	24.0	0.0
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.23	23.37	23.19	24.0	0.0
Channel				168800	167300	168800	24.0	0.0
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.21	23.34	23.21	24.0	0.0
Channel				165300	167300	169300	24.0	0.0
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.21	23.31	23.22	24.0	0.0

n5 Ant 2 DSI2 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				166800	167300	167800	23.2	0.0
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	22.23	22.29	22.24	23.2	0.0
20	PI/2 BPSK	1	53	22.28	22.35	22.30		
20	PI/2 BPSK	1	104	22.31	22.29	22.24		
20	PI/2 BPSK	50	0	22.20	22.24	22.19		
20	PI/2 BPSK	50	28	22.23	22.29	22.24	23.2	0.0
20	PI/2 BPSK	50	56	22.33	22.29	22.26	23.2	0.0
20	PI/2 BPSK	100	0	22.25	22.28	22.22		
20	QPSK	1	1	22.36	22.41	22.34	23.2	0.0
20	QPSK	1	53	22.24	22.29	22.23		
20	QPSK	1	104	22.31	22.28	22.35		
20	QPSK	50	0	22.30	22.25	22.32		
20	QPSK	50	28	22.20	22.33	22.21	23.2	0.0
20	QPSK	50	56	22.25	22.29	22.23	23.0	0.2
20	QPSK	100	0	22.28	22.31	22.29		
20	16QAM	1	1	22.30	22.35	22.30	23.0	0.2
20	64QAM	1	1	20.51	20.52	20.60	21.5	1.7
20	256QAM	1	1	19.03	19.09	19.05	19.5	3.7
Channel				166300	167300	168300	23.2	0.0
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.20	22.30	22.26	23.2	0.0
Channel				165800	167300	168800	23.2	0.0
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.19	22.32	22.18	23.2	0.0
Channel				165300	167300	169300	23.2	0.0
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.19	22.32	22.21	23.2	0.0



n7 Ant 1 DS12								
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	22.65	22.69	22.64	24.0	0.0
50	PI/2 BPSK	1	135	22.54	22.57	22.52		
50	PI/2 BPSK	1	268	22.53	22.57	22.52		
50	PI/2 BPSK	135	0	22.01	22.06	22.00	23.5	0.5
50	PI/2 BPSK	135	68	22.47	22.52	22.45	24.0	0.0
50	PI/2 BPSK	135	135	22.03	22.07	22.01	23.5	0.5
50	PI/2 BPSK	270	0	21.96	22.01	21.96		
50	QPSK	1	1	22.82	22.65	22.78		
50	QPSK	1	135	22.74	22.79	22.76	24.0	0.0
50	QPSK	1	268	22.58	22.65	22.58		
50	QPSK	135	0	21.50	21.56	21.52		
50	QPSK	135	68	22.52	22.58	22.53	24.0	0.0
50	QPSK	135	135	21.55	21.61	21.57	23.0	1.0
50	QPSK	270	0	21.50	21.55	21.51		
50	16QAM	1	1	22.57	22.61	22.57		
50	64QAM	1	1	20.35	20.39	20.34	21.5	2.5
50	256QAM	1	1	17.97	18.03	18.00	19.5	4.5
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	22.68	22.70	22.62	24.0	0.0
Channel				503000	507000	511000		
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.63	22.70	22.64	24.0	0.0
Channel				502500	507000	511500		
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.69	22.68	22.66	24.0	0.0
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	22.65	22.64	22.53	24.0	0.0
Channel				501500	507000	512500		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.68	22.63	22.64	24.0	0.0
Channel				501000	507000	513000		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.58	22.61	22.64	24.0	0.0
Channel				500500	507000	513500		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.70	22.54	22.65	24.0	0.0

n7 Ant 2 DS12								
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	16.64	16.66	16.56	17.4	0.0
50	PI/2 BPSK	1	135	16.46	16.53	16.47		
50	PI/2 BPSK	1	268	16.62	16.64	16.62		
50	PI/2 BPSK	135	0	16.54	16.64	16.64	17.4	0.0
50	PI/2 BPSK	135	68	16.58	16.58	16.47	17.4	0.0
50	PI/2 BPSK	135	135	16.57	16.66	16.63	17.4	0.0
50	PI/2 BPSK	270	0	16.48	16.38	16.59		
50	QPSK	1	1	16.58	16.57	16.63		
50	QPSK	1	135	16.57	16.61	16.51	17.4	0.0
50	QPSK	1	268	16.57	16.59	16.62		
50	QPSK	135	0	16.60	16.62	16.58		
50	QPSK	135	68	16.64	16.66	16.62	17.4	0.0
50	QPSK	135	135	16.62	16.61	16.52	17.4	0.0
50	QPSK	270	0	16.59	16.63	16.62		
50	16QAM	1	1	16.63	16.59	16.63		
50	64QAM	1	1	16.64	16.57	16.54	17.4	0.0
50	256QAM	1	1	16.57	16.66	16.64	17.4	0.0
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	16.48	16.54	16.52	17.4	0.0
Channel				503000	507000	511000		
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	16.46	16.54	16.48	17.4	0.0
Channel				502500	507000	511500		
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	16.43	16.58	16.56	17.4	0.0
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	16.48	16.52	16.46	17.4	0.0
Channel				501500	507000	512500		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	16.41	16.56	16.51	17.4	0.0
Channel				501000	507000	513000		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	16.45	16.51	16.54	17.4	0.0
Channel				500500	507000	513500		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	16.45	16.53	16.50	17.4	0.0



n7 Ant 2 DS12 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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	15.66	15.69	15.54		
50	PI/2 BPSK	1	135	15.50	15.58	15.50	16.4	0.0
50	PI/2 BPSK	1	268	15.66	15.63	15.61		
50	PI/2 BPSK	135	0	15.52	15.62	15.68	16.4	0.0
50	PI/2 BPSK	135	68	15.60	15.56	15.46	16.4	0.0
50	PI/2 BPSK	135	135	15.62	15.62	15.66		
50	PI/2 BPSK	270	0	15.50	15.37	15.64	16.4	0.0
50	QPSK	1	1	15.53	15.70	15.63		
50	QPSK	1	135	15.62	15.61	15.53	16.4	0.0
50	QPSK	1	268	15.59	15.60	15.60		
50	QPSK	135	0	15.64	15.67	15.58	16.4	0.0
50	QPSK	135	68	15.66	15.68	15.66	16.4	0.0
50	QPSK	135	135	15.63	15.63	15.47		
50	QPSK	270	0	15.57	15.65	15.57	16.4	0.0
50	16QAM	1	1	15.65	15.62	15.61	16.4	0.0
50	64QAM	1	1	15.64	15.54	15.56	16.4	0.0
50	256QAM	1	1	15.56	15.69	15.67	16.4	0.0
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	15.43	15.61	15.55	16.4	0.0
Channel				503000	507000	511000		
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	15.37	15.62	15.50	16.4	0.0
Channel				502500	507000	511500		
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	15.44	15.59	15.46	16.4	0.0
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	15.39	15.57	15.52	16.4	0.0
Channel				501500	507000	512500		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	15.40	15.62	15.51	16.4	0.0
Channel				501000	507000	513000		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	15.37	15.61	15.53	16.4	0.0
Channel				500500	507000	513500		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	15.38	15.53	15.56	16.4	0.0

n66 Ant 1 DS12

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	23.22	23.27	23.21		
40	PI/2 BPSK	1	108	23.18	23.24	23.21	24.0	0.0
40	PI/2 BPSK	1	214	22.92	22.98	22.92		
40	PI/2 BPSK	108	0	21.60	21.65	21.61	23.5	0.5
40	PI/2 BPSK	108	54	23.06	23.09	23.05	24.0	0.0
40	PI/2 BPSK	108	108	21.62	21.67	21.62		
40	PI/2 BPSK	216	0	21.62	21.66	21.60	23.5	0.5
40	QPSK	1	1	23.24	23.28	23.23		
40	QPSK	1	108	23.20	23.25	23.18	24.0	0.0
40	QPSK	1	214	22.93	22.99	22.94		
40	QPSK	108	0	21.07	21.12	21.07	23.0	1.0
40	QPSK	108	54	23.09	23.12	23.08	24.0	0.0
40	QPSK	108	108	21.13	21.17	21.13		
40	QPSK	216	0	21.10	21.15	21.10	23.0	1.0
40	16QAM	1	1	21.22	21.28	21.23	23.0	1.0
40	64QAM	1	1	19.71	19.75	19.71	21.5	2.5
40	256QAM	1	1	17.99	17.82	17.98	19.5	4.5
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.21	23.22	23.18	24.0	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.20	23.24	23.20	24.0	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.20	23.24	23.17	24.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.20	23.23	23.18	24.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.17	23.24	23.19	24.0	0.0



Par270 n77 Ant 4 DS12									
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq			
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	22.18	22.22	22.18	23.5	0.0	
100	PI/2 BPSK	1	137	22.06	22.10	22.04			
100	PI/2 BPSK	1	271	22.20	22.24	22.20			
100	PI/2 BPSK	135	0	21.93	21.97	21.93	23.5	0.0	
100	PI/2 BPSK	135	69	22.08	22.13	22.09	23.5	0.0	
100	PI/2 BPSK	135	138	22.13	22.19	22.15	23.5	0.0	
100	PI/2 BPSK	270	0	22.03	22.08	22.04			
100	QPSK	1	1	22.50	22.55	22.49	23.5	0.0	
100	QPSK	1	137	22.07	22.11	22.05			
100	QPSK	1	271	22.25	22.30	22.25			
100	QPSK	135	0	22.14	22.07	22.16	23.0	0.5	
100	QPSK	135	69	22.01	22.21	22.04	23.5	0.0	
100	QPSK	135	138	22.12	22.17	22.14	23.0	0.5	
100	QPSK	270	0	22.01	22.04	21.97			
100	16QAM	1	1	21.66	21.71	21.67	23.0	0.5	
100	64QAM	1	1	21.44	21.51	21.46	21.5	2.0	
100	256QAM	1	1	19.09	19.15	19.12	19.5	4.0	
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	22.33	22.38	22.36	23.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	22.36	22.44	22.35	23.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	22.36	22.44	22.41	23.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	22.40	22.42	22.33	23.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	22.33	22.46	22.37	23.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.38	22.46	22.38	23.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	22.38	22.38	22.37	23.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.38	22.45	22.39	23.5	0.0	

Par270 n77 Ant 4 DS12 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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	21.45	21.50	21.45	22.5	0.0	
100	PI/2 BPSK	1	137	21.71	21.77	21.72			
100	PI/2 BPSK	1	271	21.61	21.64	21.61			
100	PI/2 BPSK	135	0	21.36	21.43	21.39	22.5	0.0	
100	PI/2 BPSK	135	69	21.54	21.58	21.52	22.5	0.0	
100	PI/2 BPSK	135	138	21.54	21.57	21.53	22.5	0.0	
100	PI/2 BPSK	270	0	21.51	21.56	21.51			
100	QPSK	1	1	21.89	21.93	21.91	22.5	0.0	
100	QPSK	1	137	21.66	21.73	21.67			
100	QPSK	1	271	21.75	21.80	21.75			
100	QPSK	135	0	21.82	21.81	21.85	22.5	0.0	
100	QPSK	135	69	21.56	21.88	21.55	22.5	0.0	
100	QPSK	135	138	21.47	21.53	21.49	22.5	0.0	
100	QPSK	270	0	21.46	21.53	21.47			
100	16QAM	1	1	21.44	21.49	21.43	22.5	0.0	
100	64QAM	1	1	21.39	21.45	21.41	21.5	1.0	
100	256QAM	1	1	19.07	19.11	19.06	19.5	3.0	
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	21.78	21.87	21.77	22.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.84	21.82	21.83	22.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	21.79	21.87	21.81	22.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	21.77	21.90	21.80	22.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.84	21.87	21.79	22.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	21.86	21.84	21.81	22.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	21.86	21.88	21.85	22.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.85	21.83	21.80	22.5	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq		
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1	21.94	22.00	21.99	23.5	0.0
100	PI/2 BPSK	1	137	21.87	21.91	21.83		
100	PI/2 BPSK	1	271	21.95	22.06	22.03		
100	PI/2 BPSK	135	0	21.46	21.49	21.47	23.5	0.0
100	PI/2 BPSK	135	69	21.83	21.93	21.84	23.5	0.0
100	PI/2 BPSK	135	138	21.47	21.38	21.27	23.5	0.0
100	PI/2 BPSK	270	0	21.41	21.28	21.36		
100	QPSK	1	1	22.31	22.32	22.26		
100	QPSK	1	137	21.86	21.96	21.84	23.5	0.0
100	QPSK	1	271	22.09	22.13	22.03		
100	QPSK	135	0	21.07	21.09	21.05		
100	QPSK	135	69	21.85	22.02	21.79	23.5	0.0
100	QPSK	135	138	21.09	21.04	21.03	23.0	0.5
100	QPSK	270	0	21.06	21.09	21.04		
100	16QAM	1	1	21.46	21.53	21.46		
100	64QAM	1	1	19.34	19.41	19.25	21.5	2.0
100	256QAM	1	1	17.31	17.12	17.36	19.5	4.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.22	22.18	22.18	23.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.19	22.19	22.14	23.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.16	22.18	22.10	23.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	22.15	22.19	22.16	23.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.22	22.21	22.16	23.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.17	22.22	22.17	23.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	22.17	22.17	22.13	23.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.14	22.23	22.17	23.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq		
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1	21.27	21.34	21.27	22.5	0.0
100	PI/2 BPSK	1	137	21.50	21.55	21.54		
100	PI/2 BPSK	1	271	21.39	21.39	21.43		
100	PI/2 BPSK	135	0	21.19	21.25	21.21	22.5	0.0
100	PI/2 BPSK	135	69	21.38	21.39	21.32	22.5	0.0
100	PI/2 BPSK	135	138	21.35	21.37	21.31	22.5	0.0
100	PI/2 BPSK	270	0	21.29	21.40	21.26		
100	QPSK	1	1	21.75	21.78	21.71		
100	QPSK	1	137	21.41	21.53	21.43	22.5	0.0
100	QPSK	1	271	21.58	21.56	21.52		
100	QPSK	135	0	21.57	21.44	21.65		
100	QPSK	135	69	21.38	21.70	21.36	22.5	0.0
100	QPSK	135	138	21.01	21.03	21.06	22.5	0.0
100	QPSK	270	0	21.02	21.30	21.27		
100	16QAM	1	1	21.24	21.29	21.26		
100	64QAM	1	1	19.34	19.41	19.25	21.5	1.0
100	256QAM	1	1	17.31	17.12	17.36	19.5	3.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	21.67	21.64	21.56	22.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	21.58	21.53	21.44	22.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	21.59	21.58	21.43	22.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	21.57	21.48	21.47	22.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	21.57	21.55	21.41	22.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	21.58	21.51	21.40	22.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	21.53	21.55	21.39	22.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	21.51	21.55	21.44	22.5	0.0



Par27Q n77 Ant 4 DSI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1	22.21			23.5	0.0
100	PI/2 BPSK	1	137	22.12				
100	PI/2 BPSK	1	271	22.08				
100	PI/2 BPSK	135	0	22.16			23.5	0.0
100	PI/2 BPSK	135	69	22.11			23.5	0.0
100	PI/2 BPSK	135	138	21.98			23.5	0.0
100	PI/2 BPSK	270	0	22.06				
100	QPSK	1	1	22.29				
100	QPSK	1	137	22.16			23.5	0.0
100	QPSK	1	271	21.99				
100	QPSK	135	0	21.51				
100	QPSK	135	69	22.18			23.5	0.0
100	QPSK	135	138	21.44			23.0	0.5
100	QPSK	270	0	21.54				
100	16QAM	1	1	21.51				
100	64QAM	1	1	20.18			21.5	2.0
100	256QAM	1	1	18.01			19.5	4.0
Channel								
Frequency (MHz)				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3504.99		
90	QPSK	1	1	21.97	22.13	21.99	23.5	0.0
Channel								
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	21.99	22.13	21.95	23.5	0.0
Channel								
Frequency (MHz)				632334	633334	634332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3514.98		
70	QPSK	1	1	21.95	22.19	21.98	23.5	0.0
Channel								
Frequency (MHz)				632000	633334	634666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3519.99		
60	QPSK	1	1	21.95	22.18	21.98	23.5	0.0
Channel								
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	22.02	22.12	21.99	23.5	0.0
Channel								
Frequency (MHz)				631334	633334	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3529.98		
40	QPSK	1	1	21.96	22.19	21.96	23.5	0.0
Channel								
Frequency (MHz)				631000	633334	635666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3534.99		
30	QPSK	1	1	22.02	22.20	21.93	23.5	0.0
Channel								
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	21.99	22.19	22.01	23.5	0.0

Par27Q n77 Ant 4 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								
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1	21.70			22.5	0.0
100	PI/2 BPSK	1	137	21.63				
100	PI/2 BPSK	1	271	21.59				
100	PI/2 BPSK	135	0	21.66			22.5	0.0
100	PI/2 BPSK	135	69	21.55			22.5	0.0
100	PI/2 BPSK	135	138	21.48			22.5	0.0
100	PI/2 BPSK	270	0	21.50				
100	QPSK	1	1	21.76				
100	QPSK	1	137	21.59			22.5	0.0
100	QPSK	1	271	21.51				
100	QPSK	135	0	21.57				
100	QPSK	135	69	21.61			22.5	0.0
100	QPSK	135	138	21.49			22.5	0.0
100	QPSK	270	0	21.47				
100	16QAM	1	1	21.51				
100	64QAM	1	1	20.58			21.5	1.0
100	256QAM	1	1	18.41			19.5	3.0
Channel								
Frequency (MHz)				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3504.99		
90	QPSK	1	1	21.42	21.56	21.53	22.5	0.0
Channel								
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	21.48	21.51	21.52	22.5	0.0
Channel								
Frequency (MHz)				632334	633334	634332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3514.98		
70	QPSK	1	1	21.49	21.58	21.50	22.5	0.0
Channel								
Frequency (MHz)				632000	633334	634666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3519.99		
60	QPSK	1	1	21.43	21.57	21.48	22.5	0.0
Channel								
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	21.45	21.54	21.49	22.5	0.0
Channel								
Frequency (MHz)				631334	633334	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3529.98		
40	QPSK	1	1	21.51	21.58	21.47	22.5	0.0
Channel								
Frequency (MHz)				631000	633334	635666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3534.99		
30	QPSK	1	1	21.46	21.55	21.47	22.5	0.0
Channel								
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	21.48	21.56	21.47	22.5	0.0



Part27Q n78 Ant 4 DSI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633334	633666		
Frequency (MHz)				3495	3500.01	3504.99		
100	PI/2 BPSK	1	1	22.01	22.09	22.04	23.5	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.04	22.10	22.07	23.5	0.0
Channel				632334	633334	634332		
Frequency (MHz)				3485.01	3500.01	3514.98		
70	QPSK	1	1	21.98	22.04	22.08	23.5	0.0
Channel				632000	633334	634666		
Frequency (MHz)				3480	3500.01	3519.99		
60	QPSK	1	1	21.99	22.13	22.10	23.5	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	21.96	22.09	22.05	23.5	0.0
Channel				631334	633334	635332		
Frequency (MHz)				3470.01	3500.01	3529.98		
40	QPSK	1	1	21.99	22.05	22.10	23.5	0.0
Channel				631000	633334	635666		
Frequency (MHz)				3465	3500.01	3534.99		
30	QPSK	1	1	21.98	22.07	22.10	23.5	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	PI/2 BPSK	1	1	22.04	22.10	22.03	23.5	0.0

Part27Q n78 Ant 4 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				633000	633334	633666		
Frequency (MHz)				3495	3500.01	3504.99		
100	PI/2 BPSK	1	1	20.95	21.00	21.01	22.5	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	20.88	21.02	20.95	22.5	0.0
Channel				632334	633334	634332		
Frequency (MHz)				3485.01	3500.01	3514.98		
70	QPSK	1	1	20.95	20.95	20.98	22.5	0.0
Channel				632000	633334	634666		
Frequency (MHz)				3480	3500.01	3519.99		
60	QPSK	1	1	20.95	20.96	20.98	22.5	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	20.88	20.97	21.00	22.5	0.0
Channel				631334	633334	635332		
Frequency (MHz)				3470.01	3500.01	3529.98		
40	QPSK	1	1	20.94	20.99	20.96	22.5	0.0
Channel				631000	633334	635666		
Frequency (MHz)				3465	3500.01	3534.99		
30	QPSK	1	1	20.82	20.99	20.92	22.5	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	PI/2 BPSK	1	1	20.89	21.04	20.93	22.5	0.0



n5 Ant 2 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI/2 BPSK	1	1	23.37	23.33	23.36			
20	PI/2 BPSK	1	53	23.32	23.37	23.31	24.0	0.0	
20	PI/2 BPSK	1	104	23.12	23.15	23.10			
20	PI/2 BPSK	50	0	22.87	22.92	22.86	23.5	0.5	
20	PI/2 BPSK	50	28	23.30	23.35	23.31	24.0	0.0	
20	PI/2 BPSK	50	56	22.69	22.75	22.71			
20	PI/2 BPSK	100	0	22.85	22.90	22.84	23.5	0.5	
20	QPSK	1	1	23.27	23.41	23.26			
20	QPSK	1	53	23.15	23.21	23.18	24.0	0.0	
20	QPSK	1	104	23.10	23.16	23.09			
20	QPSK	50	0	22.34	22.39	22.33	23.0	1.0	
20	QPSK	50	28	23.35	23.38	23.32	24.0	0.0	
20	QPSK	50	56	22.20	22.27	22.21			
20	QPSK	100	0	22.29	22.33	22.30	23.0	1.0	
20	16QAM	1	1	23.25	23.31	23.25	24.0	0.0	
20	64QAM	1	1	20.59	20.65	20.60	21.5	2.5	
20	256QAM	1	1	19.07	19.11	19.05	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	23.23	23.37	23.19	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	23.21	23.34	23.21	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	23.21	23.31	23.22	24.0	0.0	

n5 Ant 2 DSI3 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				166900	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI/2 BPSK	1	1	23.37	23.33	23.36			
20	PI/2 BPSK	1	53	23.32	23.37	23.31	24.0	0.0	
20	PI/2 BPSK	1	104	23.12	23.15	23.10			
20	PI/2 BPSK	50	0	22.87	22.92	22.86	23.5	0.5	
20	PI/2 BPSK	50	28	23.30	23.35	23.31	24.0	0.0	
20	PI/2 BPSK	50	56	22.69	22.75	22.71			
20	PI/2 BPSK	100	0	22.85	22.90	22.84	23.5	0.5	
20	QPSK	1	1	23.27	23.41	23.26			
20	QPSK	1	53	23.15	23.21	23.18	24.0	0.0	
20	QPSK	1	104	23.10	23.16	23.09			
20	QPSK	50	0	22.34	22.39	22.33	23.0	1.0	
20	QPSK	50	28	23.35	23.38	23.32	24.0	0.0	
20	QPSK	50	56	22.20	22.27	22.21			
20	QPSK	100	0	22.29	22.33	22.30	23.0	1.0	
20	16QAM	1	1	23.25	23.31	23.25	24.0	0.0	
20	64QAM	1	1	20.59	20.65	20.60	21.5	2.5	
20	256QAM	1	1	19.07	19.11	19.05	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	23.23	23.37	23.19	24.0	0.0	
Channel				165900	167300	168900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	23.21	23.34	23.21	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	23.21	23.31	23.22	24.0	0.0	



n7 Ant 1 DS13								
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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	20.32	20.29	20.24	21.4	0.0
50	PI/2 BPSK	1	135	20.22	20.27	20.15		
50	PI/2 BPSK	1	268	20.13	20.18	20.14		
50	PI/2 BPSK	135	0	20.17	20.23	20.21	21.4	0.0
50	PI/2 BPSK	135	68	20.31	20.25	20.23	21.4	0.0
50	PI/2 BPSK	135	135	20.28	20.32	20.21	21.4	0.0
50	PI/2 BPSK	270	0	20.16	20.25	20.21	21.4	0.0
50	QPSK	1	1	20.21	20.34	20.07	21.4	0.0
50	QPSK	1	135	20.33	20.28	20.25		
50	QPSK	1	268	20.16	20.23	20.21		
50	QPSK	135	0	20.23	20.30	20.17	21.4	0.0
50	QPSK	135	68	20.25	20.31	20.11	21.4	0.0
50	QPSK	135	135	20.27	20.26	20.26	21.4	0.0
50	QPSK	270	0	20.20	20.28	20.14	21.4	0.0
50	16QAM	1	1	20.21	20.29	20.16	21.4	0.0
50	64QAM	1	1	20.26	20.22	20.17	21.4	0.0
50	256QAM	1	1	18.93	18.83	18.87	19.5	1.9
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	20.00	20.22	19.91	21.4	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	20.01	20.15	19.89	21.4	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.69	22.68	22.66	21.4	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	19.97	20.23	19.90	21.4	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	20.02	20.20	19.94	21.4	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	20.06	20.10	19.94	21.4	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	20.03	20.13	19.85	21.4	0.0

n7 Ant 1 DS13 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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	17.18	17.12	17.08	18.4	0.0
50	PI/2 BPSK	1	135	17.18	17.15	17.18		
50	PI/2 BPSK	1	268	17.11	17.18	17.10		
50	PI/2 BPSK	135	0	17.14	17.11	17.02	18.4	0.0
50	PI/2 BPSK	135	68	17.11	17.12	17.16	18.4	0.0
50	PI/2 BPSK	135	135	17.17	17.13	17.12	18.4	0.0
50	PI/2 BPSK	270	0	17.17	17.19	17.14	18.4	0.0
50	QPSK	1	1	17.18	17.20	17.04	18.4	0.0
50	QPSK	1	135	17.11	17.12	17.05		
50	QPSK	1	268	17.18	17.04	17.16		
50	QPSK	135	0	17.14	17.16	17.11	17.4	1.0
50	QPSK	135	68	17.15	17.18	17.10	18.4	0.0
50	QPSK	135	135	17.04	17.07	17.11	17.4	1.0
50	QPSK	270	0	17.12	17.18	17.17	17.4	1.0
50	16QAM	1	1	17.13	17.08	17.13	18.4	0.0
50	64QAM	1	1	17.13	17.18	17.15	18.4	0.0
50	256QAM	1	1	17.16	17.17	17.19	18.4	0.0
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	17.06	17.16	16.90	18.4	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	17.10	17.19	16.87	18.4	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	17.09	17.22	16.88	18.4	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	17.09	17.22	16.81	18.4	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	17.06	17.23	16.85	18.4	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	17.07	17.18	16.84	18.4	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	17.09	17.23	16.85	18.4	0.0



n7 Ant 2 DS13								
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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	18.16	18.13	18.10	18.8	0.0
50	PI/2 BPSK	1	135	18.03	18.05	18.09		
50	PI/2 BPSK	1	268	18.07	18.09	18.04		
50	PI/2 BPSK	135	0	18.08	18.11	18.08	18.8	0.0
50	PI/2 BPSK	135	68	18.16	18.15	18.17	18.8	0.0
50	PI/2 BPSK	135	135	18.10	18.06	18.11	18.8	0.0
50	PI/2 BPSK	270	0	18.06	18.11	18.10		
50	QPSK	1	1	18.16	18.21	18.18	18.8	0.0
50	QPSK	1	135	18.09	18.07	18.11		
50	QPSK	1	268	18.07	18.11	18.08		
50	QPSK	135	0	18.11	18.14	18.04	18.8	0.0
50	QPSK	135	68	18.07	18.16	18.12	18.8	0.0
50	QPSK	135	135	18.15	18.02	18.04	18.8	0.0
50	QPSK	270	0	18.03	18.13	18.07		
50	16QAM	1	1	18.17	18.11	18.15		
50	64QAM	1	1	18.03	18.07	18.14	18.8	0.0
50	256QAM	1	1	18.06	18.08	18.11	18.8	0.0
Channel				504000	507000	510000	Tune-up limit	MPR
Frequency (MHz)				2520	2535	2550	(dBm)	(dB)
40	QPSK	1	1	17.94	18.01	18.02	18.8	0.0
Channel				503000	507000	511000	Tune-up limit	MPR
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)
30	QPSK	1	1	17.94	17.94	18.00	18.8	0.0
Channel				502500	507000	511500	Tune-up limit	MPR
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)
25	QPSK	1	1	17.99	17.95	17.90	18.8	0.0
Channel				502000	507000	512000	Tune-up limit	MPR
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)
20	QPSK	1	1	17.92	17.94	17.99	18.8	0.0
Channel				501500	507000	512500	Tune-up limit	MPR
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)
15	QPSK	1	1	17.97	17.93	18.02	18.8	0.0
Channel				501000	507000	513000	Tune-up limit	MPR
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)
10	QPSK	1	1	17.94	17.95	17.99	18.8	0.0
Channel				500500	507000	513500	Tune-up limit	MPR
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)
5	QPSK	1	1	17.91	18.05	18.03	18.8	0.0

n7 Ant 2 DS13 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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	17.65	17.62	17.53	17.8	0.0
50	PI/2 BPSK	1	135	17.44	17.53	17.44		
50	PI/2 BPSK	1	268	17.59	17.67	17.58		
50	PI/2 BPSK	135	0	17.52	17.64	17.65	17.8	0.0
50	PI/2 BPSK	135	68	17.53	17.61	17.49	17.8	0.0
50	PI/2 BPSK	135	135	17.57	17.67	17.58	17.8	0.0
50	PI/2 BPSK	270	0	17.52	17.66	17.62		
50	QPSK	1	1	17.65	17.73	17.70	17.8	0.0
50	QPSK	1	135	17.62	17.55	17.66		
50	QPSK	1	268	17.57	17.54	17.58		
50	QPSK	135	0	17.55	17.60	17.58	17.8	0.0
50	QPSK	135	68	17.59	17.65	17.58	17.8	0.0
50	QPSK	135	135	17.57	17.63	17.46	17.8	0.0
50	QPSK	270	0	17.55	17.64	17.61		
50	16QAM	1	1	17.58	17.55	17.65		
50	64QAM	1	1	17.66	17.58	17.52	17.8	0.0
50	256QAM	1	1	17.53	17.63	17.62	17.8	0.0
Channel				504000	507000	510000	Tune-up limit	MPR
Frequency (MHz)				2520	2535	2550	(dBm)	(dB)
40	QPSK	1	1	16.84	16.97	16.86	17.8	0.0
Channel				503000	507000	511000	Tune-up limit	MPR
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)
30	QPSK	1	1	16.94	17.02	16.86	17.8	0.0
Channel				502500	507000	511500	Tune-up limit	MPR
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)
25	QPSK	1	1	16.86	17.01	16.89	17.8	0.0
Channel				502000	507000	512000	Tune-up limit	MPR
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)
20	QPSK	1	1	16.86	16.98	16.89	17.8	0.0
Channel				501500	507000	512500	Tune-up limit	MPR
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)
15	QPSK	1	1	16.83	17.02	16.87	17.8	0.0
Channel				501000	507000	513000	Tune-up limit	MPR
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)
10	QPSK	1	1	16.91	16.98	16.92	17.8	0.0
Channel				500500	507000	513500	Tune-up limit	MPR
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)
5	QPSK	1	1	16.83	17.04	16.92	17.8	0.0



n66 Ant 1 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	19.67	19.73	19.69			
40	PI/2 BPSK	1	108	19.67	19.70	19.65	21.1	0.0	
40	PI/2 BPSK	1	214	19.57	19.62	19.58			
40	PI/2 BPSK	108	0	19.66	19.69	19.63	21.1	0.0	
40	PI/2 BPSK	108	54	19.50	19.56	19.52	21.1	0.0	
40	PI/2 BPSK	108	108	19.58	19.63	19.60			
40	PI/2 BPSK	216	0	19.64	19.68	19.62	21.1	0.0	
40	QPSK	1	1	19.69	19.75	19.71			
40	QPSK	1	108	19.65	19.69	19.65	21.1	0.0	
40	QPSK	1	214	19.55	19.58	19.53			
40	QPSK	108	0	19.70	19.58	19.70	21.1	0.0	
40	QPSK	108	54	19.57	19.74	19.59	21.1	0.0	
40	QPSK	108	108	19.63	19.69	19.66			
40	QPSK	216	0	19.63	19.68	19.64	21.1	0.0	
40	16QAM	1	1	19.69	19.74	19.68	21.1	0.0	
40	64QAM	1	1	19.55	19.59	19.53	21.1	0.0	
40	256QAM	1	1	17.61	17.57	17.50	19.5	1.6	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	19.86	19.91	19.79	21.1	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	19.92	19.95	19.86	21.1	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	19.84	19.88	19.85	21.1	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	19.85	19.95	19.88	21.1	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	19.84	19.88	19.83	21.1	0.0	

n66 Ant 1 DSI3 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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	18.73	18.81	18.71			
40	PI/2 BPSK	1	108	18.87	18.83	18.77	20.1	0.0	
40	PI/2 BPSK	1	214	18.81	18.85	18.81			
40	PI/2 BPSK	108	0	18.81	18.87	18.84	20.1	0.0	
40	PI/2 BPSK	108	54	18.72	18.79	18.74	20.1	0.0	
40	PI/2 BPSK	108	108	18.81	18.87	18.83			
40	PI/2 BPSK	216	0	18.79	18.85	18.82	20.1	0.0	
40	QPSK	1	1	18.82	18.97	18.75			
40	QPSK	1	108	18.86	18.82	18.87	20.1	0.0	
40	QPSK	1	214	18.79	18.85	18.81			
40	QPSK	108	0	18.82	18.81	18.84	20.1	0.0	
40	QPSK	108	54	18.84	18.87	18.80	20.1	0.0	
40	QPSK	108	108	18.77	18.84	18.80			
40	QPSK	216	0	18.77	18.81	18.78	20.1	0.0	
40	16QAM	1	1	18.82	18.79	18.87	20.1	0.0	
40	64QAM	1	1	18.71	18.76	18.70	20.1	0.0	
40	256QAM	1	1	18.02	18.07	18.04	19.5	0.6	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	18.81	18.79	18.85	20.1	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	18.78	18.83	18.83	20.1	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	18.74	18.84	18.76	20.1	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	18.80	18.84	18.75	20.1	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	18.74	18.83	18.74	20.1	0.0	



Par270 n77_FCC Ant 4 DS13									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq			
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	17.29	17.35	17.28	18.9	0.0	
100	PI/2 BPSK	1	137	17.40	17.43	17.38			
100	PI/2 BPSK	1	271	17.24	17.28	17.25			
100	PI/2 BPSK	135	0	17.40	17.47	17.40	18.9	0.0	
100	PI/2 BPSK	135	69	17.28	17.31	17.25	18.9	0.0	
100	PI/2 BPSK	135	138	17.46	17.52	17.48	18.9	0.0	
100	PI/2 BPSK	270	0	17.44	17.49	17.46			
100	QPSK	1	1	17.71	17.78	17.72			
100	QPSK	1	137	17.60	17.64	17.60	18.9	0.0	
100	QPSK	1	271	17.48	17.53	17.49			
100	QPSK	135	0	17.58	17.58	17.56			
100	QPSK	135	69	17.53	17.61	17.53	18.9	0.0	
100	QPSK	135	138	17.56	17.59	17.52	18.9	0.0	
100	QPSK	270	0	17.45	17.48	17.43			
100	16QAM	1	1	17.52	17.57	17.51			
100	64QAM	1	1	17.58	17.65	17.61	18.9	0.0	
100	256QAM	1	1	17.30	17.35	17.31	18.9	0.0	
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	17.52	17.53	17.49	18.9	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	17.55	17.58	17.47	18.9	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	17.51	17.54	17.60	18.9	0.0	
Channel				648688	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	17.50	17.63	17.52	18.9	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	17.57	17.66	17.57	18.9	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	17.48	17.58	17.57	18.9	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	17.58	17.58	17.50	18.9	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	17.57	17.65	17.60	18.9	0.0	

Par270 n77_FCC Ant 4 DS13 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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	16.26	16.32	16.27	17.9	0.0	
100	PI/2 BPSK	1	137	16.59	16.64	16.59			
100	PI/2 BPSK	1	271	16.36	16.40	16.36			
100	PI/2 BPSK	135	0	16.44	16.48	16.44	17.9	0.0	
100	PI/2 BPSK	135	69	16.43	16.47	16.40	17.9	0.0	
100	PI/2 BPSK	135	138	16.55	16.58	16.54	17.9	0.0	
100	PI/2 BPSK	270	0	16.47	16.52	16.47			
100	QPSK	1	1	16.66	16.69	16.64			
100	QPSK	1	137	16.57	16.62	16.57	17.9	0.0	
100	QPSK	1	271	16.58	16.62	16.58			
100	QPSK	135	0	16.61	16.49	16.62			
100	QPSK	135	69	16.43	16.66	16.44	17.9	0.0	
100	QPSK	135	138	16.49	16.54	16.50	17.9	0.0	
100	QPSK	270	0	16.46	16.51	16.47			
100	16QAM	1	1	16.54	16.59	16.54			
100	64QAM	1	1	16.60	16.64	16.58	17.9	0.0	
100	256QAM	1	1	16.39	16.42	16.38	17.9	0.0	
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	16.46	16.51	16.42	17.9	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	16.47	16.49	16.44	17.9	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	16.45	16.50	16.47	17.9	0.0	
Channel				648688	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	16.50	16.51	16.45	17.9	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	16.46	16.46	16.48	17.9	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	16.43	16.49	16.48	17.9	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	16.43	16.46	16.40	17.9	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	16.49	16.47	16.49	17.9	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq		
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1	17.21	17.25	17.20	18.9	0.0
100	PI/2 BPSK	1	137	17.16	17.22	17.15		
100	PI/2 BPSK	1	271	17.17	17.20	17.14		
100	PI/2 BPSK	135	0	17.21	17.24	17.20	18.9	0.0
100	PI/2 BPSK	135	69	17.05	17.11	17.07	18.9	0.0
100	PI/2 BPSK	135	138	17.18	17.23	17.20	18.9	0.0
100	PI/2 BPSK	270	0	17.13	17.19	17.15		
100	QPSK	1	1	17.24	17.29	17.23		
100	QPSK	1	137	17.21	17.25	17.20	18.9	0.0
100	QPSK	1	271	17.15	17.19	17.14		
100	QPSK	135	0	17.18	17.15	17.11		
100	QPSK	135	69	17.14	17.19	17.12	18.9	0.0
100	QPSK	135	138	17.17	17.13	17.11	18.9	0.0
100	QPSK	270	0	17.15	17.21	17.18		
100	16QAM	1	1	17.05	17.10	17.06		
100	64QAM	1	1	17.06	17.11	17.07	18.9	0.0
100	256QAM	1	1	17.16	17.21	17.14	18.9	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	17.03	17.07	17.05	18.9	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	17.13	17.18	17.08	18.9	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	17.12	17.13	17.03	18.9	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	17.05	17.10	17.11	18.9	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	17.11	17.05	17.00	18.9	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	17.03	17.18	17.01	18.9	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	17.08	17.14	17.06	18.9	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	17.08	17.18	17.09	18.9	0.0

Part270 n78_FCC Ant 4 DSI3 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				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1	16.42	16.45	16.42	17.9	0.0
100	PI/2 BPSK	1	137	16.33	16.38	16.33		
100	PI/2 BPSK	1	271	16.32	16.35	16.29		
100	PI/2 BPSK	135	0	16.24	16.27	16.22	17.9	0.0
100	PI/2 BPSK	135	69	16.30	16.36	16.31	17.9	0.0
100	PI/2 BPSK	135	138	16.18	16.21	16.16	17.9	0.0
100	PI/2 BPSK	270	0	16.31	16.36	16.30		
100	QPSK	1	1	16.45	16.49	16.43		
100	QPSK	1	137	16.34	16.39	16.36	17.9	0.0
100	QPSK	1	271	16.30	16.35	16.31		
100	QPSK	135	0	16.31	16.32	16.33		
100	QPSK	135	69	16.25	16.37	16.27	17.9	0.0
100	QPSK	135	138	16.23	16.29	16.24	17.9	0.0
100	QPSK	270	0	16.30	16.34	16.31		
100	16QAM	1	1	16.17	16.24	16.20		
100	64QAM	1	1	16.23	16.29	16.23	17.9	0.0
100	256QAM	1	1	16.39	16.43	16.37	17.9	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	16.00	15.96	15.90	17.9	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	15.98	15.95	15.93	17.9	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	15.94	16.05	15.97	17.9	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	15.95	16.00	15.94	17.9	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	15.98	15.98	15.92	17.9	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	15.98	16.02	15.97	17.9	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	15.95	15.95	15.94	17.9	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	15.99	15.95	15.97	17.9	0.0



Par27Q n77_FCC Ant 4 DSI3

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				633000	633334	633666		
Frequency (MHz)				3495	3500.01	3504.99		
100	PI/2 BPSK	1	1	17.51	17.79	17.72	18.9	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
100	QPSK	1	1	17.52	17.83	17.75	18.9	0.0
Channel				632334	633334	634332		
Frequency (MHz)				3485.01	3500.01	3514.98		
70	QPSK	1	1	17.51	17.78	17.78	18.9	0.0
Channel				632000	633334	634666		
Frequency (MHz)				3480	3500.01	3519.99		
60	QPSK	1	1	17.48	17.84	17.70	18.9	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	17.59	17.79	17.79	18.9	0.0
Channel				631334	633334	635332		
Frequency (MHz)				3470.01	3500.01	3529.98		
40	QPSK	1	1	17.48	17.79	17.65	18.9	0.0
Channel				631000	633334	635666		
Frequency (MHz)				3465	3500.01	3534.99		
30	QPSK	1	1	17.61	17.73	17.68	18.9	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.60	17.73	17.65	18.9	0.0

Par27Q n77_FCC Ant 4 DSI3 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				633000	633334	633666		
Frequency (MHz)				3495	3500.01	3504.99		
100	PI/2 BPSK	1	1	16.04	16.20	16.05	17.9	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
100	QPSK	1	1	16.09	16.19	16.01	17.9	0.0
Channel				632334	633334	634332		
Frequency (MHz)				3485.01	3500.01	3514.98		
70	QPSK	1	1	16.10	16.14	16.07	17.9	0.0
Channel				632000	633334	634666		
Frequency (MHz)				3480	3500.01	3519.99		
60	QPSK	1	1	16.10	16.21	16.01	17.9	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	16.08	16.20	16.02	17.9	0.0
Channel				631334	633334	635332		
Frequency (MHz)				3470.01	3500.01	3529.98		
40	QPSK	1	1	16.08	16.18	16.08	17.9	0.0
Channel				631000	633334	635666		
Frequency (MHz)				3465	3500.01	3534.99		
30	QPSK	1	1	16.05	16.14	16.00	17.9	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	16.08	16.17	16.08	17.9	0.0



Part27Q n78_FCC Ant 4 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1		17.17				
100	PI/2 BPSK	1	137		17.02		18.9	0.0	
100	PI/2 BPSK	1	271		17.08				
100	PI/2 BPSK	135	0		16.97		18.9	0.0	
100	PI/2 BPSK	135	69		17.08		18.9	0.0	
100	PI/2 BPSK	135	138		17.01		18.9	0.0	
100	PI/2 BPSK	270	0		16.89				
100	QPSK	1	1		17.20				
100	QPSK	1	137		17.12		18.9	0.0	
100	QPSK	1	271		17.07				
100	QPSK	135	0		17.15		18.9	0.0	
100	QPSK	135	69		16.98		18.9	0.0	
100	QPSK	135	138		17.03				
100	QPSK	270	0		17.01		18.9	0.0	
100	16QAM	1	1		16.97		18.9	0.0	
100	64QAM	1	1		16.92		18.9	0.0	
100	256QAM	1	1		17.24		18.9	0.0	
Channel				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3504.99			
90	QPSK	1	1		16.98	17.03	16.97	18.9	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		16.95	17.03	17.02	18.9	0.0
Channel				632334	633334	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3514.98			
70	QPSK	1	1		16.96	16.97	16.98	18.9	0.0
Channel				632000	633334	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3519.99			
60	QPSK	1	1		16.86	17.01	17.01	18.9	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		16.89	17.08	17.03	18.9	0.0
Channel				631334	633334	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3529.98			
40	QPSK	1	1		16.90	17.03	17.05	18.9	0.0
Channel				631000	633334	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3534.99			
30	QPSK	1	1		16.98	16.96	17.00	18.9	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	PI/2 BPSK	1	1		16.97	16.97	17.03	18.9	0.0

Part27Q n78_FCC Ant 4 DSI3 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				633334					
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1		16.50				
100	PI/2 BPSK	1	137		16.38		17.9	0.0	
100	PI/2 BPSK	1	271		16.49				
100	PI/2 BPSK	135	0		16.36		17.9	0.0	
100	PI/2 BPSK	135	69		16.47		17.9	0.0	
100	PI/2 BPSK	135	138		16.39		17.9	0.0	
100	PI/2 BPSK	270	0		16.31				
100	QPSK	1	1		16.55				
100	QPSK	1	137		16.51		17.9	0.0	
100	QPSK	1	271		16.49				
100	QPSK	135	0		16.54		17.9	0.0	
100	QPSK	135	69		16.35		17.9	0.0	
100	QPSK	135	138		16.39				
100	QPSK	270	0		16.43		17.9	0.0	
100	16QAM	1	1		16.38		17.9	0.0	
100	64QAM	1	1		16.35		17.9	0.0	
100	256QAM	1	1		16.40		17.9	0.0	
Channel				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3504.99			
90	QPSK	1	1		16.10	16.14	16.06	17.9	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		16.09	16.16	16.09	17.9	0.0
Channel				632334	633334	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3514.98			
70	QPSK	1	1		16.08	16.10	16.05	17.9	0.0
Channel				632000	633334	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3519.99			
60	QPSK	1	1		16.10	16.19	16.04	17.9	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		16.09	16.11	16.05	17.9	0.0
Channel				631334	633334	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3529.98			
40	QPSK	1	1		16.09	16.14	16.06	17.9	0.0
Channel				631000	633334	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3534.99			
30	QPSK	1	1		16.10	16.14	16.08	17.9	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	PI/2 BPSK	1	1		16.08	16.15	16.07	17.9	0.0



n5 Ant 2								
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				168800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.37	23.33	23.36	24.0	0.0
20	PI/2 BPSK	1	53	23.32	23.37	23.31		
20	PI/2 BPSK	1	104	23.12	23.15	23.10		
20	PI/2 BPSK	50	0	22.87	22.92	22.86	23.5	0.5
20	PI/2 BPSK	50	28	23.30	23.35	23.31	24.0	0.0
20	PI/2 BPSK	50	56	22.69	22.75	22.71	23.5	0.5
20	PI/2 BPSK	100	0	22.85	22.90	22.84		
20	QPSK	1	1	23.27	23.41	23.26		
20	QPSK	1	53	23.15	23.21	23.18	24.0	0.0
20	QPSK	1	104	23.10	23.16	23.09		
20	QPSK	50	0	22.34	22.39	22.33		
20	QPSK	50	28	23.35	23.38	23.32	24.0	0.0
20	QPSK	50	56	22.20	22.27	22.21	23.0	1.0
20	QPSK	100	0	22.29	22.33	22.30		
20	16QAM	1	1	23.25	23.31	23.25		
20	64QAM	1	1	20.59	20.65	20.60	21.5	2.5
20	256QAM	1	1	19.07	19.11	19.05	19.5	4.5
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.23	23.37	23.19	24.0	0.0
Channel				168800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.21	23.34	23.21	24.0	0.0
Channel				165300	167300	165300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.21	23.31	23.22	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.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	22.65	22.69	22.64	24.0	0.0
50	PI/2 BPSK	1	135	22.54	22.57	22.52		
50	PI/2 BPSK	1	268	22.53	22.57	22.52		
50	PI/2 BPSK	135	0	22.01	22.05	22.00	23.5	0.5
50	PI/2 BPSK	135	68	22.47	22.52	22.45	24.0	0.0
50	PI/2 BPSK	135	135	22.03	22.07	22.01	23.5	0.5
50	PI/2 BPSK	270	0	21.96	22.01	21.96		
50	QPSK	1	1	22.82	22.85	22.78		
50	QPSK	1	135	22.74	22.79	22.76	24.0	0.0
50	QPSK	1	268	22.58	22.65	22.58		
50	QPSK	135	0	21.50	21.56	21.52		
50	QPSK	135	68	22.52	22.58	22.53	24.0	0.0
50	QPSK	135	135	21.55	21.61	21.57	23.0	1.0
50	QPSK	270	0	21.50	21.55	21.51		
50	16QAM	1	1	22.57	22.61	22.57		
50	64QAM	1	1	20.35	20.39	20.34	21.5	2.5
50	256QAM	1	1	17.97	18.03	18.00	19.5	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	22.68	22.70	22.62	24.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.63	22.70	22.64	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.69	22.68	22.66	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	22.65	22.64	22.53	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.68	22.63	22.64	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.58	22.61	22.64	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.70	22.54	22.65	24.0	0.0



n7 Ant 2 DSI6								
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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	20.52	20.41	20.51	21.8	0.0
50	PI/2 BPSK	1	135	20.32	20.39	20.34		
50	PI/2 BPSK	1	268	20.58	20.44	20.45		
50	PI/2 BPSK	135	0	20.46	20.43	20.35	21.8	0.0
50	PI/2 BPSK	135	68	20.49	20.45	20.52	21.8	0.0
50	PI/2 BPSK	135	135	20.40	20.53	20.40	21.8	0.0
50	PI/2 BPSK	270	0	20.50	20.45	20.51		
50	QPSK	1	1	20.87	20.91	20.53	21.8	0.0
50	QPSK	1	135	20.36	20.49	20.49		
50	QPSK	1	268	20.29	20.53	20.24		
50	QPSK	135	0	20.42	20.51	20.33	21.8	0.0
50	QPSK	135	68	20.38	20.52	20.49	21.8	0.0
50	QPSK	135	135	20.43	20.44	20.40	21.8	0.0
50	QPSK	270	0	20.55	20.61	20.39		
50	16QAM	1	1	20.41	20.49	20.48	21.8	0.0
50	64QAM	1	1	20.22	20.31	20.28	21.5	0.3
50	256QAM	1	1	18.26	18.19	18.21	19.5	2.3
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	20.48	20.79	20.47	21.8	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	20.41	20.79	20.41	21.8	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	20.52	20.78	20.45	21.8	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	20.47	20.84	20.51	19.5	2.3
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	20.42	20.77	20.45	21.8	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	20.47	20.80	20.50	21.8	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	20.44	20.80	20.44	21.8	0.0

n7 Ant 2 DSI6 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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	20.00	19.99	19.88	21.3	0.0
50	PI/2 BPSK	1	135	19.93	19.86	19.95		
50	PI/2 BPSK	1	268	20.07	19.86	20.06		
50	PI/2 BPSK	135	0	19.84	19.96	20.07	21.3	0.0
50	PI/2 BPSK	135	68	19.91	19.90	20.08	21.3	0.0
50	PI/2 BPSK	135	135	19.82	20.03	20.17	21.3	0.0
50	PI/2 BPSK	270	0	19.92	19.86	20.13		
50	QPSK	1	1	20.19	20.26	20.03	21.3	0.0
50	QPSK	1	135	19.90	19.90	19.87		
50	QPSK	1	268	20.11	20.08	20.05		
50	QPSK	135	0	19.92	20.03	19.92	21.3	0.0
50	QPSK	135	68	19.99	20.09	19.85	21.3	0.0
50	QPSK	135	135	19.93	20.01	19.85	21.3	0.0
50	QPSK	270	0	19.98	20.05	19.91		
50	16QAM	1	1	19.93	20.06	20.10	21.3	0.0
50	64QAM	1	1	20.11	20.13	20.11	21.3	0.0
50	256QAM	1	1	18.18	18.23	18.20	19.5	1.8
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	19.99	20.22	19.96	21.3	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	19.98	20.13	19.95	21.3	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	20.02	20.24	19.96	21.3	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	20.06	20.15	19.99	19.5	1.8
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	20.02	20.15	19.96	21.3	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	20.02	20.23	19.97	21.3	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	20.06	20.17	19.97	21.3	0.0



n66 Ant 1 DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	22.42	22.47	22.41			
40	PI/2 BPSK	1	108	22.40	22.45	22.39	23.5	0.0	
40	PI/2 BPSK	1	214	22.22	22.26	22.19			
40	PI/2 BPSK	108	0	21.60	21.65	21.61	23.5	0.0	
40	PI/2 BPSK	108	54	22.36	22.39	22.35	23.5	0.0	
40	PI/2 BPSK	108	108	21.62	21.67	21.62			
40	PI/2 BPSK	216	0	21.62	21.66	21.60	23.5	0.0	
40	QPSK	1	1	22.42	22.49	22.45			
40	QPSK	1	108	22.39	22.43	22.39	23.5	0.0	
40	QPSK	1	214	22.28	22.34	22.29			
40	QPSK	108	0	21.07	21.12	21.07	23.0	0.5	
40	QPSK	108	54	22.35	22.41	22.36	23.5	0.0	
40	QPSK	108	108	21.13	21.17	21.13			
40	QPSK	216	0	21.10	21.15	21.10	23.0	0.5	
40	16QAM	1	1	21.22	21.28	21.23	22.0	1.5	
40	64QAM	1	1	19.71	19.75	19.71	21.5	2.0	
40	256QAM	1	1	17.99	17.82	17.98	19.5	4.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	22.33	22.37	22.32	23.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	22.30	22.45	22.34	23.5	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	22.33	22.44	22.35	23.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.36	22.44	22.36	23.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.31	22.37	22.37	23.5	0.0	

n66 Ant 1 DSI6 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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	21.93	21.99	21.94			
40	PI/2 BPSK	1	108	21.87	21.90	21.84	23.0	0.0	
40	PI/2 BPSK	1	214	21.78	21.83	21.79			
40	PI/2 BPSK	108	0	21.89	21.94	21.87	23.0	0.0	
40	PI/2 BPSK	108	54	21.77	21.82	21.76	23.0	0.0	
40	PI/2 BPSK	108	108	21.81	21.84	21.78			
40	PI/2 BPSK	216	0	21.79	21.82	21.78	23.0	0.0	
40	QPSK	1	1	21.95	22.01	21.97			
40	QPSK	1	108	21.90	21.95	21.90	23.0	0.0	
40	QPSK	1	214	21.80	21.87	21.81			
40	QPSK	108	0	21.45	21.38	21.44	23.0	0.0	
40	QPSK	108	54	21.32	21.48	21.35	23.0	0.0	
40	QPSK	108	108	21.39	21.44	21.37			
40	QPSK	216	0	21.35	21.41	21.37	23.0	0.0	
40	16QAM	1	1	21.47	21.51	21.45	22.0	1.0	
40	64QAM	1	1	19.76	19.80	19.73	21.5	1.5	
40	256QAM	1	1	18.01	18.06	18.01	19.5	3.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	21.84	21.90	21.88	23.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	21.80	21.95	21.83	23.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	21.88	21.96	21.88	23.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	21.81	21.86	21.90	23.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	21.84	21.94	21.90	23.0	0.0	



Par270 n77_Ant 4 DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq			
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	20.66	20.72	20.69	21.7	0.0	
100	PI/2 BPSK	1	137	20.65	20.69	20.63			
100	PI/2 BPSK	1	271	20.72	20.77	20.72			
100	PI/2 BPSK	135	0	20.43	20.50	20.46			
100	PI/2 BPSK	135	69	20.51	20.56	20.49	21.7	0.0	
100	PI/2 BPSK	135	138	20.56	20.62	20.55	21.7	0.0	
100	PI/2 BPSK	270	0	20.55	20.60	20.54			
100	QPSK	1	1	20.84	20.88	20.83			
100	QPSK	1	137	20.65	20.70	20.66			
100	QPSK	1	271	20.67	20.73	20.69	21.7	0.0	
100	QPSK	135	0	20.69	20.53	20.69			
100	QPSK	135	69	20.52	20.78	20.53			
100	QPSK	135	138	20.61	20.67	20.62			
100	QPSK	270	0	20.53	20.57	20.53	21.7	0.0	
100	16QAM	1	1	20.55	20.60	20.54	21.7	0.0	
100	64QAM	1	1	20.53	20.59	20.54	21.5	0.2	
100	256QAM	1	1	18.34	18.39	18.33	19.5	2.2	
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	20.80	20.75	20.71	21.7	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	20.79	20.75	20.70	21.7	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	20.77	20.83	20.81	21.7	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	20.80	20.78	20.74	21.7	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	20.76	20.78	20.74	21.7	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	20.75	20.84	20.72	21.7	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	20.81	20.86	20.69	21.7	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	20.70	20.80	20.79	21.7	0.0	

Par270 n77_Ant 4 DSI6 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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	20.05	20.11	20.05	21.2	0.0	
100	PI/2 BPSK	1	137	20.18	20.24	20.19			
100	PI/2 BPSK	1	271	20.16	20.23	20.17			
100	PI/2 BPSK	135	0	19.85	19.90	19.84			
100	PI/2 BPSK	135	69	20.00	20.05	20.00	21.2	0.0	
100	PI/2 BPSK	135	138	20.11	20.15	20.11	21.2	0.0	
100	PI/2 BPSK	270	0	19.97	20.03	19.97			
100	QPSK	1	1	20.32	20.39	20.32			
100	QPSK	1	137	20.11	20.17	20.11			
100	QPSK	1	271	20.14	20.19	20.16	21.2	0.0	
100	QPSK	135	0	20.21	20.21	20.22			
100	QPSK	135	69	20.06	20.23	20.08			
100	QPSK	135	138	20.13	20.16	20.10			
100	QPSK	270	0	19.91	19.97	19.93	21.2	0.0	
100	16QAM	1	1	20.06	20.12	20.08	21.2	0.0	
100	64QAM	1	1	20.02	20.07	20.02	21.2	0.0	
100	256QAM	1	1	18.34	18.38	18.32	19.5	1.7	
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	20.21	20.35	20.20	21.2	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	20.23	20.25	20.28	21.2	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	20.20	20.32	20.27	21.2	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	20.20	20.24	20.18	21.2	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	20.19	20.32	20.24	21.2	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	20.21	20.28	20.21	21.2	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	20.29	20.34	20.24	21.2	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	20.29	20.28	20.22	21.2	0.0	



Part270 n78_Ant 4 DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq			
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1	20.85	20.72	20.68	21.7	0.0	
100	PI/2 BPSK	1	137	20.58	20.64	20.60			
100	PI/2 BPSK	1	271	20.71	20.77	20.72			
100	PI/2 BPSK	135	0	20.62	20.65	20.60	21.7	0.0	
100	PI/2 BPSK	135	69	20.58	20.62	20.57	21.7	0.0	
100	PI/2 BPSK	135	138	20.55	20.62	20.55	21.7	0.0	
100	PI/2 BPSK	270	0	20.51	20.56	20.51			
100	QPSK	1	1	20.74	20.80	20.74			
100	QPSK	1	137	20.74	20.77	20.73	21.7	0.0	
100	QPSK	1	271	20.69	20.74	20.68			
100	QPSK	135	0	20.55	20.58	20.56			
100	QPSK	135	69	20.52	20.61	20.54	21.7	0.0	
100	QPSK	135	138	20.50	20.53	20.47	21.7	0.0	
100	QPSK	270	0	20.56	20.60	20.55			
100	16QAM	1	1	20.53	20.60	20.55			
100	64QAM	1	1	19.66	19.69	19.64	21.5	0.2	
100	256QAM	1	1	17.88	17.93	17.87	19.5	2.2	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	20.64	20.67	20.70	21.7	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	20.60	20.74	20.64	21.7	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	20.72	20.75	20.71	21.7	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	20.65	20.77	20.68	21.7	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	20.62	20.69	20.68	21.7	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	20.60	20.71	20.70	21.7	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	20.62	20.78	20.61	21.7	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	20.66	20.76	20.66	21.7	0.0	

Part270 n78_Ant 4 DSI6 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				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1	20.10	20.13	20.09	21.2	0.0	
100	PI/2 BPSK	1	137	20.00	20.07	20.01			
100	PI/2 BPSK	1	271	19.92	19.98	19.94			
100	PI/2 BPSK	135	0	20.09	20.12	20.06	21.2	0.0	
100	PI/2 BPSK	135	69	19.95	20.01	19.96	21.2	0.0	
100	PI/2 BPSK	135	138	19.88	19.95	19.90	21.2	0.0	
100	PI/2 BPSK	270	0	19.94	20.00	19.95			
100	QPSK	1	1	20.16	20.21	20.14			
100	QPSK	1	137	20.09	20.15	20.11	21.2	0.0	
100	QPSK	1	271	20.07	20.12	20.08			
100	QPSK	135	0	20.12	20.07	20.12			
100	QPSK	135	69	19.96	20.12	19.95	21.2	0.0	
100	QPSK	135	138	20.06	20.11	20.06	21.2	0.0	
100	QPSK	270	0	19.94	19.97	19.90			
100	16QAM	1	1	20.08	20.13	20.08			
100	64QAM	1	1	19.70	19.74	19.67	21.2	0.0	
100	256QAM	1	1	17.77	17.83	17.78	19.5	1.7	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	20.03	20.10	20.12	21.2	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	20.07	20.13	20.10	21.2	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	20.07	20.12	20.08	21.2	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	20.09	20.07	20.11	21.2	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	20.01	20.17	20.05	21.2	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	20.06	20.15	20.11	21.2	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	20.09	20.16	20.10	21.2	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	20.14	20.17	20.09	21.2	0.0	



Par27Q n77_Ant 4 DSI6

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				633000	633334	633666		
100	PI/2 BPSK	1	1	20.23				
100	PI/2 BPSK	1	137	20.13			21.7	0.0
100	PI/2 BPSK	1	271	20.05				
100	PI/2 BPSK	135	0	20.16			21.7	0.0
100	PI/2 BPSK	135	69	20.14			21.7	0.0
100	PI/2 BPSK	135	138	19.99			21.7	0.0
100	PI/2 BPSK	270	0	20.03				
100	QPSK	1	1	20.39				
100	QPSK	1	137	20.16			21.7	0.0
100	QPSK	1	271	19.99				
100	QPSK	135	0	20.15			21.7	0.0
100	QPSK	135	69	20.07			21.7	0.0
100	QPSK	135	138	19.97			21.7	0.0
100	QPSK	270	0	20.01				
100	16QAM	1	1	20.20			21.7	0.0
100	64QAM	1	1	20.11			21.5	0.2
100	256QAM	1	1	18.41			19.5	2.2
Channel								
Frequency (MHz)				633000	633334	633666		
90	QPSK	1	1	20.03	20.19	20.05	21.7	0.0
Channel								
Frequency (MHz)				632668	633334	634000		
80	QPSK	1	1	20.12	20.15	20.07	21.7	0.0
Channel								
Frequency (MHz)				632334	633334	634332		
70	QPSK	1	1	20.05	20.22	20.10	21.7	0.0
Channel								
Frequency (MHz)				632000	633334	634666		
60	QPSK	1	1	20.09	20.27	20.04	21.7	0.0
Channel								
Frequency (MHz)				631668	633334	635000		
50	QPSK	1	1	20.09	20.17	20.07	21.7	0.0
Channel								
Frequency (MHz)				631334	633334	635332		
40	QPSK	1	1	20.09	20.21	20.14	21.7	0.0
Channel								
Frequency (MHz)				631000	633334	635666		
30	QPSK	1	1	20.06	20.21	20.13	21.7	0.0
Channel								
Frequency (MHz)				630668	633334	636000		
20	QPSK	1	1	20.13	20.26	20.06	21.7	0.0

Par27Q n77_Ant 4 DSI6 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								
Frequency (MHz)				633000	633334	633666		
100	PI/2 BPSK	1	1	19.75				
100	PI/2 BPSK	1	137	19.66			21.2	0.0
100	PI/2 BPSK	1	271	19.58				
100	PI/2 BPSK	135	0	19.65			21.2	0.0
100	PI/2 BPSK	135	69	19.63			21.2	0.0
100	PI/2 BPSK	135	138	19.48			21.2	0.0
100	PI/2 BPSK	270	0	19.54				
100	QPSK	1	1	19.80				
100	QPSK	1	137	19.66			21.2	0.0
100	QPSK	1	271	19.51				
100	QPSK	135	0	19.55			21.2	0.0
100	QPSK	135	69	19.65			21.2	0.0
100	QPSK	135	138	19.47			21.2	0.0
100	QPSK	270	0	19.53				
100	16QAM	1	1	19.68			21.2	0.0
100	64QAM	1	1	19.72			21.2	0.0
100	256QAM	1	1	18.35			19.5	1.7
Channel								
Frequency (MHz)				633000	633334	633666		
90	QPSK	1	1	19.56	19.66	19.54	21.2	0.0
Channel								
Frequency (MHz)				632668	633334	634000		
80	QPSK	1	1	19.68	19.70	19.61	21.2	0.0
Channel								
Frequency (MHz)				632334	633334	634332		
70	QPSK	1	1	19.59	19.69	19.55	21.2	0.0
Channel								
Frequency (MHz)				632000	633334	634666		
60	QPSK	1	1	19.65	19.72	19.56	21.2	0.0
Channel								
Frequency (MHz)				631668	633334	635000		
50	QPSK	1	1	19.58	19.77	19.50	21.2	0.0
Channel								
Frequency (MHz)				631334	633334	635332		
40	QPSK	1	1	19.67	19.73	19.58	21.2	0.0
Channel								
Frequency (MHz)				631000	633334	635666		
30	QPSK	1	1	19.58	19.68	19.52	21.2	0.0
Channel								
Frequency (MHz)				630668	633334	636000		
20	QPSK	1	1	19.64	19.70	19.59	21.2	0.0



Part27Q n78_Ant 4 DSI6

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				633000	633334	633666		
Frequency (MHz)				3495	3500.01	3504.99		
100	PI/2 BPSK	1	1	20.21			21.7	0.0
100	PI/2 BPSK	1	137	20.11				
100	PI/2 BPSK	1	271	20.22				
100	PI/2 BPSK	135	0	19.73			21.7	0.0
100	PI/2 BPSK	135	69	20.03			21.7	0.0
100	PI/2 BPSK	135	138	20.08			21.7	0.0
100	PI/2 BPSK	270	0	19.94				
100	QPSK	1	1	20.23				
100	QPSK	1	137	20.09			21.7	0.0
100	QPSK	1	271	20.18				
100	QPSK	135	0	20.11			21.7	0.0
100	QPSK	135	69	19.92			21.7	0.0
100	QPSK	135	138	20.03			21.7	0.0
100	QPSK	270	0	19.99				
100	16QAM	1	1	19.90			21.7	0.0
100	64QAM	1	1	19.00			21.5	0.2
100	256QAM	1	1	17.12			19.5	2.2
Channel				633000	633334	633666		
Frequency (MHz)				3495	3500.01	3504.99		
90	QPSK	1	1	20.02	20.22	20.14	21.7	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	20.03	20.15	20.10	21.7	0.0
Channel				632334	633334	634332		
Frequency (MHz)				3485.01	3500.01	3514.98		
70	QPSK	1	1	20.01	20.22	20.09	21.7	0.0
Channel				632000	633334	634666		
Frequency (MHz)				3480	3500.01	3519.99		
60	QPSK	1	1	20.06	20.19	20.16	21.7	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	20.06	20.23	20.09	21.7	0.0
Channel				631334	633334	635332		
Frequency (MHz)				3470.01	3500.01	3529.98		
40	QPSK	1	1	20.12	20.15	20.05	21.7	0.0
Channel				631000	633334	635666		
Frequency (MHz)				3465	3500.01	3534.99		
30	QPSK	1	1	20.09	20.18	20.13	21.7	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	PI/2 BPSK	1	1	20.06	20.20	20.10	21.7	0.0

Part27Q n78_Ant 4 DSI6 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				633000	633334	633666		
Frequency (MHz)				3495	3500.01	3504.99		
100	PI/2 BPSK	1	1	19.53			21.2	0.0
100	PI/2 BPSK	1	137	19.46				
100	PI/2 BPSK	1	271	19.59				
100	PI/2 BPSK	135	0	19.08			21.2	0.0
100	PI/2 BPSK	135	69	19.38			21.2	0.0
100	PI/2 BPSK	135	138	19.42			21.2	0.0
100	PI/2 BPSK	270	0	19.28				
100	QPSK	1	1	19.59				
100	QPSK	1	137	19.47			21.2	0.0
100	QPSK	1	271	19.56				
100	QPSK	135	0	19.41			21.2	0.0
100	QPSK	135	69	19.44			21.2	0.0
100	QPSK	135	138	19.36			21.2	0.0
100	QPSK	270	0	19.32				
100	16QAM	1	1	19.32			21.2	0.0
100	64QAM	1	1	18.95			21.2	0.0
100	256QAM	1	1	17.05			19.5	1.7
Channel				633000	633334	633666		
Frequency (MHz)				3495	3500.01	3504.99		
90	QPSK	1	1	19.18	19.51	19.34	21.2	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	19.16	19.49	19.31	21.2	0.0
Channel				632334	633334	634332		
Frequency (MHz)				3485.01	3500.01	3514.98		
70	QPSK	1	1	19.09	19.53	19.30	21.2	0.0
Channel				632000	633334	634666		
Frequency (MHz)				3480	3500.01	3519.99		
60	QPSK	1	1	19.20	19.55	19.22	21.2	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	19.09	19.48	19.27	21.2	0.0
Channel				631334	633334	635332		
Frequency (MHz)				3470.01	3500.01	3529.98		
40	QPSK	1	1	19.12	19.52	19.23	21.2	0.0
Channel				631000	633334	635666		
Frequency (MHz)				3465	3500.01	3534.99		
30	QPSK	1	1	19.18	19.46	19.22	21.2	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	PI/2 BPSK	1	1	19.15	19.47	19.22	21.2	0.0



Conducted Power for WLAN/Bluetooth

2.4GHz WLAN				Ant 3 For Full Power For Body-worn Standalone For Receiver on Standalone For Handheld Standalone For Handheld Simultaneous		Ant 3 For Receiver on Standalone		Ant 3 For Body-worn Simultaneous For Hotspot		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11b 1Mbps	1	2412	19.30	20.50	13.48	15.00	14.74	16.50	98.90	
	6	2437	19.73	20.50	13.66	15.00	15.09	16.50		
	11	2462	19.41	20.50	13.51	15.00	15.26	16.50		
802.11g 6Mbps	1	2412	18.47	20.00	Not Required	15.00	Not Required	16.50	97.47	
	6	2437	18.72	20.00						
	11	2462	17.73	19.00						
802.11n-HT20 MCS0	1	2412	17.54	19.00	Not Required	15.00	Not Required	16.50	97.31	
	6	2437	18.15	19.50						
	11	2462	18.83	18.50						

5.2GHz WLAN				Ant 3 For Full Power For Handheld Standalone		Ant 3 For Receiver on Standalone		Ant 3 For Receiver on Simultaneous		Ant 3 For Body-worn Standalone For Handheld Simultaneous		Ant 3 For Body-worn Simultaneous For Hotspot	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	36	5180	17.70	19.50	Not Required	15.50	10.00	10.00	14.50	10.50	10.50	10.50	97.49
	40	5200	17.79	19.50									
	44	5220	18.04	19.50									
	48	5240	18.34	19.50									
802.11n-HT20 MCS0	36	5180	17.80	19.50	Not Required	15.50	10.00	10.00	14.50	10.50	10.50	10.50	97.29
	40	5200	17.60	19.50									
	44	5220	17.88	19.50									
	48	5240	18.08	19.50									
802.11n-HT40 MCS0	38	5190	13.37	15.00	13.37	15.00	10.00	10.00	14.50	10.50	10.50	10.50	94.92
	46	5230	17.28	18.50	13.97	15.50	10.00	10.00	14.50	10.50	10.50	10.50	
802.11ac-VHT20 MCS0	36	5180	15.96	17.00	Not Required	15.50	10.00	10.00	14.50	10.50	10.50	10.50	97.44
	40	5200	16.08	17.00									
	44	5220	16.23	17.00									
	48	5240	16.44	17.00									
802.11ac-VHT40 MCS0	38	5190	13.25	15.00	Not Required	15.50	10.00	10.00	14.50	10.50	10.50	10.50	94.56
	46	5230	16.46	18.00									
802.11ac-VHT80 MCS0	42	5210	12.87	14.50	12.87	14.50	8.23	10.00	12.87	14.50	9.33	10.50	89.64

5.3GHz WLAN				Ant 3 For Full Power For Handheld Standalone		Ant 3 For Receiver on Standalone		Ant 3 For Receiver on Simultaneous		Ant 3 For Body-worn Standalone		Ant 3 For Body-worn Simultaneous		Ant 3 For Handheld Simultaneous	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	52	5260	18.09	19.50	Not Required	15.50	10.00	10.00	14.50	10.50	10.50	10.50	16.00	97.49	
	56	5280	18.05	19.50											
	60	5300	17.93	19.50											
	64	5320	17.80	19.50											
802.11n-HT20 MCS0	52	5260	17.94	19.50	Not Required	15.50	10.00	10.00	14.50	10.50	10.50	10.50	16.00	97.29	
	56	5280	17.82	19.50											
	60	5300	17.94	19.50											
	64	5320	17.89	19.50											
802.11n-HT40 MCS0	54	5270	17.05	18.50	Not Required	15.50	Not Required	10.00	14.50	10.50	10.50	14.74	16.00	94.92	
	62	5310	17.15	18.50											
	52	5260	16.16	17.00											
	56	5280	16.28	17.00											
802.11ac-VHT20 MCS0	60	5300	16.13	17.00	Not Required	15.50	10.00	10.00	14.50	10.50	10.50	10.50	16.00	97.44	
	64	5320	16.22	17.00											
	54	5270	16.52	18.00											
	62	5310	16.28	18.00											
802.11ac-VHT40 MCS0	54	5270	16.52	18.00	Not Required	15.50	10.00	10.00	14.50	10.50	10.50	16.00	94.56		
	62	5310	16.28	18.00											
802.11ac-VHT80 MCS0	58	5290	14.03	15.50	14.03	15.50	8.60	10.00	12.86	14.50	8.98	10.50	14.03	15.50	89.64

5.5GHz WLAN				Ant 3 For Full Power For Handheld Standalone		Ant 3 For Receiver on Standalone For Handheld Simultaneous		Ant 3 For Receiver on Simultaneous		Ant 3 For Body-worn Standalone		Ant 3 For Body-worn Simultaneous	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	100	5500	17.08	19.00	Not Required	16.00	11.50	11.50	14.50	10.50	10.50	10.50	97.49
	116	5580	17.03	19.00									
	124	5620	17.53	19.50									
	132	5660	17.80	19.50									
	140	5700	16.60	18.50									
	144	5720	17.39	19.00									
802.11n-HT20 MCS0	100	5500	17.10	19.00	Not Required	16.00	11.50	11.50	14.50	10.50	10.50	10.50	97.29
	116	5580	17.01	19.00									
	124	5620	17.50	19.00									
	132	5660	17.70	19.50									
	140	5700	17.73	19.50									
	144	5720	17.24	19.00									
802.11n-HT40 MCS0	102	5510	16.51	17.00	Not Required	16.00	11.50	11.50	14.50	10.50	10.50	10.50	94.92
	110	5550	16.57	18.50									
	126	5630	16.88	18.50									
	134	5670	16.55	18.50									
	142	5710	16.44	18.00									
	100	5500	15.66	17.50									
802.11ac-VHT20 MCS0	116	5580	15.72	17.50	Not Required	16.00	11.50	11.50	14.50	10.50	10.50	10.50	97.44
	124	5620	15.66	17.50									
	132	5660	15.57	17.50									
	140	5700	15.58	17.50									
	144	5720	15.60	17.50									
	102	5510	15.36	17.00									
802.11ac-VHT40 MCS0	110	5550	15.69	17.50	Not Required	16.00	11.50	11.50	14.50	10.50	10.50	10.50	94.56
	126	5630	15.79	17.50									
	134	5670	15.71	17.50									
	142	5710	15.74	17.50									
	106	5530	13.53	15.50									
	122	5610	15.36	17.00									
802.11ac-VHT80 MCS0	138	5690	15.49	17.00	13.53	15.50	9.85	11.50	13.53	14.50	8.82	10.50	89.64
					14.15	16.00	9.79	11.50	13.21	14.50	8.78	10.50	
					14.41	16.00	10.11	11.50	13.44	14.50	9.18	10.50	

5.8GHz WLAN				Ant 3 For Full Power For Handheld Standalone		Ant 3 For Receiver on Standalone For Handheld Simultaneous		Ant 3 For Receiver on Simultaneous		Ant 3 For Body-worn Standalone		Ant 3 For Body-worn Simultaneous For Hotspot	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	149	5745	17.59	19.50	Not Required	16.00	11.50	11.50	14.50	9.50	9.50	9.50	97.49
	157	5785	17.93	19.50									
	165	5825	17.40	19.00									
802.11n-HT20 MCS0	149	5745	17.47	19.00	Not Required	16.00	11.50	11.50	14.50	9.50	9.50	9.50	97.29
	157	5785	17.79	19.50									
	165	5825	17.55	19.50									
802.11n-HT40 MCS0	151	5755	16.78	18.50	Not Required	16.00	11.50	11.50	14.50	9.50	9.50	9.50	94.92
	159	5795	16.66	18.50									
	149	5745	15.79	17.50									
802.11ac-VHT20 MCS0	157	5785	15.95	17.50	Not Required	16.00	11.50	11.50	14.50	9.50	9.50	9.50	97.44
	165	5825	15.70	17.50									
	151	5755	15.85	17.50									
802.11ac-VHT40 MCS0	159	5795	16.23	17.50	Not Required	16.00	11.50	11.50	14.50	9.50	9.50	9.50	94.59
802.11ac-VHT80 MCS0	155	5775	15.68	17.50	15.05	16.00	9.93	11.50	12.86	14.50	8.37	9.50	89.64

**BT BR/EDR**

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	11.83	9.97	9.95
	CH 39	2441	11.87	9.70	9.66
	CH 78	2480	11.70	9.56	9.78
Tune-up Limit			13.00	11.50	11.50

BT LE 4.0

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
LE	CH 00	2402		6.49	
	CH 19	2440		6.60	
	CH 39	2480		7.56	
Tune-up Limit				8	

BT LE 5.0

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
LE	CH 00	2402		6.52	
	CH 19	2440		6.42	
	CH 39	2480		7.75	
Tune-up Limit				8.00	



Appendix F. Supplemental Tuner Head & Body SAR Results

The results are shown as follows.



Head (Antenna #1)

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	0	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136
WCDMA B2	RMC 12.2Kbps	9400	1880	N/A	N/A	Right Cheek	0mm	0.205	0.325	0.162	0.259	0.123	0.223	0.263	0.292	0.155	0.209	0.258	0.160	0.255	0.121	0.243	0.254	0.299	0.178	0.203	0.261
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	1413	1732.6	N/A	N/A	Right Cheek	0mm	0.164	0.247	0.196	0.100	0.224	0.114	0.148	0.187	0.207	0.135	0.161	0.195	0.101	0.220	0.112	0.144	0.177	0.201	0.129	0.155
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	4182	836.4	N/A	N/A	Left Cheek	0mm	0.321	0.404	0.108	0.075	0.040	0.219	0.172	0.380	0.344	0.153	0.137	0.147	0.110	0.039	0.195	0.177	0.396	0.389	0.179	0.172
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																		
LTE B2	QPSK	18900	1880	1	0	Right Cheek	0mm	0.19	0.294	0.217	0.087	0.195	0.192	0.254	0.283	0.167	0.169	0.223	0.211	0.079	0.189	0.187	0.251	0.282	0.185	0.158	0.218
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	0.13	0.164	0.115	0.163	0.113	0.162	0.002	0.035	0.064	0.018	0.037	0.114	0.093	0.066	0.033	0.000	0.026	0.039	0.019	0.042
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	0.215	0.27	0.111	0.099	0.044	0.046	0.114	0.033	0.098	0.038	0.048	0.155	0.166	0.081	0.095	0.043	0.012	0.087	0.040	0.052
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																		
LTE B28	QPSK	26865	831.5	1	0	Left Cheek	0mm	0.282	0.36	0.230	0.180	0.078	0.066	0.256	0.216	0.077	0.097	0.118	0.266	0.232	0.093	0.081	0.298	0.238	0.075	0.083	0.118
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	132322	1745	1	0	Right Cheek	0mm	0.097	0.139	0.136	0.138	0.114	0.136	0.138	0.138	0.138	0.138	0.102	0.115	0.126	0.110	0.137	0.138	0.137	0.138	0.137	0.094



Body (Antenna #1)

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																		
									Auto-Tune	0	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136
WCDMA B2	RMC 12.2Kbps	9262	1852.4	N/A	N/A	Back	5mm	1.08	2.51	0.999	1.523	0.913	1.220	1.444	1.597	1.022	1.264	1.455	0.998	1.502	0.904	1.202	1.425	1.603	1.129	1.261	1.457
WCDMA B4	RMC 12.2Kbps	1312	1712.4	N/A	N/A	Back	5mm	0.96	1.680	1.375	0.610	1.584	1.115	1.316	1.541	1.499	1.340	1.481	1.384	0.629	1.597	1.110	1.311	1.511	1.507	1.320	1.472
WCDMA B5	RMC 12.2Kbps	4182	836.4	N/A	N/A	Back	5mm	0.908	1.94	0.463	0.315	0.162	0.934	0.963	1.429	1.221	0.801	0.596	0.537	0.372	0.166	0.873	0.975	1.452	1.283	0.877	0.641
LTE B2	QPSK	18700	1860	1	0	Back	5mm	0.914	2.16	0.426	0.215	0.400	0.374	0.458	0.519	0.372	0.340	0.425	0.427	0.198	0.396	0.369	0.446	0.515	0.397	0.317	0.407
LTE B12	QPSK	23095	707.5	1	0	Back	5mm	0.411	0.814	0.339	0.444	0.285	0.392	0.018	0.122	0.213	0.065	0.120	0.367	0.326	0.244	0.133	0.008	0.096	0.137	0.070	0.138
LTE B13	QPSK	23230	782	1	0	Back	5mm	0.588	1.18	0.445	0.389	0.177	0.188	0.536	0.190	0.449	0.187	0.222	0.600	0.602	0.289	0.326	0.237	0.080	0.406	0.196	0.241
LTE B26	QPSK	26865	831.5	1	0	Back	5mm	0.699	1.41	1.199	0.903	0.533	0.415	0.830	0.630	0.235	0.723	0.829	1.348	1.108	0.607	0.492	0.958	0.727	0.223	0.647	0.832
LTE B66	QPSK	132322	1745	1	0	Back	5mm	1.01	1.87	1.170	1.050	0.888	1.020	1.110	0.908	0.930	0.837	0.813	1.165	1.072	1.028	1.178	1.290	1.080	1.116	1.022	0.926



Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																															
									Auto-Tune	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20										
WCDMA B2	RMC 12.2Kbps	9262	1852.4	N/A	N/A	Back	5mm	1.08	2.51	0.999	1.117	1.188	1.331	1.414	1.429	1.473	1.485	1.523	0.303	0.495	0.663	0.707	0.816	0.825	0.885	0.913	0.961	1.208	1.256	1.271										
										21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41										
										1.274	1.239	1.244	1.220	1.206	1.185	1.163	1.355	1.434	1.426	1.436	1.444	1.431	1.428	1.421	1.337	1.433	1.487	1.566	1.597	1.593										
										42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62										
										1.604	1.605	1.612	0.552	0.808	0.985	1.022	1.105	1.112	1.146	1.160	1.180	1.332	1.300	1.264	1.162	1.068	1.067	1.021	0.992	0.958										
										63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83										
										1.389	1.455	1.402	1.387	1.325	1.319	1.284	1.261	1.233	0.998	1.109	1.176	1.318	1.408	1.414	1.459	1.479	1.502	0.305	0.497	0.615										
										84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104										
										0.707	0.812	0.822	0.876	0.904	0.956	1.200	1.242	1.264	1.250	1.225	1.228	1.202	1.186	1.168	1.163	1.342	1.411	1.422	1.423	1.425										
										105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125										
										1.415	1.404	1.400	1.412	1.491	1.540	1.595	1.603	1.604	1.607	1.604	1.594	0.637	0.917	1.092	1.129	1.199	1.204	1.229	1.239	1.242										
										126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143													
										1.361	1.309	1.261	1.122	1.014	1.002	0.957	0.930	0.888	1.436	1.457	1.384	1.354	1.275	1.272	1.229	1.201	1.167													
										WCDMA B4	RMC 12.2Kbps	1312	1712.4	N/A	N/A	Back	5mm	0.96	1.680	1.258	1.375	1.441	1.544	1.570	1.566	1.560	1.559	1.541	0.610	0.911	1.165	1.234	1.395	1.408	1.488	1.521	1.584	1.227	1.358	1.411
																				21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
																				1.386	1.254	1.242	1.159	1.115	1.022	1.129	1.490	1.500	1.484	1.397	1.382	1.316	1.282	1.197	1.344	1.450	1.503	1.557	1.547	1.541
																				42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
1.520	1.507	1.476	0.723	1.039	1.293	1.365	1.499	1.517	1.576											1.608	1.647	1.341	1.435	1.453	1.340	1.170	1.145	1.063	1.012	0.918										
63	64	65	66	67	68	69	70	71	72											73	74	75	76	77	78	79	80	81	82	83										
1.216	1.506	1.481	1.431	1.319	1.290	1.214	1.177	1.093	1.275											1.384	1.454	1.551	1.572	1.570	1.569	1.560	1.536	0.829	0.927	1.118										
84	85	86	87	88	89	90	91	92	93											94	95	96	97	98	99	100	101	102	103	104										
1.255	1.409	1.430	1.500	1.533	1.597	1.255	1.378	1.426	1.381											1.251	1.229	1.147	1.110	1.013	1.151	1.464	1.512	1.485	1.399	1.374										
105	106	107	108	109	110	111	112	113	114											115	116	117	118	119	120	121	122	123	124	125										
1.311	1.278	1.190	1.355	1.454	1.496	1.543	1.520	1.511	1.482											1.480	1.429	0.747	1.062	1.313	1.380	1.507	1.530	1.581	1.609	1.650										
126	127	128	129	130	131	132	133	134	135											136	137	138	139	140	141	142	143													
1.370	1.463	1.466	1.320	1.131	1.112	1.021	0.976	0.882	1.236											1.521	1.472	1.412	1.281	1.261	1.180	1.138	1.052													
WCDMA B5	RMC 12.2Kbps	4182	836.4	N/A	N/A	Back	5mm	0.908	1.94											0.280	0.374	0.463	0.706	1.023	1.118	1.265	1.310	1.462	0.162	0.315	0.535	0.645	0.887	0.982	1.092	1.195	1.412	1.162	0.207	0.255
																				21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
																				0.404	0.645	0.744	0.877	0.923	0.934	0.128	0.221	0.427	0.468	0.683	0.784	0.924	0.963	0.970	0.390	0.512	0.634	0.941	1.260	1.340
																				42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
										1.429	1.460	1.461	0.238	0.449	0.741	0.875	1.131	1.221	1.351	1.400	1.482	0.167	0.228	0.296	0.511	0.801	0.881	0.937	0.935	0.771										
										63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83										
										0.121	0.244	0.467	0.596	0.838	0.820	0.975	0.972	0.803	0.332	0.435	0.537	0.812	1.124	1.221	1.131	1.405	1.485	0.196	0.372	0.549										
										84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104										
										0.750	0.999	1.096	1.239	1.299	1.470	0.166	0.218	0.274	0.446	0.707	0.804	0.912	0.938	0.873	0.128	0.233	0.414	0.520	0.745	0.842										
										105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125										
										0.948	0.975	0.904	0.409	0.592	0.668	0.993	1.305	1.375	1.452	1.459	1.403	0.253	0.478	0.792	0.939	1.200	1.263	1.337	1.429	1.451										
										126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143													
										0.147	0.213	0.289	0.541	0.877	0.956	0.971	0.945	0.713	0.101	0.230	0.489	0.641	0.914	0.989	1.004	0.982	0.970													
										LTE B2	QPSK	18700	1860	1	0	Back	5mm	0.914	2.16	0.619	0.688	0.732	0.819	0.883	0.884	0.917	0.930	0.946	0.186	0.305	0.407	0.436	0.505	0.512	0.549	0.564	0.597	0.742	0.781	0.789
																				21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
																				0.787	0.771	0.776	0.756	0.744	0.740	0.715	0.841	0.881	0.884	0.897	0.892	0.895	0.888	0.892	0.833	0.895	0.925	0.976	0.997	0.996
																				42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
0.994	1.000	0.998	0.341	0.499	0.610	0.631	0.683	0.690	0.714											0.723	0.733	0.818	0.804	0.779	0.720	0.662	0.659	0.631	0.614	0.594										
63	64	65	66	67	68	69	70	71	72											73	74	75	76	77	78	79	80	81	82	83										
0.852	0.902	0.870	0.859	0.828	0.825	0.807	0.794	0.776	0.618											0.690	0.732	0.813	0.867	0.872	0.897	0.915	0.932	0.185	0.303	0.376										
84	85	86	87	88	89	90	91	92	93											94	95	96	97	98	99	100	101	102	103	104										
0.435	0.498	0.504	0.542	0.557	0.592	0.737	0.764	0.781	0.777											0.761	0.766	0.907	0.920	0.935	0.910	0.820	0.861	0.876	0.872	0.880										
105	106	107	108	109	110	111	112	113	114											115	116	117	118	119	120	121	122	123	124	125										
0.877	0.862	0.863	0.870	0.921	0.947	0.966	0.994	0.996	0.991											0.996	0.986	0.385	0.555	0.666	0.690	0.731	0.732	0.754	0.766	0.761										
126	127	128	129	130	131	132	133	134	135											136	137	138	139	140	141	142	143													
0.832	0.796	0.767	0.685	0.621	0.614	0.589	0.571	0.553	0.884											0.895	0.850	0.835	0.785	0.776	0.759	0.740	0.719													
LTE B6	QPSK	132322	1745	1	0	Back	5mm	1.01	1.87											0.679	0.963	1.010	1.110	1.150	1.150	1.170	1.170	1.180	0.421	0.615	0.795	0.847	0.981	0.995	1.050	1.090	1.140	0.815	0.901	0.945
																				21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
																				0.955	0.896	0.888	0.846	0.823	0.761	0.780	0.991	1.050	1.050	1.020	1.010	0.978	0.958	0.910	0.938	1.010	1.050	1.110	1.130	1.140
																				42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
										1.130	1.140	1.120	0.505	0.719	0.908	0.962	1.070	1.090	1.150	1.180	1.220	0.871	0.930	0.948	0.900	0.812	0.797	0.750	0.723	0.667										
										63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83										
										0.837	1.010	1.010	0.998	0.937	0.928	0.887	0.863	0.813	0.882	0.966	1.017	1.108	1.149	1.153	1.163	1.165	1.163	0.434	0.631	0.762										
										84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104										
										0.870	0.994	1.010	1.072	1.101	1.175	0.833	0.915																							