

10605	AAC	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	AAD	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10637	AAD	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10638	AAD	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc)	WLAN	8.86	± 9.6 %
10639	AAD	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10640	AAD	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc dc)	WLAN	8.98	± 9.6 %
10641	AAD	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc dc)	WLAN	9.06	± 9.6 %
10642	AAD	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc dc)	WLAN	9.06	± 9.6 %
10643	AAD	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc dc)	WLAN	8.89	± 9.6 %
10644	AAD	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc dc)	WLAN	9.05	± 9.6 %
10645	AAD	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc)	WLAN	9.11	± 9.6 %
10646	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10647	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	± 9.6 %
10652	AAE	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10653	AAE	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %
10654	AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	± 9.6 %
10655	AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	± 9.6 %
10658	AAA	Pulse Waveform (200Hz, 10%)	Test	10.00	± 9.6 %
10659	AAA	Pulse Waveform (200Hz, 20%)	Test	6.99	± 9.6 %
10660	AAA	Pulse Waveform (200Hz, 40%)	Test	3.98	± 9.6 %
10661	AAA	Pulse Waveform (200Hz, 60%)	Test	2.22	± 9.6 %
10662	AAA	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	± 9.6 %
10671	AAC	IEEE 802.11ax (20MHz, MCS0, 90pc dc)	WLAN	9.09	± 9.6 %
10672	AAC	IEEE 802.11ax (20MHz, MCS1, 90pc dc)	WLAN	8.57	± 9.6 %

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

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

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

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

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

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



Appendix E. Conducted RF Output Power Table

The detailed power table are shown as follows.



Full Power level/Default Power level for WWAN

GSM850 Ant1 Default power

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	160	251		128	160	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.80	32.76	32.75	33.50	23.80	23.76	23.75	24.50
GPRS 1 Tx slot	32.69	32.78	32.69	33.50	23.69	23.78	23.69	24.50
GPRS 2 Tx slots	30.09	30.29	30.29	31.00	24.09	24.29	24.29	25.00
GPRS 3 Tx slots	29.10	29.22	29.03	29.50	24.84	24.96	24.77	25.24
GPRS 4 Tx slots	27.05	27.14	27.03	28.00	24.05	24.14	24.03	25.00
EDGE 1 Tx slot	27.03	27.18	27.01	28.50	18.03	18.18	18.01	19.50
EDGE 2 Tx slots	24.22	24.41	24.43	25.50	18.22	18.41	18.43	19.50
EDGE 3 Tx slots	22.15	22.36	22.27	24.00	17.89	18.10	18.01	19.74
EDGE 4 Tx slots	21.08	21.15	20.94	22.50	18.08	18.15	17.84	19.50

GSM1900 Ant1 Default power

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.81	29.87	29.76	30.50	20.81	20.87	20.76	21.50
GPRS 1 Tx slot	29.83	29.89	29.84	30.50	20.83	20.89	20.84	21.50
GPRS 2 Tx slots	26.24	26.28	26.15	27.50	20.24	20.28	20.15	21.50
GPRS 3 Tx slots	24.16	24.33	24.21	25.00	19.90	20.07	19.95	21.74
GPRS 4 Tx slots	23.07	23.25	23.26	24.50	20.07	20.25	20.26	21.50
EDGE 1 Tx slot	26.34	26.48	26.47	27.50	17.34	17.48	17.47	18.50
EDGE 2 Tx slots	23.21	23.20	23.05	24.50	17.21	17.20	17.05	18.50
EDGE 3 Tx slots	22.18	22.18	22.10	23.00	17.92	17.92	17.84	18.74
EDGE 4 Tx slots	20.86	21.02	20.89	21.50	17.86	18.02	17.89	18.50

WCDMA II Ant1 Default power

WCDMA IV Ant1 Default power

WCDMA V Ant1 Default power

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
	9262	8400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99 AMR 12.2Kbps	23.56	23.63	23.59	25.00	23.44	23.49	23.47	25.00	23.91	23.96	23.88	25.50
3GPP Rel 99 RMC 12.2Kbps	23.57	23.64	23.61	25.00	23.51	23.54	23.53	25.00	23.93	23.98	23.89	25.50
3GPP Rel 6 HSDPA Subtest-1	22.37	22.53	22.65	24.00	22.69	22.63	22.60	24.00	22.84	22.95	22.99	24.50
3GPP Rel 6 HSDPA Subtest-2	22.64	22.44	22.39	24.00	22.77	22.78	22.48	24.00	22.78	23.02	23.08	24.50
3GPP Rel 6 HSDPA Subtest-3	22.07	22.24	22.04	23.50	22.11	22.06	22.18	23.50	22.52	22.30	22.35	24.00
3GPP Rel 6 HSDPA Subtest-4	22.02	22.13	21.87	23.50	22.24	22.13	22.16	23.50	22.14	22.39	22.40	24.00
3GPP Rel 8 DC-HSDPA Subtest-1	22.71	22.58	22.60	24.00	22.76	22.55	22.73	24.00	23.10	22.92	23.11	24.50
3GPP Rel 8 DC-HSDPA Subtest-2	22.41	22.70	22.42	24.00	22.70	22.85	22.72	24.00	23.07	23.09	23.13	24.50
3GPP Rel 8 DC-HSDPA Subtest-3	22.29	22.27	22.18	23.50	22.27	22.15	22.07	23.50	22.58	22.36	22.16	24.00
3GPP Rel 8 DC-HSDPA Subtest-4	21.91	22.26	22.04	23.50	22.39	22.18	21.98	23.50	22.25	22.57	22.31	24.00
3GPP Rel 6 HSUPA Subtest-1	22.48	22.63	22.68	24.00	22.59	22.70	22.74	24.00	22.99	22.91	23.15	24.50
3GPP Rel 6 HSUPA Subtest-2	20.74	20.59	20.54	22.00	20.73	20.62	20.57	22.00	20.95	20.98	21.06	22.50
3GPP Rel 6 HSUPA Subtest-3	21.55	21.92	21.46	23.00	21.85	21.50	21.64	23.00	22.01	21.95	21.61	23.50
3GPP Rel 6 HSUPA Subtest-4	20.41	20.57	20.24	22.00	20.78	20.81	20.78	22.00	20.72	20.85	20.89	22.50
3GPP Rel 6 HSUPA Subtest-5	22.52	22.78	22.74	24.00	22.63	22.70	22.56	24.00	22.78	22.95	23.12	24.50
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	19.86	19.98	20.00	21.50	20.03	20.07	20.17	21.50	20.29	20.33	20.24	22.00



Band 2 Ant1 Default power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				18700	18900	19100				
Frequency (MHz)				18700	18900	19100				
20	QPSK	1	0	23.69	23.73	23.60			25	0
20	QPSK	1	49	23.63	23.56	23.63				
20	QPSK	1	99	23.47	23.51	23.56				
20	QPSK	50	0	22.55	22.67	22.53				
20	QPSK	50	24	22.39	22.45	22.47			24	1
20	QPSK	50	50	22.53	22.49	22.58				
20	QPSK	100	0	22.29	22.53	22.50				
20	16QAM	1	0	22.43	22.40	22.30				
20	16QAM	1	49	22.35	22.39	22.39			24	1
20	16QAM	1	99	22.24	22.22	22.28				
20	16QAM	50	0	21.47	21.57	21.53				
20	16QAM	50	24	21.51	21.56	21.58			23	2
20	16QAM	50	50	21.42	21.33	21.41				
20	16QAM	100	0	21.56	21.38	21.39				
20	64QAM	1	0	21.41	21.44	21.45				
20	64QAM	1	49	21.55	21.43	21.37			23	2
20	64QAM	1	99	21.48	21.49	21.50				
20	64QAM	50	0	20.51	20.48	20.65				
20	64QAM	50	24	20.56	20.63	20.53			22	3
20	64QAM	50	50	20.41	20.53	20.55				
20	64QAM	100	0	20.53	20.57	20.50				
Channel				18675	18900	19125				
Frequency (MHz)				18675	18900	19125				
15	QPSK	1	0	23.62	23.60	23.45			25	0
15	QPSK	1	37	23.57	23.52	23.49				
15	QPSK	1	74	23.36	23.40	23.44				
15	QPSK	36	0	22.60	22.64	22.47				
15	QPSK	36	39	22.30	22.32	22.44			24	1
15	QPSK	36	78	22.46	22.43	22.53				
15	QPSK	75	0	22.16	22.45	22.36				
15	16QAM	1	0	22.31	22.33	22.20				
15	16QAM	1	37	22.27	22.25	22.28			24	1
15	16QAM	1	74	22.12	22.19	22.22				
15	16QAM	36	0	21.38	21.49	21.46				
15	16QAM	36	39	21.31	21.27	21.37			23	2
15	16QAM	75	0	21.53	21.31	21.24				
15	64QAM	1	0	21.29	21.34	21.28				
15	64QAM	1	37	21.41	21.37	21.40			23	2
15	64QAM	1	74	21.44	21.45	21.42				
15	64QAM	36	0	20.43	20.40	20.53				
15	64QAM	36	20	20.53	20.60	20.49			22	3
15	64QAM	36	39	20.34	20.46	20.50				
15	64QAM	75	0	20.50	20.49	20.38				
Channel				18950	18900	19150				
Frequency (MHz)				18950	18900	19150				
10	QPSK	1	0	23.58	23.62	23.51			25	0
10	QPSK	1	25	23.54	23.44	23.53				
10	QPSK	1	49	23.41	23.39	23.52				
10	QPSK	25	0	22.51	22.58	22.40				
10	QPSK	25	12	22.29	22.32	22.38			24	1
10	QPSK	25	25	22.39	22.45	22.48				
10	QPSK	50	0	22.22	22.42	22.43				
10	16QAM	1	0	22.33	22.37	22.21				
10	16QAM	1	25	22.29	22.33	22.34			24	1
10	16QAM	1	49	22.14	22.09	22.23				
10	16QAM	25	0	21.36	21.45	21.42				
10	16QAM	25	12	21.46	21.49	21.54			23	2
10	16QAM	25	25	21.33	21.26	21.29				
10	16QAM	50	0	21.45	21.31	21.35				
10	64QAM	1	0	21.29	21.36	21.23			23	2
10	64QAM	1	25	21.40	21.37	21.40				
10	64QAM	1	49	21.44	21.46	21.41				
10	64QAM	25	0	20.37	20.44	20.61				
10	64QAM	25	12	20.45	20.56	20.50			22	3
10	64QAM	25	25	20.32	20.41	20.45				
10	64QAM	50	0	20.48	20.45	20.44				
Channel				18625	18900	19175				
Frequency (MHz)				18625	18900	19175				
5	QPSK	1	0	23.64	23.64	23.47			25	0
5	QPSK	1	12	23.30	23.53	23.56				
5	QPSK	1	24	23.41	23.44	23.46				
5	QPSK	12	0	22.45	22.60	22.47				
5	QPSK	12	7	22.31	22.35	22.35			24	1
5	QPSK	12	13	22.48	22.41	22.54				
5	QPSK	25	0	22.24	22.48	22.36				
5	16QAM	1	0	22.32	22.33	22.21				
5	16QAM	1	12	22.23	22.32	22.29			24	1
5	16QAM	1	24	22.17	22.14	22.18				
5	16QAM	12	0	21.36	21.43	21.38				
5	16QAM	12	7	21.38	21.53	21.50			23	2
5	16QAM	12	13	21.36	21.27	21.31				
5	16QAM	25	0	21.52	21.28	21.30				
5	64QAM	1	0	21.26	21.34	21.31				
5	64QAM	1	12	21.45	21.34	21.37			23	2
5	64QAM	1	24	21.34	21.42	21.44				
5	64QAM	12	0	20.40	20.35	20.50				
5	64QAM	12	7	20.43	20.36	20.46			22	3
5	64QAM	12	13	20.28	20.41	20.46				
5	64QAM	25	0	20.40	20.53	20.46				
Channel				18815	18900	19185				
Frequency (MHz)				18815	18900	19185				
3	QPSK	1	0	23.65	23.62	23.47			25	0
3	QPSK	1	8	23.51	23.45	23.58				
3	QPSK	1	14	23.44	23.42	23.42				
3	QPSK	8	0	22.45	22.58	22.44				
3	QPSK	8	4	22.36	22.41	22.33			24	1
3	QPSK	8	7	22.45	22.36	22.44				
3	QPSK	15	0	22.24	22.46	22.37				
3	16QAM	1	0	22.35	22.31	22.16				
3	16QAM	1	8	22.32	22.27	22.30			24	1
3	16QAM	1	14	22.17	22.08	22.20				
3	16QAM	8	0	21.43	21.43	21.47				
3	16QAM	8	4	21.47	21.49	21.54			23	2
3	16QAM	8	7	21.28	21.29	21.37				
3	16QAM	15	0	21.45	21.30	21.24				
3	64QAM	1	0	21.32	21.39	21.22				
3	64QAM	1	8	21.47	21.29	21.41			23	2
3	64QAM	1	14	21.39	21.37	21.46				
3	64QAM	8	0	20.38	20.41	20.53				
3	64QAM	8	4	20.43	20.49	20.39			22	3
3	64QAM	8	7	20.30	20.49	20.46				
3	64QAM	15	0	20.39	20.46	20.50				
Channel				18907	18900	19193				
Frequency (MHz)				18907	18900	19193				
1.4	QPSK	1	0	23.65	23.59	23.55			25	0
1.4	QPSK	1	3	23.52	23.46	23.51				
1.4	QPSK	1	5	23.43	23.39	23.43				
1.4	QPSK	3	0	23.48	23.64	23.44				
1.4	QPSK	3	1	23.27	23.33	23.36				
1.4	QPSK	3	3	23.44	23.43	23.51			24	1
1.4	16QAM	1	0	22.32	22.27	22.17				
1.4	16QAM	1	3	22.21	22.36	22.26				
1.4	16QAM	1	5	22.12	22.11	22.18			24	1
1.4	16QAM	3	0	22.40	22.51	22.42				
1.4	16QAM	3	1	22.45	22.44	22.50				
1.4	16QAM	3	3	22.33	22.22	22.29			23	2
1.4	64QAM	1	0	21.30	21.39	21.26				
1.4	64QAM	1	3	21.44	21.32	21.34				
1.4	64QAM	1	5	21.36	21.36	21.45			23	2
1.4	64QAM	3	0	21.36	21.35	21.53				
1.4	64QAM	3	1	21.49	21.49	21.49	</			



Band 5 Ant1 Default power								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600		
Frequency (MHz)				25.5	25.5	25.5		
10	QPSK	1	0	23.95	23.99	23.81	25.5	0
10	QPSK	1	25	23.96	23.82	23.94		
10	QPSK	1	49	23.71	23.80	23.74		
10	QPSK	25	0	22.84	22.96	22.85	24.5	1
10	QPSK	25	12	22.72	22.69	22.81		
10	QPSK	25	25	22.79	22.76	22.85		
10	QPSK	50	0	22.76	22.83	22.73		
10	16QAM	1	0	22.98	23.07	22.86	24.5	1
10	16QAM	1	25	23.04	22.92	22.99		
10	16QAM	1	49	22.80	22.82	22.84		
10	16QAM	25	0	21.94	22.02	21.89		
10	16QAM	25	12	21.81	21.76	21.86	23.5	2
10	16QAM	25	25	21.87	21.79	21.91		
10	16QAM	50	0	21.82	21.84	21.76		
10	64QAM	1	0	22.07	22.12	21.86	23.5	2
10	64QAM	1	25	22.07	22.04	22.04		
10	64QAM	1	49	21.95	21.96	21.93		
10	64QAM	25	0	20.95	21.07	20.95		
10	64QAM	25	12	20.81	20.87	20.90	22.5	3
10	64QAM	25	25	20.96	20.87	21.01		
10	64QAM	50	0	20.85	20.91	20.82		
Channel				20425	20525	20625		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	23.89	23.93	23.73	25.5	0
5	QPSK	1	12	23.88	23.82	23.86		
5	QPSK	1	24	23.68	23.71	23.76		
5	QPSK	12	0	22.83	22.88	22.79	24.5	1
5	QPSK	12	7	22.63	22.64	22.73		
5	QPSK	12	13	22.78	22.67	22.81		
5	QPSK	25	0	22.74	22.81	22.73	24.5	1
5	16QAM	1	0	22.97	23.09	22.84		
5	16QAM	1	12	22.96	22.84	22.90	24.5	1
5	16QAM	1	24	22.79	22.81	22.78		
5	16QAM	12	0	21.89	22.04	21.81		
5	16QAM	12	7	21.79	21.72	21.82	23.5	2
5	16QAM	12	13	21.86	21.75	21.84		
5	16QAM	25	0	21.82	21.83	21.69		
5	64QAM	1	0	22.04	22.09	21.81	23.5	2
5	64QAM	1	12	21.97	21.96	22.00		
5	64QAM	1	24	21.80	21.88	21.83		
5	64QAM	12	0	20.87	21.03	20.89		
5	64QAM	12	7	20.75	20.83	20.80	22.5	3
5	64QAM	12	13	20.96	20.88	20.93		
5	64QAM	25	0	20.81	20.92	20.84		
Channel				20415	20525	20635		
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	23.87	23.96	23.79	25.5	0
3	QPSK	1	8	23.92	23.78	23.88		
3	QPSK	1	14	23.62	23.74	23.70		
3	QPSK	8	0	22.77	22.91	22.78	24.5	1
3	QPSK	8	4	22.69	22.60	22.73		
3	QPSK	8	7	22.78	22.74	22.78		
3	QPSK	15	0	22.67	22.73	22.70	24.5	1
3	16QAM	1	0	22.92	23.00	22.86		
3	16QAM	1	8	23.01	22.85	22.94	24.5	1
3	16QAM	1	14	22.70	22.83	22.86		
3	16QAM	8	0	21.96	21.93	21.83		
3	16QAM	8	4	21.78	21.75	21.82	23.5	2
3	16QAM	8	7	21.82	21.75	21.91		
3	16QAM	15	0	21.82	21.79	21.76		
3	64QAM	1	0	22.09	22.02	21.88	23.5	2
3	64QAM	1	8	22.03	21.96	22.05		
3	64QAM	1	14	21.86	21.87	21.89		
3	64QAM	8	0	20.92	21.05	20.86		
3	64QAM	8	4	20.80	20.86	20.82	22.5	3
3	64QAM	8	7	20.89	20.86	20.91		
3	64QAM	15	0	20.78	20.82	20.80		
Channel				20407	20525	20643		
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	23.86	23.95	23.72	25.5	0
1.4	QPSK	1	3	23.87	23.80	23.85		
1.4	QPSK	1	5	23.64	23.74	23.65		
1.4	QPSK	3	0	23.82	23.94	23.83		
1.4	QPSK	3	1	23.64	23.61	23.61	24.5	1
1.4	QPSK	3	3	23.73	23.74	23.78		
1.4	QPSK	6	0	22.71	22.83	22.67	24.5	1
1.4	16QAM	1	0	22.90	23.04	22.87		
1.4	16QAM	1	3	23.01	22.94	23.00	24.5	1
1.4	16QAM	1	5	22.70	22.73	22.78		
1.4	16QAM	3	0	22.95	22.98	22.80		
1.4	16QAM	3	1	22.80	22.67	22.80		
1.4	16QAM	3	3	22.85	22.75	22.88	23.5	2
1.4	16QAM	6	0	21.80	21.76	21.72		
1.4	64QAM	1	0	22.03	22.13	21.82	23.5	2
1.4	64QAM	1	3	22.00	21.97	22.03		
1.4	64QAM	1	5	21.84	21.84	21.88	23.5	2
1.4	64QAM	3	0	21.92	22.05	21.88		
1.4	64QAM	3	1	21.74	21.87	21.91		
1.4	64QAM	3	3	21.92	21.78	21.99	22.5	3
1.4	64QAM	6	0	20.77	20.82	20.75		

Band 7 Ant1 Default power								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				25.10	25.35	25.60		
20	QPSK	1	0	24.04	24.09	24.01	25.5	0
20	QPSK	1	49	24.03	23.99	24.05		
20	QPSK	1	99	23.88	23.93	23.85		
20	QPSK	50	0	22.97	23.07	22.95	24.5	1
20	QPSK	50	24	22.79	22.75	22.85		
20	QPSK	50	50	22.91	22.91	22.88		
20	QPSK	100	0	22.67	22.90	22.82		
20	16QAM	1	0	22.89	22.88	22.70	24.5	1
20	16QAM	1	49	22.87	22.75	22.83		
20	16QAM	1	99	22.53	22.67	22.86		
20	16QAM	50	0	21.83	22.04	22.05		
20	16QAM	50	24	21.96	21.89	22.03	23.5	2
20	16QAM	50	50	21.86	21.65	21.79		
20	16QAM	100	0	21.92	21.55	21.59		
20	64QAM	1	0	21.79	21.86	21.82	23.5	2
20	64QAM	1	49	21.86	21.73	21.83		
20	64QAM	1	99	21.84	21.86	21.84		
20	64QAM	50	0	20.90	20.91	21.14		
20	64QAM	50	24	20.91	21.01	20.90	22.5	3
20	64QAM	50	50	20.87	20.65	21.14		
20	64QAM	100	0	20.88	20.88	20.86		
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	23.87	23.88	23.82	25.5	0
15	QPSK	1	37	23.87	23.81	23.86		
15	QPSK	1	74	23.71	23.77	23.69		
15	QPSK	36	0	22.82	22.91	22.82	24.5	1
15	QPSK	36	20	22.62	22.80	22.68		
15	QPSK	36	39	22.80	22.79	22.72		
15	QPSK	75	0	22.51	22.72	22.72		
15	16QAM	1	0	22.70	22.87	22.52	24.5	1
15	16QAM	1	37	22.53	22.61	22.73		
15	16QAM	1	74	22.92	22.58	22.96		
15	16QAM	36	0	21.68	21.91	21.85	23.5	2
15	16QAM	36	20	21.78	21.75	21.87		
15	16QAM	36	39	21.75	21.54	21.69		
15	16QAM	75	0	21.72	21.94	21.99		
15	64QAM	1	0	21.68	21.66	21.67	23.5	2
15	64QAM	1	37	21.74	21.54	21.79		
15	64QAM	1	74	21.65	21.76	21.73		
15	64QAM	36	0	20.72	20.80	20.88	22.5	3
15	64QAM	36	20	20.70	20.82	20.78		
15	64QAM	36	39	20.70	20.99	20.96		
15	64QAM	75	0	20.75	20.70	20.68		
Channel				20800	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	23.85	23.99	23.88	25.5	0
10	QPSK	1	25	23.83	23.84	23.85		
10	QPSK	1	49	23.74	23.77	23.64		
10	QPSK	25	0	22.85	22.92	22.78	24.5	1
10	QPSK	25	12	22.66	22.66	22.66		
10	QPSK	25	25	22.73	22.74	22.67		



Band 38 Ant1 Default power										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150	25.5	0		
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	24.01	24.05	24.03				
20	QPSK	1	49	23.94	23.88	23.93	24.5	1		
20	QPSK	1	99	23.90	23.95	23.88				
20	QPSK	50	0	22.88	23.02	22.84				
20	QPSK	50	24	22.80	22.87	22.90	24.5	1		
20	QPSK	50	50	22.99	22.90	22.70				
20	QPSK	100	0	22.70	22.96	22.92				
20	16QAM	1	0	22.80	22.83	22.74	24.5	1		
20	16QAM	1	49	22.76	22.84	22.86				
20	16QAM	1	99	22.84	22.78	22.82				
20	16QAM	50	0	21.76	21.95	21.94	23.5	2		
20	16QAM	50	24	21.70	21.89	21.78				
20	16QAM	50	50	21.64	21.52	21.74				
20	16QAM	100	0	21.70	21.67	21.56	23.5	2		
20	84QAM	1	0	21.75	21.64	21.69				
20	84QAM	1	49	21.56	21.65	21.58				
20	84QAM	1	99	21.67	21.70	21.65	22.5	3		
20	84QAM	50	0	20.85	20.89	20.95				
20	84QAM	50	24	21.01	21.04	20.98				
20	84QAM	50	50	20.92	20.76	21.18	22.5	3		
20	84QAM	100	0	20.96	21.01	20.78				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	23.89	23.93	23.92	25.5	0		
15	QPSK	1	37	23.89	23.76	23.80				
15	QPSK	1	74	23.83	23.82	23.79				
15	QPSK	36	0	22.82	22.92	22.71	24.5	1		
15	QPSK	36	20	22.70	22.79	22.79				
15	QPSK	36	39	22.87	22.85	22.95				
15	QPSK	75	0	22.56	22.80	22.87	24.5	1		
15	16QAM	1	0	22.67	22.72	22.65				
15	16QAM	1	37	22.67	22.78	22.74				
15	16QAM	1	74	22.70	22.66	22.70	23.5	2		
15	16QAM	36	0	21.61	21.88	21.80				
15	16QAM	36	20	21.63	21.80	21.72				
15	16QAM	36	39	21.51	21.54	21.63	23.5	2		
15	16QAM	75	0	21.61	21.54	21.50				
15	84QAM	1	0	21.62	21.59	21.56				
15	84QAM	1	37	21.55	21.51	21.59	23.5	2		
15	84QAM	1	74	21.62	21.64	21.53				
15	84QAM	36	0	20.72	20.80	20.81				
15	84QAM	36	20	20.95	20.91	20.85	22.5	3		
15	84QAM	36	39	20.84	20.66	21.05				
15	84QAM	75	0	20.89	20.96	20.63				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	23.95	24.00	23.96	25.5	0		
10	QPSK	1	25	23.89	23.77	23.81				
10	QPSK	1	49	23.80	23.81	23.78				
10	QPSK	25	0	22.81	22.85	22.73	24.5	1		
10	QPSK	25	12	22.74	22.74	22.85				
10	QPSK	25	25	22.85	22.82	22.92				
10	QPSK	50	0	22.62	22.86	22.85	24.5	1		
10	16QAM	1	0	22.71	22.76	22.64				
10	16QAM	1	25	22.70	22.78	22.76				
10	16QAM	1	49	22.78	22.64	22.75	23.5	2		
10	16QAM	25	0	21.67	21.89	21.85				
10	16QAM	25	12	21.59	21.79	21.67				
10	16QAM	25	25	21.57	21.52	21.59	23.5	2		
10	16QAM	50	0	21.56	21.62	21.82				
10	84QAM	1	0	21.67	21.89	21.56				
10	84QAM	1	25	21.84	21.53	21.50	23.5	2		
10	84QAM	1	49	21.59	21.57	21.57				
10	84QAM	25	0	20.78	20.83	20.90				
10	84QAM	25	12	20.89	20.89	20.87	22.5	3		
10	84QAM	25	25	20.82	20.62	21.06				
10	84QAM	50	0	20.86	20.93	20.68				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	23.92	23.90	23.91	25.5	0		
5	QPSK	1	12	23.85	23.75	23.80				
5	QPSK	1	24	23.79	23.87	23.79				
5	QPSK	12	0	22.74	22.85	22.75	24.5	1		
5	QPSK	12	7	22.73	22.74	22.84				
5	QPSK	12	13	22.90	22.82	22.97				
5	QPSK	25	0	22.59	22.80	22.87	24.5	1		
5	16QAM	1	0	22.73	22.76	22.63				
5	16QAM	1	12	22.63	22.75	22.77				
5	16QAM	1	24	22.71	22.66	22.72	23.5	2		
5	16QAM	12	0	21.70	21.86	21.88				
5	16QAM	12	7	21.63	21.78	21.71				
5	16QAM	12	13	21.59	21.84	21.62	23.5	2		
5	16QAM	25	0	21.64	21.54	21.50				
5	84QAM	1	0	21.68	21.50	21.59				
5	84QAM	1	12	21.85	21.58	21.85	23.5	2		
5	84QAM	1	24	21.52	21.61	21.52				
5	84QAM	12	0	20.75	20.77	20.89				
5	84QAM	12	7	20.92	20.97	20.85	22.5	3		
5	84QAM	12	13	20.82	20.67	21.13				
5	84QAM	25	0	20.84	20.92	20.64				

Band 41 Ant1 Default power												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490	25.5	0		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	23.93	23.99	24.12	24.02	24.07				
20	QPSK	1	49	23.83	23.90	23.97	23.91	23.92	24.5	1		
20	QPSK	1	99	23.81	23.84	23.91	23.76	23.78				
20	QPSK	50	0	22.97	23.01	23.08	22.93	22.95				
20	QPSK	50	24	22.95	22.96	23.07	22.95	22.98	24.5	1		
20	QPSK	50	50	22.93	22.98	23.04	22.94	22.94				
20	QPSK	100	0	23.04	23.02	23.09	23.03	23.00				
20	16QAM	1	0	23.00	23.02	23.15	23.09	23.12	24.5	1		
20	16QAM	1	49	23.07	22.97	23.11	22.98	23.03				
20	16QAM	1	99	22.87	22.88	23.01	22.94	22.87				
20	16QAM	50	0	21.95	21.98	22.09	22.04	21.99	23.5	2		
20	16QAM	50	24	22.02	21.96	22.08	21.94	21.95				
20	16QAM	50	50	21.98	21.92	22.05	21.99	21.92				
20	16QAM	100	0	21.97	21.96	22.09	22.02	21.97	23.5	2		
20	84QAM	1	0	21.91	21.87	22.00	21.89	21.92				
20	84QAM	1	49	21.90	21.87	22.02	21.90	21.88				
20	84QAM	1	99	21.81	21.83	21.94	21.79	21.80	22.5	3		
20	84QAM	50	0	21.00	20.90	21.04	20.95	21.00				
20	84QAM	50	24	20.88	20.82	20.97	20.86	20.89				
20	84QAM	50	50	20.93	20.91	21.03	20.93	20.98	22.5	3		
20	84QAM	100	0	20.92	20.89	21.00	20.89	20.93				
Channel				39725	40173	40620	41068	41515				
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2692.5				
15	QPSK	1	0	23.81	23.87	24.03	23.95	23.94	25.5	0		
15	QPSK	1	37	23.73	23.82	23.87	23.83	23.79				
15	QPSK	1	74	23.69	23.75	23.79	23.72	23.70				
15	QPSK	36	0	22.92	22.94	23.00	22.83	22.89	24.5	1		
15	QPSK	36	20	22.82	22.84	23.02	22.84	22.94				
15	QPSK	36	39	22.88	22.91	22.97	22.90	22.85				
15	QPSK	75	0	22.94	22.97	22.95	22.96	22.94	24.5	1		
15	16QAM	1	0	22.89	22.98	23.06	22.95	23.08				
15	16QAM	1	37	23.03	22.90	23.06	22.86	22.90				
15	16QAM	1	74	22.81	22.83	22.90	22.89	22.83	23.5	2		
15	16QAM	36	0	21.86	21.94	22.01	21.92	21.93				
15	16QAM	36	20	21.97	21.90	21.97	21.85	21.86				
15	16QAM	36	39	21.88	21.85	21.94	21.92	21.77	23.5	2		
15	16QAM	75	0	21.82								

Band 7 Ant2 Default power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350	24.5	0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	23.32	23.48	23.37	23.5	1
20	QPSK	1	49	23.28	23.21	23.34		
20	QPSK	1	99	23.22	23.35	23.41		
20	QPSK	50	0	22.39	22.57	22.43	23.5	1
20	QPSK	50	24	22.36	22.38	22.44		
20	QPSK	50	50	22.25	22.32	22.38		
20	QPSK	100	0	22.27	22.54	22.40	23.5	1
20	16QAM	1	0	22.58	22.46	22.60		
20	16QAM	1	49	22.52	22.43	22.57		
20	16QAM	1	99	22.40	22.48	22.35	22.5	2
20	16QAM	50	0	21.52	21.56	21.45		
20	16QAM	50	24	21.36	21.58	21.35		
20	16QAM	50	50	21.36	21.38	21.43	22.5	2
20	16QAM	100	0	21.45	21.38	21.39		
20	64QAM	1	0	21.51	21.42	21.48		
20	64QAM	1	49	21.29	21.45	21.28	22.5	2
20	64QAM	1	99	21.32	21.33	21.38		
20	64QAM	50	0	20.59	20.76	20.63		
20	64QAM	50	24	20.43	20.55	20.51	21.5	3
20	64QAM	50	50	20.58	20.51	20.54		
20	64QAM	100	0	20.32	20.31	20.39		
Channel				20825	21100	21375	24.5	0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	23.24	23.45	23.29	23.5	1
15	QPSK	1	37	23.29	23.16	23.31		
15	QPSK	1	74	23.21	23.33	23.31		
15	QPSK	36	0	22.39	22.50	22.40	23.5	1
15	QPSK	36	20	22.32	22.29	22.40		
15	QPSK	36	39	22.22	22.27	22.34		
15	QPSK	75	0	22.25	22.51	22.38	23.5	1
15	16QAM	1	0	22.54	22.45	22.61		
15	16QAM	1	37	22.44	22.34	22.51		
15	16QAM	1	74	22.33	22.47	22.32	22.5	2
15	16QAM	36	0	21.46	21.51	21.46		
15	16QAM	36	20	21.34	21.54	21.33		
15	16QAM	36	39	21.37	21.38	21.44	22.5	2
15	16QAM	75	0	21.40	21.29	21.37		
15	64QAM	1	0	21.41	21.32	21.39		
15	64QAM	1	37	21.19	21.36	21.28	22.5	2
15	64QAM	1	74	21.23	21.24	21.40		
15	64QAM	36	0	20.61	20.66	20.56		
15	64QAM	36	20	20.40	20.47	20.46	21.5	3
15	64QAM	36	39	20.55	20.45	20.50		
15	64QAM	75	0	20.32	20.29	20.34		
Channel				20800	21100	21400	24.5	0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	23.26	23.40	23.32	23.5	1
10	QPSK	1	25	23.29	23.14	23.32		
10	QPSK	1	49	23.21	23.36	23.43		
10	QPSK	25	0	22.38	22.57	22.37	23.5	1
10	QPSK	25	12	22.36	22.29	22.42		
10	QPSK	25	25	22.24	22.30	22.32		
10	QPSK	50	0	22.19	22.54	22.31	23.5	1
10	16QAM	1	0	22.57	22.42	22.60		
10	16QAM	1	25	22.48	22.39	22.56		
10	16QAM	1	49	22.36	22.49	22.35	22.5	2
10	16QAM	25	0	21.50	21.52	21.46		
10	16QAM	25	12	21.35	21.55	21.32		
10	16QAM	25	25	21.35	21.29	21.44	22.5	2
10	16QAM	50	0	21.37	21.40	21.30		
10	64QAM	1	0	21.44	21.33	21.47		
10	64QAM	1	25	21.30	21.47	21.20	22.5	2
10	64QAM	1	49	21.31	21.33	21.32		
10	64QAM	25	0	20.54	20.75	20.65		
10	64QAM	25	12	20.36	20.50	20.48	21.5	3
10	64QAM	25	25	20.58	20.46	20.48		
10	64QAM	50	0	20.34	20.30	20.35		
Channel				20775	21100	21425	24.5	0
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	23.29	23.38	23.35	23.5	1
5	QPSK	1	12	23.29	23.22	23.26		
5	QPSK	1	24	23.19	23.35	23.42		
5	QPSK	12	0	22.31	22.55	22.36	23.5	1
5	QPSK	12	7	22.33	22.37	22.41		
5	QPSK	12	13	22.24	22.33	22.35		
5	QPSK	25	0	22.18	22.46	22.36	23.5	1
5	16QAM	1	0	22.55	22.45	22.54		
5	16QAM	1	12	22.45	22.34	22.54		
5	16QAM	1	24	22.32	22.43	22.33	22.5	2
5	16QAM	12	0	21.46	21.52	21.42		
5	16QAM	12	7	21.35	21.49	21.36		
5	16QAM	12	13	21.30	21.36	21.37	22.5	2
5	16QAM	25	0	21.41	21.33	21.30		
5	64QAM	1	0	21.51	21.42	21.47		
5	64QAM	1	12	21.22	21.43	21.26	21.5	3
5	64QAM	1	24	21.33	21.24	21.31		
5	64QAM	12	0	20.54	20.77	20.63		
5	64QAM	12	7	20.41	20.48	20.45	21.5	3
5	64QAM	12	13	20.57	20.43	20.46		
5	64QAM	25	0	20.33	20.29	20.38		



Band 38 Ant2 Default power										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	23.32	23.40	23.35	24.5	0		
20	QPSK	1	49	23.21	23.14	23.25				
20	QPSK	1	99	23.13	23.34	23.32				
20	QPSK	50	0	22.36	22.58	22.38	23.5	1		
20	QPSK	50	24	22.27	22.39	22.39				
20	QPSK	50	50	22.17	22.25	22.36				
20	QPSK	100	0	22.27	22.46	22.31	23.5	1		
20	16QAM	1	0	22.27	22.18	22.33				
20	16QAM	1	49	22.24	22.13	22.35				
20	16QAM	1	99	22.15	22.21	22.05	22.5	2		
20	16QAM	50	0	21.32	21.27	21.15				
20	16QAM	50	24	21.13	21.33	21.11				
20	16QAM	50	50	21.12	21.08	21.15	22.5	2		
20	16QAM	100	0	21.23	21.07	21.10				
20	84QAM	1	0	21.27	21.11	21.21				
20	84QAM	1	49	21.00	21.24	21.01	22.5	2		
20	84QAM	1	99	21.02	20.93	21.16				
20	84QAM	50	0	20.29	20.54	20.43				
20	84QAM	50	24	20.48	20.32	20.42	21.5	3		
20	84QAM	50	50	20.34	20.30	20.28				
20	84QAM	100	0	20.05	20.09	19.98				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	23.18	23.36	23.26	24.5	0		
15	QPSK	1	37	23.10	23.01	23.20				
15	QPSK	1	74	23.05	23.22	23.18				
15	QPSK	36	0	22.22	22.49	22.33	23.5	1		
15	QPSK	36	20	22.21	22.26	22.29				
15	QPSK	36	39	22.03	22.20	22.21				
15	QPSK	75	0	22.12	22.37	22.27	23.5	1		
15	16QAM	1	0	22.15	22.13	22.28				
15	16QAM	1	37	22.11	22.00	22.24				
15	16QAM	1	74	22.10	22.07	21.93	22.5	2		
15	16QAM	36	0	21.27	21.19	21.06				
15	16QAM	36	20	20.98	21.25	21.01				
15	16QAM	36	39	21.04	21.02	21.04	22.5	2		
15	16QAM	75	0	21.16	20.92	21.04				
15	84QAM	1	0	21.21	21.01	21.12				
15	84QAM	1	37	20.92	21.13	20.92	22.5	2		
15	84QAM	1	74	20.93	20.88	21.01				
15	84QAM	36	0	20.21	20.40	20.28				
15	84QAM	36	20	20.38	20.28	20.31	21.5	3		
15	84QAM	36	39	20.21	20.20	20.10				
15	84QAM	75	0	19.91	19.99	19.83				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	23.22	23.28	23.29	24.5	0		
10	QPSK	1	25	23.17	23.06	23.17				
10	QPSK	1	49	23.05	23.19	23.27				
10	QPSK	25	0	22.29	22.51	22.26	23.5	1		
10	QPSK	25	12	22.15	22.23	22.30				
10	QPSK	25	25	22.11	22.09	22.24				
10	QPSK	50	0	22.18	22.36	22.19	23.5	1		
10	16QAM	1	0	22.15	22.11	22.18				
10	16QAM	1	25	22.10	22.06	22.31				
10	16QAM	1	49	22.08	22.10	21.90	22.5	2		
10	16QAM	25	0	21.24	21.20	21.03				
10	16QAM	25	12	21.06	21.20	20.96				
10	16QAM	25	25	21.01	20.94	21.03	22.5	2		
10	16QAM	50	0	21.17	20.95	20.94				
10	84QAM	1	0	21.22	21.05	21.14				
10	84QAM	1	25	20.88	21.16	20.91	22.5	2		
10	84QAM	1	49	20.91	20.82	21.09				
10	84QAM	25	0	20.18	20.50	20.34				
10	84QAM	25	12	20.42	20.17	20.32	21.5	3		
10	84QAM	25	25	20.25	20.24	20.10				
10	84QAM	50	0	19.99	19.99	19.83				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	23.24	23.31	23.22	24.5	0		
5	QPSK	1	12	23.16	23.08	23.14				
5	QPSK	1	24	23.01	23.24	23.26				
5	QPSK	12	0	22.22	22.42	22.25	23.5	1		
5	QPSK	12	7	22.22	22.24	22.28				
5	QPSK	12	13	22.03	22.17	22.27				
5	QPSK	25	0	22.13	22.33	22.22	23.5	1		
5	16QAM	1	0	22.17	22.04	22.19				
5	16QAM	1	12	22.09	22.09	22.27				
5	16QAM	1	24	22.10	22.07	22.01	22.5	2		
5	16QAM	12	0	21.25	21.19	21.07				
5	16QAM	12	7	21.03	21.29	20.98				
5	16QAM	12	13	21.01	20.98	21.00	22.5	2		
5	16QAM	25	0	21.17	20.97	21.02				
5	84QAM	1	0	21.19	21.05	21.12				
5	84QAM	1	12	20.87	21.16	20.95	22.5	2		
5	84QAM	1	24	20.98	20.80	21.09				
5	84QAM	12	0	20.24	20.47	20.32				
5	84QAM	12	7	20.36	20.16	20.38	21.5	3		
5	84QAM	12	13	20.30	20.15	20.17				
5	84QAM	25	0	19.99	20.00	19.86				

Band 41 Ant2 Default power												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	23.86	23.85	23.96	23.69	23.89	25	0		
20	QPSK	1	49	23.68	23.67	23.75	23.71	23.74				
20	QPSK	1	99	23.73	23.64	23.66	23.81	23.67				
20	QPSK	50	0	22.87	22.88	22.93	22.81	22.86	24	1		
20	QPSK	50	24	22.78	22.76	22.86	22.80	22.92				
20	QPSK	50	50	22.77	22.76	22.85	22.66	22.78				
20	QPSK	100	0	22.79	22.84	22.91	22.78	22.81	24	1		
20	16QAM	1	0	23.03	22.97	23.09	22.96	22.96				
20	16QAM	1	49	22.84	22.94	23.06	22.84	22.85				
20	16QAM	1	99	22.76	22.74	22.76	22.79	22.75	23	2		
20	16QAM	50	0	21.87	21.84	22.00	21.93	21.85				
20	16QAM	50	24	21.86	21.75	21.81	21.78	21.78				
20	16QAM	50	50	21.77	21.72	21.85	21.71	21.81	23	2		
20	16QAM	100	0	21.81	21.81	21.83	21.81	21.78				
20	84QAM	1	0	21.70	21.73	21.78	21.78	21.62				
20	84QAM	1	49	21.74	21.69	21.79	21.74	21.73	23	2		
20	84QAM	1	99	21.70	21.73	21.74	21.64	21.66				
20	84QAM	50	0	20.83	20.78	20.99	20.78	20.76				
20	84QAM	50	24	20.70	20.71	20.77	20.68	20.71	22	3		
20	84QAM	50	50	20.75	20.78	20.81	20.66	20.76				
20	84QAM	100	0	20.80	20.77	20.81	20.73	20.82				
Channel				39725	40173	40620	41068	41515				
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2692.5				
15	QPSK	1	0	23.71	23.71	23.88	23.62	23.77	25.00	0		
15	QPSK	1	37	23.59	23.61	23.69	23.59	23.61				
15	QPSK	1	74	23.64	23.54	23.62	23.73	23.59				
15	QPSK	36	0	22.78	22.78	22.79	22.71	22.71	24	1		
15	QPSK	36	20	22.72	22.71	22.78	22.68	22.77				
15	QPSK	36	39	22.62	22.63	22.81	22.50	22.69				
15	QPSK	75	0	22.74	22.78	22.80	22.63	22.73	24	1		
15	16QAM	1	0	22.89	22.88	22.96	22.82	22.84				
15	16QAM	1	37	22.80	22.82	23.01	22.71	22.76				
15	16QAM	1	74	22.66	22.68	22.69	22.66	22.66	23	2		
15	16QAM	36	0	21.73	21.74	21.92	21.83	21.75				
15												



GSM850 Ant4 Default power

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	33.01	33.07	32.85	33.50	24.01	24.07	23.85	24.50
GPRS 1 Tx slot	33.11	33.12	33.09	33.50	24.11	24.12	24.09	24.50
GPRS 2 Tx slots	30.46	30.61	30.52	31.00	24.46	24.61	24.52	25.00
GPRS 3 Tx slots	29.23	29.26	29.19	29.50	24.97	25.00	24.93	25.24
GPRS 4 Tx slots	27.66	27.68	27.67	28.00	24.66	24.68	24.67	25.00
EDGE 1 Tx slot	27.79	27.82	27.73	28.50	18.79	18.82	18.73	19.50
EDGE 2 Tx slots	25.03	25.07	24.95	25.50	19.03	19.07	18.95	19.50
EDGE 3 Tx slots	23.11	23.04	22.85	24.00	18.85	18.78	18.59	19.74
EDGE 4 Tx slots	21.98	21.92	21.76	22.50	18.98	18.92	18.76	19.50

GSM1900 Ant4 Default power

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1852.2	1860	1869.8		1852.2	1860	1869.8	
GSM 1 Tx slot	29.54	29.74	29.59	30.50	20.54	20.74	20.58	21.50
GPRS 1 Tx slot	29.62	29.79	29.59	30.50	20.62	20.79	20.59	21.50
GPRS 2 Tx slots	26.04	26.22	26.03	27.50	20.04	20.22	20.03	21.50
GPRS 3 Tx slots	24.22	24.21	24.21	26.00	19.96	19.95	19.95	21.74
GPRS 4 Tx slots	23.21	23.25	23.24	24.50	20.21	20.25	20.24	21.50
EDGE 1 Tx slot	26.08	26.08	26.00	27.50	17.08	17.08	17.00	18.50
EDGE 2 Tx slots	23.09	23.14	23.14	24.50	17.09	17.14	17.14	18.50
EDGE 3 Tx slots	21.87	21.96	21.86	23.00	17.61	17.70	17.60	18.74
EDGE 4 Tx slots	20.61	20.69	20.53	21.50	17.61	17.69	17.53	18.50

WCDMA II Ant4 Default power

WCDMA IV Ant4 Default power

WCDMA V Ant4 Default power

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233		
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	23.98	24.06	24.02	25.00	23.78	23.81	23.77	25.00	24.08	24.22	24.15	25.50
3GPP Rel 99	RMC 12.2Kbps	24.06	24.12	24.08	25.00	23.86	23.87	23.84	25.00	24.28	24.31	24.29	25.50
3GPP Rel 6	HSDPA Subtest-1	23.13	23.02	22.99	24.00	22.90	22.83	22.70	24.00	23.24	23.48	23.33	24.50
3GPP Rel 6	HSDPA Subtest-2	22.94	22.86	22.98	24.00	22.86	22.84	22.83	24.00	23.24	23.18	23.47	24.50
3GPP Rel 6	HSDPA Subtest-3	22.66	22.53	22.57	23.50	22.39	22.20	22.38	23.50	22.80	22.90	22.89	24.00
3GPP Rel 6	HSDPA Subtest-4	22.80	22.75	22.60	23.50	22.17	22.28	22.20	23.50	22.80	22.68	22.80	24.00
3GPP Rel 8	DC-HSDPA Subtest-1	22.93	23.02	23.11	24.00	22.99	22.99	22.95	24.00	23.22	23.35	23.31	24.50
3GPP Rel 8	DC-HSDPA Subtest-2	22.94	23.08	23.24	24.00	22.89	22.89	22.86	24.00	23.32	23.21	23.35	24.50
3GPP Rel 8	DC-HSDPA Subtest-3	22.63	22.64	22.60	23.50	22.37	22.33	22.29	23.50	22.70	22.96	22.73	24.00
3GPP Rel 8	DC-HSDPA Subtest-4	22.47	22.76	22.70	23.50	22.36	22.24	22.39	23.50	22.77	22.98	22.84	24.00
3GPP Rel 6	HSUPA Subtest-1	22.88	23.21	22.97	24.00	22.93	22.74	22.74	24.00	23.26	23.24	23.35	24.50
3GPP Rel 6	HSUPA Subtest-2	20.96	21.11	21.20	22.00	20.80	20.86	20.93	22.00	21.18	21.25	21.31	22.50
3GPP Rel 6	HSUPA Subtest-3	21.93	22.12	21.93	23.00	21.80	21.89	21.87	23.00	22.31	22.32	22.27	23.50
3GPP Rel 6	HSUPA Subtest-4	21.13	21.21	21.15	22.00	20.88	20.90	20.72	22.00	21.35	21.43	21.34	22.50
3GPP Rel 6	HSUPA Subtest-5	23.00	23.13	23.06	24.00	22.68	23.01	22.89	24.00	23.12	23.29	23.43	24.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.45	20.52	20.55	21.50	20.36	20.38	20.35	21.50	20.87	20.87	20.90	22.00



Band 2 Ant4 Default power									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				18700	18900	19100			
Frequency (MHz)				1850	1850	1900			
20	QPSK	1	0	24.24	24.26	24.20			
20	QPSK	1	49	24.14	24.12	24.25	25	0	
20	QPSK	1	99	24.05	24.02	24.15			
20	QPSK	50	0	23.19	23.23	23.21			
20	QPSK	50	24	23.15	23.16	23.12	24	1	
20	QPSK	50	50	23.05	23.09	23.08			
20	QPSK	100	0	23.10	23.20	23.05			
20	16QAM	1	0	23.10	23.12	23.11			
20	16QAM	1	49	23.04	23.05	23.08	24	1	
20	16QAM	1	99	23.01	22.97	22.97			
20	16QAM	50	0	22.27	22.28	22.37			
20	16QAM	50	24	22.00	22.30	22.10	23	2	
20	16QAM	50	50	22.12	22.08	22.19			
20	16QAM	100	0	21.70	21.85	21.70			
20	64QAM	1	0	22.18	22.21	22.29			
20	64QAM	1	49	21.93	22.22	22.03	23	2	
20	64QAM	1	99	22.08	21.98	22.08			
20	64QAM	50	0	21.43	21.48	21.51			
20	64QAM	50	24	21.45	21.49	21.43	22	3	
20	64QAM	50	50	21.37	21.34	21.69			
20	64QAM	100	0	21.35	21.40	21.39			
Channel				18675	18900	19125			
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	0	24.17	24.11	24.07			
15	QPSK	1	37	24.08	24.04	24.14	25	0	
15	QPSK	1	74	23.94	23.95	24.00			
15	QPSK	36	0	23.09	23.12	23.16			
15	QPSK	36	20	23.01	23.10	23.06	24	1	
15	QPSK	36	39	22.91	22.98	22.94			
15	QPSK	75	0	22.98	23.12	22.92			
15	16QAM	1	0	22.98	22.98	23.00			
15	16QAM	1	37	22.94	22.96	23.02	24	1	
15	16QAM	1	74	22.88	22.89	22.82			
15	16QAM	36	0	22.18	22.14	22.25			
15	16QAM	36	20	21.85	22.20	21.85	23	2	
15	16QAM	36	39	22.00	22.00	22.08			
15	16QAM	75	0	21.58	21.74	21.63			
15	64QAM	1	0	22.07	22.08	22.18			
15	64QAM	1	37	21.86	22.10	21.90	23	2	
15	64QAM	1	74	21.99	21.84	21.96			
15	64QAM	36	0	21.38	21.36	21.40			
15	64QAM	36	20	21.38	21.39	21.30	22	3	
15	64QAM	36	39	21.28	21.28	21.56			
15	64QAM	75	0	21.30	21.36	21.35			
Channel				18650	18900	19150			
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	0	24.10	24.17	24.08			
10	QPSK	1	25	24.08	24.03	24.18	25	0	
10	QPSK	1	49	23.97	23.96	24.07			
10	QPSK	25	0	23.12	23.13	23.10			
10	QPSK	25	12	23.04	23.04	22.98	24	1	
10	QPSK	25	25	22.93	22.96	22.99			
10	QPSK	50	0	22.98	23.12	22.97			
10	16QAM	1	0	22.97	22.98	23.02			
10	16QAM	1	25	22.93	22.93	23.00	24	1	
10	16QAM	1	49	22.91	22.86	22.86			
10	16QAM	25	0	22.13	22.19	22.26			
10	16QAM	25	12	21.94	22.16	21.98	23	2	
10	16QAM	25	25	22.05	21.97	22.10			
10	16QAM	50	0	21.61	21.73	21.62			
10	64QAM	1	0	22.13	22.14	22.23			
10	64QAM	1	25	21.87	22.12	21.93	23	2	
10	64QAM	1	49	21.99	21.87	22.02			
10	64QAM	25	0	21.31	21.34	21.42			
10	64QAM	25	12	21.36	21.42	21.29	22	3	
10	64QAM	25	25	21.32	21.22	21.56			
10	64QAM	50	0	21.30	21.35	21.33			
Channel				18625	18900	19175			
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	0	24.12	24.11	24.06			
5	QPSK	1	12	24.08	23.98	24.14	25	0	
5	QPSK	1	24	23.95	23.90	24.03			
5	QPSK	12	0	23.10	23.14	23.18			
5	QPSK	12	7	23.01	23.05	22.97	24	1	
5	QPSK	12	13	22.98	23.02	22.94			
5	QPSK	25	0	23.00	23.06	23.00			
5	16QAM	1	0	23.01	22.98	23.01			
5	16QAM	1	12	22.95	22.93	23.00	24	1	
5	16QAM	1	24	22.94	22.82	22.87			
5	16QAM	12	0	22.13	22.18	22.27			
5	16QAM	12	7	21.90	22.24	21.98	23	2	
5	16QAM	12	13	22.03	22.00	22.07			
5	16QAM	25	0	21.63	21.78	21.84			
5	64QAM	1	0	22.10	22.12	22.19			
5	64QAM	1	12	21.88	22.10	21.92	23	2	
5	64QAM	1	24	22.00	21.86	22.01			
5	64QAM	12	0	21.37	21.40	21.45			
5	64QAM	12	7	21.32	21.43	21.36	22	3	
5	64QAM	12	13	21.25	21.29	21.55			
5	64QAM	25	0	21.30	21.34	21.35			
Channel				18615	18900	19185			
Frequency (MHz)				1851.5	1880	1908.5			
3	QPSK	1	0	24.18	24.13	24.14			
3	QPSK	1	8	24.06	24.02	24.14	25	0	
3	QPSK	1	14	23.92	23.91	24.01			
3	QPSK	8	0	23.13	23.16	23.18			
3	QPSK	8	4	23.06	23.02	23.06	24	1	
3	QPSK	8	7	22.99	22.96	23.02			
3	QPSK	15	0	23.01	23.12	22.92			
3	16QAM	1	0	23.03	22.99	23.03	24	1	
3	16QAM	1	8	22.96	22.98	22.94			
3	16QAM	1	14	22.95	22.87	22.85			
3	16QAM	8	0	22.16	22.17	22.27			
3	16QAM	8	4	21.93	22.19	22.04	23	2	
3	16QAM	8	7	21.98	21.94	22.07			
3	16QAM	15	0	21.64	21.75	21.64			
3	64QAM	1	0	22.07	22.14	22.15			
3	64QAM	1	8	21.87	22.12	21.95	23	2	
3	64QAM	1	14	22.00	21.92	21.94			
3	64QAM	8	0	21.37	21.39	21.36			
3	64QAM	8	4	21.34	21.38	21.28	22	3	
3	64QAM	8	7	21.29	21.23	21.54			
3	64QAM	15	0	21.31	21.34	21.34			
Channel				18607	18900	19193			
Frequency (MHz)				1850.7	1880	1909.3			
1.4	QPSK	1	0	24.14	24.17	24.13			
1.4	QPSK	1	3	24.05	23.98	24.17	25	0	
1.4	QPSK	1	5	23.98	23.92	24.07			
1.4	QPSK	3	0	24.13	24.07	24.13			
1.4	QPSK	3	1	24.06	24.11	23.99			
1.4	QPSK	3	3	23.96	24.03	23.94			
1.4	QPSK	6	0	23.05	23.13	22.98	24	1	
1.4	16QAM	1	0	22.97	22.98	23.04			
1.4	16QAM	1	3	22.94	22.98	22.94			
1.4	16QAM	1	5	22.92	22.91	22.85	24	1	
1.4	16QAM	3	0	23.17	23.13	23.32			
1.4	16QAM	3	1	22.93	23.16	22.97			
1.4	16QAM	3	3	22.98	22.98	23.11			
1.4	16QAM	6	0	21.61	21.79	21.61	23	2	
1.4	64QAM	1	0	22.04	22.08	22.20			
1.4	64QAM	1	3	21.85	22.09	21.97			
1.4	64QAM	1	5	22.02	21.87	21.99	23	2	
1.4	64QAM	3	0	22.34	22.42	22.43			
1.4	64QAM	3	1	22.34	22.41	22.35			
1.4	64QAM	3	3	22.26	22.29	22.56			
1.4	64QAM	6	0	21.30	21.35	21.34	22	3	

Band 4 Ant4 Default power									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2065					



Band 5 Ant4 Default power							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				20450	20525	20600	
Frequency (MHz)				20450	20525	20600	
10	QPSK	1	0	24.15	24.24	24.16	
10	QPSK	1	25	24.00	23.96	24.03	25.5
10	QPSK	1	49	23.92	23.79	23.97	
10	QPSK	25	0	22.98	23.13	23.10	
10	QPSK	25	12	22.96	22.96	22.98	
10	QPSK	25	25	22.86	22.95	22.89	24.5
10	QPSK	50	0	22.88	23.09	22.92	
10	16QAM	1	0	22.88	22.90	22.89	
10	16QAM	1	25	22.95	22.85	22.90	24.5
10	16QAM	1	49	22.80	22.83	22.75	
10	16QAM	25	0	22.08	22.13	22.21	
10	16QAM	25	12	21.86	22.13	21.95	
10	16QAM	25	25	21.97	21.87	22.04	23.5
10	16QAM	50	0	21.99	21.64	22.13	
10	64QAM	1	0	22.00	22.05	22.07	
10	64QAM	1	25	21.77	22.04	21.83	23.5
10	64QAM	1	49	21.92	21.81	21.90	
10	64QAM	25	0	21.21	21.07	21.37	
10	64QAM	25	12	21.30	21.34	21.29	22.5
10	64QAM	25	25	21.19	21.15	21.51	3
10	64QAM	50	0	20.83	20.84	20.70	
Channel				20425	20525	20625	
Frequency (MHz)				20425	20525	20625	
5	QPSK	1	0	23.96	24.11	24.00	
5	QPSK	1	12	23.84	23.79	23.93	25.5
5	QPSK	1	24	23.76	23.61	23.79	
5	QPSK	12	0	22.83	22.93	22.95	
5	QPSK	12	7	22.79	22.83	22.88	24.5
5	QPSK	12	13	22.70	22.76	22.76	
5	QPSK	25	0	22.74	22.93	22.79	
5	16QAM	1	0	22.77	22.77	22.78	
5	16QAM	1	12	22.71	22.66	22.72	24.5
5	16QAM	1	24	22.64	22.67	22.64	
5	16QAM	12	0	21.90	21.96	22.04	
5	16QAM	12	7	21.71	21.96	21.76	23.5
5	16QAM	12	13	21.81	21.74	21.89	2
5	16QAM	25	0	22.04	22.19	22.09	
5	64QAM	1	0	21.86	21.87	21.92	
5	64QAM	1	12	21.57	21.87	21.71	23.5
5	64QAM	1	24	21.80	21.64	21.74	
5	64QAM	12	0	21.02	20.88	21.27	
5	64QAM	12	7	21.12	21.17	21.16	22.5
5	64QAM	12	13	21.06	20.96	21.34	3
5	64QAM	25	0	20.64	20.73	20.61	
Channel				20415	20525	20635	
Frequency (MHz)				20415	20525	20635	
3	QPSK	1	0	23.96	24.07	23.99	
3	QPSK	1	8	23.88	23.82	23.89	25.5
3	QPSK	1	14	23.77	23.68	23.82	
3	QPSK	8	0	22.86	22.98	22.91	
3	QPSK	8	4	22.86	22.76	22.88	24.5
3	QPSK	8	7	22.70	22.84	22.73	
3	QPSK	15	0	22.68	22.85	22.76	
3	16QAM	1	0	22.68	22.70	22.70	24.5
3	16QAM	1	8	22.77	22.69	22.79	1
3	16QAM	1	14	22.61	22.69	22.59	
3	16QAM	8	0	21.87	22.01	22.11	
3	16QAM	8	4	21.73	21.95	21.80	23.5
3	16QAM	8	7	21.82	21.68	21.91	2
3	16QAM	15	0	22.06	22.23	22.09	
3	64QAM	1	0	21.86	21.90	21.93	23.5
3	64QAM	1	8	21.60	21.85	21.70	
3	64QAM	1	14	21.80	21.67	21.76	
3	64QAM	8	0	21.02	20.89	21.27	
3	64QAM	8	4	21.17	21.17	21.10	22.5
3	64QAM	8	7	21.06	21.02	21.39	3
3	64QAM	15	0	20.71	20.68	20.50	
Channel				20407	20525	20643	
Frequency (MHz)				20407	20525	20643	
1.4	QPSK	1	0	23.95	24.07	24.05	
1.4	QPSK	1	3	23.87	23.81	23.90	25.5
1.4	QPSK	1	5	23.80	23.62	23.83	
1.4	QPSK	3	0	23.78	23.96	23.95	
1.4	QPSK	3	1	23.77	23.84	23.86	24.5
1.4	QPSK	3	3	23.72	23.75	23.72	
1.4	QPSK	6	0	22.72	22.93	22.78	
1.4	16QAM	1	0	22.70	22.74	22.74	24.5
1.4	16QAM	1	3	22.71	22.69	22.78	
1.4	16QAM	1	5	22.67	22.67	22.58	24.5
1.4	16QAM	3	0	22.93	23.03	23.10	
1.4	16QAM	3	1	22.68	22.95	22.80	
1.4	16QAM	3	3	22.86	22.67	22.92	23.5
1.4	16QAM	6	0	22.00	22.21	22.04	2
1.4	64QAM	1	0	21.90	21.92	21.96	
1.4	64QAM	1	3	21.61	21.93	21.71	
1.4	64QAM	1	5	21.80	21.62	21.78	23.5
1.4	64QAM	3	0	22.10	21.90	22.24	
1.4	64QAM	3	1	22.13	22.17	22.16	
1.4	64QAM	3	3	22.08	22.02	22.40	22.5
1.4	64QAM	6	0	20.69	20.68	20.52	3

Band 7 Ant4 Default power							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				20850	21100	21350	
Frequency (MHz)				20850	21100	21350	
20	QPSK	1	0	23.79	23.85	23.83	
20	QPSK	1	49	23.74	23.72	23.70	25.5
20	QPSK	1	99	23.59	23.67	23.64	
20	QPSK	50	0	22.63	22.72	22.69	
20	QPSK	50	24	22.62	22.66	22.65	24.5
20	QPSK	50	50	22.59	22.62	22.61	
20	QPSK	100	0	22.61	22.66	22.65	
20	16QAM	1	0	22.86	22.90	22.87	
20	16QAM	1	49	22.79	22.86	22.84	24.5
20	16QAM	1	99	22.70	22.83	22.76	
20	16QAM	50	0	21.75	21.84	21.80	
20	16QAM	50	24	21.66	21.69	21.67	23.5
20	16QAM	50	50	21.69	21.75	21.64	2
20	16QAM	100	0	21.75	21.81	21.70	
20	64QAM	1	0	21.94	22.04	22.09	
20	64QAM	1	49	21.95	22.03	21.86	23.5
20	64QAM	1	99	21.83	21.94	21.81	
20	64QAM	50	0	20.90	20.99	20.86	
20	64QAM	50	24	20.77	20.76	20.70	22.5
20	64QAM	50	50	20.75	20.92	20.71	3
20	64QAM	100	0	20.88	20.94	20.77	
Channel				20825	21100	21375	
Frequency (MHz)				20825	21100	21375	
15	QPSK	1	0	23.80	23.81	23.78	
15	QPSK	1	37	23.66	23.71	23.67	25.5
15	QPSK	1	74	23.57	23.64	23.64	
15	QPSK	36	0	22.62	22.71	22.65	
15	QPSK	36	20	22.58	22.56	22.66	24.5
15	QPSK	36	39	22.58	22.63	22.54	1
15	QPSK	75	0	22.57	22.68	22.67	
15	16QAM	1	0	22.77	22.88	22.94	
15	16QAM	1	37	22.71	22.83	22.81	24.5
15	16QAM	1	74	22.66	22.76	22.75	
15	16QAM	36	0	21.70	21.75	21.77	
15	16QAM	36	20	21.62	21.61	21.61	23.5
15	16QAM	36	39	21.62	21.65	21.56	2
15	16QAM	75	0	21.67	21.78	21.64	
15	64QAM	1	0	21.89	21.97	22.08	
15	64QAM	1	37	21.89	21.95	21.85	23.5
15	64QAM	1	74	21.73	21.93	21.78	
15	64QAM	36	0	20.91	20.99	20.86	
15	64QAM	36	20	20.71	20.68	20.65	22.5
15	64QAM	36	39	20.71	20.85	20.61	3
15	64QAM	75	0	20.85	20.90	20.74	
Channel				20900	21100	21400	
Frequency (MHz)				20900	21100	21400	
10	QPSK	1	0	23.70	23.84	23.73	
10	QPSK	1	25	23.67	23.72	23.63	25.5
10	QPSK	1	49	23.52	23.65	23.57	
10	QPSK	25	0	22.54	22.65	22.60	
10	QPSK	25	12	22.56	22.61	22.66	24.5
10	QPSK	25	25	22.57	22.64	22.61	1
10	QPSK	50	0	22.52	22.67	22.61	
10	16QAM	1	0	22.85	22.85	22.83	24.5
10	16QAM	1	25	22.71	22.86	22.78	
10	16QAM	1	49	22.66	22.76	22.67	
10	16QAM	25	0	21.71	21.82	21.77	
10	16QAM	25	12	21.61	21.68	21.60	23.5
10	16QAM	25	25	21.62	21.74	21.58	2
10	16QAM	50	0	21.75	21.72	21.72	
10	64QAM	1	0	21.94	21.99	22.10	
10	64QAM	1	25	21.85	21.96	21.79	23.5
10	64QAM						



Band 38 Ant4 Default power										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	23.84	23.86	23.83	25.5	0		
20	QPSK	1	49	23.78	23.79	23.81				
20	QPSK	1	99	23.80	23.83	23.77				
20	QPSK	50	0	22.78	22.83	22.76	24.5	1		
20	QPSK	50	24	22.71	22.76	22.79				
20	QPSK	50	50	22.75	22.70	22.72				
20	QPSK	100	0	22.61	22.74	22.72	24.5	1		
20	16QAM	1	0	22.92	22.94	22.96				
20	16QAM	1	49	22.91	22.89	22.96				
20	16QAM	1	99	22.88	22.94	22.92	23.5	2		
20	16QAM	50	0	21.88	21.95	21.86				
20	16QAM	50	24	21.77	21.92	21.91				
20	16QAM	50	50	21.88	21.84	21.84	23.5	2		
20	16QAM	100	0	21.76	21.87	21.88				
20	84QAM	1	0	21.96	22.01	22.10				
20	84QAM	1	49	21.98	21.97	22.11	23.5	2		
20	84QAM	1	99	22.03	22.02	22.05				
20	84QAM	50	0	20.96	21.09	20.94				
20	84QAM	50	24	20.83	21.00	21.00	22.5	3		
20	84QAM	50	50	21.02	20.93	20.90				
20	84QAM	100	0	20.84	21.03	21.01				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	23.82	23.84	23.82	25.5	0		
15	QPSK	1	37	23.76	23.78	23.75				
15	QPSK	1	74	23.74	23.81	23.77				
15	QPSK	36	0	22.78	22.73	22.71	24.5	1		
15	QPSK	36	20	22.73	22.68	22.79				
15	QPSK	36	39	22.71	22.71	22.70				
15	QPSK	75	0	22.61	22.72	22.73	24.5	1		
15	16QAM	1	0	22.92	22.90	22.91				
15	16QAM	1	37	22.86	22.86	22.98				
15	16QAM	1	74	22.81	22.84	22.85	23.5	2		
15	16QAM	36	0	21.81	21.88	21.85				
15	16QAM	36	20	21.69	21.85	21.89				
15	16QAM	36	39	21.79	21.84	21.82	23.5	2		
15	16QAM	75	0	21.75	21.88	21.87				
15	84QAM	1	0	21.95	21.99	22.02				
15	84QAM	1	37	21.94	21.90	22.11	23.5	2		
15	84QAM	1	74	22.00	22.00	21.98				
15	84QAM	36	0	20.94	21.03	20.93				
15	84QAM	36	20	20.76	20.97	21.00	22.5	3		
15	84QAM	36	39	20.95	20.84	20.90				
15	84QAM	75	0	20.80	20.96	20.98				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	23.79	23.80	23.78	25.5	0		
10	QPSK	1	25	23.78	23.78	23.82				
10	QPSK	1	49	23.75	23.82	23.72				
10	QPSK	25	0	22.78	22.75	22.72	24.5	1		
10	QPSK	25	12	22.65	22.70	22.70				
10	QPSK	25	25	22.69	22.66	22.74				
10	QPSK	50	0	22.53	22.68	22.66	24.5	1		
10	16QAM	1	0	22.88	22.87	22.96				
10	16QAM	1	25	22.84	22.85	22.97				
10	16QAM	1	49	22.86	22.95	22.94	23.5	2		
10	16QAM	25	0	21.80	21.93	21.83				
10	16QAM	25	12	21.68	21.85	21.87				
10	16QAM	25	25	21.87	21.84	21.79	23.5	2		
10	16QAM	50	0	21.74	21.85	21.83				
10	84QAM	1	0	21.90	21.94	22.07				
10	84QAM	1	25	21.92	21.96	22.11	23.5	2		
10	84QAM	1	49	21.97	22.00	21.99				
10	84QAM	25	0	20.87	21.11	20.96				
10	84QAM	25	12	20.74	20.92	21.01	22.5	3		
10	84QAM	25	25	20.96	20.85	20.89				
10	84QAM	50	0	20.78	21.01	21.00				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	23.84	23.79	23.78	25.5	0		
5	QPSK	1	12	23.77	23.81	23.81				
5	QPSK	1	24	23.80	23.77	23.73				
5	QPSK	12	0	22.75	22.80	22.76	24.5	1		
5	QPSK	12	7	22.65	22.73	22.77				
5	QPSK	12	13	22.76	22.67	22.71				
5	QPSK	25	0	22.60	22.68	22.72	24.5	1		
5	16QAM	1	0	22.89	22.89	22.98				
5	16QAM	1	12	22.92	22.81	22.88				
5	16QAM	1	24	22.89	22.90	22.85	23.5	2		
5	16QAM	12	0	21.84	21.88	21.82				
5	16QAM	12	7	21.68	21.83	21.90				
5	16QAM	12	13	21.80	21.79	21.76	23.5	2		
5	16QAM	25	0	21.69	21.87	21.89				
5	84QAM	1	0	21.89	21.97	22.05				
5	84QAM	1	12	21.98	21.95	22.11	23.5	2		
5	84QAM	1	24	21.96	21.95	22.02				
5	84QAM	12	0	20.97	21.10	20.92				
5	84QAM	12	7	20.84	21.01	20.92	22.5	3		
5	84QAM	12	13	20.94	20.92	20.81				
5	84QAM	25	0	20.80	20.99	20.97				

Band 41 Ant4 Default power										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.86	23.87	23.96	23.73	23.88	25.5	0
20	QPSK	1	49	23.66	23.70	23.77	23.65	23.71		
20	QPSK	1	99	23.67	23.69	23.71	23.67	23.65		
20	QPSK	50	0	22.88	22.86	22.94	22.81	22.87	24.5	1
20	QPSK	50	24	22.80	22.76	22.90	22.84	22.86		
20	QPSK	50	50	22.79	22.72	22.83	22.69	22.78		
20	QPSK	100	0	22.79	22.87	22.91	22.76	22.77	24.5	1
20	16QAM	1	0	23.03	23.02	23.04	23.00	22.95		
20	16QAM	1	49	22.90	22.92	23.01	22.87	22.88		
20	16QAM	1	99	22.71	22.78	22.75	22.74	22.72	23.5	2
20	16QAM	50	0	21.92	21.89	21.98	21.90	21.84		
20	16QAM	50	24	21.80	21.77	21.84	21.72	21.81		
20	16QAM	50	50	21.74	21.69	21.83	21.69	21.76	23.5	2
20	16QAM	100	0	21.75	21.79	21.87	21.80	21.77		
20	84QAM	1	0	21.67	21.71	21.77	21.74	21.63		
20	84QAM	1	49	21.70	21.73	21.84	21.79	21.78	23.5	2
20	84QAM	1	99	21.69	21.68	21.74	21.67	21.66		
20	84QAM	50	0	20.80	20.79	20.94	20.80	20.82		
20	84QAM	50	24	20.67	20.73	20.79	20.71	20.65	22.5	3
20	84QAM	50	50	20.76	20.73	20.81	20.68	20.72		
20	84QAM	100	0	20.75	20.79	20.83	20.73	20.79		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2692.5		
15	QPSK	1	0	23.80	23.79	23.86	23.63	23.84	25.50	0
15	QPSK	1	37	23.61	23.57	23.69	23.60	23.57		
15	QPSK	1	74	23.62	23.64	23.63	23.59	23.53		
15	QPSK	36	0	22.85	22.77	22.82	22.73	22.83	24.5	1
15	QPSK	36	20	22.67	22.61	22.79	22.73	22.74		
15	QPSK	36	39	22.70	22.63	22.70	22.58	22.75		
15	QPSK	75	0	22.67	22.74	22.86	22.62	22.71	24.5	1
15	16QAM	1	0	22.90	22.92	22.95	22.86	22.89		
15	16QAM	1	37	22.77	22.85	22.90	22.82	22.79		
15	16QAM	1	74	22.66	22.56	22.72	22.66	22.68	23.5	2
15	16QAM	36	0	21.78	21.81	21.84	21.77	21.77		
15	16QAM	36	20	21.71	21.68	21.70	21.60	21.74		
15	16QAM	36	39	21.63	21.56	21.77	21.65	21.67	23.5	2
15	16QAM	75	0	21.69	21.67	21.80	21.73	21.68		
15	84QAM	1	0	21.54	21.61	21.64	21.64	21.60		
15	84QAM	1	37	21.56	21.63	21.71	21.68	21.68	23.5	2
15	84QAM	1	74	21.59	21.54	21.67	21.56	21.61		
15	84QAM	36	0	20.68	20.72	20.90	20.73	20.78		



Reduced power level for WWAN—DSI 1

GSM850 Ant1 Default power

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8		
GSM 1 Tx slot	32.60	32.76	32.75	33.50	23.60	23.76	23.75	24.50
GPRS 1 Tx slot	32.69	32.78	32.69	33.50	23.69	23.78	23.69	24.50
GPRS 2 Tx slots	30.09	30.29	30.29	31.00	24.09	24.29	24.29	25.00
GPRS 3 Tx slots	29.10	29.22	29.03	29.50	24.84	24.96	24.77	25.24
GPRS 4 Tx slots	27.05	27.14	27.03	28.00	24.05	24.14	24.03	25.00
EDGE 1 Tx slot	27.03	27.18	27.01	28.50	18.03	18.18	18.01	19.50
EDGE 2 Tx slots	24.22	24.41	24.43	25.50	18.22	18.41	18.43	19.50
EDGE 3 Tx slots	22.15	22.38	22.27	24.00	17.89	18.10	18.01	18.74
EDGE 4 Tx slots	21.08	21.15	20.94	22.50	16.08	16.15	17.94	19.50

GSM1900 Ant1 Default power

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8		
GSM 1 Tx slot	29.81	29.87	29.76	30.50	20.81	20.87	20.76	21.50
GPRS 1 Tx slot	29.83	29.89	29.84	30.50	20.83	20.89	20.84	21.50
GPRS 2 Tx slots	26.24	26.28	26.15	27.50	20.24	20.28	20.15	21.50
GPRS 3 Tx slots	24.16	24.23	24.21	26.00	19.90	20.07	19.95	21.74
GPRS 4 Tx slots	23.07	23.25	23.26	24.50	20.07	20.25	20.26	21.50
EDGE 1 Tx slot	26.34	26.48	26.47	27.50	17.34	17.48	17.47	18.50
EDGE 2 Tx slots	23.21	23.20	23.05	24.50	17.21	17.20	17.05	18.50
EDGE 3 Tx slots	22.18	22.18	22.10	23.00	17.92	17.92	17.84	18.74
EDGE 4 Tx slots	20.86	21.02	20.89	21.50	17.86	18.02	17.89	18.50

WCDMA # Ant1 Default power

WCDMA IV Ant1 Default power

WCDMA V Ant1 Default power

Band	WCDMA #			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel	9662	9800	9938	1537	1638	1738	4357	4407	4458			
Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6			
3GPP Rel 99 AMR 12.2Kbps	23.56	23.63	23.59	25.00	23.44	23.49	23.47	25.00	23.91	23.96	23.88	25.50
3GPP Rel 99 RMC 12.2Kbps	23.57	23.64	23.61	25.00	23.51	23.54	23.53	25.00	23.93	23.98	23.89	25.50
3GPP Rel 6 HSDPA Subtest-1	22.37	22.53	22.65	24.00	22.69	22.63	22.60	24.00	22.84	22.95	22.99	24.50
3GPP Rel 6 HSDPA Subtest-2	22.64	22.44	22.39	24.00	22.77	22.78	22.48	24.00	22.78	23.02	23.08	24.50
3GPP Rel 6 HSDPA Subtest-3	22.07	22.24	22.04	23.50	22.11	22.06	22.18	23.50	22.52	22.30	22.35	24.00
3GPP Rel 6 HSDPA Subtest-4	22.02	22.13	21.87	23.50	22.24	22.19	22.16	23.50	22.14	22.38	22.40	24.00
3GPP Rel 8 DC-HSDPA Subtest-1	22.71	22.58	22.60	24.00	22.76	22.55	22.73	24.00	23.10	22.92	23.11	24.50
3GPP Rel 8 DC-HSDPA Subtest-2	22.41	22.70	22.42	24.00	22.70	22.65	22.72	24.00	23.07	23.09	23.13	24.50
3GPP Rel 8 DC-HSDPA Subtest-3	22.29	22.27	22.18	23.50	22.27	22.15	22.07	23.50	22.58	22.36	22.16	24.00
3GPP Rel 8 DC-HSDPA Subtest-4	21.91	22.26	22.04	23.50	22.39	22.18	21.98	23.50	22.25	22.57	22.31	24.00
3GPP Rel 6 HSUPA Subtest-1	22.48	22.63	22.68	24.00	22.59	22.70	22.74	24.00	22.99	22.91	23.15	24.50
3GPP Rel 6 HSUPA Subtest-2	20.74	20.59	20.54	22.00	20.73	20.62	20.57	22.00	20.95	20.98	21.06	22.50
3GPP Rel 6 HSUPA Subtest-3	21.55	21.92	21.46	23.00	21.85	21.50	21.64	23.00	22.01	21.95	21.61	23.50
3GPP Rel 6 HSUPA Subtest-4	20.41	20.57	20.24	22.00	20.78	20.81	20.78	22.00	20.72	20.85	20.89	22.50
3GPP Rel 6 HSUPA Subtest-5	22.52	22.78	22.74	24.00	22.63	22.70	22.56	24.00	22.78	22.95	23.12	24.50
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	19.86	19.98	20.00	21.50	20.03	20.07	20.17	21.50	20.29	20.33	20.24	22.00



Band 2 Ant1 Default power										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				18700	18900	19100				
Frequency (MHz)				18700	18900	19100				
20	QPSK	1	0	23.69	23.73	23.60				
20	QPSK	1	49	23.63	23.56	23.63		25		0
20	QPSK	1	99	23.47	23.51	23.56				
20	QPSK	50	0	22.55	22.67	22.53				
20	QPSK	50	24	22.39	22.45	22.47		24		1
20	QPSK	50	50	22.53	22.49	22.58				
20	QPSK	100	0	22.29	22.53	22.50				
20	16QAM	1	0	22.43	22.40	22.30				
20	16QAM	1	49	22.35	22.39	22.37		24		1
20	16QAM	1	99	22.24	22.22	22.28				
20	16QAM	50	0	21.47	21.57	21.53				
20	16QAM	50	24	21.51	21.56	21.58				
20	16QAM	50	50	21.42	21.33	21.41		23		2
20	16QAM	100	0	21.56	21.38	21.39				
20	64QAM	1	0	21.41	21.44	21.35				
20	64QAM	1	49	21.55	21.43	21.47		23		2
20	64QAM	1	99	21.48	21.49	21.50				
20	64QAM	50	0	20.51	20.48	20.55				
20	64QAM	50	24	20.56	20.63	20.53				
20	64QAM	50	50	20.41	20.53	20.55		22		3
20	64QAM	100	0	20.53	20.57	20.50				
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				18675.5	18900	1902.5				
15	QPSK	1	0	23.62	23.60	23.45				
15	QPSK	1	37	23.57	23.52	23.49		25		0
15	QPSK	1	74	23.36	23.40	23.44				
15	QPSK	36	0	22.30	22.64	22.47				
15	QPSK	36	20	22.30	22.32	22.44		24		1
15	QPSK	36	39	22.46	22.43	22.53				
15	QPSK	75	0	22.16	22.45	22.36				
15	16QAM	1	0	22.31	22.33	22.20				
15	16QAM	1	37	22.27	22.25	22.28		24		1
15	16QAM	1	74	22.12	22.19	22.22				
15	16QAM	36	0	21.38	21.49	21.46				
15	16QAM	36	20	21.39	21.52	21.48		23		2
15	16QAM	36	39	21.31	21.27	21.37				
15	16QAM	75	0	21.53	21.31	21.24				
15	64QAM	1	0	21.29	21.34	21.28				
15	64QAM	1	37	21.41	21.37	21.40		23		2
15	64QAM	1	74	21.44	21.45	21.42				
15	64QAM	36	0	20.43	20.40	20.53				
15	64QAM	36	20	20.53	20.60	20.49		22		3
15	64QAM	36	39	20.34	20.46	20.50				
15	64QAM	75	0	20.50	20.49	20.38				
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				18650	18900	19150				
10	QPSK	1	0	23.58	23.62	23.51				
10	QPSK	1	25	23.54	23.44	23.53		25		0
10	QPSK	1	49	23.41	23.39	23.52				
10	QPSK	25	0	22.51	22.58	22.40				
10	QPSK	25	12	22.29	22.32	22.38		24		1
10	QPSK	25	25	22.39	22.45	22.48				
10	QPSK	50	0	22.22	22.42	22.43				
10	16QAM	1	0	22.33	22.37	22.21				
10	16QAM	1	25	22.29	22.33	22.34		24		1
10	16QAM	1	49	22.14	22.09	22.23				
10	16QAM	25	0	21.36	21.45	21.42				
10	16QAM	25	12	21.46	21.49	21.54		23		2
10	16QAM	25	25	21.33	21.26	21.29				
10	16QAM	50	0	21.45	21.31	21.35				
10	64QAM	1	0	21.29	21.36	21.23		23		2
10	64QAM	1	25	21.40	21.37	21.40				
10	64QAM	1	49	21.44	21.46	21.41				
10	64QAM	25	0	20.37	20.44	20.61				
10	64QAM	25	12	20.45	20.56	20.50		22		3
10	64QAM	25	25	20.32	20.41	20.45				
10	64QAM	50	0	20.48	20.45	20.44				
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				18625.5	18900	1907.5				
5	QPSK	1	0	23.64	23.64	23.47				
5	QPSK	1	12	23.30	23.53	23.56		25		0
5	QPSK	1	24	23.41	23.44	23.46				
5	QPSK	12	0	22.45	22.60	22.47				
5	QPSK	12	7	22.31	22.35	22.35		24		1
5	QPSK	12	13	22.48	22.41	22.54				
5	QPSK	25	0	22.24	22.48	22.36				
5	16QAM	1	0	22.32	22.33	22.21				
5	16QAM	1	12	22.23	22.32	22.29		24		1
5	16QAM	1	24	22.17	22.14	22.18				
5	16QAM	12	0	21.36	21.43	21.38				
5	16QAM	12	7	21.38	21.53	21.50		23		2
5	16QAM	12	13	21.36	21.27	21.31				
5	16QAM	25	0	21.52	21.28	21.30				
5	64QAM	1	0	21.26	21.34	21.31				
5	64QAM	1	12	21.45	21.34	21.37		23		2
5	64QAM	1	24	21.34	21.42	21.44				
5	64QAM	12	0	20.40	20.35	20.50				
5	64QAM	12	7	20.43	20.50	20.42		22		3
5	64QAM	12	13	20.28	20.41	20.46				
5	64QAM	25	0	20.40	20.53	20.46				
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				18615.5	18900	1908.5				
3	QPSK	1	0	23.65	23.62	23.47				
3	QPSK	1	8	23.51	23.45	23.58		25		0
3	QPSK	1	14	23.44	23.42	23.42				
3	QPSK	8	0	22.45	22.58	22.44				
3	QPSK	8	4	22.36	22.41	22.33		24		1
3	QPSK	8	7	22.45	22.36	22.44				
3	QPSK	15	0	22.24	22.46	22.37				
3	16QAM	1	0	22.35	22.31	22.16				
3	16QAM	1	8	22.32	22.27	22.30		24		1
3	16QAM	1	14	22.17	22.08	22.20				
3	16QAM	8	0	21.43	21.43	21.47				
3	16QAM	8	4	21.47	21.49	21.54		23		2
3	16QAM	8	7	21.28	21.29	21.37				
3	16QAM	15	0	21.45	21.30	21.24				
3	64QAM	1	0	21.32	21.39	21.22				
3	64QAM	1	8	21.47	21.29	21.41		23		2
3	64QAM	1	14	21.39	21.37	21.46				
3	64QAM	8	0	20.38	20.41	20.53				
3	64QAM	8	4	20.43	20.49	20.39		22		3
3	64QAM	8	7	20.30	20.49	20.46				
3	64QAM	15	0	20.39	20.46	20.50				
Channel				18597	18900	19163	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				18597.7	18900	1909.3				
1.4	QPSK	1	0	23.65	23.59	23.55				
1.4	QPSK	1	3	23.52	23.46	23.51		25		0
1.4	QPSK	1	5	23.43	23.39	23.43				
1.4	QPSK	3	0	23.48	23.64	23.44				
1.4	QPSK	3	1	23.27	23.33	23.36				
1.4	QPSK	3	3	23.44	23.43	23.51		24		1
1.4	16QAM	1	0	22.32	22.27	22.17				
1.4	16QAM	1	3	22.21	22.36	22.26				
1.4	16QAM	1	5	22.12	22.11	22.18		24		1
1.4	16QAM	3	0	22.40	22.51	22.42				
1.4	16QAM	3	1	22.45	22.44	22.50				
1.4	16QAM	3	3	22.33	22.22	22.29		23		2
1.4	16QAM	6	0	21.42	21.35	21.32				
1.4	64QAM	1	0	21.30	21.39	21.26				
1.4	64QAM	1	3	21.44	21.32	21.34				
1.4	64QAM	1	5	21.36	21.36	21.45		23		2
1.4	64QAM	3	0	21.38	21.35	21.53				
1.4	64QAM	3	1	21.49	21.49	21.49				
1.4	64QAM	3	3	21.29	21.43	21.52				
1.4	64QAM	6	0	20.50	20.53	20.43		22		3

Band 4 Ant1 Default power										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				20650	20175	20300				
Frequency (MHz)				20650	20175	20300				
20	QPSK	1	0	23.54	23.55	23.43				
20	QPSK	1	49	23.48	23.40	23.49		25		0
20	QPSK	1	99	23.33	23.37	23.34				
20	QPSK	50	0	22.37	22.52	22.39				
20	QPSK	50	24	22.27	22.24	22.33		24		1
20	QPSK	50	50	22.39	22.33	22.37				
20	QPSK	100	0	22.11	22.40	22.32				
20	16QAM	1	0	22.50	22.51	22.44				
20	16QAM	1	49	22.07	22.36	22.48		24		1
20	16QAM	1	99	22.36	22.39	22.31				
20	16QAM	50	0	21.36						



Band 5 Ant1 Default power							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)				20450	20525	20600	
10	QPSK	1	0	23.95	23.99	23.81	
10	QPSK	1	25	23.96	23.82	23.94	25.5
10	QPSK	1	49	23.71	23.80	23.74	
10	QPSK	25	0	22.84	22.96	22.85	
10	QPSK	25	12	22.72	22.69	22.81	
10	QPSK	25	25	22.79	22.76	22.85	
10	QPSK	50	0	22.76	22.83	22.73	
10	16QAM	1	0	22.98	23.07	22.86	
10	16QAM	1	25	23.04	22.82	22.98	
10	16QAM	1	49	22.80	22.82	22.84	
10	16QAM	25	0	21.94	22.02	21.89	
10	16QAM	25	12	21.81	21.76	21.86	
10	16QAM	25	25	21.87	21.79	21.91	
10	16QAM	50	0	21.82	21.84	21.76	
10	64QAM	1	0	22.07	22.12	21.86	
10	64QAM	1	25	22.07	22.04	22.04	
10	64QAM	1	49	21.85	21.86	21.93	
10	64QAM	25	0	20.85	21.07	20.95	
10	64QAM	25	12	20.81	20.87	20.90	
10	64QAM	25	25	20.96	20.87	21.01	
10	64QAM	50	0	20.85	20.91	20.82	
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.89	23.93	23.73	
5	QPSK	1	12	23.88	23.82	23.86	25.5
5	QPSK	1	24	23.68	23.71	23.76	
5	QPSK	12	0	22.83	22.88	22.79	
5	QPSK	12	7	22.63	22.64	22.73	
5	QPSK	12	13	22.78	22.67	22.81	
5	QPSK	25	0	22.74	22.81	22.73	
5	16QAM	1	0	22.97	23.09	22.84	
5	16QAM	1	12	22.96	22.84	22.90	
5	16QAM	1	24	22.79	22.81	22.78	
5	16QAM	12	0	21.89	22.04	21.81	
5	16QAM	12	7	21.79	21.72	21.82	
5	16QAM	12	13	21.86	21.75	21.84	
5	16QAM	25	0	21.82	21.83	21.69	
5	64QAM	1	0	22.04	22.09	21.81	
5	64QAM	1	12	21.97	21.86	22.00	
5	64QAM	1	24	21.80	21.88	21.83	
5	64QAM	12	0	20.87	21.03	20.89	
5	64QAM	12	7	20.75	20.83	20.80	
5	64QAM	12	13	20.96	20.88	20.93	
5	64QAM	25	0	20.81	20.92	20.84	
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.87	23.96	23.79	
3	QPSK	1	8	23.92	23.78	23.88	25.5
3	QPSK	1	14	23.62	23.74	23.70	
3	QPSK	8	0	22.77	22.91	22.78	
3	QPSK	8	4	22.69	22.60	22.73	
3	QPSK	8	7	22.78	22.74	22.78	
3	QPSK	15	0	22.67	22.73	22.70	
3	16QAM	1	0	22.92	23.00	22.86	
3	16QAM	1	8	23.01	22.85	22.94	
3	16QAM	1	14	22.70	22.83	22.86	
3	16QAM	8	0	21.96	21.93	21.83	
3	16QAM	8	4	21.78	21.75	21.82	
3	16QAM	8	7	21.82	21.75	21.91	
3	16QAM	15	0	21.82	21.79	21.76	
3	64QAM	1	0	22.09	22.02	21.88	
3	64QAM	1	8	22.03	21.86	22.05	
3	64QAM	1	14	21.86	21.87	21.89	
3	64QAM	8	0	20.92	21.05	20.86	
3	64QAM	8	4	20.80	20.86	20.82	
3	64QAM	8	7	20.89	20.86	20.91	
3	64QAM	15	0	20.78	20.82	20.80	
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.86	23.95	23.72	
1.4	QPSK	1	3	23.87	23.80	23.85	25.5
1.4	QPSK	1	5	23.64	23.74	23.65	
1.4	QPSK	3	0	23.82	23.94	23.83	
1.4	QPSK	3	1	23.64	23.61	23.81	
1.4	QPSK	3	3	23.73	23.74	23.78	
1.4	QPSK	6	0	22.71	22.83	22.87	
1.4	16QAM	1	0	22.90	23.04	22.87	
1.4	16QAM	1	3	23.01	22.94	23.00	
1.4	16QAM	1	5	22.70	22.73	22.78	
1.4	16QAM	3	0	22.95	22.98	22.86	
1.4	16QAM	3	1	22.80	22.67	22.90	
1.4	16QAM	3	3	22.85	22.75	22.88	
1.4	16QAM	6	0	21.80	21.76	21.72	
1.4	64QAM	1	0	22.03	22.13	21.82	
1.4	64QAM	1	3	22.00	21.97	22.03	
1.4	64QAM	1	5	21.84	21.84	21.88	
1.4	64QAM	3	0	21.92	22.05	21.88	
1.4	64QAM	3	1	21.74	21.87	21.91	
1.4	64QAM	3	3	21.92	21.78	21.99	
1.4	64QAM	6	0	20.77	20.82	20.75	

Band 7 Ant1 Default power							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)				20850	21100	21500	
20	QPSK	1	0	24.04	24.08	24.01	
20	QPSK	1	49	24.03	23.99	24.05	25.5
20	QPSK	1	99	23.88	23.93	23.85	
20	QPSK	50	0	22.97	23.07	22.95	
20	QPSK	50	24	22.79	22.75	22.85	
20	QPSK	50	50	22.91	22.91	22.88	
20	QPSK	100	0	22.67	22.80	22.82	
20	16QAM	1	0	22.89	22.68	22.70	
20	16QAM	1	49	22.87	22.75	22.83	
20	16QAM	1	99	22.53	22.67	22.86	
20	16QAM	50	0	21.83	22.04	22.05	
20	16QAM	50	24	21.96	21.89	22.03	
20	16QAM	50	50	21.86	21.65	21.79	
20	16QAM	100	0	21.82	21.55	21.59	
20	64QAM	1	0	21.79	21.86	21.82	
20	64QAM	1	49	21.86	21.73	21.93	
20	64QAM	1	99	21.84	21.86	21.84	
20	64QAM	50	0	20.90	20.91	21.14	
20	64QAM	50	24	20.91	21.01	20.90	
20	64QAM	50	50	20.87	20.85	21.14	
20	64QAM	100	0	20.88	20.88	20.86	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.87	23.88	23.82	
15	QPSK	1	37	23.87	23.81	23.86	25.5
15	QPSK	1	74	23.71	23.77	23.69	
15	QPSK	36	0	22.82	22.91	22.82	
15	QPSK	36	20	22.62	22.60	22.68	
15	QPSK	36	39	22.80	22.79	22.72	
15	QPSK	75	0	22.51	22.72	22.72	
15	16QAM	1	0	22.70	22.87	22.52	
15	16QAM	1	37	22.53	22.61	22.73	
15	16QAM	1	74	22.92	22.58	22.86	
15	16QAM	36	0	21.88	21.91	21.85	
15	16QAM	36	20	21.78	21.75	21.87	
15	16QAM	36	39	21.75	21.54	21.69	
15	16QAM	75	0	21.72	21.94	21.98	
15	64QAM	1	0	21.68	21.66	21.67	
15	64QAM	1	37	21.74	21.54	21.79	
15	64QAM	1	74	21.65	21.76	21.73	
15	64QAM	36	0	20.72	20.80	20.88	
15	64QAM	36	20	20.70	20.82	20.78	
15	64QAM	36	39	20.70	20.99	20.96	
15	64QAM	75	0	20.75	20.70	20.66	
Channel				20900	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	23.85	23.99	23.88	
10	QPSK	1	25	23.83	23.84	23.85	25.5
10	QPSK	1	49	23.74	23.77	23.64	
10	QPSK	25	0	22.85	22.92	22.78	
10	QPSK	25	12	22.66	22.66	22.66	
10	QPSK	25	25	22.73	22.74	22.67	
10	QPSK	50	0	22.99	22.74	22.79	
10	16QAM	1	0	22.72	22.57	22.58	
10	16QAM	1	25	22.55	22.57	22.72	
10	16QAM	1	49	22.99	22.56	22.86	
10	16QAM	25	0	21.66	21.83	21.95	
10	16QAM	25	12	21.78	21.80	21.83	
10	16QAM	25	25	21.68	21.54	21.59	
10	16QAM	50	0	21.76	21.86	21.89	
10	64QAM	1	0	21.87	21.75	21.69	
10	64QAM	1	25	21.67	21.64	21.82	
10	64QAM	1	49	21.69	21.69	21.72	
10	64QAM	25	0	20.73	20.71	21.01	
10	64QAM	25	12	20.81	20.86	20.71	
10	64QAM	25	25	20.71	20.56	20.94	



Band 38 Ant1 Default power											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				37850	38000	38150					
Frequency (MHz)				2580	2595	2610					
20	QPSK	1	0	24.01	24.05	24.03	25.5	0			
20	QPSK	1	49	23.94	23.88	23.93					
20	QPSK	1	99	23.90	23.95	23.88					
20	QPSK	50	0	22.88	23.02	22.84	24.5	1			
20	QPSK	50	24	22.80	22.87	22.90					
20	QPSK	50	50	22.99	22.90	22.70					
20	QPSK	100	0	22.70	22.96	22.92	24.5	1			
20	16QAM	1	0	22.80	22.83	22.74					
20	16QAM	1	49	22.76	22.84	22.86					
20	16QAM	1	99	22.84	22.78	22.82	23.5	2			
20	16QAM	50	0	21.76	21.95	21.94					
20	16QAM	50	24	21.70	21.89	21.78					
20	16QAM	50	50	21.64	21.52	21.74	23.5	2			
20	16QAM	100	0	21.70	21.67	21.56					
20	84QAM	1	0	21.75	21.64	21.69					
20	84QAM	1	49	21.56	21.65	21.58	23.5	2			
20	84QAM	1	99	21.67	21.70	21.65					
20	84QAM	50	0	20.85	20.89	20.95					
20	84QAM	50	24	21.01	21.04	20.98	22.5	3			
20	84QAM	50	50	20.92	20.76	21.18					
20	84QAM	100	0	20.96	21.01	20.78					
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2577.5	2595	2612.5					
15	QPSK	1	0	23.89	23.93	23.92	25.5	0			
15	QPSK	1	37	23.89	23.76	23.80					
15	QPSK	1	74	23.83	23.82	23.79					
15	QPSK	36	0	22.82	22.92	22.71	24.5	1			
15	QPSK	36	20	22.70	22.79	22.79					
15	QPSK	36	39	22.87	22.85	22.95					
15	QPSK	75	0	22.58	22.80	22.87	24.5	1			
15	16QAM	1	0	22.67	22.72	22.65					
15	16QAM	1	37	22.67	22.78	22.74					
15	16QAM	1	74	22.70	22.66	22.70	23.5	2			
15	16QAM	36	0	21.61	21.88	21.80					
15	16QAM	36	20	21.63	21.80	21.72					
15	16QAM	36	39	21.51	21.54	21.63	23.5	2			
15	16QAM	75	0	21.61	21.54	21.50					
15	84QAM	1	0	21.62	21.59	21.58					
15	84QAM	1	37	21.55	21.51	21.59	23.5	2			
15	84QAM	1	74	21.62	21.64	21.53					
15	84QAM	36	0	20.72	20.80	20.81					
15	84QAM	36	20	20.95	20.91	20.85	22.5	3			
15	84QAM	36	39	20.84	20.66	21.05					
15	84QAM	75	0	20.89	20.96	20.63					
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2575	2595	2615					
10	QPSK	1	0	23.95	24.00	23.96	25.5	0			
10	QPSK	1	25	23.89	23.77	23.81					
10	QPSK	1	49	23.80	23.81	23.78					
10	QPSK	25	0	22.81	22.85	22.73	24.5	1			
10	QPSK	25	12	22.74	22.74	22.85					
10	QPSK	25	25	22.85	22.82	22.92					
10	QPSK	50	0	22.62	22.86	22.85	24.5	1			
10	16QAM	1	0	22.71	22.76	22.64					
10	16QAM	1	25	22.70	22.78	22.76					
10	16QAM	1	49	22.78	22.64	22.75	23.5	2			
10	16QAM	25	0	21.67	21.89	21.85					
10	16QAM	25	12	21.59	21.79	21.67					
10	16QAM	25	25	21.57	21.52	21.59	23.5	2			
10	16QAM	50	0	21.56	21.62	21.82					
10	84QAM	1	0	21.67	21.89	21.56					
10	84QAM	1	25	21.84	21.53	21.50	23.5	2			
10	84QAM	1	49	21.59	21.57	21.57					
10	84QAM	25	0	20.78	20.83	20.90					
10	84QAM	25	12	20.89	20.89	20.87	22.5	3			
10	84QAM	25	25	20.82	20.62	21.06					
10	84QAM	50	0	20.86	20.93	20.68					
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2572.5	2595	2617.5					
5	QPSK	1	0	23.92	23.90	23.91	25.5	0			
5	QPSK	1	12	23.85	23.75	23.80					
5	QPSK	1	24	23.79	23.87	23.79					
5	QPSK	12	0	22.74	22.85	22.75	24.5	1			
5	QPSK	12	7	22.73	22.74	22.84					
5	QPSK	12	13	22.90	22.82	22.97					
5	QPSK	25	0	22.59	22.80	22.87	24.5	1			
5	16QAM	1	0	22.73	22.76	22.63					
5	16QAM	1	12	22.63	22.75	22.77					
5	16QAM	1	24	22.71	22.66	22.72	23.5	2			
5	16QAM	12	0	21.70	21.86	21.88					
5	16QAM	12	7	21.63	21.78	21.71					
5	16QAM	12	13	21.59	21.84	21.62	23.5	2			
5	16QAM	25	0	21.64	21.54	21.50					
5	84QAM	1	0	21.68	21.50	21.59					
5	84QAM	1	12	21.85	21.58	21.85	23.5	2			
5	84QAM	1	24	21.52	21.61	21.52					
5	84QAM	12	0	20.75	20.77	20.89					
5	84QAM	12	7	20.92	20.97	20.85	22.5	3			
5	84QAM	12	13	20.82	20.67	21.13					
5	84QAM	25	0	20.84	20.92	20.64					

Band 41 Ant1 Default power												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	23.93	23.99	24.12	24.02	24.07	25.5	0		
20	QPSK	1	49	23.83	23.90	23.97	23.91	23.92				
20	QPSK	1	99	23.81	23.84	23.91	23.76	23.78				
20	QPSK	50	0	22.97	23.01	23.08	22.93	22.95	24.5	1		
20	QPSK	50	24	22.95	22.96	23.07	22.95	22.98				
20	QPSK	50	50	22.93	22.98	23.04	22.94	22.94				
20	QPSK	100	0	23.04	23.02	23.09	23.03	23.00	24.5	1		
20	16QAM	1	0	23.00	23.02	23.15	23.09	23.12				
20	16QAM	1	49	23.07	22.97	23.11	22.98	23.03				
20	16QAM	1	99	22.87	22.88	23.01	22.94	22.87	23.5	2		
20	16QAM	50	0	21.95	21.98	22.09	22.04	21.99				
20	16QAM	50	24	22.02	21.96	22.08	21.94	21.95				
20	16QAM	50	50	21.98	21.92	22.05	21.99	21.92	23.5	2		
20	16QAM	100	0	21.97	21.96	22.09	22.02	21.97				
20	84QAM	1	0	21.91	21.87	22.00	21.89	21.92				
20	84QAM	1	49	21.90	21.87	22.02	21.90	21.88	23.5	2		
20	84QAM	1	99	21.81	21.83	21.94	21.79	21.80				
20	84QAM	50	0	21.00	20.90	21.04	20.95	21.00				
20	84QAM	50	24	20.88	20.82	20.97	20.86	20.89	22.5	3		
20	84QAM	50	50	20.93	20.91	21.03	20.93	20.98				
20	84QAM	100	0	20.92	20.89	21.00	20.89	20.93				
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2692.5				
15	QPSK	1	0	23.81	23.87	24.03	23.95	23.94	25.5	0		
15	QPSK	1	37	23.73	23.82	23.87	23.83	23.79				
15	QPSK	1	74	23.69	23.75	23.79	23.72	23.70				
15	QPSK	36	0	22.92	22.94	23.00	22.83	22.89	24.5	1		
15	QPSK	36	20	22.82	22.84	23.02	22.84	22.94				
15	QPSK	36	39	22.88	22.91	22.97	22.90	22.85				
15	QPSK	75	0	22.94	22.97	22.95	22.96	22.94	24.5	1		
15	16QAM	1	0	22.89	22.98	23.06	22.9					



Band 7 Ant2 DS11								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350	18	0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	16.83	16.95	16.87	18	0
20	QPSK	1	49	16.91	16.94	16.90		
20	QPSK	1	99	16.76	16.76	16.73		
20	QPSK	50	0	16.78	16.93	16.80	18	0
20	QPSK	50	24	16.87	16.87	16.89		
20	QPSK	50	50	16.77	16.80	16.79		
20	QPSK	100	0	16.82	16.85	16.79	18	0
20	16QAM	1	0	16.82	16.89	16.81		
20	16QAM	1	49	16.83	16.87	16.91		
20	16QAM	1	99	16.78	16.71	16.67	18	0
20	16QAM	50	0	16.77	16.79	16.73		
20	16QAM	50	24	16.83	16.88	16.89		
20	16QAM	50	50	16.67	16.71	16.78	18	0
20	16QAM	100	0	16.77	16.77	16.75		
20	64QAM	1	0	16.77	16.91	16.85		
20	64QAM	1	49	16.84	16.84	16.87	18	0
20	64QAM	1	99	16.75	16.77	16.62		
20	64QAM	50	0	16.83	16.86	16.70		
20	64QAM	50	24	16.88	16.87	16.92	18	0
20	64QAM	50	50	16.70	16.68	16.84		
20	64QAM	100	0	16.79	16.81	16.79		
Channel				20825	21100	21375	18	0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	16.74	16.92	16.79	18	0
15	QPSK	1	37	16.87	16.89	16.81		
15	QPSK	1	74	16.67	16.69	16.69		
15	QPSK	36	0	16.74	16.82	16.70	18	0
15	QPSK	36	20	16.79	16.80	16.81		
15	QPSK	36	39	16.73	16.71	16.72		
15	QPSK	75	0	16.75	16.76	16.78	18	0
15	16QAM	1	0	16.82	16.83	16.72		
15	16QAM	1	37	16.77	16.86	16.79		
15	16QAM	1	74	16.74	16.67	16.65	18	0
15	16QAM	36	0	16.74	16.73	16.70		
15	16QAM	36	20	16.77	16.81	16.88		
15	16QAM	36	39	16.69	16.65	16.75	18	0
15	16QAM	75	0	16.71	16.72	16.73		
15	64QAM	1	0	16.74	16.87	16.75		
15	64QAM	1	37	16.78	16.75	16.77	18	0
15	64QAM	1	74	16.64	16.69	16.58		
15	64QAM	36	0	16.78	16.74	16.67		
15	64QAM	36	20	16.83	16.77	16.80	18	0
15	64QAM	36	39	16.65	16.64	16.73		
15	64QAM	75	0	16.77	16.76	16.70		
Channel				20800	21100	21400	18	0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	16.73	16.86	16.86	18	0
10	QPSK	1	25	16.81	16.83	16.82		
10	QPSK	1	49	16.69	16.64	16.65		
10	QPSK	25	0	16.78	16.90	16.73	18	0
10	QPSK	25	12	16.79	16.84	16.78		
10	QPSK	25	25	16.72	16.80	16.74		
10	QPSK	50	0	16.73	16.75	16.70	18	0
10	16QAM	1	0	16.71	16.88	16.71		
10	16QAM	1	25	16.74	16.80	16.83		
10	16QAM	1	49	16.74	16.66	16.57	18	0
10	16QAM	25	0	16.72	16.69	16.62		
10	16QAM	25	12	16.73	16.83	16.78		
10	16QAM	25	25	16.62	16.66	16.69	18	0
10	16QAM	50	0	16.74	16.76	16.64		
10	64QAM	1	0	16.67	16.88	16.83		
10	64QAM	1	25	16.79	16.80	16.84	18	0
10	64QAM	1	49	16.72	16.72	16.62		
10	64QAM	25	0	16.75	16.83	16.68		
10	64QAM	25	12	16.78	16.86	16.82	18	0
10	64QAM	25	25	16.69	16.62	16.84		
10	64QAM	50	0	16.76	16.71	16.71		
Channel				20775	21100	21425	18	0
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	16.79	16.88	16.80	18	0
5	QPSK	1	12	16.82	16.90	16.87		
5	QPSK	1	24	16.76	16.68	16.71		
5	QPSK	12	0	16.68	16.87	16.80	18	0
5	QPSK	12	7	16.78	16.82	16.78		
5	QPSK	12	13	16.72	16.70	16.69		
5	QPSK	25	0	16.81	16.76	16.75	18	0
5	16QAM	1	0	16.77	16.79	16.74		
5	16QAM	1	12	16.80	16.79	16.82		
5	16QAM	1	24	16.71	16.69	16.57	18	0
5	16QAM	12	0	16.69	16.72	16.61		
5	16QAM	12	7	16.73	16.77	16.82		
5	16QAM	12	13	16.63	16.66	16.76	18	0
5	16QAM	25	0	16.75	16.69	16.72		
5	64QAM	1	0	16.76	16.90	16.78		
5	64QAM	1	12	16.82	16.80	16.78	18	0
5	64QAM	1	24	16.70	16.75	16.62		
5	64QAM	12	0	16.80	16.85	16.64		
5	64QAM	12	7	16.87	16.82	16.90	18	0
5	64QAM	12	13	16.61	16.57	16.73		
5	64QAM	25	0	16.74	16.75	16.78		



Band 38 Ant2 DSI1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	17.29	17.73	17.49	18.5	0		
20	QPSK	1	49	17.23	17.35	17.40				
20	QPSK	1	99	17.43	17.58	17.52				
20	QPSK	50	0	17.36	17.60	17.40	18.5	0		
20	QPSK	50	24	17.36	17.37	17.46				
20	QPSK	50	50	17.21	17.43	17.58				
20	QPSK	100	0	17.29	17.46	17.33	18.5	0		
20	16QAM	1	0	17.63	17.39	17.55				
20	16QAM	1	49	17.40	17.19	17.44				
20	16QAM	1	99	17.28	17.55	17.59	18.5	0		
20	16QAM	50	0	17.37	17.52	17.55				
20	16QAM	50	24	17.29	17.27	17.30				
20	16QAM	50	50	17.14	17.59	17.56	18.5	0		
20	16QAM	100	0	17.31	17.40	17.57				
20	84QAM	1	0	17.54	17.64	17.48				
20	84QAM	1	49	17.42	17.31	17.23	18.5	0		
20	84QAM	1	99	17.14	17.59	17.58				
20	84QAM	50	0	17.44	17.41	17.39				
20	84QAM	50	24	17.38	17.26	17.36	18.5	0		
20	84QAM	50	50	17.23	17.50	17.45				
20	84QAM	100	0	17.31	17.39	17.46				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	17.28	17.71	17.62	18.5	0		
15	QPSK	1	37	17.28	17.34	17.39				
15	QPSK	1	74	17.21	17.52	17.65				
15	QPSK	36	0	17.50	17.59	17.36	18.5	0		
15	QPSK	36	20	17.50	17.50	17.33				
15	QPSK	36	39	17.10	17.41	17.38				
15	QPSK	75	0	17.32	17.36	17.32	18.5	0		
15	16QAM	1	0	17.65	17.44	17.52				
15	16QAM	1	37	17.36	17.15	17.38				
15	16QAM	1	74	17.39	17.63	17.50	18.5	0		
15	16QAM	36	0	17.43	17.47	17.45				
15	16QAM	36	20	17.27	17.35	17.47				
15	16QAM	36	39	17.21	17.39	17.42	18.5	0		
15	16QAM	75	0	17.29	17.47	17.35				
15	84QAM	1	0	17.52	17.47	17.54				
15	84QAM	1	37	17.41	17.33	17.28	18.5	0		
15	84QAM	1	74	17.20	17.41	17.60				
15	84QAM	36	0	17.58	17.51	17.34				
15	84QAM	36	20	17.40	17.23	17.53	18.5	0		
15	84QAM	36	39	17.34	17.34	17.25				
15	84QAM	75	0	17.47	17.42	17.56				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	17.42	17.55	17.52	18.5	0		
10	QPSK	1	25	17.36	17.36	17.47				
10	QPSK	1	49	17.36	17.52	17.66				
10	QPSK	25	0	17.44	17.54	17.40	18.5	0		
10	QPSK	25	12	17.36	17.40	17.37				
10	QPSK	25	25	17.08	17.38	17.49				
10	QPSK	50	0	17.25	17.25	17.31	18.5	0		
10	16QAM	1	0	17.50	17.56	17.44				
10	16QAM	1	25	17.35	17.13	17.49				
10	16QAM	1	49	17.19	17.57	17.45	18.5	0		
10	16QAM	25	0	17.31	17.58	17.51				
10	16QAM	25	12	17.32	17.31	17.39				
10	16QAM	25	25	17.19	17.50	17.64	18.5	0		
10	16QAM	50	0	17.29	17.48	17.50				
10	84QAM	1	0	17.39	17.48	17.44				
10	84QAM	1	25	17.27	17.17	17.40	18.5	0		
10	84QAM	1	49	17.15	17.39	17.60				
10	84QAM	25	0	17.38	17.52	17.47				
10	84QAM	25	12	17.48	17.28	17.41	18.5	0		
10	84QAM	25	25	17.34	17.43	17.24				
10	84QAM	50	0	17.25	17.39	17.52				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	17.31	17.67	17.45	18.5	0		
5	QPSK	1	12	17.30	17.52	17.53				
5	QPSK	1	24	17.37	17.65	17.61				
5	QPSK	12	0	17.36	17.69	17.54	18.5	0		
5	QPSK	12	7	17.44	17.51	17.44				
5	QPSK	12	13	17.24	17.43	17.49				
5	QPSK	25	0	17.27	17.25	17.31	18.5	0		
5	16QAM	1	0	17.57	17.52	17.57				
5	16QAM	1	12	17.28	17.14	17.55				
5	16QAM	1	24	17.38	17.62	17.51	18.5	0		
5	16QAM	12	0	17.38	17.47	17.38				
5	16QAM	12	7	17.29	17.31	17.32				
5	16QAM	12	13	17.15	17.38	17.44	18.5	0		
5	16QAM	25	0	17.45	17.44	17.51				
5	84QAM	1	0	17.41	17.56	17.58				
5	84QAM	1	12	17.24	17.34	17.34	18.5	0		
5	84QAM	1	24	17.28	17.40	17.54				
5	84QAM	12	0	17.39	17.57	17.26				
5	84QAM	12	7	17.48	17.15	17.54	18.5	0		
5	84QAM	12	13	17.39	17.43	17.46				
5	84QAM	25	0	17.37	17.40	17.49				

Band 41 Ant2 DSI1												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	17.76	17.88	17.99	17.80	17.74	19	0		
20	QPSK	1	49	17.73	17.91	17.95	17.91	17.95				
20	QPSK	1	99	17.73	17.74	17.94	17.82	17.88				
20	QPSK	50	0	17.73	17.73	17.86	17.64	17.76	19	0		
20	QPSK	50	24	17.78	17.82	17.73	17.76	17.70				
20	QPSK	50	50	17.85	17.77	17.81	17.83	17.73				
20	QPSK	100	0	17.80	17.76	17.81	17.77	17.78	19	0		
20	16QAM	1	0	17.73	17.81	17.83	17.80	17.89				
20	16QAM	1	49	17.71	17.86	17.78	17.88	17.97				
20	16QAM	1	99	17.74	17.88	17.82	17.80	17.97	19	0		
20	16QAM	50	0	17.72	17.82	17.90	17.89	17.92				
20	16QAM	50	24	17.78	17.84	17.82	17.76	17.81				
20	16QAM	50	50	17.89	17.93	17.80	17.93	17.85	19	0		
20	16QAM	100	0	17.83	17.80	17.79	17.91	17.85				
20	84QAM	1	0	17.76	17.96	17.80	17.88	17.92				
20	84QAM	1	49	17.93	17.83	17.93	17.91	17.92	19	0		
20	84QAM	1	99	17.77	17.95	17.95	17.80	17.83				
20	84QAM	50	0	17.77	17.91	17.85	17.91	17.83				
20	84QAM	50	24	17.81	17.87	17.97	17.86	17.83	19	0		
20	84QAM	50	50	17.67	17.75	17.86	17.82	17.94				
20	84QAM	100	0	17.84	17.94	17.90	17.98	17.96				
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	17.65	17.74	17.85	17.69	17.85	19.00	0		
15	QPSK	1	37	17.60	17.79	17.95	17.74	17.95				
15	QPSK	1	74	17.55	17.60	17.76	17.84	17.70				
15	QPSK	36	0	17.61	17.59	17.88	17.56	17.58	19	0		
15	QPSK	36	20	17.77	17.78	17.64	17.63	17.67				
15	QPSK	36	39	17.75	17.64	17.64	17.80	17.59				
15	QPSK	75	0	17.71	17.81	17.81	17.68	17.75	19	0		
15	16QAM	1	0	17.64	17.80	17.85	17.74	17.71				
15	16QAM	1	37	17.60	17.80	17.77	17.85	17.79				
15	16QAM	1	74	17.76	17.86	17.65	17.81	17.86	19	0		
15	16QAM	36	0	17.57	17.63	17.89	17.80	17.90				
15	16QAM	36	20	17.73	17.68	17.64	17.54	17.61				
15	16QAM	36	39	17.75	17.87	17.74	17.91					



GSM850 Ant4 DSI1

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	128	189		251	128	189	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.22	32.31	32.25	32.50	23.22	23.31	23.25	23.50
GPRS 1 Tx slot	32.28	32.35	32.31	32.50	23.28	23.35	23.31	23.50
GPRS 2 Tx slots	29.46	29.55	29.56	30.00	23.46	23.55	23.56	24.00
GPRS 3 Tx slots	27.91	27.93	27.89	28.50	23.65	23.67	23.63	24.24
GPRS 4 Tx slots	26.48	26.59	26.43	27.00	23.48	23.59	23.43	24.00
EDGE 1 Tx slot	26.69	26.71	26.66	27.50	17.69	17.71	17.66	18.50
EDGE 2 Tx slots	23.85	23.83	23.79	24.50	17.85	17.83	17.79	18.50
EDGE 3 Tx slots	21.66	21.53	21.62	23.00	17.40	17.27	17.36	18.74
EDGE 4 Tx slots	20.72	20.69	20.74	21.50	17.72	17.69	17.74	18.50

GSM1900 Ant4 DSI1

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	661		810	512	661	
Frequency (MHz)	1850.2	1860	1869.8		1850.2	1860	1869.8	
GSM 1 Tx slot	29.11	29.28	29.11	29.50	20.11	20.28	20.11	20.50
GPRS 1 Tx slot	29.21	29.21	29.14	29.50	20.21	20.21	20.14	20.50
GPRS 2 Tx slots	26.17	26.12	26.09	26.50	20.17	20.12	20.09	20.50
GPRS 3 Tx slots	23.67	23.96	23.77	25.00	19.61	19.70	19.51	20.74
GPRS 4 Tx slots	22.78	22.82	22.79	23.50	19.78	19.82	19.79	20.50
EDGE 1 Tx slot	25.43	25.47	25.26	26.50	16.43	16.47	16.26	17.50
EDGE 2 Tx slots	22.71	22.72	22.64	23.50	16.71	16.72	16.64	17.50
EDGE 3 Tx slots	21.35	21.51	21.47	22.00	17.09	17.25	17.21	17.74
EDGE 4 Tx slots	19.96	20.04	19.98	20.50	16.96	17.04	16.98	17.50

WCDMA II Ant4 DSI1

WCDMA IV Ant4 DSI1

WCDMA V Ant4 DSI1

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	TX Channel	9262	9400		9538	1312	1413		1513	4132	4182		4233
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	19.50	19.57	19.55	20.50	20.71	20.79	20.78	22.00	22.89	23.03	22.94	24.50
3GPP Rel 99	RMC 12.2Kbps	19.53	19.60	19.57	20.50	20.99	21.08	21.06	22.00	23.04	23.12	23.05	24.50
3GPP Rel 6	HSDPA Subtest-1	18.65	18.50	18.39	19.50	19.87	20.05	19.82	21.00	22.25	22.27	22.10	23.50
3GPP Rel 6	HSDPA Subtest-2	18.46	18.45	18.46	19.50	19.94	20.04	19.87	21.00	22.29	22.28	22.12	23.50
3GPP Rel 6	HSDPA Subtest-3	18.17	18.02	18.10	19.00	19.31	19.59	19.40	20.50	21.70	21.74	21.66	23.00
3GPP Rel 6	HSDPA Subtest-4	18.13	18.25	18.10	19.00	19.96	19.97	19.84	20.50	22.45	22.46	22.07	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	18.44	18.51	18.61	19.50	19.72	20.07	19.91	21.00	22.15	22.15	22.26	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	18.46	18.59	18.73	19.50	20.00	19.89	19.81	21.00	22.19	22.28	21.94	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	18.13	18.15	18.10	19.00	19.22	19.41	19.53	20.50	21.54	21.75	21.86	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	17.94	18.29	18.22	19.00	19.49	19.34	19.30	20.50	21.78	21.68	21.74	23.00
3GPP Rel 6	HSUPA Subtest-1	18.40	18.71	18.47	19.50	19.88	20.03	19.84	21.00	22.14	22.22	22.42	23.50
3GPP Rel 6	HSUPA Subtest-2	16.46	16.63	16.72	17.50	18.04	17.77	17.79	19.00	20.31	20.10	19.97	21.50
3GPP Rel 6	HSUPA Subtest-3	17.40	17.60	17.45	18.50	18.79	18.85	18.96	20.00	21.18	21.42	21.31	22.50
3GPP Rel 6	HSUPA Subtest-4	16.63	16.68	16.64	17.50	17.89	17.84	17.83	19.00	20.33	20.40	20.27	21.50
3GPP Rel 6	HSUPA Subtest-5	18.49	18.60	18.56	19.50	19.89	19.96	19.86	21.00	22.12	22.36	22.36	23.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.96	15.99	16.08	17.00	17.61	17.49	17.39	18.50	19.68	19.81	19.67	21.00



Band 2 Ant4 DS11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				18700	18900	19100			
Frequency (MHz)				18700	18900	19100			
20	QPSK	1	0	19.84	19.85	19.81	20.5	0	
20	QPSK	1	49	19.60	19.62	19.73			
20	QPSK	1	99	19.45	19.46	19.76			
20	QPSK	50	0	19.64	19.77	19.75			
20	QPSK	50	24	19.67	19.65	19.76	20.5	0	
20	QPSK	50	50	19.44	19.51	19.65			
20	QPSK	100	0	19.68	19.62	19.60			
20	16QAM	1	0	19.58	19.73	19.76	20.5	0	
20	16QAM	1	49	19.49	19.62	19.73			
20	16QAM	1	99	19.64	19.70	19.77			
20	16QAM	50	0	19.58	19.62	19.76			
20	16QAM	50	24	19.65	19.42	19.73	20.5	0	
20	16QAM	50	50	19.71	19.83	19.64			
20	16QAM	100	0	19.69	19.62	19.70			
20	64QAM	1	0	19.64	19.84	19.62	20.5	0	
20	64QAM	1	49	19.57	19.54	19.82			
20	64QAM	1	99	19.51	19.48	19.72			
20	64QAM	50	0	19.81	19.82	19.59	20.5	0	
20	64QAM	50	24	19.74	19.77	19.75			
20	64QAM	50	50	19.63	19.59	19.67			
20	64QAM	100	0	19.58	19.64	19.59			
Channel				18875	18900	19125			
Frequency (MHz)				18875.5	18900	19125.5			
15	QPSK	1	0	19.63	19.82	19.75	20.5	0	
15	QPSK	1	37	19.42	19.43	19.61			
15	QPSK	1	74	19.39	19.37	19.64			
15	QPSK	36	0	19.49	19.63	19.72	20.5	0	
15	QPSK	36	20	19.58	19.54	19.65			
15	QPSK	36	39	19.41	19.39	19.52			
15	QPSK	75	0	19.51	19.72	19.39	20.5	0	
15	16QAM	1	0	19.54	19.54	19.69			
15	16QAM	1	37	19.28	19.50	19.62	20.5	0	
15	16QAM	1	74	19.52	19.50	19.78			
15	16QAM	36	0	19.39	19.58	19.58	20.5	0	
15	16QAM	36	20	19.45	19.33	19.61			
15	16QAM	36	39	19.50	19.72	19.65			
15	16QAM	75	0	19.64	19.57	19.48	20.5	0	
15	64QAM	1	0	19.62	19.74	19.54			
15	64QAM	1	37	19.50	19.43	19.73	20.5	0	
15	64QAM	1	74	19.37	19.46	19.56			
15	64QAM	36	0	19.72	19.66	19.58	20.5	0	
15	64QAM	36	20	19.60	19.73	19.72			
15	64QAM	36	39	19.36	19.56	19.64			
15	64QAM	75	0	19.37	19.51	19.40			
Channel				18950	18900	19150			
Frequency (MHz)				18950	18900	19150			
10	QPSK	1	0	19.69	19.81	19.77	20.5	0	
10	QPSK	1	25	19.43	19.58	19.63			
10	QPSK	1	49	19.34	19.46	19.56			
10	QPSK	25	0	19.61	19.68	19.70	20.5	0	
10	QPSK	25	12	19.49	19.65	19.63			
10	QPSK	25	25	19.43	19.43	19.64			
10	QPSK	50	0	19.64	19.79	19.55	20.5	0	
10	16QAM	1	0	19.48	19.72	19.75			
10	16QAM	1	25	19.36	19.59	19.54	20.5	0	
10	16QAM	1	49	19.46	19.64	19.67			
10	16QAM	25	0	19.52	19.49	19.58	20.5	0	
10	16QAM	25	12	19.49	19.25	19.75			
10	16QAM	25	25	19.58	19.66	19.60			
10	16QAM	50	0	19.69	19.55	19.67	20.5	0	
10	64QAM	1	0	19.57	19.84	19.80			
10	64QAM	1	25	19.62	19.64	19.81	20.5	0	
10	64QAM	1	49	19.36	19.44	19.60			
10	64QAM	25	0	19.65	19.84	19.40	20.5	0	
10	64QAM	25	12	19.60	19.56	19.75			
10	64QAM	25	25	19.42	19.44	19.67			
10	64QAM	50	0	19.43	19.53	19.39			
Channel				18825	18900	19175			
Frequency (MHz)				18825.5	18900	19175.5			
5	QPSK	1	0	19.80	19.65	19.81	20.5	0	
5	QPSK	1	12	19.39	19.58	19.96			
5	QPSK	1	24	19.32	19.40	19.73			
5	QPSK	12	0	19.65	19.72	19.66	20.5	0	
5	QPSK	12	7	19.50	19.62	19.67			
5	QPSK	12	13	19.35	19.37	19.51			
5	QPSK	25	0	19.68	19.75	19.55	20.5	0	
5	16QAM	1	0	19.41	19.72	19.66			
5	16QAM	1	12	19.51	19.60	19.59	20.5	0	
5	16QAM	1	24	19.52	19.64	19.73			
5	16QAM	12	0	19.44	19.63	19.72	20.5	0	
5	16QAM	12	7	19.61	19.39	19.64			
5	16QAM	12	13	19.54	19.62	19.59			
5	16QAM	25	0	19.65	19.53	19.67	20.5	0	
5	64QAM	1	0	19.48	19.76	19.52			
5	64QAM	1	12	19.59	19.49	19.78	20.5	0	
5	64QAM	1	24	19.47	19.42	19.59			
5	64QAM	12	0	19.83	19.72	19.44	20.5	0	
5	64QAM	12	7	19.72	19.65	19.76			
5	64QAM	12	13	19.59	19.39	19.57			
5	64QAM	25	0	19.37	19.61	19.56			
Channel				18815	18900	19185			
Frequency (MHz)				18815.5	18900	19185.5			
3	QPSK	1	0	19.77	19.72	19.83	20.5	0	
3	QPSK	1	8	19.53	19.62	19.52			
3	QPSK	1	14	19.38	19.43	19.56			
3	QPSK	8	0	19.56	19.71	19.72	20.5	0	
3	QPSK	8	4	19.50	19.63	19.57			
3	QPSK	8	7	19.38	19.41	19.53			
3	QPSK	15	0	19.49	19.71	19.44	20.5	0	
3	16QAM	1	0	19.38	19.67	19.76			
3	16QAM	1	8	19.28	19.62	19.63	20.5	0	
3	16QAM	1	14	19.61	19.64	19.75			
3	16QAM	8	0	19.49	19.52	19.61	20.5	0	
3	16QAM	8	4	19.46	19.42	19.53			
3	16QAM	8	7	19.55	19.83	19.62			
3	16QAM	15	0	19.60	19.61	19.69	20.5	0	
3	64QAM	1	0	19.44	19.66	19.59			
3	64QAM	1	8	19.49	19.46	19.70	20.5	0	
3	64QAM	1	14	19.34	19.30	19.57			
3	64QAM	8	0	19.76	19.71	19.45	20.5	0	
3	64QAM	8	4	19.65	19.63	19.75			
3	64QAM	8	7	19.64	19.42	19.45			
3	64QAM	15	0	19.53	19.61	19.39			
Channel				18907	18900	19183			
Frequency (MHz)				18907.5	18900	19183.5			
1.4	QPSK	1	0	19.84	19.66	19.71	20.5	0	
1.4	QPSK	1	3	19.42	19.49	19.54			
1.4	QPSK	1	5	19.38	19.37	19.70			
1.4	QPSK	3	0	19.60	19.61	19.66	20.5	0	
1.4	QPSK	3	1	19.60	19.62	19.73			
1.4	QPSK	3	3	19.69	19.67	19.77			
1.4	QPSK	6	0	19.57	19.62	19.68	20.5	0	
1.4	16QAM	1	0	19.39	19.26	19.55			
1.4	16QAM	1	5	19.60	19.66	19.73	20.5	0	
1.4	16QAM	1	3	19.51	19.61	19.72			
1.4	16QAM	3	0	19.84	19.84	19.80			
1.4	16QAM	3	1	19.42	19.60	19.52	20.5	0	
1.4	16QAM	3	3	19.45	19.39	19.70			
1.4	16QAM	6	0	19.59	19.66	19.73	20.5	0	
1.4	64QAM	1	0	19.49	19.50	19.56			
1.4	64QAM	1	3	19.62	19.77	19.60	20.5	0	
1.4	64QAM	1	5	19.62	19.78	19.60			
1.4	64QAM	3	0	19.56	19.41	19.59			
1.4	64QAM	3	1	19.31	19.26	19.70	20.5	0	
1.4	64QAM	3	3	19.64	19.75	19.73			
1.4	64QAM	6	0	19.69	19.66	19.74	20.5	0	



Band 5 Ant4 DSI1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				20450	20525	20600	
Frequency (MHz)				2314	2332	2322	
10	QPSK	1	0	23.14	23.32	23.22	
10	QPSK	1	25	23.20	23.21	23.16	24.5
10	QPSK	1	49	23.09	23.19	23.19	
10	QPSK	25	0	23.14	23.20	23.13	
10	QPSK	25	12	23.12	23.13	23.08	
10	QPSK	25	25	22.97	23.06	23.00	
10	QPSK	50	0	22.99	23.10	22.98	
10	16QAM	1	0	23.21	23.29	23.29	
10	16QAM	1	25	23.21	23.23	23.21	
10	16QAM	1	49	23.10	23.18	23.18	
10	16QAM	25	0	22.04	22.15	22.05	
10	16QAM	25	12	22.11	22.19	22.17	
10	16QAM	25	25	22.05	22.08	22.02	
10	16QAM	50	0	22.13	22.14	22.12	
10	64QAM	1	0	22.18	22.19	22.11	
10	64QAM	1	25	22.01	22.03	22.00	
10	64QAM	1	49	22.13	22.14	22.05	
10	64QAM	25	0	21.13	21.18	21.17	
10	64QAM	25	12	21.01	21.08	21.01	
10	64QAM	25	25	21.20	21.21	21.19	
10	64QAM	50	0	21.08	21.10	21.00	
Channel				20425	20525	20625	
Frequency (MHz)				2310	2313	2312	
5	QPSK	1	0	23.10	23.27	23.19	
5	QPSK	1	12	23.10	23.13	23.12	
5	QPSK	1	24	22.98	23.13	23.15	
5	QPSK	12	0	23.07	23.08	23.08	
5	QPSK	12	7	23.05	23.11	22.98	
5	QPSK	12	13	22.88	23.00	22.91	
5	QPSK	25	0	22.95	23.01	22.88	
5	16QAM	1	0	23.15	23.23	23.26	
5	16QAM	1	12	23.09	23.16	23.10	
5	16QAM	1	24	23.04	23.12	23.08	
5	16QAM	12	0	21.95	22.13	21.95	
5	16QAM	12	7	22.00	22.18	22.15	
5	16QAM	12	13	21.93	22.00	22.00	
5	16QAM	25	0	22.07	22.13	22.09	
5	64QAM	1	0	22.08	22.08	22.02	
5	64QAM	1	12	21.92	21.95	21.97	
5	64QAM	1	24	22.02	22.07	21.94	
5	64QAM	12	0	21.07	21.11	21.13	
5	64QAM	12	7	20.93	21.07	20.93	
5	64QAM	12	13	21.12	21.16	21.09	
5	64QAM	25	0	21.03	21.00	20.99	
Channel				20415	20525	20635	
Frequency (MHz)				2305	2305	2305	
3	QPSK	1	0	23.05	23.23	23.12	
3	QPSK	1	8	23.13	23.13	23.05	
3	QPSK	1	14	22.97	23.08	23.08	
3	QPSK	8	0	23.10	23.13	23.05	
3	QPSK	8	4	23.01	23.06	23.03	
3	QPSK	8	7	22.90	23.03	22.92	
3	QPSK	15	0	22.89	23.04	22.90	
3	16QAM	1	0	23.17	23.17	23.19	
3	16QAM	1	8	23.16	23.21	23.10	
3	16QAM	1	14	23.00	23.11	23.08	
3	16QAM	8	0	21.92	22.04	21.99	
3	16QAM	8	4	21.99	22.11	22.06	
3	16QAM	8	7	21.99	21.98	21.93	
3	16QAM	15	0	22.04	22.03	22.01	
3	64QAM	1	0	22.13	22.15	22.11	
3	64QAM	1	8	21.93	22.01	21.92	
3	64QAM	1	14	22.04	22.07	22.01	
3	64QAM	8	0	21.10	21.12	21.11	
3	64QAM	8	4	20.92	21.03	20.98	
3	64QAM	8	7	21.12	21.11	21.14	
3	64QAM	15	0	20.97	21.00	20.90	
Channel				20407	20525	20643	
Frequency (MHz)				2307	2305	2305	
1.4	QPSK	1	0	23.07	23.25	23.10	
1.4	QPSK	1	3	23.15	23.17	23.07	
1.4	QPSK	1	5	23.04	23.09	23.08	
1.4	QPSK	3	0	23.04	23.20	23.07	
1.4	QPSK	3	1	23.01	23.11	22.98	
1.4	QPSK	3	3	22.95	23.04	22.93	
1.4	QPSK	6	0	22.95	23.01	22.95	
1.4	16QAM	1	0	23.16	23.19	23.26	
1.4	16QAM	1	3	23.19	23.23	23.17	
1.4	16QAM	1	5	23.02	23.10	23.10	
1.4	16QAM	3	0	22.96	23.12	22.96	
1.4	16QAM	3	1	23.02	23.19	23.08	
1.4	16QAM	3	3	22.95	23.00	23.00	
1.4	16QAM	6	0	22.08	22.09	22.00	
1.4	64QAM	1	0	22.07	22.10	22.02	
1.4	64QAM	1	3	21.93	22.01	21.91	
1.4	64QAM	1	5	22.13	22.13	21.97	
1.4	64QAM	3	0	22.05	22.12	22.13	
1.4	64QAM	3	1	21.95	22.08	21.93	
1.4	64QAM	3	3	22.12	22.19	22.15	
1.4	64QAM	6	0	21.01	21.06	20.92	

Band 7 Ant4 DSI1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				20850	21100	21350	
Frequency (MHz)				2310	2335	2350	
20	QPSK	1	0	18.30	18.42	18.32	
20	QPSK	1	49	18.25	18.19	18.15	
20	QPSK	1	99	18.03	18.16	18.01	
20	QPSK	50	0	18.07	18.27	18.25	
20	QPSK	50	24	18.13	18.24	18.24	
20	QPSK	50	50	18.13	18.26	18.18	
20	QPSK	100	0	18.02	18.09	18.03	
20	16QAM	1	0	18.30	18.30	18.27	
20	16QAM	1	49	18.13	18.15	18.25	
20	16QAM	1	99	18.08	18.25	18.28	
20	16QAM	50	0	18.20	18.13	18.21	
20	16QAM	50	24	18.05	18.24	18.10	
20	16QAM	50	50	18.17	18.15	18.14	
20	16QAM	100	0	18.27	18.26	18.08	
20	64QAM	1	0	18.17	18.35	18.21	
20	64QAM	1	49	18.21	18.27	18.01	
20	64QAM	1	99	18.31	18.31	18.17	
20	64QAM	50	0	18.22	18.27	18.23	
20	64QAM	50	24	18.20	18.18	18.10	
20	64QAM	50	50	18.15	18.30	18.22	
20	64QAM	100	0	18.20	18.31	18.28	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	18.31	18.30	18.32	
15	QPSK	1	37	18.21	18.29	18.09	
15	QPSK	1	74	18.22	18.24	18.24	
15	QPSK	36	0	18.26	18.36	18.31	
15	QPSK	36	20	18.21	18.15	18.26	
15	QPSK	36	39	18.03	18.24	18.13	
15	QPSK	75	0	18.02	18.22	18.16	
15	16QAM	1	0	18.30	18.25	18.24	
15	16QAM	1	37	18.11	18.30	18.23	
15	16QAM	1	74	18.14	18.20	18.25	
15	16QAM	36	0	18.15	18.18	18.26	
15	16QAM	36	20	18.04	18.31	18.08	
15	16QAM	36	39	18.15	18.15	18.17	
15	16QAM	75	0	18.18	18.22	18.13	
15	64QAM	1	0	18.23	18.36	18.30	
15	64QAM	1	37	18.10	18.11	18.19	
15	64QAM	1	74	18.33	18.31	18.12	
15	64QAM	36	0	18.26	18.26	18.23	
15	64QAM	36	20	18.10	18.18	18.15	
15	64QAM	36	39	18.33	18.32	18.10	
15	64QAM	75	0	18.03	18.15	18.26	
Channel				20900	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	18.24	18.28	18.22	
10	QPSK	1	25	18.19	18.26	18.10	
10	QPSK	1	49	18.18	18.21	18.20	
10	QPSK	25	0	18.27	18.17	18.19	
10	QPSK	25	12	18.07	18.17	18.16	
10	QPSK	25	25	18.16	18.20	18.17	
10	QPSK	50	0	18.00	18.12	18.16	
10	16QAM	1	0	18.21	18.33	18.14	
10	16QAM	1	25	18.08	18.20	18.16	
10	16QAM	1	49	18.16	18.33	18.14	
10	16QAM	25	0	18.26	18.21	18.18	
10	16QAM	25	12	18.05	18.22	18.14	
10	16QAM	25	25	18.19	18.30	18.05	
10	16QAM	50	0	18.18	18.13	18.15	
10	64QAM	1	0	18.23	18.33	18.33	
10	64QAM	1	25	18.20	18.21	18.17	
10	64QAM	1	49	18.24	18.29	18.33	
10	64QAM	25	0	18.14	18.36	18.24	
10	64QAM	25	12	18.05	18.28	18.08	
10	64QAM	25	25				



Band 38 Ant4 DSI1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	2127	2133	2128	23	0		
20	QPSK	1	49	2125	2129	2123				
20	QPSK	1	99	2117	2117	2116				
20	QPSK	50	0	2125	2126	2118	23	0		
20	QPSK	50	24	2115	2117	2111				
20	QPSK	50	50	2116	2122	2122				
20	QPSK	100	0	2111	2119	2115	23	0		
20	16QAM	1	0	2122	2128	2125				
20	16QAM	1	49	2109	2119	2108				
20	16QAM	1	99	2113	2123	2117	23	0		
20	16QAM	50	0	2121	2121	2118				
20	16QAM	50	24	2112	2118	2111				
20	16QAM	50	50	2110	2116	2111	23	0		
20	16QAM	100	0	2125	2126	2119				
20	84QAM	1	0	2115	2118	2114				
20	84QAM	1	49	2121	2122	2114	23	0		
20	84QAM	1	99	2116	2127	2127				
20	84QAM	50	0	2068	2077	2069				
20	84QAM	50	24	2083	2086	2075	22.5	0.5		
20	84QAM	50	50	2071	2078	2067				
20	84QAM	100	0	2073	2081	2078				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	2124	2131	2123	23	0		
15	QPSK	1	37	2125	2128	2122				
15	QPSK	1	74	2116	2107	2116				
15	QPSK	36	0	2125	2126	2118	23	0		
15	QPSK	36	20	2107	2105	2102				
15	QPSK	36	39	2115	2119	2113				
15	QPSK	75	0	2113	2108	2113	23	0		
15	16QAM	1	0	2113	2125	2122				
15	16QAM	1	37	2105	2116	2108				
15	16QAM	1	74	2107	2121	2113	23	0		
15	16QAM	36	0	2111	2118	2109				
15	16QAM	36	20	2103	2113	2118				
15	16QAM	36	39	2101	2107	2111	23	0		
15	16QAM	75	0	2116	2125	2115				
15	84QAM	1	0	2105	2116	2112				
15	84QAM	1	37	2116	2121	2113	23	0		
15	84QAM	1	74	2114	2122	2127				
15	84QAM	36	0	2064	2066	2059				
15	84QAM	36	20	2083	2085	2073	22.5	0.5		
15	84QAM	36	39	2069	2069	2057				
15	84QAM	75	0	2069	2078	2076				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	2116	2126	2123	23	0		
10	QPSK	1	25	2118	2122	2121				
10	QPSK	1	49	2109	2115	2114				
10	QPSK	25	0	2114	2123	2111	23	0		
10	QPSK	25	12	2105	2106	2107				
10	QPSK	25	25	2106	2118	2111				
10	QPSK	50	0	2102	2118	2114	23	0		
10	16QAM	1	0	2115	2122	2115				
10	16QAM	1	25	2111	2114	2106				
10	16QAM	1	49	2109	2116	2105	23	0		
10	16QAM	25	0	2121	2113	2112				
10	16QAM	25	12	2111	2110	2106				
10	16QAM	25	25	2102	2104	2109	23	0		
10	16QAM	50	0	2118	2119	2111				
10	84QAM	1	0	2106	2108	2111				
10	84QAM	1	25	2112	2122	2104	23	0		
10	84QAM	1	49	2109	2123	2120				
10	84QAM	25	0	2058	2077	2059				
10	84QAM	25	12	2072	2075	2066	22.5	0.5		
10	84QAM	25	25	2068	2069	2062				
10	84QAM	50	0	2065	2079	2073				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	2126	2122	2128	23	0		
5	QPSK	1	12	2123	2122	2118				
5	QPSK	1	24	2108	2116	2106				
5	QPSK	12	0	2117	2122	2115	23	0		
5	QPSK	12	7	2107	2110	2108				
5	QPSK	12	13	2111	2114	2111				
5	QPSK	25	0	2107	2118	2109	23	0		
5	16QAM	1	0	2120	2125	2117				
5	16QAM	1	12	2108	2117	2102				
5	16QAM	1	24	2105	2121	2110	23	0		
5	16QAM	12	0	2119	2115	2109				
5	16QAM	12	7	2108	2112	2117				
5	16QAM	12	13	2108	2111	2115	23	0		
5	16QAM	25	0	2121	2122	2113				
5	84QAM	1	0	2111	2114	2106				
5	84QAM	1	12	2113	2112	2106	23	0		
5	84QAM	1	24	2106	2127	2120				
5	84QAM	12	0	2057	2072	2063				
5	84QAM	12	7	2075	2080	2068	22.5	0.5		
5	84QAM	12	13	2069	2076	2062				
5	84QAM	25	0	2063	2078	2075				

Band 41 Ant4 DSI1												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	2133	2147	2150	2130	2142	23	0		
20	QPSK	1	49	2125	2123	2128	2127	2123				
20	QPSK	1	99	2120	2124	2125	2122	2114				
20	QPSK	50	0	2135	2142	2146	2140	2134	23	0		
20	QPSK	50	24	2121	2121	2129	2118	2121				
20	QPSK	50	50	2106	2112	2116	2112	2112				
20	QPSK	100	0	2132	2137	2138	2133	2130	23	0		
20	16QAM	1	0	2125	2127	2127	2127	2127				
20	16QAM	1	49	2115	2113	2119	2107	2112				
20	16QAM	1	99	2116	2116	2122	2114	2117	23	0		
20	16QAM	50	0	2119	2112	2120	2108	2118				
20	16QAM	50	24	2123	2113	2125	2120	2117				
20	16QAM	50	50	2110	2114	2118	2116	2107	23	0		
20	16QAM	100	0	2118	2116	2127	2125	2117				
20	84QAM	1	0	2119	2109	2119	2116	2115				
20	84QAM	1	49	2112	2107	2116	2108	2105	23	0		
20	84QAM	1	99	2111	2108	2112	2109	2100				
20	84QAM	50	0	2060	2070	2072	2062	2068				
20	84QAM	50	24	2059	2064	2066	2061	2065	22.5	0.5		
20	84QAM	50	50	2050	2060	2061	2056	2056				
20	84QAM	100	0	2075	2069	2076	2064	2072				
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2692.5				
15	QPSK	1	0	2118	2131	2131	2107	2122	23.00	0		
15	QPSK	1	37	2113	2117	2125	2117	2111				
15	QPSK	1	74	2110	2119	2117	2114	2111				
15	QPSK	36	0	2111	2124	2131	2121	2116	23	0		
15	QPSK	36	20	2109	2112	2128	2114	2109				
15	QPSK	36	39	2103	2104	2112	2106	2101				
15	QPSK	75	0	2117	2111	2117	2109	2115	23	0		
15	16QAM	1	0	2119	2126	2126	2116	2121				
15	16QAM	1	37	2108	2107	2118	2106	2103				
15	16QAM	1	74	2115	2108	2115	2105	2110	23	0		
15	16QAM	36	0	2108	2101	2115	2102	2108				
15	16QAM	36	20	2112	2101	2116	2119	2110				
15	16QAM	36	39	2109	2113	2118	2113	2107	23	0		
15	16QAM	75	0	2115	2113	2115	2120	2111				
15	84QAM	1	0	2115	2102	2117	2112	2106				
15	84QAM	1	37	2110	2117	2107	2104	2108	23	0		
15	84QAM	1	74	2100	2105	2103	2105	2113				
15	84QAM											



Reduced power level for WWAN DSI2

GSM850 Ant1 Default power

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	193	199	251		193	199	251	
Tx Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.80	32.76	32.75	33.50	23.60	23.76	23.75	24.50
GPRS 1 Tx slot	32.69	32.78	32.69	33.50	23.69	23.78	23.69	24.50
GPRS 2 Tx slots	30.09	30.29	30.29	31.00	24.09	24.29	24.29	25.00
GPRS 3 Tx slots	29.10	29.22	29.03	29.50	24.84	24.96	24.77	25.24
GPRS 4 Tx slots	27.05	27.14	27.03	28.00	24.05	24.14	24.03	25.00
EDGE 1 Tx slot	27.03	27.18	27.01	28.50	18.03	18.18	18.01	19.50
EDGE 2 Tx slots	24.22	24.41	24.43	25.50	18.22	18.41	18.43	19.50
EDGE 3 Tx slots	22.15	22.36	22.27	24.00	17.89	18.10	18.01	18.74
EDGE 4 Tx slots	21.08	21.15	20.94	22.50	18.08	18.15	17.94	19.50

GSM1900 Ant1 Default power

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Tx Channel	1850.2	1860	1909.8		1850.2	1860	1909.8	
Frequency (MHz)	1850.2	1860	1909.8		1850.2	1860	1909.8	
GSM 1 Tx slot	29.81	29.87	29.76	30.50	20.81	20.87	20.76	21.50
GPRS 1 Tx slot	29.83	29.89	29.84	30.50	20.83	20.89	20.84	21.50
GPRS 2 Tx slots	26.24	26.28	26.15	27.50	20.24	20.28	20.15	21.50
GPRS 3 Tx slots	24.16	24.33	24.21	25.00	19.90	20.07	19.95	21.74
GPRS 4 Tx slots	23.07	23.25	23.26	24.50	20.07	20.25	20.26	21.50
EDGE 1 Tx slot	26.34	26.48	26.47	27.50	17.34	17.48	17.47	18.50
EDGE 2 Tx slots	23.21	23.20	23.05	24.50	17.21	17.20	17.05	18.50
EDGE 3 Tx slots	22.18	22.18	22.10	23.00	17.92	17.92	17.84	18.74
EDGE 4 Tx slots	20.86	21.02	20.89	21.50	17.86	18.02	17.89	18.50

WCDMA II Ant1 DSI2

WCDMA IV Ant1 DSI2

WCDMA V Ant1 DSI2

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
Tx Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233		
Rx Channel	9562	9800	9938		1537	1638	1738		4357	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	21.25	21.34	21.37	23.00	21.49	21.44	21.33	23.00	23.91	23.96	23.88	25.50
3GPP Rel 99	RMC 12.2Kbps	21.38	21.55	21.43	23.00	21.45	21.69	21.46	23.00	23.93	23.98	23.89	25.50
3GPP Rel 6	HSDPA Subtest-1	20.32	20.60	20.60	22.00	20.70	20.61	20.53	22.00	22.84	22.95	22.99	24.50
3GPP Rel 6	HSDPA Subtest-2	20.58	20.46	20.35	22.00	20.81	20.84	20.39	22.00	22.78	23.02	23.08	24.50
3GPP Rel 6	HSDPA Subtest-3	20.11	20.23	20.10	21.50	20.04	20.02	20.08	21.50	22.52	22.30	22.35	24.00
3GPP Rel 6	HSDPA Subtest-4	19.91	20.15	19.98	21.50	20.27	20.02	20.21	21.50	22.14	22.39	22.40	24.00
3GPP Rel 8	DC-HSDPA Subtest-1	20.74	20.49	20.65	22.00	20.78	20.59	20.65	22.00	23.10	22.92	23.11	24.50
3GPP Rel 8	DC-HSDPA Subtest-2	20.50	20.61	20.39	22.00	20.70	20.69	20.78	22.00	23.07	23.09	23.13	24.50
3GPP Rel 8	DC-HSDPA Subtest-3	20.36	20.16	20.08	21.50	20.38	20.09	20.18	21.50	22.58	22.36	22.16	24.00
3GPP Rel 8	DC-HSDPA Subtest-4	20.01	20.16	20.02	21.50	20.35	20.17	19.93	21.50	22.25	22.57	22.31	24.00
3GPP Rel 6	HSUPA Subtest-1	20.48	20.71	20.79	22.00	20.52	20.59	20.85	22.00	22.99	22.91	23.15	24.50
3GPP Rel 6	HSUPA Subtest-2	18.68	18.56	18.50	20.00	18.68	18.70	18.55	20.00	20.95	20.98	21.06	22.50
3GPP Rel 6	HSUPA Subtest-3	19.59	19.90	19.56	21.00	19.92	19.55	19.71	21.00	22.01	21.95	21.61	23.50
3GPP Rel 6	HSUPA Subtest-4	18.46	18.56	18.18	20.00	18.83	18.91	18.66	20.00	20.72	20.85	20.89	22.50
3GPP Rel 6	HSUPA Subtest-5	20.63	20.85	20.67	22.00	20.51	20.74	20.44	22.00	22.78	22.95	23.12	24.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.80	18.00	18.06	19.50	18.11	18.03	18.14	19.50	20.29	20.33	20.24	22.00



Band 2 Ant1 DS12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	1870	1890	1910	23	0		
20	QPSK	1	49	2121	2141	2123				
20	QPSK	1	99	2138	2131	2121				
20	QPSK	50	0	2130	2149	2134				
20	QPSK	50	24	2118	2148	2128				
20	QPSK	50	50	2129	2146	2134				
20	QPSK	100	0	2035	2047	2041				
20	16QAM	1	0	2126	2142	2141				
20	16QAM	1	49	2135	2151	2128				
20	16QAM	1	99	2125	2152	2137				
20	16QAM	50	0	2131	2152	2121				
20	16QAM	50	24	2138	2139	2130				
20	16QAM	50	50	2135	2138	2126				
20	16QAM	100	0	2137	2144	2142				
20	64QAM	1	0	2123	2132	2121				
20	64QAM	1	49	2128	2149	2123				
20	64QAM	1	99	2137	2143	2128				
20	64QAM	50	0	2036	2044	2047				
20	64QAM	50	24	2044	2055	2053				
20	64QAM	50	50	2040	2056	2048				
20	64QAM	100	0	2041	2047	2041				
Channel										
Frequency (MHz)										
15	QPSK	1	0	18675	18900	19125	23	0		
15	QPSK	1	37	2122	2133	2103				
15	QPSK	1	74	2130	2118	2120				
15	QPSK	36	0	2125	2141	2116				
15	QPSK	36	20	2106	2132	2112				
15	QPSK	36	39	2125	2129	2116				
15	QPSK	75	0	2133	2144	2144				
15	16QAM	1	0	2127	2141	2138				
15	16QAM	1	37	2115	2137	2121				
15	16QAM	1	74	2123	2150	2129				
15	16QAM	36	0	2114	2146	2102				
15	16QAM	36	20	2132	2138	2121				
15	16QAM	36	39	2128	2124	2107				
15	16QAM	75	0	2128	2122	2136				
15	64QAM	1	0	2103	2133	2105				
15	64QAM	1	37	2110	2144	2106				
15	64QAM	1	74	2127	2121	2114				
15	64QAM	36	0	2017	2023	2042				
15	64QAM	36	20	2027	2049	2032				
15	64QAM	36	39	2025	2044	2030				
15	64QAM	75	0	2024	2043	2028				
Channel										
Frequency (MHz)										
10	QPSK	1	0	1855	1880	1905	23	0		
10	QPSK	1	25	2121	2124	2116				
10	QPSK	1	49	2124	2113	2120				
10	QPSK	25	0	2111	2129	2113				
10	QPSK	25	12	2104	2128	2116				
10	QPSK	25	25	2120	2137	2114				
10	QPSK	50	0	2131	2134	2123				
10	16QAM	1	0	2111	2136	2123				
10	16QAM	1	25	2128	2141	2115				
10	16QAM	1	49	2105	2152	2131				
10	16QAM	25	0	2129	2150	2100				
10	16QAM	25	12	2122	2121	2116				
10	16QAM	25	25	2118	2125	2123				
10	16QAM	50	0	2116	2125	2140				
10	64QAM	1	0	2114	2122	2105				
10	64QAM	1	25	2107	2137	2121				
10	64QAM	1	49	2122	2144	2130				
10	64QAM	25	0	2038	2023	2044				
10	64QAM	25	12	2034	2042	2044				
10	64QAM	25	25	2031	2052	2033				
10	64QAM	50	0	2017	2028	2027				
Channel										
Frequency (MHz)										
5	QPSK	1	0	1852.5	1880	1907.5	23	0		
5	QPSK	1	12	2121	2143	2122				
5	QPSK	1	24	2138	2123	2116				
5	QPSK	12	0	2121	2135	2116				
5	QPSK	12	7	2105	2142	2120				
5	QPSK	12	13	2111	2139	2136				
5	QPSK	25	0	2119	2137	2125				
5	16QAM	1	0	2123	2127	2122				
5	16QAM	1	12	2113	2132	2121				
5	16QAM	1	24	2117	2138	2120				
5	16QAM	12	0	2128	2145	2118				
5	16QAM	12	7	2130	2133	2109				
5	16QAM	12	13	2119	2140	2104				
5	16QAM	25	0	2116	2144	2137				
5	64QAM	1	0	2120	2131	2106				
5	64QAM	1	12	2129	2130	2108				
5	64QAM	1	24	2119	2127	2123				
5	64QAM	12	0	2038	2037	2027				
5	64QAM	12	7	2045	2048	2045				
5	64QAM	12	13	2028	2037	2042				
5	64QAM	25	0	2024	2027	2042				
Channel										
Frequency (MHz)										
3	QPSK	1	0	1851.5	1880	1918.5	23	0		
3	QPSK	1	8	2122	2145	2130				
3	QPSK	1	14	2120	2112	2115				
3	QPSK	8	0	2127	2133	2117				
3	QPSK	8	4	2101	2131	2106				
3	QPSK	8	7	2112	2133	2115				
3	QPSK	15	0	2117	2139	2140				
3	16QAM	1	0	2119	2136	2122				
3	16QAM	1	8	2115	2133	2121				
3	16QAM	1	14	2127	2116	2120				
3	16QAM	8	0	2132	2149	2124				
3	16QAM	8	4	2105	2146	2125				
3	16QAM	8	7	2107	2147	2115				
3	16QAM	15	0	2135	2138	2144				
3	64QAM	1	0	2111	2127	2118				
3	64QAM	1	8	2106	2140	2106				
3	64QAM	1	14	2126	2127	2118				
3	64QAM	8	0	2032	2022	2028				
3	64QAM	8	4	2034	2046	2052				
3	64QAM	8	7	2036	2049	2039				
3	64QAM	15	0	2036	2049	2026				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	1850.7	1880	1909.3	23	0		
1.4	QPSK	1	3	2108	2131	2119				
1.4	QPSK	1	5	2135	2129	2113				
1.4	QPSK	3	0	2131	2129	2113				
1.4	QPSK	3	1	2112	2130	2114				
1.4	QPSK	3	3	2121	2146	2125				
1.4	QPSK	6	0	2122	2142	2140				
1.4	16QAM	1	0	2122	2138	2136				
1.4	16QAM	1	3	2109	2140	2110				
1.4	16QAM	1	5	2137	2111	2115				
1.4	16QAM	3	0	2137	2131	2120				
1.4	16QAM	3	1	2116	2141	2114				
1.4	16QAM	3	3	2121	2138	2140				
1.4	16QAM	6	0	2120	2141	2124				
1.4	64QAM	1	0	2114	2133	2112				
1.4	64QAM	1	3	2131	2131	2121				
1.4	64QAM	1	5	2127	2143	2134				
1.4	64QAM	3	0	2103	2143	2116				
1.4	64QAM	3	1	2108	2139	2115				
1.4	64QAM	3	3	2138	2149	2123				
1.4	64QAM	6	0	2050	2053	2043				

Band 4 Ant1 DS12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	2050	2075	2050	23	0		
20	QPSK	1	49	2140	2127	2154				
20	QPSK	1	99	2136	2114	2127				
20	QPSK	50	0	2142	2147	2136				
20	QPSK	50	24	2137	2123	2141				
20	QPSK	50	50	2133	2130	2134				
20	QPSK	100	0	2041	2024	2029				
20	16QAM	1	0	2131	2133	2132				
20	16QAM	1	49	2119	2120	2128				
20	16QAM	1	99	2145	2151	2117				
20	16QAM	50	0	2147	2121	2153				
20	16QAM	50	24	2135	2120	2128				
20	16QAM	50	50	2152	2144	2126				
20	16QAM	100	0	2152	2138	2123				
20	64QAM	1	0	2150	2146	2130				
20	64QAM	1	49	2149	2120	2139				
20	64QAM	1	99	2123	2120	2118				
20	64QAM	50	0	2041	2043	2029				
20	64QAM	50	24	2041	2053	2047				
20	64QAM	50	50	2044	2017	2056				
20	64QAM	100	0	2041	2024	2029				
Channel										
Frequency (MHz)										
15	QPSK	1	0	1717.5	1732.5	1747.5	23	0		
15	QPSK	1	37	2141	2122	2136				
15	QPSK	1	74	2136	2104	2126				
15	QPSK	36	0	2153	2121	2119				
15	QPSK	36	20	2117	2117	2136				
15	QPSK	36	39	2123	2109	2132				
15	QPSK	75	0	2138	2130	2117				
15	16QAM	1	0	2155	2118	2150				
15	16QAM	1	37	2113	2105	2121				
15	16QAM	1	74	2137	2149	2118				
15	16QAM	36	0	2130	2111	2137				
15	16QAM	36	20	2131	2109	2116				
15	16QAM	36	39	2151	2136	2116				
15	16QAM	75	0	2138	2130	2117				
15	64QAM	1	0	2142	2145	2120				
15	64QAM	1	37	2138	2109	2127				
15	64QAM	1	74	2112	2104	2104				
15	64QAM									



Band 5 Ant1 Default power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23450	23525	23600			
Frequency (MHz)									
10	QPSK	1	0	23.95	23.99	23.81			
10	QPSK	1	25	23.96	23.82	23.94	25.5	0	
10	QPSK	1	49	23.71	23.80	23.74			
10	QPSK	25	0	22.84	22.96	22.85			
10	QPSK	25	12	22.72	22.69	22.81	24.5	1	
10	QPSK	25	25	22.79	22.76	22.85			
10	QPSK	50	0	22.78	22.83	22.73			
10	16QAM	1	0	22.98	23.07	22.96			
10	16QAM	1	25	23.04	22.92	22.99	24.5	1	
10	16QAM	1	49	22.80	22.82	22.84			
10	16QAM	25	0	21.94	22.02	21.89			
10	16QAM	25	12	21.81	21.76	21.86	23.5	2	
10	16QAM	25	25	21.87	21.79	21.81			
10	16QAM	50	0	22.07	22.12	21.86			
10	64QAM	1	0	22.07	22.04	22.04	23.5	2	
10	64QAM	1	49	21.85	21.88	21.83			
10	64QAM	25	0	20.95	21.07	20.95			
10	64QAM	25	12	20.81	20.87	20.90	22.5	3	
10	64QAM	25	25	20.96	20.87	21.01			
10	64QAM	50	0	20.85	20.91	20.82			
Channel				23425	23525	23625			
Frequency (MHz)									
5	QPSK	1	0	23.89	23.93	23.73			
5	QPSK	1	12	23.88	23.82	23.86	25.5	0	
5	QPSK	1	24	23.68	23.71	23.76			
5	QPSK	12	0	22.83	22.88	22.79			
5	QPSK	12	7	22.63	22.64	22.73	24.5	1	
5	QPSK	12	14	22.76	22.67	22.81			
5	QPSK	25	0	22.74	22.81	22.73			
5	16QAM	1	0	22.97	23.09	22.84			
5	16QAM	1	12	22.96	22.84	22.90	24.5	1	
5	16QAM	1	24	22.79	22.81	22.79			
5	16QAM	12	0	21.89	22.04	21.81			
5	16QAM	12	7	21.79	21.72	21.82	23.5	2	
5	16QAM	12	14	21.86	21.75	21.84			
5	16QAM	25	0	21.82	21.83	21.69			
5	64QAM	1	0	22.04	22.09	21.81			
5	64QAM	1	12	21.97	21.96	22.00	23.5	2	
5	64QAM	1	24	21.80	21.88	21.83			
5	64QAM	12	0	20.87	21.03	20.89			
5	64QAM	12	7	20.75	20.83	20.80	22.5	3	
5	64QAM	12	14	20.96	20.88	20.93			
5	64QAM	25	0	20.81	20.84	20.84			
Channel				23415	23525	23635			
Frequency (MHz)									
3	QPSK	1	0	23.87	23.96	23.79			
3	QPSK	1	8	23.92	23.78	23.88	25.5	0	
3	QPSK	1	14	23.62	23.74	23.70			
3	QPSK	8	0	22.77	22.91	22.78			
3	QPSK	8	4	22.69	22.60	22.73	24.5	1	
3	QPSK	8	7	22.78	22.74	22.78			
3	QPSK	15	0	22.67	22.73	22.70			
3	16QAM	1	0	22.92	23.00	22.86			
3	16QAM	1	8	23.01	22.85	22.94	24.5	1	
3	16QAM	1	14	22.70	22.83	22.86			
3	16QAM	8	0	21.96	21.93	21.83			
3	16QAM	8	4	21.78	21.75	21.82	23.5	2	
3	16QAM	8	7	21.82	21.75	21.81			
3	16QAM	15	0	21.82	21.79	21.76			
3	64QAM	1	0	22.09	22.02	21.88			
3	64QAM	1	8	22.03	21.96	22.05	23.5	2	
3	64QAM	1	14	21.86	21.87	21.89			
3	64QAM	8	0	20.92	21.05	20.86			
3	64QAM	8	4	20.80	20.86	20.82	22.5	3	
3	64QAM	8	7	20.89	20.96	20.91			
3	64QAM	15	0	20.78	20.82	20.80			
Channel				23407	23525	23643			
Frequency (MHz)									
1.4	QPSK	1	0	23.86	23.95	23.72			
1.4	QPSK	1	3	23.87	23.80	23.85	25.5	0	
1.4	QPSK	1	5	23.64	23.74	23.65			
1.4	QPSK	3	0	23.82	23.94	23.83			
1.4	QPSK	3	1	23.64	23.61	23.81			
1.4	QPSK	3	3	23.73	23.74	23.78			
1.4	QPSK	6	0	22.71	22.83	22.67	24.5	1	
1.4	16QAM	1	0	22.90	23.04	22.87			
1.4	16QAM	1	3	23.01	22.94	23.00			
1.4	16QAM	1	5	22.70	22.73	22.78	24.5	1	
1.4	16QAM	3	0	22.95	22.98	22.86			
1.4	16QAM	3	1	22.80	22.67	22.80			
1.4	16QAM	3	3	22.85	22.75	22.88			
1.4	16QAM	6	0	21.80	21.76	21.72	23.5	2	
1.4	64QAM	1	0	22.03	22.13	21.82			
1.4	64QAM	1	3	22.00	21.97	22.03			
1.4	64QAM	1	5	21.84	21.84	21.88	23.5	2	
1.4	64QAM	3	0	21.92	22.05	21.88			
1.4	64QAM	3	1	21.74	21.87	21.81			
1.4	64QAM	3	3	21.92	21.79	21.99			
1.4	64QAM	6	0	20.77	20.82	20.75	22.5	3	

Band 7 Ant1 DS12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20650	21100	21550			
Frequency (MHz)									
20	QPSK	1	0	22.44	22.55	22.23			
20	QPSK	1	49	22.45	22.23	22.44	24	0	
20	QPSK	1	99	22.12	22.31	22.15			
20	QPSK	50	0	22.31	22.43	22.41			
20	QPSK	50	24	22.30	22.41	22.36	24	0	
20	QPSK	50	50	22.17	22.36	22.10			
20	QPSK	100	0	21.62	21.91	21.63			
20	16QAM	1	0	22.48	22.50	22.28			
20	16QAM	1	49	22.42	22.41	22.26	24	0	
20	16QAM	1	99	22.22	22.15	22.28			
20	16QAM	50	0	21.87	22.03	21.76			
20	16QAM	50	24	21.87	22.05	21.66	23.5	0.5	
20	16QAM	50	50	21.90	21.77	21.92			
20	16QAM	100	0	21.62	21.91	21.63			
20	64QAM	1	0	21.91	21.93	21.78			
20	64QAM	1	49	22.04	21.82	22.06	23.5	0.5	
20	64QAM	1	99	21.61	21.88	21.76			
20	64QAM	50	0	21.61	21.12	20.79			
20	64QAM	50	24	20.88	21.06	20.77	22.5	1.5	
20	64QAM	50	50	20.91	20.70	20.99			
20	64QAM	100	0	20.55	20.73	20.78			
Channel				20625	21100	21375			
Frequency (MHz)									
15	QPSK	1	0	22.33	22.42	22.24			
15	QPSK	1	37	22.29	22.20	22.32	24	0	
15	QPSK	1	74	22.06	22.28	22.12			
15	QPSK	36	0	22.19	22.30	22.43			
15	QPSK	36	20	22.22	22.40	22.30	24	0	
15	QPSK	36	39	22.07	22.24	22.07			
15	QPSK	75	0	22.20	22.35	22.16			
15	16QAM	1	0	22.44	22.32	22.30			
15	16QAM	1	37	22.23	22.25	22.08	24	0	
15	16QAM	1	74	22.01	22.04	22.14			
15	16QAM	36	0	21.71	21.92	21.65			
15	16QAM	36	20	21.75	21.91	21.56	23.5	0.5	
15	16QAM	36	39	21.80	21.86	21.87			
15	16QAM	75	0	21.50	21.67	21.59			
15	64QAM	1	0	21.73	21.80	21.73			
15	64QAM	1	37	21.84	21.72	21.86	23.5	0.5	
15	64QAM	1	74	21.58	21.72	21.67			
15	64QAM	36	0	20.81	20.95	20.78			
15	64QAM	36	20	20.84	20.97	20.81	22.5	1.5	
15	64QAM	36	39	20.88	20.88	20.78			
15	64QAM	75	0	20.64	20.72	20.76			
Channel				20600	21100	21400			
Frequency (MHz)									
10	QPSK	1	0	22.37	22.37	22.19			
10	QPSK	1	25	22.36	22.23	22.42	24	0	
10	QPSK	1	49	22.11					



Band 38 Ant1 Default power										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	24.01	24.05	24.03	25.5	0		
20	QPSK	1	49	23.94	23.88	23.93				
20	QPSK	1	99	23.90	23.95	23.88				
20	QPSK	50	0	22.88	23.02	22.84	24.5	1		
20	QPSK	50	24	22.80	22.87	22.90				
20	QPSK	50	50	22.99	22.90	22.70				
20	QPSK	100	0	22.70	22.96	22.92	24.5	1		
20	16QAM	1	0	22.80	22.83	22.74				
20	16QAM	1	49	22.76	22.84	22.86				
20	16QAM	1	99	22.84	22.78	22.82	23.5	2		
20	16QAM	50	0	21.76	21.95	21.94				
20	16QAM	50	24	21.70	21.89	21.78				
20	16QAM	50	50	21.64	21.52	21.74	23.5	2		
20	16QAM	100	0	21.70	21.67	21.56				
20	84QAM	1	0	21.75	21.64	21.69				
20	84QAM	1	49	21.56	21.65	21.58	23.5	2		
20	84QAM	1	99	21.67	21.70	21.65				
20	84QAM	50	0	20.85	20.89	20.95				
20	84QAM	50	24	21.01	21.04	20.98	22.5	3		
20	84QAM	50	50	20.92	20.76	21.18				
20	84QAM	100	0	20.96	21.01	20.78				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	23.89	23.93	23.92	25.5	0		
15	QPSK	1	37	23.89	23.76	23.80				
15	QPSK	1	74	23.83	23.82	23.79				
15	QPSK	36	0	22.82	22.92	22.71	24.5	1		
15	QPSK	36	20	22.70	22.79	22.79				
15	QPSK	36	39	22.87	22.85	22.95				
15	QPSK	75	0	22.56	22.80	22.87	24.5	1		
15	16QAM	1	0	22.67	22.72	22.65				
15	16QAM	1	37	22.67	22.78	22.74				
15	16QAM	1	74	22.70	22.66	22.70	23.5	2		
15	16QAM	36	0	21.61	21.88	21.80				
15	16QAM	36	20	21.63	21.80	21.72				
15	16QAM	36	39	21.51	21.54	21.63	23.5	2		
15	16QAM	75	0	21.61	21.54	21.50				
15	84QAM	1	0	21.62	21.59	21.56				
15	84QAM	1	37	21.55	21.51	21.59	23.5	2		
15	84QAM	1	74	21.62	21.64	21.53				
15	84QAM	36	0	20.72	20.80	20.81				
15	84QAM	36	20	20.95	20.91	20.85	22.5	3		
15	84QAM	36	39	20.84	20.66	21.05				
15	84QAM	75	0	20.89	20.96	20.63				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	23.95	24.00	23.96	25.5	0		
10	QPSK	1	25	23.89	23.77	23.81				
10	QPSK	1	49	23.80	23.81	23.78				
10	QPSK	25	0	22.81	22.85	22.73	24.5	1		
10	QPSK	25	12	22.74	22.74	22.85				
10	QPSK	25	25	22.85	22.82	22.92				
10	QPSK	50	0	22.62	22.86	22.85	24.5	1		
10	16QAM	1	0	22.71	22.76	22.64				
10	16QAM	1	25	22.70	22.78	22.76				
10	16QAM	1	49	22.78	22.64	22.75	23.5	2		
10	16QAM	25	0	21.67	21.89	21.85				
10	16QAM	25	12	21.59	21.79	21.67				
10	16QAM	25	25	21.57	21.52	21.59	23.5	2		
10	16QAM	50	0	21.56	21.62	21.82				
10	84QAM	1	0	21.67	21.89	21.56				
10	84QAM	1	25	21.84	21.53	21.50	23.5	2		
10	84QAM	1	49	21.59	21.57	21.57				
10	84QAM	25	0	20.78	20.83	20.90				
10	84QAM	25	12	20.89	20.89	20.87	22.5	3		
10	84QAM	25	25	20.82	20.62	21.06				
10	84QAM	50	0	20.86	20.93	20.68				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	23.92	23.90	23.91	25.5	0		
5	QPSK	1	12	23.85	23.75	23.80				
5	QPSK	1	24	23.79	23.87	23.79				
5	QPSK	12	0	22.74	22.85	22.75	24.5	1		
5	QPSK	12	7	22.73	22.74	22.84				
5	QPSK	12	13	22.90	22.82	22.97				
5	QPSK	25	0	22.59	22.80	22.87	24.5	1		
5	16QAM	1	0	22.73	22.76	22.63				
5	16QAM	1	12	22.63	22.75	22.77				
5	16QAM	1	24	22.71	22.66	22.72	23.5	2		
5	16QAM	12	0	21.70	21.86	21.88				
5	16QAM	12	7	21.63	21.78	21.71				
5	16QAM	12	13	21.59	21.84	21.62	23.5	2		
5	16QAM	25	0	21.64	21.54	21.50				
5	84QAM	1	0	21.68	21.50	21.59				
5	84QAM	1	12	21.85	21.58	21.85	23.5	2		
5	84QAM	1	24	21.52	21.61	21.52				
5	84QAM	12	0	20.75	20.77	20.89				
5	84QAM	12	7	20.92	20.97	20.85	22.5	3		
5	84QAM	12	13	20.82	20.67	21.13				
5	84QAM	25	0	20.84	20.92	20.64				

Band 41 Ant1 Default power												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	23.93	23.99	24.12	24.02	24.07	25.5	0		
20	QPSK	1	49	23.83	23.90	23.97	23.91	23.92				
20	QPSK	1	99	23.81	23.84	23.91	23.76	23.78				
20	QPSK	50	0	22.97	23.01	23.08	22.93	22.95	24.5	1		
20	QPSK	50	24	22.95	22.96	23.07	22.95	22.98				
20	QPSK	50	50	22.93	22.98	23.04	22.94	22.94				
20	QPSK	100	0	23.04	23.02	23.09	23.03	23.00	24.5	1		
20	16QAM	1	0	23.00	23.02	23.15	23.09	23.12				
20	16QAM	1	49	23.07	22.97	23.11	22.98	23.03				
20	16QAM	1	99	22.87	22.88	23.01	22.94	22.87	23.5	2		
20	16QAM	50	0	21.95	21.98	22.09	22.04	21.99				
20	16QAM	50	24	22.02	21.96	22.08	21.94	21.95				
20	16QAM	50	50	21.98	21.92	22.05	21.99	21.92	23.5	2		
20	16QAM	100	0	21.97	21.96	22.09	22.02	21.97				
20	84QAM	1	0	21.91	21.87	22.00	21.89	21.92				
20	84QAM	1	49	21.90	21.87	22.02	21.90	21.88	23.5	2		
20	84QAM	1	99	21.81	21.83	21.94	21.79	21.80				
20	84QAM	50	0	21.00	20.90	21.04	20.95	21.00				
20	84QAM	50	24	20.88	20.82	20.97	20.86	20.89	22.5	3		
20	84QAM	50	50	20.93	20.91	21.03	20.93	20.98				
20	84QAM	100	0	20.92	20.89	21.00	20.89	20.93				
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2692.5				
15	QPSK	1	0	23.81	23.87	24.03	23.95	23.94	25.5	0		
15	QPSK	1	37	23.73	23.82	23.87	23.83	23.79				
15	QPSK	1	74	23.69	23.75	23.79	23.72	23.70				
15	QPSK	36	0	22.92	22.94	23.00	22.83	22.89	24.5	1		
15	QPSK	36	20	22.82	22.84	23.02	22.84	22.94				
15	QPSK	36	39	22.88	22.91	22.97	22.90	22.85				
15	QPSK	75	0	22.94	22.97	22.95	22.96	22.94	24.5	1		
15	16QAM	1	0	22.89	22.98	23.06	22.95	23.08				
15	16QAM	1	37	23.03	22.90	23.06	22.86	22.90				
15	16QAM	1	74	22.81	22.83	22.90	22.89	22.83	23.5	2		
15	16QAM	36	0	21.86	21.94	22.01	21.92	21.93				
15	16QAM	36	20	21.97	21.90	21.97	21.85	21.86				
15	16QAM	36	39	21.88	21.85	21						



Band 7 Ant2 DS12								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350	21.5	0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	20.25	20.56	20.23	21.5	0
20	QPSK	1	49	20.35	20.15	20.42		
20	QPSK	1	99	20.26	20.21	20.24		
20	QPSK	50	0	20.32	20.44	20.22	21.5	0
20	QPSK	50	24	20.36	20.05	20.27		
20	QPSK	50	50	20.29	20.40	20.34		
20	QPSK	100	0	20.17	20.35	20.21	21.5	0
20	16QAM	1	0	20.37	20.27	20.36		
20	16QAM	1	49	20.29	20.42	20.31		
20	16QAM	1	99	20.14	20.44	20.34	21.5	0
20	16QAM	50	0	20.30	20.13	20.32		
20	16QAM	50	24	20.32	20.31	20.28		
20	16QAM	50	50	20.31	20.46	20.38	21.5	0
20	16QAM	100	0	20.24	20.10	20.22		
20	64QAM	1	0	20.23	20.41	20.40		
20	64QAM	1	49	20.29	20.47	20.28	21.5	0
20	64QAM	1	99	20.23	20.17	20.20		
20	64QAM	50	0	20.17	20.32	20.26		
20	64QAM	50	24	20.17	20.49	20.32	21.5	0
20	64QAM	50	50	20.20	20.14	20.37		
20	64QAM	100	0	20.32	20.30	20.21		
Channel				20825	21100	21375	21.5	0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	20.22	20.47	20.14	21.5	0
15	QPSK	1	37	20.27	20.15	20.28		
15	QPSK	1	74	20.25	20.22	20.05		
15	QPSK	36	0	20.34	20.33	20.10	21.5	0
15	QPSK	36	20	20.27	19.88	20.13		
15	QPSK	36	39	20.17	20.25	20.33		
15	QPSK	75	0	20.18	20.19	20.19	21.5	0
15	16QAM	1	0	20.30	20.18	20.18		
15	16QAM	1	37	20.18	20.44	20.12		
15	16QAM	1	74	19.88	20.38	20.27	21.5	0
15	16QAM	36	0	20.24	20.10	20.27		
15	16QAM	36	20	20.24	20.10	20.12		
15	16QAM	36	39	20.10	20.25	20.22	21.5	0
15	16QAM	75	0	20.14	19.89	20.01		
15	64QAM	1	0	20.15	20.43	20.40		
15	64QAM	1	37	20.22	20.29	20.20	21.5	0
15	64QAM	1	74	20.20	19.97	20.16		
15	64QAM	36	0	20.15	20.15	20.26		
15	64QAM	36	20	20.16	20.42	20.13	21.5	0
15	64QAM	36	39	19.88	20.07	20.35		
15	64QAM	75	0	20.33	20.27	19.99		
Channel				20800	21100	21400	21.5	0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	20.10	20.35	20.18	21.5	0
10	QPSK	1	25	20.30	20.16	20.35		
10	QPSK	1	49	20.28	20.12	20.15		
10	QPSK	25	0	20.20	20.25	20.15	21.5	0
10	QPSK	25	12	20.23	20.02	20.13		
10	QPSK	25	25	20.15	20.21	20.30		
10	QPSK	50	0	20.06	20.34	20.14	21.5	0
10	16QAM	1	0	20.32	20.12	20.28		
10	16QAM	1	25	20.15	20.40	20.18		
10	16QAM	1	49	20.12	20.45	20.27	21.5	0
10	16QAM	25	0	20.27	19.99	20.23		
10	16QAM	25	12	20.20	20.10	20.26		
10	16QAM	25	25	20.32	20.31	20.16	21.5	0
10	16QAM	50	0	20.08	20.10	20.13		
10	64QAM	1	0	20.07	20.35	20.32		
10	64QAM	1	25	20.10	20.36	20.24	21.5	0
10	64QAM	1	49	20.21	20.19	20.05		
10	64QAM	25	0	20.13	20.16	20.21		
10	64QAM	25	12	20.15	20.44	20.27	21.5	0
10	64QAM	25	25	20.17	20.14	20.24		
10	64QAM	50	0	20.34	20.12	20.20		
Channel				20775	21100	21425	21.5	0
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	20.07	20.37	20.04	21.5	0
5	QPSK	1	12	20.30	20.08	20.28		
5	QPSK	1	24	20.24	19.99	20.24		
5	QPSK	12	0	20.20	20.30	20.20	21.5	0
5	QPSK	12	7	20.23	19.94	20.15		
5	QPSK	12	13	20.25	20.37	20.27		
5	QPSK	25	0	20.16	20.23	20.05	21.5	0
5	16QAM	1	0	20.31	20.14	20.20		
5	16QAM	1	12	20.10	20.30	20.24		
5	16QAM	1	24	20.14	20.55	20.32	21.5	0
5	16QAM	12	0	20.19	19.99	20.15		
5	16QAM	12	7	20.18	20.10	20.24		
5	16QAM	12	13	20.09	20.31	20.40	21.5	0
5	16QAM	25	0	20.11	19.94	20.05		
5	64QAM	1	0	20.04	20.35	20.36		
5	64QAM	1	12	20.20	20.43	20.12	21.5	0
5	64QAM	1	24	20.16	20.00	20.17		
5	64QAM	12	0	20.06	20.20	20.27		
5	64QAM	12	7	20.06	20.35	20.10	21.5	0
5	64QAM	12	13	19.99	19.99	20.28		
5	64QAM	25	0	20.16	20.09	20.02		



Band 38 Ant2 DSI2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	19.34	19.52	19.47	20.5	0		
20	QPSK	1	49	19.14	19.18	19.16				
20	QPSK	1	99	19.06	19.37	19.40				
20	QPSK	50	0	19.32	19.48	19.46	20.5	0		
20	QPSK	50	24	19.26	19.06	19.32				
20	QPSK	50	50	19.16	19.30	19.31				
20	QPSK	100	0	19.28	19.36	19.17	20.5	0		
20	16QAM	1	0	19.10	19.11	19.26				
20	16QAM	1	49	19.02	19.42	19.21				
20	16QAM	1	99	19.37	19.48	19.29	20.5	0		
20	16QAM	50	0	19.15	19.10	19.26				
20	16QAM	50	24	19.07	19.37	19.24				
20	16QAM	50	50	19.40	19.35	19.40	20.5	0		
20	16QAM	100	0	19.31	19.11	19.35				
20	84QAM	1	0	19.07	19.33	19.44				
20	84QAM	1	49	19.37	19.31	19.27	20.5	0		
20	84QAM	1	99	19.20	19.23	19.22				
20	84QAM	50	0	19.18	19.32	19.38				
20	84QAM	50	24	19.29	19.40	19.30	20.5	0		
20	84QAM	50	50	19.31	19.26	19.18				
20	84QAM	100	0	19.20	19.43	19.36				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	19.17	19.16	19.31	20.5	0		
15	QPSK	1	37	18.96	18.99	19.10				
15	QPSK	1	74	19.06	19.38	19.29				
15	QPSK	36	0	19.23	19.42	19.28	20.5	0		
15	QPSK	36	20	19.27	18.97	19.29				
15	QPSK	36	39	19.15	19.11	19.22				
15	QPSK	75	0	19.30	19.31	19.32	20.5	0		
15	16QAM	1	0	19.10	19.01	19.06				
15	16QAM	1	37	18.99	19.25	19.07				
15	16QAM	1	74	19.34	19.44	19.08	20.5	0		
15	16QAM	36	0	19.09	18.97	19.22				
15	16QAM	36	20	19.02	19.29	19.09				
15	16QAM	36	39	19.24	19.37	19.36	20.5	0		
15	16QAM	75	0	19.27	19.06	19.22				
15	84QAM	1	0	18.94	19.28	19.23				
15	84QAM	1	37	19.24	19.16	19.09	20.5	0		
15	84QAM	1	74	19.05	19.18	19.04				
15	84QAM	36	0	19.08	19.19	19.18				
15	84QAM	36	20	19.27	19.26	19.23	20.5	0		
15	84QAM	36	39	19.16	19.27	19.14				
15	84QAM	75	0	19.14	19.29	19.32				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	19.29	19.26	19.30	20.5	0		
10	QPSK	1	25	18.97	18.99	19.01				
10	QPSK	1	49	19.05	19.39	19.19				
10	QPSK	25	0	19.29	19.36	19.32	20.5	0		
10	QPSK	25	12	19.08	18.93	19.24				
10	QPSK	25	25	18.99	19.29	19.29				
10	QPSK	50	0	19.28	19.14	19.37	20.5	0		
10	16QAM	1	0	18.99	19.08	19.11				
10	16QAM	1	25	19.00	19.32	19.04				
10	16QAM	1	49	19.34	19.31	19.28	20.5	0		
10	16QAM	25	0	19.12	19.08	19.12				
10	16QAM	25	12	18.87	19.18	19.24				
10	16QAM	25	25	19.23	19.31	19.19	20.5	0		
10	16QAM	50	0	19.15	18.99	19.19				
10	84QAM	1	0	19.08	19.23	19.36				
10	84QAM	1	25	19.32	19.18	19.23	20.5	0		
10	84QAM	1	49	19.11	19.17	19.05				
10	84QAM	25	0	18.99	19.33	19.37				
10	84QAM	25	12	19.21	19.33	19.11	20.5	0		
10	84QAM	25	25	19.23	19.18	19.02				
10	84QAM	50	0	19.16	19.29	19.32				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	19.22	19.35	19.28	20.5	0		
5	QPSK	1	12	19.15	19.11	19.11				
5	QPSK	1	24	19.05	19.36	19.20				
5	QPSK	12	0	19.32	19.51	19.38	20.5	0		
5	QPSK	12	7	19.21	19.07	19.13				
5	QPSK	12	13	19.02	19.10	19.13				
5	QPSK	25	0	19.20	19.18	19.35	20.5	0		
5	16QAM	1	0	19.01	19.08	19.06				
5	16QAM	1	12	18.87	19.28	19.15				
5	16QAM	1	24	19.28	19.36	19.12	20.5	0		
5	16QAM	12	0	19.07	19.02	19.18				
5	16QAM	12	7	18.88	19.21	19.22				
5	16QAM	12	13	19.19	19.34	19.24	20.5	0		
5	16QAM	25	0	19.32	19.12	19.31				
5	84QAM	1	0	18.96	19.31	19.35				
5	84QAM	1	12	19.33	19.29	19.21	20.5	0		
5	84QAM	1	24	19.01	19.17	19.02				
5	84QAM	12	0	19.12	19.16	19.32				
5	84QAM	12	7	19.21	19.32	19.16	20.5	0		
5	84QAM	12	13	19.32	19.10	19.15				
5	84QAM	25	0	19.03	19.23	19.32				

Band 41 Ant2 DSI2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	19.96	19.95	20.08	19.58	19.41	21	0
20	QPSK	1	49	19.82	19.95	19.88	19.73	20.01		
20	QPSK	1	99	19.76	19.86	19.92	19.58	19.91		
20	QPSK	50	0	19.85	19.88	19.91	19.77	19.79	21	0
20	QPSK	50	24	19.81	19.74	19.84	19.67	19.80		
20	QPSK	50	50	19.83	19.77	19.87	19.64	19.82		
20	QPSK	100	0	19.79	19.80	19.86	19.67	19.81	21	0
20	16QAM	1	0	19.83	19.90	19.85	19.76	19.95		
20	16QAM	1	49	19.80	19.90	19.95	19.75	19.82		
20	16QAM	1	99	19.87	19.86	20.04	19.57	19.85	21	0
20	16QAM	50	0	19.90	19.94	19.92	19.57	19.98		
20	16QAM	50	24	19.90	19.83	19.86	19.67	19.78		
20	16QAM	50	50	19.75	19.80	19.92	19.64	19.82	21	0
20	16QAM	100	0	19.81	19.94	20.00	19.69	19.90		
20	84QAM	1	0	19.74	19.79	19.92	19.66	20.00		
20	84QAM	1	49	19.76	19.95	20.01	19.62	19.90	21	0
20	84QAM	1	99	19.92	19.76	19.87	19.75	19.88		
20	84QAM	50	0	19.96	19.95	20.02	19.66	19.89		
20	84QAM	50	24	19.82	19.82	19.92	19.79	19.95	21	0
20	84QAM	50	50	19.83	19.86	20.02	19.78	19.88		
20	84QAM	100	0	19.89	19.96	20.02	19.78	19.85		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	19.84	19.88	19.85	19.49	19.77	21.00	0
15	QPSK	1	37	19.78	19.88	19.94	19.70	19.95		
15	QPSK	1	74	19.75	19.80	19.70	19.81	19.80		
15	QPSK	36	0	19.69	19.68	19.85	19.60	19.66	21	0
15	QPSK	36	20	19.73	19.54	19.70	19.59	19.62		
15	QPSK	36	39	19.66	19.70	19.68	19.53	19.74		
15	QPSK	75	0	19.77	19.87	19.75	19.58	19.85	21	0
15	16QAM	1	0	19.63	19.74	19.73	19.76	19.95		
15	16QAM	1	37	19.69	19.78	19.80	19.75	19.81		
15	16QAM	1	74	19.81	19.86	19.96	19.52	19.79	21	0
15	16QAM	36	0	19.71	19.77	19.87	19.42	19.79		
15	16QAM	36	20	19.80	19.72	19.76	19.68	19.66		
15	16QAM	36	39	19.61	19.62	19.92	19.61	19.84	21	0
15	16QAM	75	0	19.82	19.83	19.94	19.67	19.90		
15	84QAM	1	0	19.56	19.73	19.80	19.54	19.98		
15	84QAM	1	37	19.68	19.94	19.86	19.57	19.74	21	0
15	84QAM	1	74	19.79	19.56	19.89	19.67	19.76		
15	84QAM	36	0	19.97	19.95	20.01	19.60	19.69		
15	84QAM	36	20	19.80	19.73	19.88</				



GSM850 Ant4 Default power

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	33.01	33.07	32.85	33.50	24.01	24.07	23.85	24.50
GPRS 1 Tx slot	33.11	33.12	33.09	33.50	24.11	24.12	24.09	24.50
GPRS 2 Tx slots	30.46	30.61	30.52	31.00	24.46	24.61	24.52	25.00
GPRS 3 Tx slots	29.23	29.26	29.19	29.50	24.97	25.00	24.93	25.24
GPRS 4 Tx slots	27.66	27.68	27.67	28.00	24.66	24.68	24.67	25.00
EDGE 1 Tx slot	27.79	27.82	27.73	28.50	18.79	18.82	18.73	19.50
EDGE 2 Tx slots	25.03	25.07	24.95	25.50	19.03	19.07	18.95	19.50
EDGE 3 Tx slots	23.11	23.04	22.85	24.00	18.85	18.78	18.59	19.74
EDGE 4 Tx slots	21.98	21.92	21.76	22.50	18.98	18.92	18.76	19.50

GSM1900 Ant4 Default power

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.54	29.74	29.58	30.50	20.54	20.74	20.58	21.50
GPRS 1 Tx slot	29.62	29.79	29.59	30.50	20.62	20.79	20.59	21.50
GPRS 2 Tx slots	26.04	26.22	26.03	27.50	20.04	20.22	20.03	21.50
GPRS 3 Tx slots	24.22	24.21	24.21	26.00	19.96	19.95	19.95	21.74
GPRS 4 Tx slots	23.21	23.25	23.24	24.50	20.21	20.25	20.24	21.50
EDGE 1 Tx slot	26.08	26.08	26.00	27.50	17.08	17.08	17.00	18.50
EDGE 2 Tx slots	23.39	23.14	23.14	24.50	17.09	17.14	17.14	18.50
EDGE 3 Tx slots	21.87	21.96	21.86	23.00	17.61	17.70	17.60	18.74
EDGE 4 Tx slots	20.61	20.69	20.53	21.50	17.61	17.69	17.53	18.50

WCDMA I Ant4 Default power

WCDMA IV Ant4 Default power

WCDMA V Ant4 Default power

Band	WCDMA I			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233		
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4468		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		825.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	23.98	24.08	24.02	25.00	23.78	23.81	23.77	25.00	24.08	24.22	24.15	25.50
3GPP Rel 99	RM-C 12.2Kbps	24.06	24.12	24.06	25.00	23.86	23.87	23.84	25.00	24.28	24.31	24.29	25.60
3GPP Rel 6	HSDPA Subtest-1	23.13	23.02	22.90	24.00	22.90	22.83	22.70	24.00	23.24	23.48	23.33	24.50
3GPP Rel 6	HSDPA Subtest-2	22.94	22.96	22.98	24.00	22.86	22.84	22.83	24.00	23.24	23.18	23.47	24.50
3GPP Rel 6	HSDPA Subtest-3	22.66	22.53	22.57	23.50	22.39	22.20	22.36	23.50	22.89	22.90	22.89	24.00
3GPP Rel 6	HSDPA Subtest-4	22.60	22.75	22.60	23.50	22.17	22.29	22.20	23.50	22.80	22.68	22.80	24.00
3GPP Rel 8	DC-HSDPA Subtest-1	22.93	23.02	23.11	24.00	22.99	22.99	22.95	24.00	23.22	23.35	23.31	24.50
3GPP Rel 8	DC-HSDPA Subtest-2	22.94	23.08	23.24	24.00	22.89	22.89	22.86	24.00	23.32	23.21	23.35	24.50
3GPP Rel 8	DC-HSDPA Subtest-3	22.63	22.64	22.60	23.50	22.37	22.33	22.29	23.50	22.70	22.96	22.73	24.00
3GPP Rel 8	DC-HSDPA Subtest-4	22.47	22.76	22.70	23.50	22.36	22.24	22.39	23.50	22.77	22.98	22.94	24.00
3GPP Rel 6	HSUPA Subtest-1	22.88	23.21	22.97	24.00	22.93	22.74	22.74	24.00	23.28	23.24	23.35	24.50
3GPP Rel 6	HSUPA Subtest-2	20.96	21.11	21.20	22.00	20.80	20.86	20.93	22.00	21.18	21.25	21.31	22.50
3GPP Rel 6	HSUPA Subtest-3	21.93	22.12	21.93	23.00	21.80	21.89	21.67	23.00	22.31	22.32	22.27	23.50
3GPP Rel 6	HSUPA Subtest-4	21.13	21.21	21.15	22.00	20.88	20.90	20.72	22.00	21.35	21.43	21.34	22.50
3GPP Rel 6	HSUPA Subtest-5	23.00	23.13	23.06	24.00	22.68	23.01	22.89	24.00	23.12	23.29	23.43	24.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.45	20.52	20.55	21.50	20.36	20.38	20.35	21.50	20.87	20.87	20.90	22.00



Band 2 Ant4 Default power												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	24.24	24.26	24.20	25	0				
20	QPSK	1	49	24.14	24.12	24.25						
20	QPSK	1	99	24.05	24.02	24.15						
20	QPSK	50	0	23.19	23.23	23.21						
20	QPSK	50	24	23.15	23.16	23.12						
20	QPSK	50	50	23.05	23.09	23.08	24	1				
20	QPSK	100	0	23.10	23.10	23.05						
20	16QAM	1	0	23.10	23.12	23.11						
20	16QAM	1	49	23.04	23.06	23.08						
20	16QAM	1	99	23.01	22.97	22.97						
20	16QAM	50	0	22.27	22.28	22.37	23	2				
20	16QAM	50	24	22.00	22.30	22.10						
20	16QAM	50	50	22.12	22.08	22.19						
20	16QAM	100	0	21.70	21.85	21.70						
20	64QAM	1	0	22.18	22.21	22.26						
20	64QAM	1	49	21.93	22.22	22.03	23	2				
20	64QAM	1	99	22.08	21.98	22.08						
20	64QAM	50	0	21.43	21.48	21.51						
20	64QAM	50	24	21.45	21.49	21.43						
20	64QAM	50	50	21.37	21.34	21.69						
20	64QAM	100	0	21.30	21.40	21.38	22	3				
Channel												
Frequency (MHz)												
15	QPSK	1	0	24.17	24.11	24.07			25	0		
15	QPSK	1	37	24.08	24.04	24.14						
15	QPSK	1	74	23.94	23.95	24.06						
15	QPSK	36	0	23.09	23.12	23.16						
15	QPSK	36	20	23.01	23.10	23.00						
15	QPSK	36	39	22.91	22.98	22.94	24	1				
15	QPSK	75	0	22.98	23.12	22.92						
15	16QAM	1	0	22.98	22.98	23.00						
15	16QAM	1	37	22.94	22.96	23.02						
15	16QAM	1	74	22.88	22.89	22.82						
15	16QAM	36	0	22.18	22.14	22.25	23	2				
15	16QAM	36	20	21.85	22.20	21.95						
15	16QAM	36	39	22.00	22.00	22.06						
15	16QAM	75	0	21.58	21.74	21.63						
15	64QAM	1	0	22.07	22.08	22.18						
15	64QAM	1	37	21.86	22.10	21.90	23	2				
15	64QAM	1	74	21.99	21.84	21.96						
15	64QAM	36	0	21.38	21.36	21.40						
15	64QAM	36	20	21.38	21.39	21.30						
15	64QAM	36	39	21.28	21.28	21.56						
15	64QAM	75	0	21.30	21.36	21.35	22	3				
Channel												
Frequency (MHz)												
10	QPSK	1	0	24.10	24.17	24.08			25	0		
10	QPSK	1	25	24.08	24.03	24.18						
10	QPSK	1	49	23.97	23.96	24.07						
10	QPSK	25	0	23.12	23.13	23.10						
10	QPSK	25	12	23.04	23.04	22.98						
10	QPSK	25	25	22.93	22.96	22.99	24	1				
10	QPSK	50	0	22.96	23.12	22.97						
10	16QAM	1	0	22.97	22.98	23.02						
10	16QAM	1	25	22.93	22.93	23.00						
10	16QAM	1	49	22.91	22.86	22.86						
10	16QAM	25	0	22.13	22.19	22.26	23	2				
10	16QAM	25	12	21.94	22.16	21.98						
10	16QAM	25	25	22.05	21.97	22.10						
10	16QAM	50	0	21.81	21.73	21.82						
10	64QAM	1	0	22.13	22.14	22.23						
10	64QAM	1	25	21.87	22.12	21.93	23	2				
10	64QAM	1	49	21.99	21.87	22.02						
10	64QAM	25	0	21.31	21.34	21.42						
10	64QAM	25	12	21.36	21.42	21.29						
10	64QAM	25	25	21.32	21.42	21.56						
10	64QAM	50	0	21.30	21.35	21.33	22	3				
Channel												
Frequency (MHz)												
5	QPSK	1	0	24.12	24.11	24.06			25	0		
5	QPSK	1	12	24.09	23.99	24.14						
5	QPSK	1	24	23.95	23.90	24.03						
5	QPSK	12	0	23.10	23.14	23.18						
5	QPSK	12	7	23.01	23.05	22.97						
5	QPSK	12	13	22.98	23.02	22.94	24	1				
5	QPSK	25	0	23.00	23.06	23.00						
5	16QAM	1	0	23.01	22.98	23.01						
5	16QAM	1	12	22.95	22.93	23.00						
5	16QAM	1	24	22.94	22.82	22.87						
5	16QAM	12	0	22.13	22.18	22.27	23	2				
5	16QAM	12	7	21.90	22.24	21.98						
5	16QAM	12	13	22.03	22.00	22.07						
5	16QAM	25	0	21.63	21.78	21.84						
5	64QAM	1	0	22.10	22.12	22.19						
5	64QAM	1	12	21.88	22.10	21.92	23	2				
5	64QAM	1	24	22.00	21.86	22.01						
5	64QAM	12	0	21.37	21.40	21.45						
5	64QAM	12	7	21.32	21.43	21.36						
5	64QAM	12	13	21.25	21.39	21.55						
5	64QAM	25	0	21.30	21.34	21.35	22	3				
Channel												
Frequency (MHz)												
3	QPSK	1	0	24.18	24.13	24.14			25	0		
3	QPSK	1	8	24.06	24.02	24.14						
3	QPSK	1	14	23.92	23.91	24.01						
3	QPSK	8	0	23.13	23.16	23.18						
3	QPSK	8	4	23.06	23.08	23.06						
3	QPSK	8	7	22.99	22.96	23.02	24	1				
3	QPSK	15	0	23.01	23.12	22.92						
3	16QAM	1	0	23.03	22.99	23.03						
3	16QAM	1	8	22.96	22.98	22.94						
3	16QAM	1	14	22.95	22.87	22.85						
3	16QAM	8	0	22.16	22.17	22.27	23	2				
3	16QAM	8	4	21.93	22.19	22.04						
3	16QAM	8	7	21.98	21.94	22.07						
3	16QAM	15	0	21.64	21.75	21.64						
3	64QAM	1	0	22.07	22.14	22.15						
3	64QAM	1	8	21.87	22.12	21.95	23	2				
3	64QAM	1	14	22.00	21.92	21.94						
3	64QAM	8	0	21.37	21.39	21.36						
3	64QAM	8	4	21.34	21.38	21.35						
3	64QAM	8	7	21.29	21.23	21.55						
3	64QAM	15	0	21.31	21.34	21.34	22	3				
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	24.14	24.17	24.13			25	0		
1.4	QPSK	1	3	24.05	23.98	24.17						
1.4	QPSK	1	5	23.98	23.92	24.07						
1.4	QPSK	3	0	24.13	24.07	24.13						
1.4	QPSK	3	1	24.06	24.11	23.98						
1.4	QPSK	3	3	23.96	24.03	23.94	24	1				
1.4	QPSK	6	0	23.05	23.13	22.98						
1.4	16QAM	1	0	22.97	22.98	23.04						
1.4	16QAM	1	3	22.94	22.98	22.94						
1.4	16QAM	1	5	22.92	22.91	22.85						
1.4	16QAM	3	0	23.17	23.13	23.32	24	1				
1.4	16QAM	3	1	23.24	23.15	22.97						
1.4	16QAM	3	3	22.98	22.98	23.11						
1.4	16QAM	6	0	21.61	21.79	21.61						
1.4	64QAM	1	0	22.04	22.08	22.20						
1.4	64QAM	1	3	21.85	22.09	21.97	23	2				
1.4	64QAM	1	5	22.02	21.87	21.99						
1.4	64QAM	3	0	22.34	22.42	22.43						
1.4	64QAM	3	1	22.34	22.41	22.35						
1.4	64QAM	3	3	22.26	22.29	22.56						
1.4	64QAM	6	0	21.30	21.35	21.34	22	3				

Band 4 Ant4 Default power										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.98	24.14	23.86	25	0		
20	QPSK	1	49	23.96	24.02	23.91				
20	QPSK	1	99	23.76	23.87	23.78				
20	QPSK	50	0	22.89	23.02	22.89				
20	QPSK	50	24	22.89	23.01	22.94				
20	QPSK	50	50	22.86	22.97	22.91	24	1		
20	QPSK	100	0	22.90	22.93	22.86				
20	16QAM	1	0	23.06	23.14	23.07				
20	16QAM	1	49	23.06	23.20	23.11				
20	16QAM	1	99	22.96	22.99	22.94				
20	16QAM	50	0	21.86	22.01	21.92	23	2		
20	16QAM</									



Band 5 Ant4 Default power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23450	23525	23600		
Frequency (MHz)				829	835	841		
10	QPSK	1	0	24.15	24.24	24.16		
10	QPSK	1	25	24.00	23.96	24.03	25.5	0
10	QPSK	1	49	23.92	23.79	23.97		
10	QPSK	25	0	22.98	23.13	23.10		
10	QPSK	25	12	22.96	22.96	22.98	24.5	1
10	QPSK	25	25	22.88	22.95	22.89		
10	16QAM	1	0	22.98	23.09	22.92		
10	16QAM	1	0	22.88	22.90	22.86		
10	16QAM	1	25	22.90	22.85	22.90	24.5	1
10	16QAM	1	49	22.80	22.83	22.75		
10	16QAM	25	0	22.06	22.13	22.21		
10	16QAM	25	12	21.86	22.13	21.95	23.5	2
10	16QAM	25	25	21.97	21.87	22.04		
10	16QAM	50	0	22.00	22.05	22.07		
10	64QAM	1	0	21.77	22.04	21.83	23.5	2
10	64QAM	1	49	21.82	21.81	21.80		
10	64QAM	25	0	21.21	21.07	21.37		
10	64QAM	25	12	21.30	21.34	21.29	22.5	3
10	64QAM	25	25	21.19	21.15	21.51		
10	64QAM	50	0	20.83	20.84	20.70		
Channel				23425	23525	23625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829.5	836.5	846.5		
5	QPSK	1	0	23.98	24.11	24.00		
5	QPSK	1	12	23.84	23.79	23.93	25.5	0
5	QPSK	1	24	23.76	23.61	23.79		
5	QPSK	12	0	22.83	22.93	22.95		
5	QPSK	12	7	22.79	22.83	22.88	24.5	1
5	QPSK	12	0	22.70	22.86	22.76		
5	QPSK	25	0	22.74	22.93	22.79		
5	16QAM	1	0	22.77	22.77	22.78		
5	16QAM	1	12	22.71	22.66	22.72	24.5	1
5	16QAM	1	24	22.64	22.67	22.64		
5	16QAM	12	0	21.90	21.96	22.04		
5	16QAM	12	7	21.71	21.96	21.76	23.5	2
5	16QAM	12	13	21.81	21.74	21.89		
5	16QAM	25	0	22.04	22.14	22.09		
5	64QAM	1	0	21.88	21.87	21.92		
5	64QAM	1	12	21.57	21.87	21.71	23.5	2
5	64QAM	1	24	21.80	21.64	21.74		
5	64QAM	12	0	21.02	20.88	21.27		
5	64QAM	12	7	21.12	21.17	21.16	22.5	3
5	64QAM	12	13	21.06	20.96	21.34		
5	64QAM	25	0	20.64	20.61	20.51		
Channel				23415	23525	23635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829.5	836.5	847.5		
3	QPSK	1	0	23.98	24.07	23.99		
3	QPSK	1	8	23.88	23.82	23.89	25.5	0
3	QPSK	1	14	23.77	23.68	23.82		
3	QPSK	8	0	22.86	22.98	22.91		
3	QPSK	8	4	22.88	22.76	22.88	24.5	1
3	QPSK	8	7	22.70	23.84	22.73		
3	QPSK	15	0	22.68	22.95	22.76		
3	16QAM	1	0	22.68	22.70	22.70		
3	16QAM	1	8	22.77	22.69	22.79	24.5	1
3	16QAM	1	14	22.61	22.69	22.59		
3	16QAM	8	0	21.87	22.01	22.11		
3	16QAM	8	4	21.73	21.95	21.80	23.5	2
3	16QAM	8	7	21.62	21.88	21.81		
3	16QAM	15	0	22.06	22.23	22.09		
3	64QAM	1	0	21.86	21.90	21.93		
3	64QAM	1	8	21.60	21.85	21.70	23.5	2
3	64QAM	1	14	21.80	21.67	21.76		
3	64QAM	8	0	21.02	20.89	21.27		
3	64QAM	8	4	21.17	21.17	21.10	22.5	3
3	64QAM	8	7	21.06	21.02	21.38		
3	64QAM	15	0	20.71	20.68	20.50		
Channel				23407	23525	23643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	23.95	24.07	24.05		
1.4	QPSK	1	3	23.87	23.81	23.90	25.5	0
1.4	QPSK	1	5	23.80	23.62	23.83		
1.4	QPSK	3	0	23.78	23.96	23.95		
1.4	QPSK	3	1	23.77	23.84	23.88		
1.4	QPSK	3	1	23.72	23.75	23.72		
1.4	16QAM	6	0	22.72	22.93	22.78	24.5	1
1.4	16QAM	1	0	22.70	22.74	22.74		
1.4	16QAM	1	3	22.71	22.69	22.78		
1.4	16QAM	1	5	22.67	22.67	22.58	24.5	1
1.4	16QAM	3	0	22.93	23.03	23.10		
1.4	16QAM	3	1	22.68	22.95	22.80		
1.4	16QAM	3	3	22.86	22.67	22.92		
1.4	16QAM	6	0	22.00	22.21	22.04	23.5	2
1.4	64QAM	1	0	21.90	21.92	21.96		
1.4	64QAM	1	3	21.61	21.93	21.71		
1.4	64QAM	1	5	21.80	21.62	21.78	23.5	2
1.4	64QAM	3	0	22.10	21.90	22.28		
1.4	64QAM	3	1	22.13	22.17	22.18		
1.4	64QAM	3	3	22.08	22.02	22.40		
1.4	64QAM	6	0	20.69	20.68	20.52	22.5	3

Band 7 Ant4 Default power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20650	21100	21950		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	23.79	23.85	23.83		
20	QPSK	1	49	23.74	23.72	23.70	25.5	0
20	QPSK	1	99	23.59	23.67	23.64		
20	QPSK	50	0	22.63	22.72	22.69		
20	QPSK	50	24	22.62	22.66	22.65	24.5	1
20	QPSK	50	50	22.59	22.62	22.61		
20	16QAM	1	0	22.81	22.86	22.85		
20	16QAM	1	0	22.86	22.90	22.97		
20	16QAM	1	49	22.79	22.88	22.81	24.5	1
20	16QAM	1	99	22.70	22.83	22.76		
20	16QAM	50	0	21.75	21.84	21.80		
20	16QAM	50	24	21.66	21.69	21.67	23.5	2
20	16QAM	50	50	21.69	21.75	21.64		
20	64QAM	1	0	21.94	22.04	22.06		
20	64QAM	1	49	21.95	22.03	21.86	23.5	2
20	64QAM	1	99	21.83	21.94	21.81		
20	64QAM	50	0	20.90	20.99	20.86		
20	64QAM	50	24	20.77	20.76	20.70	22.5	3
20	64QAM	50	50	20.75	20.82	20.71		
20	64QAM	100	0	20.88	20.94	20.77		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	23.80	23.81	23.78		
15	QPSK	1	37	23.66	23.71	23.67	25.5	0
15	QPSK	1	74	23.57	23.64	23.64		
15	QPSK	36	0	22.62	22.71	22.65		
15	QPSK	36	20	22.58	22.56	22.66	24.5	1
15	QPSK	36	39	22.58	22.63	22.54		
15	QPSK	75	0	22.57	22.88	22.67		
15	16QAM	1	0	22.77	22.88	22.94		
15	16QAM	1	37	22.71	22.83	22.81	24.5	1
15	16QAM	1	74	22.66	22.76	22.75		
15	16QAM	36	0	21.70	21.75	21.77		
15	16QAM	36	20	21.62	21.61	21.61	23.5	2
15	16QAM	36	39	21.62	21.65	21.56		
15	16QAM	75	0	21.67	21.78	21.64		
15	64QAM	1	0	21.89	21.97	22.08		
15	64QAM	1	37	21.89	21.95	21.85	23.5	2
15	64QAM	1	74	21.73	21.93	21.78		
15	64QAM	36	0	20.91	20.99	20.86		
15	64QAM	36	20	20.71	20.68	20.65	22.5	3
15	64QAM	36	39	20.71	20.65	20.61		
15	64QAM	75	0	20.94	20.94	20.77		
Channel				20990	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	23.70	23.84	23.73		
10	QPSK	1	25	23.67	23.72	23.63	25.5	0
10	QPSK	1	49	23.52	23.65	23.57		
10	QPSK	25	0	22.54	22.65	22.60		
10	QPSK	25	12	22.56	22.61	22.66	24.5	1
10	QPSK	25	25	22.57	22.64	22.61		
10	QPSK	50	0	22.52	22.67	22.61		
10	16QAM	1	0	22.85	22.			



Band 38 Ant4 Default power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	23.84	23.86	23.83	25.5	0	
20	QPSK	1	49	23.78	23.79	23.81			
20	QPSK	1	99	23.80	23.83	23.77			
20	QPSK	50	0	22.78	22.83	22.76	24.5	1	
20	QPSK	50	24	22.71	22.76	22.79			
20	QPSK	50	50	22.75	22.70	22.72			
20	QPSK	100	0	22.61	22.74	22.72	24.5	1	
20	16QAM	1	0	22.92	22.94	22.96			
20	16QAM	1	49	22.91	22.89	22.96			
20	16QAM	1	99	22.88	22.94	22.92	23.5	2	
20	16QAM	50	0	21.88	21.95	21.86			
20	16QAM	50	24	21.77	21.92	21.91			
20	16QAM	50	50	21.88	21.84	21.84	23.5	2	
20	16QAM	100	0	21.76	21.87	21.88			
20	64QAM	1	0	21.96	22.01	22.10			
20	64QAM	1	49	21.98	21.97	22.11	23.5	2	
20	64QAM	1	99	22.03	22.02	22.05			
20	64QAM	50	0	20.96	21.09	20.94			
20	64QAM	50	24	20.83	21.00	21.00	22.5	3	
20	64QAM	50	50	21.02	20.93	20.90			
20	64QAM	100	0	20.84	21.03	21.01			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	23.82	23.84	23.82	25.5	0	
15	QPSK	1	37	23.76	23.78	23.75			
15	QPSK	1	74	23.74	23.81	23.77			
15	QPSK	36	0	22.78	22.73	22.71	24.5	1	
15	QPSK	36	20	22.73	22.68	22.79			
15	QPSK	36	39	22.71	22.71	22.70			
15	QPSK	75	0	22.61	22.72	22.73	24.5	1	
15	16QAM	1	0	22.92	22.90	22.91			
15	16QAM	1	37	22.86	22.86	22.98			
15	16QAM	1	74	22.81	22.84	22.85	23.5	2	
15	16QAM	36	0	21.81	21.88	21.85			
15	16QAM	36	20	21.69	21.85	21.89			
15	16QAM	36	39	21.79	21.84	21.82	23.5	2	
15	16QAM	75	0	21.75	21.88	21.87			
15	64QAM	1	0	21.95	21.99	22.02			
15	64QAM	1	37	21.94	21.90	22.11	23.5	2	
15	64QAM	1	74	22.00	22.00	21.98			
15	64QAM	36	0	20.94	21.03	20.93			
15	64QAM	36	20	20.76	20.97	21.00	22.5	3	
15	64QAM	36	39	20.95	20.84	20.90			
15	64QAM	75	0	20.80	20.96	20.98			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2675	2695	2615			
10	QPSK	1	0	23.79	23.80	23.78	25.5	0	
10	QPSK	1	25	23.78	23.78	23.82			
10	QPSK	1	49	23.75	23.82	23.72			
10	QPSK	25	0	22.78	22.75	22.72	24.5	1	
10	QPSK	25	12	22.65	22.70	22.70			
10	QPSK	25	25	22.69	22.66	22.74			
10	QPSK	50	0	22.53	22.68	22.66	24.5	1	
10	16QAM	1	0	22.88	22.87	22.96			
10	16QAM	1	25	22.84	22.85	22.97			
10	16QAM	1	49	22.86	22.95	22.94	23.5	2	
10	16QAM	25	0	21.80	21.93	21.83			
10	16QAM	25	12	21.68	21.85	21.87			
10	16QAM	25	25	21.87	21.84	21.79	23.5	2	
10	16QAM	50	0	21.74	21.85	21.83			
10	64QAM	1	0	21.90	21.94	22.07			
10	64QAM	1	25	21.92	21.96	22.11	23.5	2	
10	64QAM	1	49	21.97	22.00	21.99			
10	64QAM	25	0	20.87	21.11	20.96			
10	64QAM	25	12	20.74	20.92	21.01	22.5	3	
10	64QAM	25	25	20.96	20.85	20.89			
10	64QAM	50	0	20.78	21.01	21.00			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	23.84	23.79	23.78	25.5	0	
5	QPSK	1	12	23.77	23.81	23.81			
5	QPSK	1	24	23.80	23.77	23.73			
5	QPSK	12	0	22.75	22.80	22.76	24.5	1	
5	QPSK	12	7	22.65	22.73	22.77			
5	QPSK	12	13	22.76	22.67	22.71			
5	QPSK	25	0	22.60	22.68	22.72	24.5	1	
5	16QAM	1	0	22.89	22.89	22.98			
5	16QAM	1	12	22.92	22.81	22.88			
5	16QAM	1	24	22.89	22.90	22.85	23.5	2	
5	16QAM	12	0	21.84	21.88	21.82			
5	16QAM	12	7	21.68	21.83	21.90			
5	16QAM	12	13	21.80	21.79	21.76	23.5	2	
5	16QAM	25	0	21.69	21.87	21.89			
5	64QAM	1	0	21.89	21.97	22.05			
5	64QAM	1	12	21.98	21.95	22.11	23.5	2	
5	64QAM	1	24	21.96	21.95	22.02			
5	64QAM	12	0	20.97	21.10	20.92			
5	64QAM	12	7	20.84	21.01	20.92	22.5	3	
5	64QAM	12	13	20.94	20.92	20.81			
5	64QAM	25	0	20.80	20.99	20.97			

Band 41 Ant4 Default power											
BW [MHz]	Modulation	RB Size	RB Offset	for IC Power Low Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	39750	40185	40620	41055	41490		
Frequency (MHz)				2510	2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.93	23.86	23.87	23.96	23.73	23.88	25.5	0
20	QPSK	1	49	23.72	23.66	23.70	23.77	23.65	23.71		
20	QPSK	1	99	23.66	23.67	23.69	23.71	23.67	23.65		
20	QPSK	50	0	22.91	22.88	22.86	22.94	22.81	22.87	24.5	1
20	QPSK	50	24	22.86	22.80	22.76	22.90	22.84	22.86		
20	QPSK	50	50	22.79	22.79	22.72	22.83	22.69	22.78		
20	QPSK	100	0	22.82	22.79	22.87	22.91	22.76	22.77	24.5	1
20	16QAM	1	0	22.98	23.03	23.02	23.04	23.00	22.95		
20	16QAM	1	49	22.87	22.90	22.92	23.01	22.87	22.88		
20	16QAM	1	99	22.67	22.71	22.78	22.75	22.74	22.72	23.5	2
20	16QAM	50	0	21.91	21.92	21.89	21.98	21.90	21.84		
20	16QAM	50	24	21.70	21.80	21.77	21.84	21.72	21.81		
20	16QAM	50	50	21.77	21.74	21.69	21.83	21.69	21.76	23.5	2
20	16QAM	100	0	21.80	21.75	21.79	21.87	21.80	21.77		
20	64QAM	1	0	21.68	21.67	21.71	21.77	21.74	21.63		
20	64QAM	1	49	21.70	21.70	21.73	21.84	21.79	21.78	23.5	2
20	64QAM	1	99	21.60	21.69	21.68	21.74	21.67	21.66		
20	64QAM	50	0	20.81	20.80	20.79	20.94	20.80	20.82		
20	64QAM	50	24	20.75	20.67	20.73	20.79	20.71	20.65	22.5	3
20	64QAM	50	50	20.71	20.76	20.73	20.81	20.68	20.72		
20	64QAM	100	0	20.80	20.75	20.79	20.83	20.73	20.79		
Channel				39765	39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	23.87	23.80	23.79	23.86	23.63	23.84	25.5	0
15	QPSK	1	37	23.65	23.61	23.57	23.69	23.60	23.57		
15	QPSK	1	74	23.57	23.62	23.64	23.63	23.59	23.53		
15	QPSK	36	0	22.80	22.85	22.77	22.82	22.73	22.83	24.5	1
15	QPSK	36	20	22.75	22.67	22.61	22.79	22.73	22.74		
15	QPSK	36	39	22.69	22.70	22.63	22.70	22.58	22.75		
15	QPSK	75	0	22.71	22.67	22.74	22.86	22.62	22.71	24.5	1
15	16QAM	1	0	22.94	22.90	22.92	22.95	22.86	22.89		
15	16QAM	1	37	22.75	22.77	22.85	22.90	22.82	22.79		
15	16QAM	1	74	22.63	22.66	22.56	22.72	22.66	22.68	23.5	2
15	16QAM	36	0	21.84	21.78	21.81	21.84	21.77	21.77		
15	16QAM	36	20	21.64	21.71	21.66	21.70	21.60	21.74		
15	16QAM	36	39	21.63	21.63	21.56	21.77	21.65	21.67	23.5	2
15	16QAM	75	0	21.71	21.69	21.67	21.80	21.73	21.68		
15	64QAM	1	0	21.64	21.54						



Reduced power level for WWAN DSI3

GSM850 Ant1 Default power									
GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	128	189	251		128	189	251		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	32.60	32.76	32.75	33.50	23.60	23.76	23.75	24.50	
GPRS 1 Tx slot	32.69	32.78	32.69	33.50	23.69	23.78	23.69	24.50	
GPRS 2 Tx slots	30.09	30.29	30.29	31.00	24.09	24.29	24.29	25.00	
GPRS 3 Tx slots	29.10	29.22	29.03	29.50	24.84	24.96	24.77	25.24	
GPRS 4 Tx slots	27.05	27.14	27.03	28.00	24.05	24.14	24.03	25.00	
EDGE 1 Tx slot	27.03	27.18	27.01	28.50	18.03	18.18	18.01	19.50	
EDGE 2 Tx slots	24.22	24.41	24.43	25.50	18.22	18.41	18.43	19.50	
EDGE 3 Tx slots	22.15	22.36	22.27	24.00	17.89	18.10	18.01	19.74	
EDGE 4 Tx slots	21.08	21.15	20.94	22.50	18.08	18.15	17.94	19.50	

GSM1900 Ant1 DSI3									
GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	512	661	810		512	661	810		
Frequency (MHz)	1850.2	1860	1899.8		1850.2	1860	1899.8		
GSM 1 Tx slot	25.71	25.75	25.66	26.50	16.71	16.75	16.68	17.50	
GPRS 1 Tx slot	25.76	25.78	25.72	26.50	16.76	16.78	16.72	17.50	
GPRS 2 Tx slots	22.83	22.81	22.76	23.50	16.83	16.81	16.76	17.50	
GPRS 3 Tx slots	20.75	20.80	20.73	22.00	16.49	16.54	16.47	17.74	
GPRS 4 Tx slots	19.69	19.68	19.64	20.50	16.69	16.68	16.64	17.50	
EDGE 1 Tx slot	22.23	22.29	22.31	23.50	13.23	13.29	13.31	14.50	
EDGE 2 Tx slots	18.97	18.95	18.91	20.50	12.97	12.95	12.91	14.50	
EDGE 3 Tx slots	17.41	17.31	17.25	19.00	13.15	13.05	12.99	14.74	
EDGE 4 Tx slots	15.84	15.83	15.86	17.50	12.84	12.83	12.86	14.50	

Band	WCDMA II Ant1 DSI3				Tune-up Limit (dBm)	WCDMA IV Ant1 DSI3			Tune-up Limit (dBm)	WCDMA V Ant1 DSI3			Tune-up Limit (dBm)
	9262	9400	9538	9662		1312	1413	1513		4132	4182	4233	
TX Channel	9262	9400	9538	9662		1312	1413	1513		4132	4182	4233	
Rx Channel	9662	9800	9938	1852.4		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	18.48	18.58	18.57	20.00	18.99	19.11	18.98	20.50	22.86	22.91	22.88	24.50
3GPP Rel 99	RMC 12.2Kbps	18.65	18.66	18.62	20.00	19.08	19.16	19.10	20.50	22.94	23.03	22.98	24.50
3GPP Rel 6	HSPA Subtest-1	17.27	17.61	17.71	19.00	18.29	18.16	18.33	19.50	22.14	22.24	21.99	23.50
3GPP Rel 6	HSPA Subtest-2	17.65	17.44	17.31	19.00	18.27	18.31	18.35	19.50	22.28	22.20	22.17	23.50
3GPP Rel 6	HSPA Subtest-3	16.98	17.23	17.02	18.50	17.79	17.97	17.75	19.00	21.38	21.66	21.68	23.00
3GPP Rel 6	HSPA Subtest-4	16.99	17.23	16.85	18.50	18.09	18.31	18.20	19.00	22.34	22.27	22.04	23.00
3GPP Rel 8	DC-HSPA Subtest-1	17.67	17.48	17.60	19.00	18.35	18.15	18.35	19.50	21.93	22.05	22.29	23.50
3GPP Rel 8	DC-HSPA Subtest-2	17.30	17.73	17.52	19.00	18.39	18.47	18.20	19.50	22.20	22.19	22.09	23.50
3GPP Rel 8	DC-HSPA Subtest-3	17.21	17.21	17.09	18.50	17.64	18.02	17.92	19.00	21.46	21.69	21.60	23.00
3GPP Rel 8	DC-HSPA Subtest-4	16.97	17.23	16.94	18.50	17.65	17.86	17.67	19.00	21.61	21.55	21.52	23.00
3GPP Rel 6	HSPA Subtest-1	17.37	17.57	17.70	19.00	18.15	18.17	18.28	19.50	21.87	22.14	22.20	23.50
3GPP Rel 6	HSPA Subtest-2	15.85	15.66	15.45	17.00	16.33	16.45	16.10	17.50	20.12	20.17	20.18	21.50
3GPP Rel 6	HSPA Subtest-3	16.61	16.89	16.40	18.00	17.23	17.28	17.20	18.50	20.96	21.13	21.23	22.50
3GPP Rel 6	HSPA Subtest-4	15.30	15.55	15.36	17.00	16.21	16.28	16.17	17.50	20.25	20.24	20.16	21.50
3GPP Rel 6	HSPA Subtest-5	17.55	17.85	17.77	19.00	18.15	18.04	18.36	19.50	22.12	22.06	22.15	23.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.13	15.25	15.14	16.50	15.79	15.68	15.81	17.00	19.72	19.64	19.63	21.00



Band 2 Ant1 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				18700	18900	19100				
Frequency (MHz)				1865	1872	1879				
20	QPSK	1	0	18.65	18.72	18.79	20.5	0		
20	QPSK	1	49	18.60	18.63	18.61				
20	QPSK	1	99	18.63	18.56	18.53				
20	QPSK	50	0	18.70	18.75	18.58				
20	QPSK	50	24	18.72	18.74	18.63				
20	QPSK	50	50	18.53	18.71	18.67				
20	QPSK	100	0	18.61	18.78	18.64				
20	16QAM	1	0	18.59	18.60	18.78				
20	16QAM	1	49	18.67	18.76	18.67				
20	16QAM	1	99	18.79	18.81	18.55				
20	16QAM	50	0	18.82	18.83	18.62				
20	16QAM	50	24	18.65	18.56	18.81				
20	16QAM	50	50	18.64	18.75	18.68				
20	16QAM	100	0	18.78	18.50	18.72				
20	64QAM	1	0	18.58	18.62	18.55				
20	64QAM	1	49	18.82	18.78	18.72				
20	64QAM	1	99	18.81	18.62	18.70				
20	64QAM	50	0	18.57	18.55	18.77				
20	64QAM	50	24	18.76	18.79	18.67				
20	64QAM	50	50	18.69	18.71	18.72				
20	64QAM	100	0	18.68	18.78	18.52				
Channel				19675	19900	19125				
Frequency (MHz)				1957.5	1980	1902.5				
15	QPSK	1	0	18.61	18.77	18.76	20.5	0		
15	QPSK	1	37	18.65	18.69	18.69				
15	QPSK	1	74	18.58	18.73	18.84				
15	QPSK	36	0	18.61	18.81	18.63				
15	QPSK	36	20	18.56	18.69	18.56				
15	QPSK	36	39	18.59	18.59	18.77				
15	QPSK	75	0	18.62	18.54	18.69				
15	16QAM	1	0	18.62	18.76	18.77				
15	16QAM	1	37	18.71	18.60	18.71				
15	16QAM	1	74	18.77	18.83	18.72				
15	16QAM	36	0	18.72	18.53	18.55				
15	16QAM	36	20	18.74	18.79	18.78				
15	16QAM	36	39	18.80	18.58	18.85				
15	16QAM	75	0	18.75	18.67	18.57				
15	64QAM	1	0	18.65	18.60	18.75				
15	64QAM	1	37	18.72	18.76	18.61				
15	64QAM	1	74	18.76	18.65	18.75				
15	64QAM	36	0	18.57	18.77	18.76				
15	64QAM	36	20	18.58	18.53	18.74				
15	64QAM	36	39	18.68	18.81	18.66				
15	64QAM	75	0	18.60	18.76	18.70				
Channel				19650	19900	19150				
Frequency (MHz)				1955	1980	1905				
10	QPSK	1	0	18.57	18.59	18.72	20.5	0		
10	QPSK	1	25	18.67	18.60	18.62				
10	QPSK	1	49	18.58	18.64	18.67				
10	QPSK	25	0	18.53	18.76	18.62				
10	QPSK	25	12	18.53	18.64	18.56				
10	QPSK	25	25	18.61	18.69	18.65				
10	QPSK	50	0	18.52	18.56	18.62				
10	16QAM	1	0	18.67	18.62	18.74				
10	16QAM	1	25	18.54	18.61	18.56				
10	16QAM	1	49	18.79	18.72	18.61				
10	16QAM	25	0	18.60	18.52	18.51				
10	16QAM	25	12	18.73	18.67	18.78				
10	16QAM	25	25	18.62	18.59	18.60				
10	16QAM	50	0	18.59	18.59	18.53				
10	64QAM	1	0	18.54	18.56	18.63				
10	64QAM	1	25	18.55	18.73	18.59				
10	64QAM	1	49	18.67	18.51	18.58				
10	64QAM	25	0	18.51	18.57	18.61				
10	64QAM	25	12	18.61	18.68	18.59				
10	64QAM	25	25	18.61	18.62	18.52				
10	64QAM	50	0	18.63	18.64	18.58				
Channel				19625	19900	19175				
Frequency (MHz)				1952.5	1980	1907.5				
5	QPSK	1	0	18.62	18.75	18.61	20.5	0		
5	QPSK	1	12	18.64	18.72	18.73				
5	QPSK	1	24	18.57	18.66	18.70				
5	QPSK	12	0	18.59	18.67	18.65				
5	QPSK	12	7	18.69	18.65	18.59				
5	QPSK	12	13	18.52	18.58	18.77				
5	QPSK	25	0	18.52	18.54	18.50				
5	16QAM	1	0	18.78	18.71	18.70				
5	16QAM	1	12	18.71	18.57	18.56				
5	16QAM	1	24	18.65	18.74	18.65				
5	16QAM	12	0	18.69	18.55	18.57				
5	16QAM	12	7	18.72	18.81	18.69				
5	16QAM	12	13	18.65	18.65	18.53				
5	16QAM	25	0	18.61	18.58	18.53				
5	64QAM	1	0	18.68	18.51	18.75				
5	64QAM	1	12	18.66	18.71	18.57				
5	64QAM	1	24	18.60	18.57	18.58				
5	64QAM	12	0	18.53	18.77	18.79				
5	64QAM	12	7	18.56	18.57	18.57				
5	64QAM	12	13	18.62	18.79	18.57				
5	64QAM	25	0	18.65	18.72	18.54				
Channel				19615	18900	19185				
Frequency (MHz)				1951.5	1980	1908.5				
3	QPSK	1	0	18.53	18.79	18.76	20.5	0		
3	QPSK	1	8	18.64	18.66	18.71				
3	QPSK	1	14	18.57	18.69	18.74				
3	QPSK	8	0	18.57	18.72	18.60				
3	QPSK	8	4	18.67	18.60	18.67				
3	QPSK	8	7	18.56	18.50	18.72				
3	QPSK	15	0	18.60	18.53	18.71				
3	16QAM	1	0	18.64	18.76	18.71				
3	16QAM	1	8	18.67	18.69	18.69				
3	16QAM	1	14	18.79	18.77	18.72				
3	16QAM	8	0	18.71	18.57	18.59				
3	16QAM	8	4	18.69	18.76	18.81				
3	16QAM	8	7	18.80	18.54	18.60				
3	16QAM	15	0	18.55	18.51	18.65				
3	64QAM	1	0	18.56	18.51	18.56				
3	64QAM	1	8	18.73	18.79	18.59				
3	64QAM	1	14	18.79	18.66	18.59				
3	64QAM	8	0	18.57	18.60	18.75				
3	64QAM	8	4	18.56	18.67	18.69				
3	64QAM	8	7	18.53	18.75	18.67				
3	64QAM	15	0	18.60	18.71	18.55				
Channel				19607	18900	19193				
Frequency (MHz)				1950.7	1980	1909.3				
1.4	QPSK	1	0	18.54	18.59	18.77	20.5	0		
1.4	QPSK	1	3	18.65	18.72	18.64				
1.4	QPSK	1	5	18.51	18.72	18.82				
1.4	QPSK	3	0	18.59	18.61	18.54				
1.4	QPSK	3	1	18.65	18.71	18.55				
1.4	QPSK	3	3	18.54	18.58	18.78				
1.4	QPSK	6	0	18.57	18.53	18.67				
1.4	16QAM	1	0	18.74	18.79	18.80				
1.4	16QAM	1	3	18.55	18.60	18.62				
1.4	16QAM	1	5	18.62	18.83	18.63				
1.4	16QAM	3	0	18.75	18.52	18.62				
1.4	16QAM	3	1	18.70	18.73	18.71				
1.4	16QAM	3	3	18.61	18.56	18.60				
1.4	16QAM	6	0	18.55	18.50	18.55				
1.4	64QAM	1	0	18.55	18.52	18.67				
1.4	64QAM	1	3	18.59	18.70	18.59				
1.4	64QAM	1	5	18.60	18.52	18.72				
1.4	64QAM	3	0	18.51	18.68	18.68				
1.4	64QAM	3	1	18.67	18.63	18.66				
1.4	64QAM	3	3	18.68	18.65	18.55				
1.4										



Band 5 Ant1 DS13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel				20450	20525	20600			
Frequency (MHz)									
10	QPSK	1	0	22.66	22.92	22.90			
10	QPSK	1	25	22.89	22.74	22.85	24.5	0	
10	QPSK	1	49	22.65	22.88	22.67			
10	QPSK	25	0	22.80	22.81	22.64			
10	QPSK	25	12	22.75	22.66	22.68	24.5	0	
10	QPSK	25	25	22.75	22.75	22.72			
10	QPSK	50	0	22.85	22.89	22.82			
10	16QAM	1	0	22.70	22.82	22.91			
10	16QAM	1	25	22.81	22.82	22.85	24.5	0	
10	16QAM	1	49	22.76	22.78	22.82			
10	16QAM	25	0	22.05	21.81	21.91			
10	16QAM	25	12	22.13	21.80	21.85	23.5	1	
10	16QAM	25	25	21.67	21.78	21.74			
10	16QAM	50	0	21.98	21.86	21.90			
10	64QAM	1	0	21.98	21.79	21.94			
10	64QAM	1	25	21.68	21.91	21.75	23.5	1	
10	64QAM	1	49	21.85	21.88	21.93			
10	64QAM	25	0	21.09	20.85	20.87			
10	64QAM	25	12	21.04	20.95	20.97	22.5	2	
10	64QAM	25	25	21.12	20.84	20.83			
10	64QAM	50	0	20.61	20.79	20.71			
Channel				20425	20525	20625	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	22.83	22.90	22.82			
5	QPSK	1	12	22.63	22.58	22.68	24.5	0	
5	QPSK	1	24	22.60	22.74	22.56			
5	QPSK	12	0	22.85	22.83	22.77			
5	QPSK	12	7	22.69	22.78	22.67	24.5	0	
5	QPSK	12	14	22.71	22.82	22.67			
5	QPSK	25	0	22.75	22.86	22.82			
5	16QAM	1	0	22.88	22.82	22.77			
5	16QAM	1	12	22.89	22.61	22.80	24.5	0	
5	16QAM	1	24	22.73	22.65	22.75			
5	16QAM	12	0	21.91	21.66	21.90			
5	16QAM	12	7	21.93	21.59	21.73	23.5	1	
5	16QAM	12	13	21.55	21.71	21.56			
5	16QAM	25	0	21.86	21.79	21.88			
5	64QAM	1	0	22.00	21.75	21.92			
5	64QAM	1	12	21.83	21.80	21.61	23.5	1	
5	64QAM	1	24	21.75	21.85	21.93			
5	64QAM	12	0	20.98	20.72	20.88			
5	64QAM	12	7	20.84	20.76	20.87	22.5	2	
5	64QAM	12	13	21.05	20.81	20.70			
5	64QAM	25	0	20.62	20.76	20.70			
Channel				20415	20525	20635	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				826.5	836.5	847.5			
3	QPSK	1	0	22.80	22.88	22.72			
3	QPSK	1	8	22.75	22.53	22.73	24.5	0	
3	QPSK	1	14	22.51	22.88	22.63			
3	QPSK	8	0	22.84	22.89	22.76			
3	QPSK	8	4	22.82	22.81	22.67	24.5	0	
3	QPSK	8	7	22.78	22.80	22.79			
3	QPSK	15	0	22.65	22.84	22.76			
3	16QAM	1	0	22.71	22.71	22.84			
3	16QAM	1	8	22.79	22.77	22.76	24.5	0	
3	16QAM	1	14	22.64	22.58	22.83			
3	16QAM	8	0	21.96	21.75	21.81			
3	16QAM	8	4	21.93	21.77	21.68	23.5	1	
3	16QAM	8	7	21.62	21.81	21.70			
3	16QAM	15	0	21.88	21.66	21.88			
3	64QAM	1	0	21.92	21.79	21.85			
3	64QAM	1	8	21.57	21.87	21.74	23.5	1	
3	64QAM	1	14	21.68	21.70	21.94			
3	64QAM	8	0	21.00	20.73	20.67			
3	64QAM	8	4	21.02	20.94	20.98	22.5	2	
3	64QAM	8	7	20.90	20.96	20.62			
3	64QAM	15	0	20.50	20.76	20.69			
Channel				20407	20525	20643	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	22.75	22.78	22.75			
1.4	QPSK	1	3	22.65	22.74	22.71	24.5	0	
1.4	QPSK	1	5	22.63	22.72	22.55			
1.4	QPSK	3	0	22.85	22.75	22.70			
1.4	QPSK	3	1	22.86	22.65	22.87			
1.4	QPSK	3	3	22.64	22.73	22.53			
1.4	QPSK	6	0	22.88	22.86	22.85	24.5	0	
1.4	16QAM	1	0	22.89	22.58	22.71			
1.4	16QAM	1	3	22.67	22.79	22.63	24.5	0	
1.4	16QAM	1	5	22.71	22.84	22.87			
1.4	16QAM	3	0	22.66	22.81	22.78			
1.4	16QAM	3	1	22.90	22.65	22.87			
1.4	16QAM	3	3	22.57	22.85	22.62			
1.4	16QAM	6	0	21.98	21.86	21.83	23.5	1	
1.4	64QAM	1	0	21.93	21.76	21.88			
1.4	64QAM	1	3	22.04	21.98	22.02			
1.4	64QAM	1	5	22.10	21.87	21.82	23.5	1	
1.4	64QAM	3	0	21.95	21.80	21.86			
1.4	64QAM	3	1	21.98	21.78	21.84			
1.4	64QAM	3	3	21.70	21.78	21.69			
1.4	64QAM	6	0	20.93	20.94	20.94	22.5	2	

Band 7 Ant1 DS13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)									
20	QPSK	1	0	17.97	18.16	18.11			
20	QPSK	1	49	18.13	18.10	18.15	19.5	0	
20	QPSK	1	99	17.80	17.85	17.88			
20	QPSK	50	0	17.94	18.09	17.96			
20	QPSK	50	24	17.96	17.91	18.07	19.5	0	
20	QPSK	50	50	18.00	17.97	17.96			
20	QPSK	100	0	17.96	18.06	17.97			
20	16QAM	1	0	17.95	18.01	18.04			
20	16QAM	1	49	18.03	18.10	18.05	19.5	0	
20	16QAM	1	99	18.07	17.87	18.08			
20	16QAM	50	0	17.96	18.03	17.92			
20	16QAM	50	24	17.98	18.00	18.04	19.5	0	
20	16QAM	50	50	18.08	18.01	18.01			
20	16QAM	100	0	17.83	17.89	17.81			
20	64QAM	1	0	17.95	18.12	18.12			
20	64QAM	1	49	18.07	17.94	17.94	19.5	0	
20	64QAM	1	99	17.81	17.84	17.86			
20	64QAM	50	0	18.10	18.04	18.04			
20	64QAM	50	24	17.94	18.09	18.01	19.5	0	
20	64QAM	50	50	18.04	18.02	18.10			
20	64QAM	100	0	17.88	17.96	17.89			
Channel				20825	21100	21375	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				2592.5	2535	2562.5			
15	QPSK	1	0	18.01	18.04	17.91			
15	QPSK	1	37	18.13	18.06	18.06	19.5	0	
15	QPSK	1	74	17.93	17.93	17.97			
15	QPSK	36	0	18.12	18.07	18.02			
15	QPSK	36	20	17.96	18.08	17.97	19.5	0	
15	QPSK	36	39	17.78	17.88	17.91			
15	QPSK	75	0	18.11	18.03	18.08			
15	16QAM	1	0	18.02	17.88	17.98			
15	16QAM	1	37	17.94	18.05	17.80	19.5	0	
15	16QAM	1	74	17.95	18.11	18.01			
15	16QAM	36	0	18.06	18.00	18.11			
15	16QAM	36	20	17.83	17.97	17.97	19.5	0	
15	16QAM	36	39	18.10	18.01	17.99			
15	16QAM	75	0	18.11	18.09	18.08			
15	64QAM	1	0	17.87	17.88	17.84			
15	64QAM	1	37	18.08	18.03	17.98	19.5	0	
15	64QAM	1	74	17.98	17.87	18.08			
15	64QAM	36	0	17.95	18.11	17.99			
15	64QAM	36	20	17.83	18.09	18.00	19.5	0	
15	64QAM	36	39	17.79	17.96	17.81			
15	64QAM	75	0	17.86	17.96	17.74			



Band 38 Ant1 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				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	19.80	20.02	19.90	21.5	0		
20	QPSK	1	49	19.88	19.80	19.83				
20	QPSK	1	99	19.89	19.69	19.87				
20	QPSK	50	0	19.79	19.95	19.85	21.5	0		
20	QPSK	50	24	19.79	19.77	19.77				
20	QPSK	50	50	19.89	19.71	19.83				
20	QPSK	100	0	19.84	19.89	19.81	21.5	0		
20	16QAM	1	0	19.76	19.70	19.79				
20	16QAM	1	49	19.94	19.89	19.79				
20	16QAM	1	99	19.93	19.89	19.86	21.5	0		
20	16QAM	50	0	19.85	19.80	19.77				
20	16QAM	50	24	19.74	19.68	19.84				
20	16QAM	50	50	19.84	19.89	19.71	21.5	0		
20	16QAM	100	0	19.79	19.80	19.94				
20	84QAM	1	0	19.77	19.95	19.80				
20	84QAM	1	49	19.77	19.85	19.90	21.5	0		
20	84QAM	1	99	19.81	19.69	19.70				
20	84QAM	50	0	19.88	19.81	19.78				
20	84QAM	50	24	19.87	19.85	19.85	21.5	0		
20	84QAM	50	50	19.88	19.84	19.97				
20	84QAM	100	0	19.93	19.90	19.91				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	19.81	19.81	19.88	21.5	0		
15	QPSK	1	37	19.82	19.78	19.94				
15	QPSK	1	74	19.86	19.83	19.81				
15	QPSK	36	0	19.88	19.79	19.78	21.5	0		
15	QPSK	36	20	19.98	19.67	19.88				
15	QPSK	36	39	19.74	19.92	19.85				
15	QPSK	75	0	19.73	19.76	19.87	21.5	0		
15	16QAM	1	0	19.83	19.79	19.89				
15	16QAM	1	37	19.84	19.77	19.61				
15	16QAM	1	74	19.89	19.84	19.86	21.5	0		
15	16QAM	36	0	19.86	19.78	19.71				
15	16QAM	36	20	19.78	19.85	19.95				
15	16QAM	36	39	19.93	19.97	19.78	21.5	0		
15	16QAM	75	0	19.89	19.85	19.90				
15	84QAM	1	0	19.74	19.91	19.81				
15	84QAM	1	37	19.72	19.98	19.84	21.5	0		
15	84QAM	1	74	19.78	19.84	19.83				
15	84QAM	36	0	19.72	19.82	19.78				
15	84QAM	36	20	19.76	19.83	19.83	21.5	0		
15	84QAM	36	39	19.87	19.90	19.97				
15	84QAM	75	0	19.88	19.91	19.83				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	19.89	19.93	19.83	21.5	0		
10	QPSK	1	25	19.80	19.65	19.83				
10	QPSK	1	49	19.81	19.73	19.70				
10	QPSK	25	0	19.79	19.96	19.96	21.5	0		
10	QPSK	25	12	19.86	19.72	19.77				
10	QPSK	25	25	19.88	19.98	19.97				
10	QPSK	50	0	19.90	19.80	19.92	21.5	0		
10	16QAM	1	0	19.76	19.72	19.85				
10	16QAM	1	25	19.80	19.83	19.65				
10	16QAM	1	49	19.96	19.96	19.91	21.5	0		
10	16QAM	25	0	19.98	19.70	19.73				
10	16QAM	25	12	19.88	19.85	19.94				
10	16QAM	25	25	19.81	19.92	19.90	21.5	0		
10	16QAM	50	0	19.87	19.82	19.80				
10	84QAM	1	0	19.86	19.85	19.78				
10	84QAM	1	25	19.83	19.69	19.86	21.5	0		
10	84QAM	1	49	19.98	19.88	19.89				
10	84QAM	25	0	19.71	19.94	19.80				
10	84QAM	25	12	19.74	19.80	19.83	21.5	0		
10	84QAM	25	25	19.89	19.78	19.87				
10	84QAM	50	0	19.88	19.83	19.89				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	19.86	19.68	19.96	21.5	0		
5	QPSK	1	12	19.74	19.60	19.82				
5	QPSK	1	24	19.86	19.75	19.78				
5	QPSK	12	0	19.93	19.98	19.81	21.5	0		
5	QPSK	12	7	19.85	19.63	19.86				
5	QPSK	12	13	19.94	19.90	19.81				
5	QPSK	25	0	19.78	19.94	19.99	21.5	0		
5	16QAM	1	0	19.84	19.79	19.75				
5	16QAM	1	12	19.98	19.94	19.81				
5	16QAM	1	24	19.92	19.99	19.92	21.5	0		
5	16QAM	12	0	19.87	19.80	19.85				
5	16QAM	12	7	19.79	19.66	19.79				
5	16QAM	12	13	19.82	19.87	19.77	21.5	0		
5	16QAM	25	0	19.89	19.79	19.83				
5	84QAM	1	0	19.69	19.96	19.85				
5	84QAM	1	12	19.78	19.97	19.88	21.5	0		
5	84QAM	1	24	19.75	19.86	19.91				
5	84QAM	12	0	19.81	19.86	19.77				
5	84QAM	12	7	19.88	19.99	19.87	21.5	0		
5	84QAM	12	13	19.91	19.90	19.97				
5	84QAM	25	0	19.84	19.90	19.94				

Band 41 Ant1 DSI3												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	19.97	20.07	20.18	20.09	20.08	21.5	0		
20	QPSK	1	49	19.77	19.98	19.86	19.93	19.85				
20	QPSK	1	99	19.77	19.88	20.02	19.86	19.86				
20	QPSK	50	0	19.86	20.00	20.10	20.02	19.96	21.5	0		
20	QPSK	50	24	19.89	19.83	19.95	19.82	19.94				
20	QPSK	50	50	19.76	19.73	19.96	19.69	19.69				
20	QPSK	100	0	19.93	19.91	20.03	20.01	19.98	21.5	0		
20	16QAM	1	0	19.82	19.89	19.92	19.80	19.97				
20	16QAM	1	49	19.71	19.79	19.96	19.70	19.80				
20	16QAM	1	99	19.84	19.98	20.09	20.08	20.10	21.5	0		
20	16QAM	50	0	19.75	19.96	19.87	20.01	19.86				
20	16QAM	50	24	19.75	19.83	19.87	19.69	19.75				
20	16QAM	50	50	19.87	20.07	20.15	20.07	20.13	21.5	0		
20	16QAM	100	0	19.94	19.93	20.03	20.01	19.88				
20	84QAM	1	0	19.76	19.90	19.85	19.80	19.73				
20	84QAM	1	49	19.88	20.05	20.12	20.00	19.98	21.5	0		
20	84QAM	1	99	19.74	19.96	19.86	19.97	19.86				
20	84QAM	50	0	19.92	19.81	19.83	19.83	19.81				
20	84QAM	50	24	19.91	19.87	20.15	20.10	20.15	21.5	0		
20	84QAM	50	50	19.72	19.89	19.86	19.97	19.89				
20	84QAM	100	0	19.80	19.95	19.88	19.86	19.86				
Channel				39725	40173	40620	41068	41515				
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	19.85	19.98	19.97	20.07	19.91	21.5	0		
15	QPSK	1	37	19.66	19.99	19.72	19.76	19.86				
15	QPSK	1	74	19.58	19.88	19.88	19.80	19.71				
15	QPSK	36	0	19.87	19.90	19.84	19.97	19.80	21.5	0		
15	QPSK	36	20	19.84	19.73	19.85	19.78	19.80				
15	QPSK	36	39	19.71	19.52	19.85	19.68	19.70				
15	QPSK	75	0	19.89	20.02	19.82	20.11	20.03	21.5	0		
15	16QAM	1	0	19.63	19.86	19.78	19.71	19.80				
15	16QAM	1	37	19.58	19.67	19.89	19.67	19.62				
15	16QAM	1	74	19.76	19.80	19.89	19.87	19.89	21.5	0		
15	16QAM	36	0	19.72	19.97	19.68	19.82	19.68				
15	16QAM	36	20	19.62	19.67	19.85	19.54	19.72				
15	16QAM	36	39	19.88	19.87	19.94	19.96	19.93	21.5			

Band 7 Ant2 Default power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350	24.5	0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	23.32	23.48	23.37	23.5	1
20	QPSK	1	49	23.28	23.21	23.34		
20	QPSK	1	99	23.22	23.35	23.41		
20	QPSK	50	0	22.39	22.57	22.43	23.5	1
20	QPSK	50	24	22.36	22.38	22.44		
20	QPSK	50	50	22.25	22.32	22.38		
20	QPSK	100	0	22.27	22.54	22.40	23.5	1
20	16QAM	1	0	22.58	22.46	22.60		
20	16QAM	1	49	22.52	22.43	22.57		
20	16QAM	1	99	22.40	22.48	22.35	22.5	2
20	16QAM	50	0	21.52	21.56	21.45		
20	16QAM	50	24	21.36	21.58	21.35		
20	16QAM	50	50	21.36	21.38	21.43	22.5	2
20	16QAM	100	0	21.45	21.38	21.39		
20	64QAM	1	0	21.51	21.42	21.48		
20	64QAM	1	49	21.29	21.45	21.28	22.5	2
20	64QAM	1	99	21.32	21.33	21.38		
20	64QAM	50	0	20.59	20.76	20.63		
20	64QAM	50	24	20.43	20.55	20.51	21.5	3
20	64QAM	50	50	20.58	20.51	20.54		
20	64QAM	100	0	20.32	20.31	20.39		
Channel				20825	21100	21375	24.5	0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	23.24	23.45	23.29	23.5	1
15	QPSK	1	37	23.29	23.16	23.31		
15	QPSK	1	74	23.21	23.33	23.31		
15	QPSK	36	0	22.39	22.50	22.40	23.5	1
15	QPSK	36	20	22.32	22.29	22.40		
15	QPSK	36	39	22.22	22.27	22.34		
15	QPSK	75	0	22.25	22.51	22.38	23.5	1
15	16QAM	1	0	22.54	22.45	22.61		
15	16QAM	1	37	22.44	22.34	22.51		
15	16QAM	1	74	22.33	22.47	22.32	22.5	2
15	16QAM	36	0	21.46	21.51	21.46		
15	16QAM	36	20	21.34	21.54	21.33		
15	16QAM	36	39	21.37	21.38	21.44	22.5	2
15	16QAM	75	0	21.40	21.29	21.37		
15	64QAM	1	0	21.41	21.32	21.39		
15	64QAM	1	37	21.19	21.36	21.28	22.5	2
15	64QAM	1	74	21.23	21.24	21.40		
15	64QAM	36	0	20.61	20.66	20.56		
15	64QAM	36	20	20.40	20.47	20.46	21.5	3
15	64QAM	36	39	20.55	20.45	20.50		
15	64QAM	75	0	20.32	20.29	20.34		
Channel				20800	21100	21400	24.5	0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	23.26	23.40	23.32	23.5	1
10	QPSK	1	25	23.29	23.14	23.32		
10	QPSK	1	49	23.21	23.36	23.43		
10	QPSK	25	0	22.38	22.57	22.37	23.5	1
10	QPSK	25	12	22.36	22.29	22.42		
10	QPSK	25	25	22.24	22.30	22.32		
10	QPSK	50	0	22.19	22.54	22.31	23.5	1
10	16QAM	1	0	22.57	22.42	22.60		
10	16QAM	1	25	22.48	22.39	22.56		
10	16QAM	1	49	22.36	22.49	22.35	22.5	2
10	16QAM	25	0	21.50	21.52	21.46		
10	16QAM	25	12	21.35	21.55	21.32		
10	16QAM	25	25	21.35	21.29	21.44	22.5	2
10	16QAM	50	0	21.37	21.40	21.30		
10	64QAM	1	0	21.44	21.33	21.47		
10	64QAM	1	25	21.30	21.47	21.20	22.5	2
10	64QAM	1	49	21.31	21.33	21.32		
10	64QAM	25	0	20.54	20.75	20.65		
10	64QAM	25	12	20.36	20.50	20.48	21.5	3
10	64QAM	25	25	20.58	20.46	20.48		
10	64QAM	50	0	20.34	20.30	20.35		
Channel				20775	21100	21425	24.5	0
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	23.29	23.38	23.35	23.5	1
5	QPSK	1	12	23.29	23.22	23.26		
5	QPSK	1	24	23.19	23.35	23.42		
5	QPSK	12	0	22.31	22.55	22.36	23.5	1
5	QPSK	12	7	22.33	22.37	22.41		
5	QPSK	12	13	22.24	22.33	22.35		
5	QPSK	25	0	22.18	22.46	22.36	23.5	1
5	16QAM	1	0	22.55	22.45	22.54		
5	16QAM	1	12	22.45	22.34	22.54		
5	16QAM	1	24	22.32	22.43	22.33	22.5	2
5	16QAM	12	0	21.46	21.52	21.42		
5	16QAM	12	7	21.35	21.49	21.36		
5	16QAM	12	13	21.30	21.36	21.37	22.5	2
5	16QAM	25	0	21.41	21.33	21.30		
5	64QAM	1	0	21.51	21.42	21.47		
5	64QAM	1	12	21.22	21.43	21.26	22.5	2
5	64QAM	1	24	21.33	21.24	21.31		
5	64QAM	12	0	20.54	20.77	20.63		
5	64QAM	12	7	20.41	20.48	20.45	21.5	3
5	64QAM	12	13	20.57	20.43	20.46		
5	64QAM	25	0	20.33	20.29	20.38		



Band 38 Ant2 Default power										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	23.32	23.40	23.35	24.5	0		
20	QPSK	1	49	23.21	23.14	23.25				
20	QPSK	1	99	23.13	23.34	23.32				
20	QPSK	50	0	22.36	22.58	22.38	23.5	1		
20	QPSK	50	24	22.27	22.39	22.39				
20	QPSK	50	50	22.17	22.25	22.36				
20	QPSK	100	0	22.27	22.46	22.31	23.5	1		
20	16QAM	1	0	22.27	22.18	22.33				
20	16QAM	1	49	22.24	22.13	22.35				
20	16QAM	1	99	22.15	22.21	22.05	22.5	2		
20	16QAM	50	0	21.32	21.27	21.15				
20	16QAM	50	24	21.13	21.33	21.11				
20	16QAM	50	50	21.12	21.08	21.15	22.5	2		
20	16QAM	100	0	21.23	21.07	21.10				
20	84QAM	1	0	21.27	21.11	21.21				
20	84QAM	1	49	21.00	21.24	21.01	22.5	2		
20	84QAM	1	99	21.02	20.93	21.16				
20	84QAM	50	0	20.29	20.54	20.43				
20	84QAM	50	24	20.48	20.32	20.42	21.5	3		
20	84QAM	50	50	20.34	20.30	20.28				
20	84QAM	100	0	20.05	20.09	19.98				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	23.18	23.36	23.26	24.5	0		
15	QPSK	1	37	23.10	23.01	23.20				
15	QPSK	1	74	23.05	23.22	23.18				
15	QPSK	36	0	22.22	22.49	22.33	23.5	1		
15	QPSK	36	20	22.21	22.26	22.29				
15	QPSK	36	39	22.03	22.20	22.21				
15	QPSK	75	0	22.12	22.37	22.27	23.5	1		
15	16QAM	1	0	22.15	22.13	22.28				
15	16QAM	1	37	22.11	22.00	22.24				
15	16QAM	1	74	22.10	22.07	21.93	22.5	2		
15	16QAM	36	0	21.27	21.19	21.06				
15	16QAM	36	20	20.98	21.25	21.01				
15	16QAM	36	39	21.04	21.02	21.04	22.5	2		
15	16QAM	75	0	21.16	20.92	21.04				
15	84QAM	1	0	21.21	21.01	21.12				
15	84QAM	1	37	20.92	21.13	20.92	22.5	2		
15	84QAM	1	74	20.93	20.88	21.01				
15	84QAM	36	0	20.21	20.40	20.28				
15	84QAM	36	20	20.38	20.28	20.31	21.5	3		
15	84QAM	36	39	20.21	20.20	20.10				
15	84QAM	75	0	19.91	19.99	19.83				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	23.22	23.28	23.29	24.5	0		
10	QPSK	1	25	23.17	23.06	23.17				
10	QPSK	1	49	23.05	23.19	23.27				
10	QPSK	25	0	22.29	22.51	22.26	23.5	1		
10	QPSK	25	12	22.15	22.23	22.30				
10	QPSK	25	25	22.11	22.09	22.24				
10	QPSK	50	0	22.18	22.36	22.19	23.5	1		
10	16QAM	1	0	22.15	22.11	22.18				
10	16QAM	1	25	22.10	22.06	22.31				
10	16QAM	1	49	22.08	22.10	21.90	22.5	2		
10	16QAM	25	0	21.24	21.20	21.03				
10	16QAM	25	12	21.06	21.20	20.96				
10	16QAM	25	25	21.01	20.94	21.03	22.5	2		
10	16QAM	50	0	21.17	20.95	20.94				
10	84QAM	1	0	21.22	21.05	21.14				
10	84QAM	1	25	20.88	21.16	20.91	22.5	2		
10	84QAM	1	49	20.91	20.82	21.09				
10	84QAM	25	0	20.18	20.50	20.34				
10	84QAM	25	12	20.42	20.17	20.32	21.5	3		
10	84QAM	25	25	20.25	20.24	20.10				
10	84QAM	50	0	19.99	19.99	19.83				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	23.24	23.31	23.22	24.5	0		
5	QPSK	1	12	23.16	23.08	23.14				
5	QPSK	1	24	23.01	23.24	23.26				
5	QPSK	12	0	22.22	22.42	22.25	23.5	1		
5	QPSK	12	7	22.22	22.24	22.28				
5	QPSK	12	13	22.03	22.17	22.27				
5	QPSK	25	0	22.13	22.33	22.22	23.5	1		
5	16QAM	1	0	22.17	22.04	22.19				
5	16QAM	1	12	22.09	22.09	22.27				
5	16QAM	1	24	22.10	22.07	22.01	22.5	2		
5	16QAM	12	0	21.25	21.19	21.07				
5	16QAM	12	7	21.03	21.29	20.98				
5	16QAM	12	13	21.01	20.98	21.00	22.5	2		
5	16QAM	25	0	21.17	20.97	21.02				
5	84QAM	1	0	21.19	21.05	21.12				
5	84QAM	1	12	20.87	21.16	20.95	22.5	2		
5	84QAM	1	24	20.98	20.80	21.09				
5	84QAM	12	0	20.24	20.47	20.32				
5	84QAM	12	7	20.36	20.16	20.38	21.5	3		
5	84QAM	12	13	20.30	20.15	20.17				
5	84QAM	25	0	19.99	20.00	19.86				

Band 41 Ant2 Default power												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	23.86	23.85	23.96	23.69	23.89	25	0		
20	QPSK	1	49	23.68	23.67	23.75	23.71	23.74				
20	QPSK	1	99	23.73	23.64	23.66	23.81	23.67				
20	QPSK	50	0	22.87	22.88	22.93	22.81	22.86	24	1		
20	QPSK	50	24	22.78	22.76	22.86	22.80	22.92				
20	QPSK	50	50	22.77	22.76	22.85	22.66	22.78				
20	QPSK	100	0	22.79	22.84	22.91	22.78	22.81	24	1		
20	16QAM	1	0	23.03	22.97	23.09	22.96	22.96				
20	16QAM	1	49	22.84	22.94	23.06	22.84	22.85				
20	16QAM	1	99	22.76	22.74	22.76	22.79	22.75	23	2		
20	16QAM	50	0	21.87	21.84	22.00	21.93	21.85				
20	16QAM	50	24	21.86	21.75	21.81	21.78	21.78				
20	16QAM	50	50	21.77	21.72	21.85	21.71	21.81	23	2		
20	16QAM	100	0	21.81	21.81	21.83	21.81	21.78				
20	84QAM	1	0	21.70	21.73	21.78	21.78	21.62				
20	84QAM	1	49	21.74	21.69	21.79	21.74	21.73	23	2		
20	84QAM	1	99	21.70	21.73	21.74	21.64	21.66				
20	84QAM	50	0	20.83	20.78	20.99	20.78	20.76				
20	84QAM	50	24	20.70	20.71	20.77	20.68	20.71	22	3		
20	84QAM	50	50	20.75	20.78	20.81	20.66	20.76				
20	84QAM	100	0	20.80	20.77	20.81	20.73	20.82				
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2692.5				
15	QPSK	1	0	23.71	23.71	23.88	23.62	23.77	25.00	0		
15	QPSK	1	37	23.59	23.61	23.69	23.59	23.61				
15	QPSK	1	74	23.64	23.54	23.62	23.73	23.59				
15	QPSK	36	0	22.78	22.78	22.79	22.71	22.71	24	1		
15	QPSK	36	20	22.72	22.71	22.78	22.68	22.77				
15	QPSK	36	39	22.62	22.63	22.81	22.50	22.69				
15	QPSK	75	0	22.74	22.78	22.80	22.63	22.73	24	1		
15	16QAM	1	0	22.89	22.88	22.96	22.82	22.84				
15	16QAM	1	37	22.80	22.82	23.01	22.71	22.76				
15	16QAM	1	74	22.66	22.68	22.69	22.66	22.66	23	2		
15	16QAM	36	0	21.73	21.74	21.						



GSM850 Ant4 Default power

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	33.01	33.07	32.85	33.50	24.01	24.07	23.85	24.50
GPRS 1 Tx slot	33.11	33.12	33.09	33.50	24.11	24.12	24.09	24.50
GPRS 2 Tx slot	30.46	30.61	30.52	31.00	24.46	24.61	24.52	25.00
GPRS 3 Tx slot	29.23	29.26	29.19	29.50	24.97	25.00	24.93	25.24
GPRS 4 Tx slot	27.66	27.68	27.67	28.00	24.66	24.68	24.67	25.00
EDGE 1 Tx slot	27.79	27.82	27.73	28.50	18.79	18.82	18.73	19.50
EDGE 2 Tx slot	25.03	25.07	24.95	25.50	19.03	19.07	18.95	19.50
EDGE 3 Tx slot	23.11	23.04	22.85	24.00	18.85	18.78	18.59	19.74
EDGE 4 Tx slot	21.98	21.92	21.76	22.50	18.98	18.92	18.76	19.50

GSM1900 Ant4 Default power

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.54	29.74	29.58	30.50	20.54	20.74	20.58	21.50
GPRS 1 Tx slot	29.62	29.79	29.59	30.50	20.62	20.79	20.59	21.50
GPRS 2 Tx slot	26.04	26.22	26.03	27.50	20.04	20.22	20.03	21.50
GPRS 3 Tx slot	24.22	24.21	24.21	26.00	19.96	19.95	19.95	21.74
GPRS 4 Tx slot	23.21	23.25	23.24	24.50	20.21	20.25	20.24	21.50
EDGE 1 Tx slot	26.08	26.08	26.00	27.50	17.08	17.08	17.00	18.50
EDGE 2 Tx slot	23.09	23.14	23.14	24.50	17.09	17.14	17.14	18.50
EDGE 3 Tx slot	21.87	21.98	21.86	23.00	17.81	17.70	17.60	18.74
EDGE 4 Tx slot	20.61	20.69	20.53	21.50	17.61	17.69	17.53	18.50

WCDMA II Ant4 Default power

WCDMA IV Ant4 Default power

WCDMA V Ant4 Default power

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4357	4407	4458		
TX Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458		
Rx Channel	9524	9660	9796		1724	1823	1923		4294	4354	4403		
Frequency (MHz)	1852.4	1860	1867.6		1724	1823	1923		4294	4354	4403		
3GPP Rel 99	AMR 12.2Kbps	23.98	24.06	24.02	25.00	23.78	23.61	23.77	25.00	24.08	24.22	24.15	25.50
3GPP Rel 99	RMC 12.2Kbps	24.06	24.12	24.08	25.00	23.86	23.87	23.84	25.00	24.28	24.31	24.29	25.50
3GPP Rel 6	HSDPA Subtest-1	23.13	23.02	22.90	24.00	22.90	22.83	22.70	24.00	23.24	23.48	23.33	24.50
3GPP Rel 6	HSDPA Subtest-2	22.94	22.96	22.98	24.00	22.86	22.84	22.83	24.00	23.24	23.18	23.47	24.50
3GPP Rel 6	HSDPA Subtest-3	22.86	22.53	22.57	23.50	22.39	22.20	22.36	23.50	22.89	22.90	22.89	24.00
3GPP Rel 6	HSDPA Subtest-4	22.60	22.75	22.60	23.50	22.17	22.29	22.20	23.50	22.80	22.68	22.80	24.00
3GPP Rel 6	DC-HSDPA Subtest-1	22.93	23.02	23.11	24.00	22.99	22.99	22.95	24.00	23.22	23.35	23.31	24.50
3GPP Rel 6	DC-HSDPA Subtest-2	22.94	23.08	23.24	24.00	22.89	22.89	22.86	24.00	23.32	23.21	23.35	24.50
3GPP Rel 6	DC-HSDPA Subtest-3	22.63	22.64	22.60	23.50	22.37	22.33	22.29	23.50	22.70	22.96	22.73	24.00
3GPP Rel 6	DC-HSDPA Subtest-4	22.47	22.76	22.70	23.50	22.36	22.24	22.39	23.50	22.77	22.86	22.84	24.00
3GPP Rel 6	HSUPA Subtest-1	22.88	23.21	22.97	24.00	22.93	22.74	22.74	24.00	23.26	23.24	23.35	24.50
3GPP Rel 6	HSUPA Subtest-2	20.96	21.11	21.20	22.00	20.80	20.86	20.93	22.00	21.18	21.25	21.31	22.50
3GPP Rel 6	HSUPA Subtest-3	21.93	22.12	21.93	23.00	21.80	21.89	21.67	23.00	22.31	22.32	22.27	23.50
3GPP Rel 6	HSUPA Subtest-4	21.13	21.21	21.15	22.00	20.88	20.90	20.72	22.00	21.35	21.43	21.34	22.50
3GPP Rel 6	HSUPA Subtest-5	23.00	23.13	23.06	24.00	22.68	23.01	22.89	24.00	23.12	23.29	23.43	24.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.45	20.52	20.55	21.50	20.36	20.38	20.35	21.50	20.87	20.87	20.90	22.00



Band 2 Ant4 Default power														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	24.24	24.26	24.20	25	0						
20	QPSK	1	49	24.14	24.12	24.25								
20	QPSK	1	99	24.05	24.02	24.15								
20	QPSK	50	0	23.19	23.23	23.21								
20	QPSK	50	24	23.15	23.16	23.12								
20	QPSK	50	50	23.05	23.09	23.08	24	1						
20	QPSK	100	0	23.10	23.10	23.05								
20	16QAM	1	0	23.10	23.12	23.11								
20	16QAM	1	49	23.04	23.06	23.08								
20	16QAM	1	99	23.01	22.97	22.97								
20	16QAM	50	0	22.27	22.28	22.37	23	2						
20	16QAM	50	24	22.00	22.30	22.10								
20	16QAM	50	50	22.12	22.08	22.19								
20	16QAM	100	0	21.70	21.85	21.70								
20	64QAM	1	0	22.18	22.21	22.26								
20	64QAM	1	49	21.93	22.22	22.03	23	2						
20	64QAM	1	99	22.08	21.98	22.08								
20	64QAM	50	0	21.43	21.48	21.51								
20	64QAM	50	24	21.45	21.49	21.43								
20	64QAM	50	50	21.37	21.34	21.69								
20	64QAM	100	0	21.30	21.40	21.38	22	3						
Channel														
Frequency (MHz)														
15	QPSK	1	0	24.17	24.11	24.07					25	0		
15	QPSK	1	37	24.08	24.04	24.14								
15	QPSK	1	74	23.94	23.95	24.06								
15	QPSK	36	0	23.09	23.12	23.16								
15	QPSK	36	20	23.01	23.10	23.00								
15	QPSK	36	39	22.91	22.98	22.94	24	1						
15	QPSK	75	0	22.98	23.12	22.92								
15	16QAM	1	0	22.98	22.98	23.00								
15	16QAM	1	37	22.94	22.96	23.02								
15	16QAM	1	74	22.88	22.89	22.82								
15	16QAM	36	0	22.18	22.14	22.25	23	2						
15	16QAM	36	20	21.85	22.20	21.95								
15	16QAM	36	39	22.00	22.00	22.06								
15	16QAM	75	0	21.58	21.74	21.63								
15	64QAM	1	0	22.07	22.08	22.18								
15	64QAM	1	37	21.86	22.10	21.90	23	2						
15	64QAM	1	74	21.99	21.84	21.96								
15	64QAM	36	0	21.38	21.36	21.40								
15	64QAM	36	20	21.38	21.39	21.30								
15	64QAM	36	39	21.28	21.28	21.56								
15	64QAM	75	0	21.30	21.36	21.35	22	3						
Channel														
Frequency (MHz)														
10	QPSK	1	0	24.10	24.17	24.08					25	0		
10	QPSK	1	25	24.08	24.03	24.18								
10	QPSK	1	49	23.97	23.96	24.07								
10	QPSK	25	0	23.12	23.13	23.10								
10	QPSK	25	12	23.04	23.04	22.98								
10	QPSK	25	25	22.93	22.96	22.99	24	1						
10	QPSK	50	0	22.96	23.12	22.97								
10	16QAM	1	0	22.97	22.98	23.02								
10	16QAM	1	25	22.93	22.93	23.00								
10	16QAM	1	49	22.91	22.86	22.86								
10	16QAM	25	0	22.13	22.19	22.26	23	2						
10	16QAM	25	12	21.94	22.16	21.98								
10	16QAM	25	25	22.05	21.97	22.10								
10	16QAM	50	0	21.81	21.73	21.82								
10	64QAM	1	0	22.13	22.14	22.23								
10	64QAM	1	25	21.87	22.12	21.93	23	2						
10	64QAM	1	49	21.99	21.87	22.02								
10	64QAM	25	0	21.31	21.34	21.42								
10	64QAM	25	12	21.36	21.42	21.29								
10	64QAM	25	25	21.32	21.42	21.56								
10	64QAM	50	0	21.30	21.35	21.33	22	3						
Channel														
Frequency (MHz)														
5	QPSK	1	0	24.12	24.11	24.06					25	0		
5	QPSK	1	12	24.09	23.99	24.14								
5	QPSK	1	24	23.95	23.90	24.03								
5	QPSK	12	0	23.10	23.14	23.18								
5	QPSK	12	7	23.01	23.05	22.97								
5	QPSK	12	13	22.98	23.02	22.94	24	1						
5	QPSK	25	0	23.00	23.06	23.00								
5	16QAM	1	0	23.01	22.98	23.01								
5	16QAM	1	12	22.95	22.93	23.00								
5	16QAM	1	24	22.94	22.82	22.87								
5	16QAM	12	0	22.13	22.18	22.27	23	2						
5	16QAM	12	7	21.90	22.24	21.98								
5	16QAM	12	13	22.03	22.00	22.07								
5	16QAM	25	0	21.63	21.78	21.84								
5	64QAM	1	0	22.10	22.12	22.19								
5	64QAM	1	12	21.88	22.10	21.92	23	2						
5	64QAM	1	24	22.00	21.86	22.01								
5	64QAM	12	0	21.37	21.40	21.45								
5	64QAM	12	7	21.32	21.43	21.36								
5	64QAM	12	13	21.25	21.32	21.55								
5	64QAM	25	0	21.30	21.34	21.35	22	3						
Channel														
Frequency (MHz)														
3	QPSK	1	0	24.18	24.13	24.14					25	0		
3	QPSK	1	8	24.06	24.02	24.14								
3	QPSK	1	14	23.92	23.91	24.01								
3	QPSK	8	0	23.13	23.16	23.18								
3	QPSK	8	4	23.08	23.08	23.06								
3	QPSK	8	7	22.99	22.96	23.02	24	1						
3	QPSK	15	0	23.01	23.12	22.92								
3	16QAM	1	0	23.03	22.99	23.03								
3	16QAM	1	8	22.96	22.98	22.94								
3	16QAM	1	14	22.95	22.87	22.85								
3	16QAM	8	0	22.16	22.17	22.27	23	2						
3	16QAM	8	4	21.93	22.19	22.04								
3	16QAM	8	7	21.98	21.94	22.07								
3	16QAM	15	0	21.64	21.75	21.64								
3	64QAM	1	0	22.07	22.14	22.15								
3	64QAM	1	8	21.87	22.12	21.95	23	2						
3	64QAM	1	14	22.00	21.92	21.94								
3	64QAM	8	0	21.37	21.39	21.36								
3	64QAM	8	4	21.34	21.38	21.26								
3	64QAM	8	7	21.29	21.23	21.55								
3	64QAM	15	0	21.31	21.34	21.34	22	3						
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	24.14	24.17	24.13					25	0		
1.4	QPSK	1	3	24.05	23.98	24.17								
1.4	QPSK	1	5	23.98	23.92	24.07								
1.4	QPSK	3	0	24.13	24.07	24.13								
1.4	QPSK	3	1	24.06	24.11	23.98								
1.4	QPSK	3	3	23.96	24.03	23.94	24	1						
1.4	QPSK	6	0	23.05	23.13	22.98								
1.4	16QAM	1	0	22.97	22.98	23.04								
1.4	16QAM	1	3	22.94	22.98	22.94								
1.4	16QAM	1	5	22.92	22.91	22.85								
1.4	16QAM	3	0	23.17	23.13	23.32	24	1						
1.4	16QAM	3	1	23.24	23.16	22.97								
1.4	16QAM	3	3	22.98	22.98	23.11								
1.4	16QAM	6	0	21.61	21.79	21.61								
1.4	64QAM	1	0	22.04	22.08	22.20								
1.4	64QAM	1	3	21.85	22.09	21.97	23	2						
1.4	64QAM	1	5	22.02	21.87	21.99								
1.4	64QAM	3	0	22.34	22.42	22.43								
1.4	64QAM	3	1	22.34	22.41	22.35								
1.4	64QAM	3	3	22.26	22.29	22.56								
1.4	64QAM	6	0	21.30	21.35	21.34	22	3						

Band 4 Ant4 Default power										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.98	24.14	23.86	25	0		
20	QPSK	1	49	23.96	24.02	23.91				
20	QPSK	1	99	23.76	23.87	23.78				
20	QPSK	50	0	22.89	23.02	22.89				
20	QPSK	50	24	22.89	23.01	22.94				
20	QPSK	50	50	22.86	22.97	22.91	24	1		
20	QPSK	100	0	22.90	22.93	22.86				
20	16QAM	1	0	23.06	23.14	23.07				
20	16QAM	1	49	23.06	23.20	23.11				
20	16QAM	1	99	22.96	22.99	22.94				
20	16QAM	50	0	21.86	22.01	21.92	23	2		
20	16QAM	50	24	21.92	21.99	21.85				
20	16QAM	50	50	21.88	21.97	21.83				
20	16QAM	100	0	21.85	22.03	21.90				
20	64QAM	1	0	21.88	22.02	21.92				
20	64QAM	1	49	22.00	22.13	22.09	23	2		
20	64QAM	1	99	21.92	21.97	21.87				
20	64QAM	50	0	20.91	21.03	20.99				
20	64QAM	50	2							



Band 5 Ant4 Default power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23450	23525	23600			
Frequency (MHz)				829	835	841			
10	QPSK	1	0	24.15	24.24	24.16			
10	QPSK	1	25	24.00	23.96	24.03	25.5	0	
10	QPSK	1	49	23.92	23.79	23.97			
10	QPSK	25	0	22.98	23.13	23.10			
10	QPSK	25	12	22.96	22.96	22.98	24.5	1	
10	QPSK	25	25	22.88	22.95	22.89			
10	16QAM	1	0	22.98	23.09	22.92			
10	16QAM	1	25	22.90	22.85	22.90	24.5	1	
10	16QAM	1	49	22.80	22.83	22.75			
10	16QAM	25	0	22.06	22.13	22.21			
10	16QAM	25	12	21.86	22.13	21.95	23.5	2	
10	16QAM	25	25	21.97	21.87	22.04			
10	64QAM	1	0	22.00	22.05	22.07			
10	64QAM	1	25	21.77	22.04	21.83	23.5	2	
10	64QAM	1	49	21.92	21.81	21.90			
10	64QAM	25	0	21.21	21.07	21.37			
10	64QAM	25	12	21.30	21.34	21.29	22.5	3	
10	64QAM	25	25	21.19	21.15	21.51			
10	64QAM	50	0	20.83	20.84	20.70			
Channel				23425	23525	23625	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829.5	836.5	846.5			
5	QPSK	1	0	23.98	24.11	24.00			
5	QPSK	1	12	23.84	23.79	23.93	25.5	0	
5	QPSK	1	24	23.76	23.61	23.79			
5	QPSK	12	0	22.83	22.93	22.95			
5	QPSK	12	7	22.79	22.83	22.88	24.5	1	
5	QPSK	12	13	22.70	22.86	22.76			
5	QPSK	25	0	22.74	22.93	22.79			
5	16QAM	1	0	22.77	22.77	22.78			
5	16QAM	1	12	22.71	22.66	22.72	24.5	1	
5	16QAM	1	24	22.64	22.67	22.64			
5	16QAM	12	0	21.90	21.96	22.04			
5	16QAM	12	7	21.71	21.96	21.76	23.5	2	
5	16QAM	12	13	21.81	21.74	21.89			
5	16QAM	25	0	22.04	22.14	22.09			
5	64QAM	1	0	21.88	21.87	21.92			
5	64QAM	1	12	21.57	21.87	21.71	23.5	2	
5	64QAM	1	24	21.80	21.64	21.74			
5	64QAM	12	0	21.02	20.88	21.27			
5	64QAM	12	7	21.12	21.17	21.16	22.5	3	
5	64QAM	12	13	21.06	20.96	21.34			
5	64QAM	25	0	20.64	20.61	20.51			
Channel				23415	23525	23635	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829.5	836.5	847.5			
3	QPSK	1	0	23.98	24.07	23.99			
3	QPSK	1	8	23.88	23.82	23.89	25.5	0	
3	QPSK	1	14	23.77	23.68	23.82			
3	QPSK	8	0	22.86	22.98	22.91			
3	QPSK	8	4	22.88	22.76	22.88	24.5	1	
3	QPSK	8	7	22.70	22.84	22.73			
3	QPSK	15	0	22.68	22.95	22.76			
3	16QAM	1	0	22.68	22.70	22.70			
3	16QAM	1	8	22.77	22.69	22.79	24.5	1	
3	16QAM	1	14	22.61	22.69	22.59			
3	16QAM	8	0	21.87	22.01	22.11			
3	16QAM	8	4	21.73	21.95	21.80	23.5	2	
3	16QAM	8	7	21.62	21.88	21.81			
3	16QAM	15	0	22.06	22.23	22.09			
3	64QAM	1	0	21.86	21.90	21.93			
3	64QAM	1	8	21.60	21.85	21.70	23.5	2	
3	64QAM	1	14	21.80	21.67	21.76			
3	64QAM	8	0	21.02	20.89	21.27			
3	64QAM	8	4	21.17	21.17	21.10	22.5	3	
3	64QAM	8	7	21.06	21.02	21.38			
3	64QAM	15	0	20.71	20.68	20.50			
Channel				23407	23525	23643	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	23.95	24.07	24.05			
1.4	QPSK	1	3	23.87	23.81	23.90	25.5	0	
1.4	QPSK	1	5	23.80	23.62	23.83			
1.4	QPSK	3	0	23.78	23.96	23.95			
1.4	QPSK	3	1	23.77	23.84	23.88			
1.4	QPSK	3	7	23.72	23.75	23.72			
1.4	16QAM	6	0	22.72	22.93	22.78	24.5	1	
1.4	16QAM	1	0	22.70	22.74	22.74			
1.4	16QAM	1	3	22.71	22.69	22.78			
1.4	16QAM	1	5	22.67	22.67	22.58	24.5	1	
1.4	16QAM	3	0	22.93	23.03	23.10			
1.4	16QAM	3	1	22.68	22.95	22.80			
1.4	16QAM	3	3	22.86	22.67	22.92			
1.4	16QAM	6	0	22.00	22.21	22.04	23.5	2	
1.4	64QAM	1	0	21.90	21.92	21.96			
1.4	64QAM	1	3	21.61	21.93	21.71			
1.4	64QAM	1	5	21.80	21.62	21.78	23.5	2	
1.4	64QAM	3	0	22.10	21.90	22.28			
1.4	64QAM	3	1	22.13	22.17	22.18			
1.4	64QAM	3	3	22.08	22.02	22.40			
1.4	64QAM	6	0	20.69	20.68	20.52	22.5	3	

Band 7 Ant4 Default power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20650	21100	21950			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	23.79	23.85	23.83			
20	QPSK	1	49	23.74	23.72	23.70	25.5	0	
20	QPSK	1	99	23.59	23.67	23.64			
20	QPSK	50	0	22.63	22.72	22.69			
20	QPSK	50	24	22.62	22.66	22.65	24.5	1	
20	QPSK	50	50	22.59	22.62	22.61			
20	16QAM	1	0	22.86	22.90	22.97			
20	16QAM	1	49	22.79	22.88	22.81	24.5	1	
20	16QAM	1	99	22.70	22.83	22.76			
20	16QAM	50	0	21.75	21.84	21.80			
20	16QAM	50	24	21.66	21.69	21.67	23.5	2	
20	16QAM	50	50	21.69	21.75	21.64			
20	64QAM	1	0	21.94	22.04	22.06			
20	64QAM	1	49	21.95	22.03	21.86	23.5	2	
20	64QAM	1	99	21.83	21.94	21.81			
20	64QAM	50	0	20.90	20.99	20.86			
20	64QAM	50	24	20.77	20.76	20.70	22.5	3	
20	64QAM	50	50	20.75	20.82	20.71			
20	64QAM	100	0	20.88	20.94	20.77			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	23.80	23.81	23.78			
15	QPSK	1	37	23.66	23.71	23.67	25.5	0	
15	QPSK	1	74	23.57	23.64	23.64			
15	QPSK	36	0	22.62	22.71	22.65			
15	QPSK	36	20	22.58	22.56	22.66	24.5	1	
15	QPSK	36	39	22.58	22.63	22.54			
15	QPSK	75	0	22.57	22.88	22.67			
15	16QAM	1	0	22.77	22.88	22.94			
15	16QAM	1	37	22.71	22.83	22.81	24.5	1	
15	16QAM	1	74	22.66	22.76	22.75			
15	16QAM	36	0	21.70	21.75	21.77			
15	16QAM	36	20	21.62	21.61	21.61	23.5	2	
15	16QAM	36	39	21.62	21.65	21.56			
15	16QAM	75	0	21.67	21.78	21.64			
15	64QAM	1	0	21.89	21.97	22.08			
15	64QAM	1	37	21.89	21.95	21.85	23.5	2	
15	64QAM	1	74	21.73	21.93	21.78			
15	64QAM	36	0	20.91	20.99	20.86			
15	64QAM	36	20	20.71	20.68	20.65	22.5	3	
15	64QAM	36	39	20.71	20.65	20.61			
15	64QAM	75	0	20.94	20.94	20.77			
Channel				20990	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	23.70	23.84	23.73			
10	QPSK	1</							



Band 38 Ant4 Default power										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	23.84	23.86	23.83	25.5	0		
20	QPSK	1	49	23.78	23.79	23.81				
20	QPSK	1	99	23.80	23.83	23.77				
20	QPSK	50	0	22.78	22.83	22.76	24.5	1		
20	QPSK	50	24	22.71	22.76	22.79				
20	QPSK	50	50	22.75	22.70	22.72				
20	QPSK	100	0	22.61	22.74	22.72	24.5	1		
20	16QAM	1	0	22.92	22.94	22.96				
20	16QAM	1	49	22.91	22.89	22.96				
20	16QAM	1	99	22.88	22.94	22.92	23.5	2		
20	16QAM	50	0	21.88	21.95	21.86				
20	16QAM	50	24	21.77	21.92	21.91				
20	16QAM	50	50	21.88	21.84	21.84	23.5	2		
20	16QAM	100	0	21.76	21.87	21.88				
20	84QAM	1	0	21.96	22.01	22.10				
20	84QAM	1	49	21.98	21.97	22.11	23.5	2		
20	84QAM	1	99	22.03	22.02	22.05				
20	84QAM	50	0	20.96	21.09	20.94				
20	84QAM	50	24	20.83	21.00	21.00	22.5	3		
20	84QAM	50	50	21.02	20.93	20.90				
20	84QAM	100	0	20.84	21.03	21.01				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	23.82	23.84	23.82	25.5	0		
15	QPSK	1	37	23.76	23.78	23.75				
15	QPSK	1	74	23.74	23.81	23.77				
15	QPSK	36	0	22.78	22.73	22.71	24.5	1		
15	QPSK	36	20	22.73	22.68	22.79				
15	QPSK	36	39	22.71	22.71	22.70				
15	QPSK	75	0	22.61	22.72	22.73	24.5	1		
15	16QAM	1	0	22.92	22.90	22.91				
15	16QAM	1	37	22.86	22.86	22.98				
15	16QAM	1	74	22.81	22.84	22.85	23.5	2		
15	16QAM	36	0	21.81	21.88	21.85				
15	16QAM	36	20	21.69	21.85	21.89				
15	16QAM	36	39	21.79	21.84	21.82	23.5	2		
15	16QAM	75	0	21.75	21.88	21.87				
15	84QAM	1	0	21.95	21.99	22.02				
15	84QAM	1	37	21.94	21.90	22.11	23.5	2		
15	84QAM	1	74	22.00	22.00	21.98				
15	84QAM	36	0	20.94	21.03	20.93				
15	84QAM	36	20	20.76	20.97	21.00	22.5	3		
15	84QAM	36	39	20.95	20.84	20.90				
15	84QAM	75	0	20.80	20.96	20.98				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	23.79	23.80	23.76	25.5	0		
10	QPSK	1	25	23.78	23.78	23.82				
10	QPSK	1	49	23.75	23.82	23.72				
10	QPSK	25	0	22.78	22.75	22.72	24.5	1		
10	QPSK	25	12	22.65	22.70	22.70				
10	QPSK	25	25	22.69	22.66	22.74				
10	QPSK	50	0	22.53	22.68	22.66	24.5	1		
10	16QAM	1	0	22.88	22.87	22.96				
10	16QAM	1	25	22.84	22.85	22.97				
10	16QAM	1	49	22.86	22.95	22.94	23.5	2		
10	16QAM	25	0	21.80	21.93	21.83				
10	16QAM	25	12	21.68	21.85	21.87				
10	16QAM	25	25	21.87	21.84	21.79	23.5	2		
10	16QAM	50	0	21.74	21.85	21.83				
10	84QAM	1	0	21.90	21.94	22.07				
10	84QAM	1	25	21.92	21.96	22.11	23.5	2		
10	84QAM	1	49	21.97	22.00	21.99				
10	84QAM	25	0	20.87	21.11	20.96				
10	84QAM	25	12	20.74	20.92	21.01	22.5	3		
10	84QAM	25	25	20.96	20.85	20.89				
10	84QAM	50	0	20.78	21.01	21.00				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	23.84	23.79	23.78	25.5	0		
5	QPSK	1	12	23.77	23.81	23.81				
5	QPSK	1	24	23.80	23.77	23.73				
5	QPSK	12	0	22.75	22.80	22.76	24.5	1		
5	QPSK	12	7	22.65	22.73	22.77				
5	QPSK	12	13	22.76	22.67	22.71				
5	QPSK	25	0	22.60	22.68	22.72	24.5	1		
5	16QAM	1	0	22.89	22.89	22.98				
5	16QAM	1	12	22.92	22.81	22.88				
5	16QAM	1	24	22.89	22.90	22.85	23.5	2		
5	16QAM	12	0	21.84	21.88	21.82				
5	16QAM	12	7	21.68	21.83	21.90				
5	16QAM	12	13	21.80	21.79	21.76	23.5	2		
5	16QAM	25	0	21.69	21.87	21.89				
5	84QAM	1	0	21.89	21.97	22.05				
5	84QAM	1	12	21.98	21.95	22.11	23.5	2		
5	84QAM	1	24	21.96	21.95	22.02				
5	84QAM	12	0	20.97	21.10	20.92				
5	84QAM	12	7	20.84	21.01	20.92	22.5	3		
5	84QAM	12	13	20.94	20.92	20.81				
5	84QAM	25	0	20.80	20.99	20.97				

Band 41 Ant4 Default power												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	23.86	23.87	23.96	23.73	23.88	25.5	0		
20	QPSK	1	49	23.66	23.70	23.77	23.65	23.71				
20	QPSK	1	99	23.67	23.69	23.71	23.67	23.65				
20	QPSK	50	0	22.88	22.86	22.94	22.81	22.87	24.5	1		
20	QPSK	50	24	22.80	22.76	22.90	22.84	22.86				
20	QPSK	50	50	22.79	22.72	22.83	22.69	22.78				
20	QPSK	100	0	22.79	22.87	22.91	22.76	22.77	24.5	1		
20	16QAM	1	0	23.03	23.02	23.04	23.00	22.95				
20	16QAM	1	49	22.90	22.92	23.01	22.87	22.88				
20	16QAM	1	99	22.71	22.78	22.75	22.74	22.72	23.5	2		
20	16QAM	50	0	21.92	21.89	21.98	21.90	21.84				
20	16QAM	50	24	21.80	21.77	21.84	21.72	21.81				
20	16QAM	50	50	21.74	21.69	21.83	21.69	21.76	23.5	2		
20	16QAM	100	0	21.75	21.79	21.87	21.80	21.77				
20	84QAM	1	0	21.67	21.71	21.77	21.74	21.63				
20	84QAM	1	49	21.70	21.73	21.84	21.79	21.78	23.5	2		
20	84QAM	1	99	21.69	21.68	21.74	21.67	21.66				
20	84QAM	50	0	20.80	20.79	20.94	20.80	20.82				
20	84QAM	50	24	20.67	20.73	20.79	20.71	20.65	22.5	3		
20	84QAM	50	50	20.76	20.73	20.81	20.68	20.72				
20	84QAM	100	0	20.75	20.79	20.83	20.73	20.79				
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2692.5				
15	QPSK	1	0	23.80	23.79	23.86	23.63	23.84	25.50	0		
15	QPSK	1	37	23.61	23.57	23.69	23.60	23.57				
15	QPSK	1	74	23.62	23.64	23.63	23.59	23.53				
15	QPSK	36	0	22.85	22.77	22.82	22.73	22.83	24.5	1		
15	QPSK	36	20	22.67	22.61	22.79	22.73	22.74				
15	QPSK	36	39	22.70	22.63	22.70	22.58	22.75				
15	QPSK	75	0	22.67	22.74	22.86	22.62	22.71	24.5	1		
15	16QAM	1	0	22.90	22.92	22.95	22.86	22.89				
15	16QAM	1	37	22.77	22.85	22.90	22.82	22.79				
15	16QAM	1	74	22.66	22.56	22.72	22.66	22.68	23.5	2		
15	16QAM	36	0	21.78	21.81	21.84	21.77	21.77				
15	16QAM	36	20	21.71	21.68	21.70	21.60	21.74				
15	16QAM	36	39	21.63	21.56	2						



Reduced power level for WWAN DS14

GSM850 Ant1 Default power

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.60	32.76	32.75	33.50	23.60	23.76	23.75	24.50
GPRS 1 Tx slot	32.69	32.78	32.69	33.50	23.69	23.78	23.69	24.50
GPRS 2 Tx slots	30.09	30.29	30.29	31.00	24.09	24.29	24.29	25.00
GPRS 3 Tx slots	29.10	29.22	29.03	29.50	24.84	24.96	24.77	25.24
GPRS 4 Tx slots	27.05	27.14	27.03	28.00	24.05	24.14	24.03	25.00
EDGE 1 Tx slot	27.03	27.18	27.01	28.50	18.03	18.18	18.01	19.50
EDGE 2 Tx slots	24.22	24.41	24.43	25.50	18.22	18.41	18.43	19.50
EDGE 3 Tx slots	22.15	22.36	22.27	24.00	17.89	18.10	18.01	19.74
EDGE 4 Tx slots	21.08	21.15	20.94	22.50	18.08	18.15	17.94	19.50

GSM1900 Ant1 DS4

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1860	1899.8		1850.2	1860	1899.8	
GSM 1 Tx slot	25.51	25.55	25.49	26.50	16.51	16.55	16.48	17.50
GPRS 1 Tx slot	25.56	25.58	25.52	26.50	16.56	16.58	16.52	17.50
GPRS 2 Tx slots	22.63	22.61	22.56	23.50	16.63	16.61	16.56	17.50
GPRS 3 Tx slots	20.65	20.60	20.53	22.00	16.29	16.34	16.27	17.74
GPRS 4 Tx slots	19.49	19.48	19.44	20.50	16.49	16.48	16.44	17.50
EDGE 1 Tx slot	22.03	22.09	22.11	23.50	13.03	13.09	13.11	14.50
EDGE 2 Tx slots	18.77	18.75	18.71	20.50	12.77	12.75	12.71	14.50
EDGE 3 Tx slots	17.21	17.11	17.05	19.00	12.95	12.85	12.79	14.74
EDGE 4 Tx slots	15.64	15.63	15.66	17.50	12.64	12.63	12.66	14.50

WCDMA II Ant1 DS4

WCDMA IV Ant1 DS4

WCDMA V Ant1 DS4

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	18.48	18.58	18.57	20.00	18.99	19.11	18.98	20.50	22.86	22.91	22.88	24.50
3GPP Rel 99	RVC 12.2Kbps	18.65	18.66	18.62	20.00	19.08	19.16	19.10	20.50	22.94	23.03	22.98	24.50
3GPP Rel 6	HSPA Subtest-1	17.27	17.61	17.71	19.00	18.29	18.16	18.33	19.50	22.14	22.24	21.99	23.50
3GPP Rel 6	HSPA Subtest-2	17.65	17.44	17.31	19.00	18.27	18.31	18.35	19.50	22.28	22.20	22.17	23.50
3GPP Rel 6	HSDPA Subtest-3	16.98	17.23	17.02	18.50	17.79	17.97	17.75	19.00	21.38	21.66	21.68	23.00
3GPP Rel 6	HSDPA Subtest-4	16.99	17.23	16.85	18.50	18.09	18.31	18.20	19.00	22.34	22.27	22.04	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	17.67	17.48	17.60	19.00	18.35	18.15	18.35	19.50	21.93	22.05	22.29	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	17.30	17.73	17.52	19.00	18.39	18.47	18.20	19.50	22.20	22.19	22.09	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	17.21	17.21	17.09	18.50	17.64	18.02	17.92	19.00	21.46	21.69	21.60	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	16.97	17.23	16.94	18.50	17.65	17.86	17.67	19.00	21.61	21.55	21.52	23.00
3GPP Rel 6	HSPA Subtest-1	17.37	17.57	17.70	19.00	18.15	18.17	18.28	19.50	21.87	22.14	22.20	23.50
3GPP Rel 6	HSPA Subtest-2	15.85	15.66	15.45	17.00	16.33	16.45	16.10	17.50	20.12	20.17	20.18	21.50
3GPP Rel 6	HSPA Subtest-3	16.51	16.59	16.40	18.00	17.23	17.28	17.20	18.50	20.96	21.13	21.23	22.50
3GPP Rel 6	HSPA Subtest-4	15.30	15.55	15.36	17.00	16.21	16.28	16.17	17.50	20.25	20.24	20.16	21.60
3GPP Rel 6	HSPA Subtest-5	17.55	17.85	17.77	19.00	18.15	18.04	18.36	19.50	22.12	22.06	22.15	23.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.13	15.25	15.14	16.50	15.79	15.68	15.81	17.00	19.72	19.64	19.63	21.00



Band 2 Ant1 DS14										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				1870	1890	1910				
20	QPSK	1	0	18.65	18.87	18.72				
20	QPSK	1	49	18.60	18.63	18.61	20.5	0		
20	QPSK	1	99	18.63	18.56	18.53				
20	QPSK	50	0	18.70	18.75	18.58				
20	QPSK	50	24	18.72	18.74	18.63				
20	QPSK	50	50	18.53	18.71	18.67	20.5	0		
20	QPSK	100	0	18.61	18.78	18.64				
20	16QAM	1	0	18.59	18.60	18.78				
20	16QAM	1	49	18.67	18.76	18.57	20.5	0		
20	16QAM	1	99	18.79	18.81	18.55				
20	16QAM	50	0	18.82	18.83	18.62				
20	16QAM	50	24	18.65	18.56	18.81				
20	16QAM	50	50	18.64	18.75	18.68	20.5	0		
20	16QAM	100	0	18.78	18.50	18.72				
20	64QAM	1	0	18.56	18.62	18.55				
20	64QAM	1	49	18.82	18.78	18.72	20.5	0		
20	64QAM	1	99	18.81	18.62	18.70				
20	64QAM	50	0	18.57	18.55	18.71				
20	64QAM	50	24	18.76	18.79	18.67	20.5	0		
20	64QAM	50	50	18.69	18.71	18.72				
20	64QAM	100	0	18.56	18.78	18.52				
Channel										
Frequency (MHz)				1867.5	1890	1912.5				
15	QPSK	1	0	18.61	18.77	18.76				
15	QPSK	1	37	18.65	18.69	18.69	20.5	0		
15	QPSK	1	74	18.58	18.73	18.84				
15	QPSK	36	0	18.61	18.81	18.63				
15	QPSK	36	20	18.56	18.69	18.56	20.5	0		
15	QPSK	36	39	18.59	18.66	18.77				
15	QPSK	75	0	18.62	18.54	18.69				
15	16QAM	1	0	18.82	18.76	18.77				
15	16QAM	1	37	18.71	18.60	18.71	20.5	0		
15	16QAM	1	74	18.77	18.83	18.72				
15	16QAM	36	0	18.72	18.53	18.55				
15	16QAM	36	20	18.74	18.91	18.78	20.5	0		
15	16QAM	36	39	18.60	18.58	18.65				
15	16QAM	75	0	18.75	18.57	18.57				
15	64QAM	1	0	18.65	18.60	18.75				
15	64QAM	1	37	18.72	18.76	18.61	20.5	0		
15	64QAM	1	74	18.76	18.65	18.75				
15	64QAM	36	0	18.57	18.77	18.76				
15	64QAM	36	20	18.58	18.53	18.74	20.5	0		
15	64QAM	36	39	18.68	18.81	18.66				
15	64QAM	75	0	18.60	18.76	18.70				
Channel										
Frequency (MHz)				1865	1890	1915				
10	QPSK	1	0	18.57	18.59	18.72				
10	QPSK	1	25	18.67	18.60	18.62	20.5	0		
10	QPSK	1	49	18.58	18.64	18.67				
10	QPSK	25	0	18.53	18.76	18.62				
10	QPSK	25	12	18.53	18.64	18.56	20.5	0		
10	QPSK	25	25	18.51	18.69	18.65				
10	QPSK	50	0	18.52	18.56	18.62				
10	16QAM	1	0	18.67	18.62	18.74				
10	16QAM	1	25	18.54	18.61	18.56	20.5	0		
10	16QAM	1	49	18.79	18.72	18.61				
10	16QAM	25	0	18.60	18.52	18.51				
10	16QAM	25	12	18.73	18.67	18.78	20.5	0		
10	16QAM	25	25	18.82	18.59	18.60				
10	16QAM	50	0	18.59	18.59	18.53				
10	64QAM	1	0	18.54	18.56	18.53	20.5	0		
10	64QAM	1	25	18.65	18.73	18.59				
10	64QAM	1	49	18.67	18.51	18.58				
10	64QAM	25	0	18.51	18.57	18.61				
10	64QAM	25	12	18.61	18.68	18.59	20.5	0		
10	64QAM	25	25	18.51	18.62	18.52				
10	64QAM	50	0	18.63	18.64	18.58				
Channel										
Frequency (MHz)				1862.5	1890	1917.5				
5	QPSK	1	0	18.62	18.75	18.61				
5	QPSK	1	12	18.64	18.72	18.73	20.5	0		
5	QPSK	1	24	18.57	18.66	18.70				
5	QPSK	12	0	18.59	18.67	18.65				
5	QPSK	12	7	18.69	18.65	18.58	20.5	0		
5	QPSK	12	13	18.52	18.58	18.77				
5	QPSK	25	0	18.52	18.54	18.50				
5	16QAM	1	0	18.78	18.71	18.70				
5	16QAM	1	12	18.71	18.57	18.56	20.5	0		
5	16QAM	1	24	18.65	18.74	18.65				
5	16QAM	12	0	18.69	18.55	18.57				
5	16QAM	12	7	18.72	18.81	18.66	20.5	0		
5	16QAM	12	13	18.65	18.65	18.53				
5	16QAM	25	0	18.61	18.58	18.53				
5	64QAM	1	0	18.68	18.51	18.75				
5	64QAM	1	12	18.66	18.71	18.57	20.5	0		
5	64QAM	1	24	18.60	18.57	18.58				
5	64QAM	12	0	18.53	18.77	18.79				
5	64QAM	12	7	18.66	18.57	18.57	20.5	0		
5	64QAM	12	13	18.52	18.79	18.57				
5	64QAM	25	0	18.65	18.72	18.54				
Channel										
Frequency (MHz)				1851.5	1890	1918.5				
3	QPSK	1	0	18.53	18.79	18.76				
3	QPSK	1	8	18.64	18.66	18.71	20.5	0		
3	QPSK	1	14	18.57	18.69	18.74				
3	QPSK	8	0	18.57	18.72	18.60				
3	QPSK	8	4	18.57	18.60	18.57	20.5	0		
3	QPSK	8	7	18.56	18.50	18.72				
3	QPSK	15	0	18.60	18.53	18.71				
3	16QAM	1	0	18.64	18.76	18.71				
3	16QAM	1	8	18.67	18.59	18.69	20.5	0		
3	16QAM	1	14	18.79	18.77	18.72				
3	16QAM	8	0	18.71	18.57	18.59				
3	16QAM	8	4	18.69	18.78	18.81	20.5	0		
3	16QAM	8	7	18.80	18.54	18.90				
3	16QAM	15	0	18.65	18.51	18.65				
3	64QAM	1	0	18.56	18.51	18.56				
3	64QAM	1	8	18.73	18.79	18.59	20.5	0		
3	64QAM	1	14	18.79	18.66	18.59				
3	64QAM	8	0	18.57	18.60	18.75				
3	64QAM	8	4	18.50	18.57	18.66	20.5	0		
3	64QAM	8	7	18.53	18.75	18.67				
3	64QAM	15	0	18.80	18.71	18.55				
Channel										
Frequency (MHz)				1850.7	1890	1909.3				
1.4	QPSK	1	0	18.54	18.59	18.77				
1.4	QPSK	1	3	18.65	18.72	18.64	20.5	0		
1.4	QPSK	1	5	18.51	18.72	18.82				
1.4	QPSK	3	0	18.59	18.61	18.54				
1.4	QPSK	3	1	18.55	18.71	18.55				
1.4	QPSK	3	3	18.54	18.58	18.79				
1.4	QPSK	6	0	18.57	18.53	18.67	20.5	0		
1.4	16QAM	1	0	18.74	18.79	18.80				
1.4	16QAM	1	3	18.65	18.60	18.62	20.5	0		
1.4	16QAM	1	5	18.62	18.83	18.63				
1.4	16QAM	3	0	18.75	18.52	18.62				
1.4	16QAM	3	1	18.70	18.73	18.71	20.5	0		
1.4	16QAM	3	3	18.61	18.56	18.60				
1.4	16QAM	6	0	18.55	18.50	18.55	20.5	0		
1.4	64QAM	1	0	18.55	18.52	18.67				
1.4	64QAM	1	3	18.59	18.70	18.59				
1.4	64QAM	1	5	18.60	18.52	18.72	20.5	0		
1.4	64QAM	3	0	18.51	18.68	18.68				
1.4	64QAM	3								



Band 5 Ant1 DS14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20450	20525	20600			
Frequency (MHz)				825	835	844			
10	QPSK	1	0	22.85	22.82	22.90			
10	QPSK	1	25	22.89	22.74	22.85	24.5	0	
10	QPSK	1	49	22.65	22.88	22.67			
10	QPSK	25	0	22.80	22.81	22.64			
10	QPSK	25	12	22.75	22.66	22.68	24.5	0	
10	QPSK	25	25	22.75	22.75	22.72			
10	QPSK	50	0	22.85	22.89	22.82			
10	16QAM	1	0	22.70	22.82	22.91			
10	16QAM	1	25	22.81	22.82	22.85	24.5	0	
10	16QAM	1	49	22.76	22.78	22.82			
10	16QAM	25	0	22.05	21.81	21.91			
10	16QAM	25	12	22.13	21.80	21.85			
10	16QAM	25	25	21.67	21.78	21.74	23.5	1	
10	16QAM	50	0	21.98	21.86	21.90			
10	64QAM	1	0	21.98	21.79	21.94			
10	64QAM	1	25	21.68	21.91	21.75	23.5	1	
10	64QAM	1	49	21.85	21.86	21.93			
10	64QAM	25	0	21.09	20.85	20.87			
10	64QAM	25	12	21.04	20.95	20.97	22.5	2	
10	64QAM	25	25	21.12	20.84	20.83			
10	64QAM	50	0	20.61	20.79	20.71			
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	22.83	22.90	22.82			
5	QPSK	1	12	22.63	22.58	22.68	24.5	0	
5	QPSK	1	24	22.60	22.74	22.56			
5	QPSK	12	0	22.85	22.83	22.77			
5	QPSK	12	7	22.69	22.78	22.87	24.5	0	
5	QPSK	12	13	22.71	22.82	22.87			
5	QPSK	25	0	22.75	22.86	22.82			
5	16QAM	1	0	22.86	22.82	22.77			
5	16QAM	1	12	22.89	22.61	22.80	24.5	0	
5	16QAM	1	24	22.73	22.65	22.75			
5	16QAM	12	0	21.91	21.66	21.90			
5	16QAM	12	7	21.93	21.59	21.73	23.5	1	
5	16QAM	12	13	21.55	21.71	21.58			
5	16QAM	25	0	21.86	21.77	21.86			
5	64QAM	1	0	22.00	21.75	21.92			
5	64QAM	1	12	21.63	21.80	21.61	23.5	1	
5	64QAM	1	24	21.75	21.85	21.93			
5	64QAM	12	0	20.98	20.72	20.88			
5	64QAM	12	7	20.84	20.76	20.87	22.5	2	
5	64QAM	12	13	21.05	20.81	20.70			
5	64QAM	25	0	20.62	20.73	20.70			
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	22.80	22.88	22.72			
3	QPSK	1	8	22.75	22.53	22.73	24.5	0	
3	QPSK	1	14	22.51	22.88	22.63			
3	QPSK	8	0	22.84	22.89	22.76			
3	QPSK	8	4	22.82	22.81	22.67	24.5	0	
3	QPSK	8	7	22.76	22.80	22.79			
3	QPSK	15	0	22.85	22.84	22.76			
3	16QAM	1	0	22.71	22.71	22.84			
3	16QAM	1	8	22.79	22.77	22.76	24.5	0	
3	16QAM	1	14	22.64	22.58	22.83			
3	16QAM	8	0	21.96	21.75	21.81			
3	16QAM	8	4	21.93	21.77	21.68	23.5	1	
3	16QAM	8	7	21.82	21.61	21.70			
3	16QAM	15	0	21.88	21.66	21.88			
3	64QAM	1	0	21.92	21.79	21.85	23.5	1	
3	64QAM	1	8	21.57	21.87	21.74			
3	64QAM	1	14	21.68	21.70	21.94			
3	64QAM	8	0	21.00	20.73	20.67			
3	64QAM	8	4	21.02	20.94	20.98	22.5	2	
3	64QAM	8	7	20.90	20.66	20.62			
3	64QAM	15	0	20.50	20.76	20.69			
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	22.75	22.78	22.75			
1.4	QPSK	1	3	22.65	22.74	22.71	24.5	0	
1.4	QPSK	1	5	22.63	22.72	22.85			
1.4	QPSK	3	0	22.85	22.75	22.70			
1.4	QPSK	3	1	22.86	22.65	22.87			
1.4	QPSK	3	3	22.64	22.73	22.53			
1.4	QPSK	6	0	22.88	22.86	22.85	24.5	0	
1.4	16QAM	1	0	22.89	22.58	22.71			
1.4	16QAM	1	3	22.67	22.79	22.63			
1.4	16QAM	1	5	22.71	22.84	22.87	24.5	0	
1.4	16QAM	3	0	22.66	22.81	22.78			
1.4	16QAM	3	1	22.90	22.65	22.87			
1.4	16QAM	3	3	22.57	22.85	22.62			
1.4	16QAM	6	0	21.96	21.86	21.83	23.5	1	
1.4	64QAM	1	0	21.93	21.76	21.88			
1.4	64QAM	1	3	22.04	21.98	22.02			
1.4	64QAM	1	5	22.10	21.87	21.82	23.5	1	
1.4	64QAM	3	0	21.95	21.80	21.96			
1.4	64QAM	3	1	21.99	21.79	21.84			
1.4	64QAM	3	3	21.70	21.78	21.69			
1.4	64QAM	6	0	20.93	20.94	20.94	22.5	2	

Band 7 Ant1 DS14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	17.87	18.16	18.11			
20	QPSK	1	49	18.13	18.10	18.15	19.5	0	
20	QPSK	1	99	17.80	17.85	17.88			
20	QPSK	50	0	17.94	18.09	17.96			
20	QPSK	50	24	17.96	17.91	18.07	19.5	0	
20	QPSK	50	50	18.00	17.97	17.96			
20	QPSK	100	0	17.96	18.06	17.97			
20	16QAM	1	0	17.95	18.01	18.04			
20	16QAM	1	49	18.03	18.10	18.05	19.5	0	
20	16QAM	1	99	18.07	17.87	18.08			
20	16QAM	50	0	17.96	18.03	17.92			
20	16QAM	50	24	17.98	18.00	18.04	19.5	0	
20	16QAM	50	50	18.09	18.01	18.01			
20	16QAM	100	0	17.83	17.99	17.81			
20	64QAM	1	0	17.95	18.12	18.12			
20	64QAM	1	49	18.07	17.94	17.94	19.5	0	
20	64QAM	1	99	17.81	17.84	17.86			
20	64QAM	50	0	18.10	18.04	18.04			
20	64QAM	50	24	17.94	18.09	18.01	19.5	0	
20	64QAM	50	50	18.04	18.02	18.10			
20	64QAM	100	0	17.98	17.98	17.89			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	18.01	18.04	17.91			
15	QPSK	1	37	18.13	18.06	18.06	19.5	0	
15	QPSK	1	74	17.93	17.93	17.97			
15	QPSK	36	0	18.12	18.07	18.02			
15	QPSK	36	20	17.96	18.08	17.97	19.5	0	
15	QPSK	36	39	17.78	18.02	17.91			
15	QPSK	75	0	17.93	18.03	18.06			
15	16QAM	1	0	18.02	17.88	17.99			
15	16QAM	1	37	17.94	18.05	17.80	19.5	0	
15	16QAM	1	74	17.95	18.11	18.01			
15	16QAM	36	0	18.06	18.00	18.11			
15	16QAM	36	20	17.83	17.97	17.97	19.5	0	
15	16QAM	36	39	18.10	18.01	17.89			
15	16QAM	75	0	18.11	18.09	18.08			
15	64QAM	1	0	17.87	17.88	17.84			
15	64QAM	1	37	18.08	18.03	17.98	19.5	0	
15	64QAM	1	74	17.98	17.87	18.08			
15	64QAM	36	0	17.95	18.11	17.99			
15	64QAM	36	20	17.93	18.09	18.00	19.5	0	
15	64QAM	36	39	17.79	17.96	17.81			



Band 38 Ant1 DSI4										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	19.80	20.02	19.90	21.5	0		
20	QPSK	1	49	19.88	19.80	19.83				
20	QPSK	1	99	19.89	19.69	19.87				
20	QPSK	50	0	19.79	19.95	19.85	21.5	0		
20	QPSK	50	24	19.79	19.77	19.77				
20	QPSK	50	50	19.89	19.71	19.83				
20	QPSK	100	0	19.84	19.89	19.81	21.5	0		
20	16QAM	1	0	19.76	19.70	19.79				
20	16QAM	1	49	19.94	19.89	19.79				
20	16QAM	1	99	19.93	19.89	19.86	21.5	0		
20	16QAM	50	0	19.85	19.80	19.77				
20	16QAM	50	24	19.74	19.68	19.84				
20	16QAM	50	50	19.84	19.89	19.71	21.5	0		
20	16QAM	100	0	19.79	19.80	19.94				
20	84QAM	1	0	19.77	19.95	19.80				
20	84QAM	1	49	19.77	19.85	19.90	21.5	0		
20	84QAM	1	99	19.81	19.69	19.70				
20	84QAM	50	0	19.88	19.81	19.78				
20	84QAM	50	24	19.87	19.85	19.85	21.5	0		
20	84QAM	50	50	19.88	19.84	19.97				
20	84QAM	100	0	19.93	19.90	19.91				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	19.81	19.81	19.88	21.5	0		
15	QPSK	1	37	19.82	19.78	19.94				
15	QPSK	1	74	19.86	19.83	19.81				
15	QPSK	36	0	19.88	19.79	19.78	21.5	0		
15	QPSK	36	20	19.98	19.67	19.88				
15	QPSK	36	39	19.74	19.92	19.85				
15	QPSK	75	0	19.73	19.76	19.87	21.5	0		
15	16QAM	1	0	19.83	19.79	19.89				
15	16QAM	1	37	19.84	19.77	19.61				
15	16QAM	1	74	19.89	19.84	19.86	21.5	0		
15	16QAM	36	0	19.86	19.78	19.71				
15	16QAM	36	20	19.78	19.85	19.95				
15	16QAM	36	39	19.93	19.97	19.78	21.5	0		
15	16QAM	75	0	19.89	19.85	19.90				
15	84QAM	1	0	19.74	19.91	19.81				
15	84QAM	1	37	19.72	19.98	19.84	21.5	0		
15	84QAM	1	74	19.78	19.84	19.83				
15	84QAM	36	0	19.72	19.82	19.78				
15	84QAM	36	20	19.76	19.83	19.83	21.5	0		
15	84QAM	36	39	19.87	19.90	19.97				
15	84QAM	75	0	19.88	19.91	19.83				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	19.89	19.93	19.83	21.5	0		
10	QPSK	1	25	19.80	19.65	19.83				
10	QPSK	1	49	19.81	19.73	19.70				
10	QPSK	25	0	19.79	19.96	19.96	21.5	0		
10	QPSK	25	12	19.86	19.72	19.77				
10	QPSK	25	25	19.88	19.98	19.97				
10	QPSK	50	0	19.90	19.80	19.92	21.5	0		
10	16QAM	1	0	19.76	19.72	19.85				
10	16QAM	1	25	19.80	19.83	19.65				
10	16QAM	1	49	19.96	19.96	19.91	21.5	0		
10	16QAM	25	0	19.98	19.70	19.73				
10	16QAM	25	12	19.88	19.85	19.94				
10	16QAM	25	25	19.81	19.92	19.90	21.5	0		
10	16QAM	50	0	19.87	19.82	19.80				
10	84QAM	1	0	19.86	19.85	19.78				
10	84QAM	1	25	19.83	19.69	19.86	21.5	0		
10	84QAM	1	49	19.98	19.88	19.89				
10	84QAM	25	0	19.71	19.94	19.80				
10	84QAM	25	12	19.74	19.80	19.83	21.5	0		
10	84QAM	25	25	19.89	19.78	19.87				
10	84QAM	50	0	19.88	19.83	19.89				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	19.86	19.68	19.96	21.5	0		
5	QPSK	1	12	19.74	19.60	19.82				
5	QPSK	1	24	19.86	19.75	19.78				
5	QPSK	12	0	19.93	19.98	19.81	21.5	0		
5	QPSK	12	7	19.85	19.63	19.86				
5	QPSK	12	13	19.94	19.90	19.81				
5	QPSK	25	0	19.78	19.94	19.99	21.5	0		
5	16QAM	1	0	19.84	19.79	19.75				
5	16QAM	1	12	19.98	19.94	19.81				
5	16QAM	1	24	19.92	19.99	19.92	21.5	0		
5	16QAM	12	0	19.87	19.80	19.85				
5	16QAM	12	7	19.79	19.66	19.79				
5	16QAM	12	13	19.82	19.87	19.77	21.5	0		
5	16QAM	25	0	19.89	19.79	19.83				
5	84QAM	1	0	19.69	19.96	19.85				
5	84QAM	1	12	19.78	19.97	19.88	21.5	0		
5	84QAM	1	24	19.75	19.86	19.91				
5	84QAM	12	0	19.81	19.86	19.77				
5	84QAM	12	7	19.88	19.99	19.87	21.5	0		
5	84QAM	12	13	19.91	19.90	19.97				
5	84QAM	25	0	19.84	19.90	19.94				

Band 41 Ant1 DSI4												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	19.97	20.07	20.18	20.09	20.08	21.5	0		
20	QPSK	1	49	19.77	19.98	19.86	19.93	19.85				
20	QPSK	1	99	19.77	19.88	20.02	19.86	19.86				
20	QPSK	50	0	19.86	20.00	20.10	20.02	19.96	21.5	0		
20	QPSK	50	24	19.89	19.83	19.95	19.82	19.94				
20	QPSK	50	50	19.76	19.73	19.96	19.69	19.69				
20	QPSK	100	0	19.93	19.91	20.03	20.01	19.98	21.5	0		
20	16QAM	1	0	19.82	19.89	19.92	19.80	19.97				
20	16QAM	1	49	19.71	19.79	19.96	19.70	19.80				
20	16QAM	1	99	19.84	19.98	20.09	20.08	20.10	21.5	0		
20	16QAM	50	0	19.75	19.96	19.87	20.01	19.86				
20	16QAM	50	24	19.75	19.83	19.87	19.69	19.75				
20	16QAM	50	50	19.87	20.07	20.15	20.07	20.13	21.5	0		
20	16QAM	100	0	19.94	19.93	20.03	20.01	19.88				
20	84QAM	1	0	19.76	19.90	19.85	19.80	19.73				
20	84QAM	1	49	19.88	20.05	20.12	20.00	19.98	21.5	0		
20	84QAM	1	99	19.74	19.96	19.86	19.97	19.86				
20	84QAM	50	0	19.92	19.81	19.83	19.83	19.81				
20	84QAM	50	24	19.91	19.87	20.15	20.10	20.15	21.5	0		
20	84QAM	50	50	19.72	19.89	19.86	19.97	19.89				
20	84QAM	100	0	19.80	19.95	19.88	19.86	19.86				
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	19.85	19.98	19.97	20.07	19.91	21.5	0		
15	QPSK	1	37	19.66	19.99	19.72	19.76	19.86				
15	QPSK	1	74	19.58	19.88	19.88	19.80	19.71				
15	QPSK	36	0	19.87	19.90	19.84	19.97	19.80	21.5	0		
15	QPSK	36	20	19.84	19.73	19.85	19.78	19.80				
15	QPSK	36	39	19.71	19.52	19.85	19.68	19.70				
15	QPSK	75	0	19.89	20.02	19.82	20.11	20.03	21.5	0		
15	16QAM	1	0	19.63	19.86	19.78	19.71	19.80				
15	16QAM	1	37	19.58	19.67	19.89	19.67	19.62				
15	16QAM	1	74	19.76	19.80	19.89	19.87	19.89	21.5	0		
15	16QAM	36	0	19.72	19.97	19.68	19.82	19.68				
15	16QAM	36	20	19.62	19.67	19.85	19.54	19.72				
15	16QAM	36	39	19.88	19.87	1						

Band 7 Ant2 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350	16.5	0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	14.99	15.15	14.94	16.5	0
20	QPSK	1	49	15.01	15.02	15.01		
20	QPSK	1	99	14.91	14.92	14.82		
20	QPSK	50	0	14.96	15.12	15.00	16.5	0
20	QPSK	50	24	14.93	14.95	14.87		
20	QPSK	50	50	14.89	14.98	14.94		
20	QPSK	100	0	14.90	14.97	14.89	16.5	0
20	16QAM	1	0	14.89	14.93	14.87		
20	16QAM	1	49	14.91	15.05	14.98		
20	16QAM	1	99	14.97	14.99	14.91	16.5	0
20	16QAM	50	0	14.90	14.97	14.89		
20	16QAM	50	24	15.00	15.01	14.98		
20	16QAM	50	50	14.93	14.95	14.91	16.5	0
20	16QAM	100	0	14.99	14.98	14.92		
20	64QAM	1	0	14.93	14.94	14.94		
20	64QAM	1	49	15.01	15.09	15.06	16.5	0
20	64QAM	1	99	14.91	14.98	14.89		
20	64QAM	50	0	14.91	14.99	14.94		
20	64QAM	50	24	15.03	15.07	15.02	16.5	0
20	64QAM	50	50	14.98	14.99	14.98		
20	64QAM	100	0	14.91	14.97	14.96		
Channel				20825	21100	21375	16.5	0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	14.94	15.09	14.86	16.5	0
15	QPSK	1	37	15.01	14.99	15.07		
15	QPSK	1	74	14.80	15.04	14.94		
15	QPSK	36	0	14.85	15.06	14.96	16.5	0
15	QPSK	36	20	15.04	14.94	14.92		
15	QPSK	36	39	14.99	15.00	14.88		
15	QPSK	75	0	15.02	14.98	14.99	16.5	0
15	16QAM	1	0	14.87	15.05	14.76		
15	16QAM	1	37	14.82	14.99	15.02		
15	16QAM	1	74	14.92	15.03	15.00	16.5	0
15	16QAM	36	0	14.95	14.88	14.87		
15	16QAM	36	20	14.89	15.03	15.08		
15	16QAM	36	39	14.96	14.92	14.81	16.5	0
15	16QAM	75	0	14.95	14.93	14.82		
15	64QAM	1	0	14.91	15.06	15.01		
15	64QAM	1	37	14.90	15.02	15.04	16.5	0
15	64QAM	1	74	15.02	15.08	14.97		
15	64QAM	36	0	14.85	14.93	14.94		
15	64QAM	36	20	15.06	15.00	15.00	16.5	0
15	64QAM	36	39	15.02	14.95	14.87		
15	64QAM	75	0	15.03	15.09	14.97		
Channel				20800	21100	21400	16.5	0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	14.92	15.08	15.03	16.5	0
10	QPSK	1	25	15.04	15.02	14.93		
10	QPSK	1	49	14.80	14.86	14.92		
10	QPSK	25	0	15.01	15.04	15.11	16.5	0
10	QPSK	25	12	14.85	14.86	14.86		
10	QPSK	25	25	14.95	14.90	14.82		
10	QPSK	50	0	14.94	14.90	14.80	16.5	0
10	16QAM	1	0	14.96	14.88	14.94		
10	16QAM	1	25	14.81	15.02	15.04		
10	16QAM	1	49	14.94	15.03	14.99	16.5	0
10	16QAM	25	0	15.01	15.04	14.93		
10	16QAM	25	12	15.09	14.92	15.05		
10	16QAM	25	25	14.95	14.93	14.92	16.5	0
10	16QAM	50	0	14.97	15.01	14.93		
10	64QAM	1	0	14.93	14.97	14.86		
10	64QAM	1	25	15.05	15.08	15.06	16.5	0
10	64QAM	1	49	14.81	15.06	15.00		
10	64QAM	25	0	14.80	15.05	14.88		
10	64QAM	25	12	15.13	15.10	14.99	16.5	0
10	64QAM	25	25	15.03	15.09	14.94		
10	64QAM	50	0	14.82	14.91	14.99		
Channel				20775	21100	21425	16.5	0
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	14.98	15.07	14.83	16.5	0
5	QPSK	1	12	15.07	14.90	14.90		
5	QPSK	1	24	14.91	14.93	14.70		
5	QPSK	12	0	15.03	15.02	14.96	16.5	0
5	QPSK	12	7	15.04	14.97	14.79		
5	QPSK	12	13	14.90	15.03	14.86		
5	QPSK	25	0	14.86	15.06	14.78	16.5	0
5	16QAM	1	0	14.88	15.02	14.78		
5	16QAM	1	12	15.00	15.04	15.02		
5	16QAM	1	24	14.88	14.89	15.02	16.5	0
5	16QAM	12	0	14.88	14.89	14.98		
5	16QAM	12	7	14.96	15.11	15.05		
5	16QAM	12	13	14.86	14.95	14.83	16.5	0
5	16QAM	25	0	15.09	14.86	14.97		
5	64QAM	1	0	14.94	15.04	14.89		
5	64QAM	1	12	15.11	14.97	14.99	16.5	0
5	64QAM	1	24	15.02	14.98	14.84		
5	64QAM	12	0	14.97	14.92	15.02		
5	64QAM	12	7	15.10	15.03	15.03	16.5	0
5	64QAM	12	13	15.08	14.88	15.08		
5	64QAM	25	0	14.82	14.87	14.99		



Band 38 Ant2 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	17.02	17.18	17.06	18	0	
20	QPSK	1	49	17.02	16.90	16.92			
20	QPSK	1	99	16.90	16.93	17.03			
20	QPSK	50	0	16.82	17.03	16.93	18	0	
20	QPSK	50	24	16.99	16.96	16.95			
20	QPSK	50	50	16.94	16.92	16.84			
20	QPSK	100	0	16.92	17.01	16.86	18	0	
20	16QAM	1	0	16.91	17.15	17.05			
20	16QAM	1	49	17.03	17.11	16.83			
20	16QAM	1	99	16.91	16.98	17.05	18	0	
20	16QAM	50	0	16.95	16.96	17.06			
20	16QAM	50	24	16.89	17.06	16.93			
20	16QAM	50	50	16.95	16.94	16.89	18	0	
20	16QAM	100	0	16.98	16.93	16.91			
20	16QAM	100	0	16.92	17.17	16.97			
20	64QAM	1	49	17.07	17.10	16.76	18	0	
20	64QAM	1	99	16.90	16.75	17.05			
20	64QAM	50	0	17.07	17.07	17.11			
20	64QAM	50	24	17.07	17.00	16.96	18	0	
20	64QAM	50	50	16.92	17.10	16.88			
20	64QAM	100	0	16.88	16.73	17.03			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	16.94	17.15	16.92	18	0	
15	QPSK	1	37	17.05	16.91	17.02			
15	QPSK	1	74	17.11	16.87	16.99			
15	QPSK	36	0	17.17	17.10	17.12	18	0	
15	QPSK	36	20	16.95	17.02	17.12			
15	QPSK	36	39	17.06	16.96	16.97			
15	QPSK	75	0	17.07	17.04	16.93	18	0	
15	16QAM	1	0	16.82	17.06	16.91			
15	16QAM	1	37	17.06	17.01	17.00			
15	16QAM	1	74	17.09	17.02	17.05	18	0	
15	16QAM	36	0	17.13	16.98	17.01			
15	16QAM	36	20	16.98	17.08	16.94			
15	16QAM	36	39	16.91	16.93	17.02	18	0	
15	16QAM	75	0	16.96	16.83	16.97			
15	64QAM	1	0	16.91	17.05	16.93			
15	64QAM	1	37	16.85	16.88	16.70	18	0	
15	64QAM	1	74	17.06	16.79	17.04			
15	64QAM	36	0	16.96	16.95	17.10			
15	64QAM	36	20	16.84	16.84	16.94	18	0	
15	64QAM	36	39	16.82	17.11	17.02			
15	64QAM	75	0	16.77	16.88	16.87			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2675	2695	2615			
10	QPSK	1	0	16.92	17.14	17.10	18	0	
10	QPSK	1	25	17.03	17.14	16.92			
10	QPSK	1	49	16.92	17.01	16.98			
10	QPSK	25	0	17.07	17.13	16.97	18	0	
10	QPSK	25	12	16.93	16.96	16.93			
10	QPSK	25	25	16.99	17.13	16.84			
10	QPSK	50	0	17.04	17.06	16.92	18	0	
10	16QAM	1	0	16.86	17.00	17.06			
10	16QAM	1	25	17.03	17.10	16.92			
10	16QAM	1	49	16.96	16.92	17.02	18	0	
10	16QAM	25	0	17.06	17.03	17.11			
10	16QAM	25	12	16.98	16.97	16.90			
10	16QAM	25	25	16.87	17.11	17.03	18	0	
10	16QAM	50	0	16.95	17.05	17.00			
10	64QAM	1	0	16.80	16.95	17.01			
10	64QAM	1	25	16.97	17.03	16.90	18	0	
10	64QAM	1	49	17.06	16.75	17.03			
10	64QAM	25	0	16.98	17.00	17.03			
10	64QAM	25	12	16.91	16.90	16.89	18	0	
10	64QAM	25	25	17.00	16.88	16.98			
10	64QAM	50	0	16.72	16.92	16.87			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	16.81	17.10	16.92	18	0	
5	QPSK	1	12	16.93	16.93	16.92			
5	QPSK	1	24	17.04	17.10	16.89			
5	QPSK	12	0	17.15	17.06	17.08	18	0	
5	QPSK	12	7	16.94	16.98	17.01			
5	QPSK	12	13	16.89	17.12	16.86			
5	QPSK	25	0	17.08	17.11	16.92	18	0	
5	16QAM	1	0	16.76	17.00	16.95			
5	16QAM	1	12	17.05	17.02	16.76			
5	16QAM	1	24	16.99	16.89	16.94	18	0	
5	16QAM	12	0	16.95	17.01	16.95			
5	16QAM	12	7	17.09	16.98	16.98			
5	16QAM	12	13	17.00	17.10	16.99	18	0	
5	16QAM	25	0	16.87	16.88	17.08			
5	64QAM	1	0	16.92	17.05	16.97			
5	64QAM	1	12	16.97	17.06	16.70	18	0	
5	64QAM	1	24	16.89	16.93	16.97			
5	64QAM	12	0	16.86	17.12	17.09			
5	64QAM	12	7	17.04	16.95	17.03	18	0	
5	64QAM	12	13	17.00	17.04	16.81			
5	64QAM	25	0	16.76	16.74	16.89			

Band 41 Ant2 DSI4											
BW [MHz]	Modulation	RB Size	RB Offset	for IC Power Low Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	39750	40185	40620	41055	41490		
Frequency (MHz)				2510	2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	17.47	17.28	17.42	17.61	17.44	17.49	18.5	0
20	QPSK	1	49	17.31	17.25	17.36	17.41	17.39	17.36		
20	QPSK	1	99	17.40	17.36	17.47	17.38	17.41	17.46		
20	QPSK	50	0	17.47	17.42	17.47	17.51	17.44	17.45	18.5	0
20	QPSK	50	24	17.38	17.40	17.45	17.49	17.43	17.39		
20	QPSK	50	50	17.44	17.35	17.34	17.45	17.39	17.36		
20	QPSK	100	0	17.38	17.41	17.43	17.44	17.39	17.38	18.5	0
20	16QAM	1	0	17.39	17.25	17.34	17.45	17.33	17.40		
20	16QAM	1	49	17.38	17.41	17.40	17.40	17.43	17.47		
20	16QAM	1	99	17.40	17.29	17.40	17.46	17.30	17.34	18.5	0
20	16QAM	50	0	17.45	17.34	17.43	17.38	17.44	17.44		
20	16QAM	50	24	17.28	17.31	17.27	17.44	17.29	17.28		
20	16QAM	50	50	17.43	17.35	17.45	17.36	17.39	17.44	18.5	0
20	16QAM	100	0	17.44	17.41	17.40	17.45	17.35	17.37		
20	64QAM	1	0	17.48	17.44	17.47	17.44	17.44	17.40		
20	64QAM	1	49	17.42	17.34	17.36	17.48	17.41	17.37	18.5	0
20	64QAM	1	99	17.43	17.29	17.37	17.42	17.43	17.43		
20	64QAM	50	0	17.43	17.40	17.47	17.43	17.45	17.40		
20	64QAM	50	24	17.35	17.33	17.38	17.46	17.40	17.35	18.5	0
20	64QAM	50	50	17.38	17.27	17.35	17.39	17.34	17.35		
20	64QAM	100	0	17.39	17.24	17.35	17.41	17.40	17.32		
Channel				39765	39726	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	17.47	17.18	17.32	17.55	17.33	17.39	19	0
15	QPSK	1	37	17.25	17.17	17.31	17.34	17.36	17.32		
15	QPSK	1	74	17.40	17.29	17.36	17.29	17.30	17.42		
15	QPSK	36	0	17.37	17.42	17.38	17.49	17.43	17.40	18.5	0
15	QPSK	36	20	17.30	17.39	17.37	17.46	17.42	17.31		
15	QPSK	36	39	17.39	17.29	17.30	17.37	17.36	17.34		
15	QPSK	75	0	17.31	17.39	17.31	17.33	17.27	17.30	18.5	0
15	16QAM	1	0	17.29	17.21	17.27	17.27	17.27	17.32		
15	16QAM	1	37	17.26	17.38	17.31	17.37	17.36	17.37		
15	16QAM	1	74	17.38	17.22	17.38	17.37	17.23	17.31	18.5	0
15	16QAM	36	0	17.45	17.28	17.35	17.29	17.39	17.35		
15	16QAM	36	20	17.28	17.29	17.16	17.33	17.18	17.17		
15	16QAM	36	39	17.35	17.34	17.38	17.26	17.30	17.39	18.5	0
15	16QAM	75	0	17.36	17.31	17.33	17.35	17.30	17.35		
15	64QAM	1	0	17.42	17.42	17.37	17.33	17.40	17.29		
15	64QAM	1	37	17.33	17.31	17.31	17.37	17.38			



GSM850 AnH4 DS4

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.47	32.68	32.53	33.00	23.47	23.88	23.53	24.00
GPRS 1 Tx slot	32.54	32.59	32.47	33.00	23.54	23.59	23.47	24.00
GPRS 2 Tx slots	30.07	30.15	30.01	30.50	24.07	24.15	24.01	24.50
GPRS 3 Tx slots	28.76	28.85	28.75	29.00	24.50	24.59	24.49	24.74
GPRS 4 Tx slots	27.25	27.33	27.11	27.50	24.25	24.33	24.11	24.50
EDGE 1 Tx slot	27.20	27.33	27.15	28.00	18.20	18.33	18.15	19.00
EDGE 2 Tx slots	24.74	24.78	24.76	25.00	18.74	18.78	18.76	19.00
EDGE 3 Tx slots	22.68	22.79	22.72	23.50	18.43	18.53	18.46	19.24
EDGE 4 Tx slots	21.55	21.67	21.55	22.00	18.55	18.67	18.55	19.00

GSM1900 AnH4 DS4

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1860	1904.8		1850.2	1860	1904.8	
GSM 1 Tx slot	27.32	27.41	27.30	27.50	18.32	18.41	18.30	18.50
GPRS 1 Tx slot	27.33	27.45	27.24	27.50	18.33	18.45	18.24	18.50
GPRS 2 Tx slots	24.22	24.42	24.30	24.50	18.22	18.42	18.30	18.50
GPRS 3 Tx slots	22.35	22.43	22.45	23.00	18.09	18.17	18.19	18.74
GPRS 4 Tx slots	21.26	21.33	21.35	21.50	18.26	18.33	18.35	18.50
EDGE 1 Tx slot	23.48	23.62	23.49	24.50	14.48	14.62	14.49	15.50
EDGE 2 Tx slots	20.28	20.34	20.21	21.50	14.28	14.34	14.21	15.50
EDGE 3 Tx slots	18.23	18.25	18.07	20.00	13.97	13.99	13.81	15.74
EDGE 4 Tx slots	17.12	17.21	17.16	18.50	14.12	14.21	14.16	15.50

WCDMA II AnH4 DS4

WCDMA IV AnH4 DS4

WCDMA V AnH4 Default power

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			WCDMA V			Tune-up Limit (dBm)		
	9262	9400	9538		1312	1413	1513	4132	4182	4233			
Rx Channel	9662	9800	9938		1537	1638	1738	4357	4407	4458			
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6	826.4	836.4	846.6			
3GPP Rel 99	AMR 12.2Kbps	19.48	19.62	19.55	20.50	18.64	18.74	18.61	20.00	24.08	24.22	24.15	25.50
3GPP Rel 99	RMC 12.2Kbps	19.55	19.69	19.58	20.50	18.73	18.81	18.69	20.00	24.28	24.31	24.29	25.50
3GPP Rel 6	HSDPA Subtest-1	18.58	18.83	18.68	19.50	17.60	17.76	17.62	19.00	22.25	22.27	22.10	23.50
3GPP Rel 6	HSDPA Subtest-2	18.71	18.85	18.51	19.50	17.87	17.83	17.56	19.00	22.29	22.28	22.12	23.50
3GPP Rel 6	HSDPA Subtest-3	18.04	18.29	18.29	19.00	17.33	17.41	17.24	18.50	21.70	21.74	21.66	23.00
3GPP Rel 6	HSDPA Subtest-4	18.72	18.68	18.67	19.00	17.76	17.92	17.80	18.50	22.45	22.46	22.07	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	18.66	18.81	18.83	19.50	17.68	17.90	17.83	19.00	22.15	22.15	22.26	22.50
3GPP Rel 8	DC-HSDPA Subtest-2	18.60	18.76	18.57	19.50	17.85	17.79	17.71	19.00	22.19	22.28	21.94	22.50
3GPP Rel 8	DC-HSDPA Subtest-3	18.07	18.21	18.25	19.00	17.38	17.34	17.37	18.50	21.54	21.75	21.86	22.00
3GPP Rel 8	DC-HSDPA Subtest-4	18.10	18.44	18.10	19.00	17.46	17.46	17.30	18.50	21.78	21.68	21.74	22.00
3GPP Rel 6	HSUPA Subtest-1	18.49	18.66	18.78	19.50	17.72	17.94	17.90	19.00	23.26	23.24	23.35	24.50
3GPP Rel 6	HSUPA Subtest-2	16.78	16.69	16.64	17.50	15.85	15.92	15.63	17.00	21.18	21.25	21.31	22.50
3GPP Rel 6	HSUPA Subtest-3	17.53	17.75	17.78	18.50	16.74	16.98	16.74	18.00	22.31	22.32	22.27	23.50
3GPP Rel 6	HSUPA Subtest-4	16.82	16.80	16.58	17.50	15.97	15.82	15.75	17.00	21.35	21.43	21.34	22.50
3GPP Rel 6	HSUPA Subtest-5	18.61	18.78	18.77	19.50	17.71	17.83	17.73	19.00	23.12	23.29	23.43	24.50
3GPP Rel 7	HSPA+ (H2AM) Subtest-1	16.08	16.30	16.08	17.00	15.24	15.23	15.15	18.50	20.87	20.87	20.90	22.00



Band 2 Ant4 DSI4									
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)				18700	18800	19100			
20	QPSK	1	0	19.89	19.88	19.83			
20	QPSK	1	49	19.86	19.91	19.85	20.5	0	
20	QPSK	1	99	19.75	19.82	19.77			
20	QPSK	50	0	19.81	19.94	19.90			
20	QPSK	50	24	19.82	19.93	19.87	20.5	0	
20	QPSK	50	50	19.82	19.89	19.78			
20	QPSK	100	0	19.82	19.94	19.87			
20	16QAM	1	0	19.76	19.89	19.85			
20	16QAM	1	49	19.78	19.83	19.72	20.5	0	
20	16QAM	1	99	19.74	19.79	19.70			
20	16QAM	50	0	19.86	19.91	19.81			
20	16QAM	50	24	19.78	19.88	19.81	20.5	0	
20	16QAM	50	50	19.85	19.80	19.68			
20	16QAM	100	0	19.75	19.86	19.82			
20	64QAM	1	0	19.82	19.96	19.81			
20	64QAM	1	49	19.75	19.87	19.76	20.5	0	
20	64QAM	1	99	19.70	19.76	19.65			
20	64QAM	50	0	19.83	19.91	19.86			
20	64QAM	50	24	19.79	19.93	19.86	20.5	0	
20	64QAM	50	50	19.74	19.89	19.78			
20	64QAM	100	0	19.79	19.84	19.72			
Channel									
Frequency (MHz)				18875	18900	19125			
15	QPSK	1	0	19.85	19.95	19.85			
15	QPSK	1	37	19.80	19.85	19.70	20.5	0	
15	QPSK	1	74	19.65	19.67	19.72			
15	QPSK	36	0	19.77	19.88	19.78			
15	QPSK	36	20	19.71	19.88	19.79	20.5	0	
15	QPSK	36	39	19.77	19.82	19.70			
15	QPSK	75	0	19.70	19.84	19.75			
15	16QAM	1	0	19.63	19.74	19.71			
15	16QAM	1	37	19.73	19.70	19.62	20.5	0	
15	16QAM	1	74	19.69	19.65	19.59			
15	16QAM	36	0	19.78	19.79	19.71			
15	16QAM	36	20	19.71	19.82	19.75	20.5	0	
15	16QAM	36	39	19.55	19.65	19.54			
15	16QAM	75	0	19.63	19.80	19.79			
15	64QAM	1	0	19.73	19.87	19.69			
15	64QAM	1	37	19.65	19.80	19.69	20.5	0	
15	64QAM	1	74	19.59	19.66	19.52			
15	64QAM	36	0	19.78	19.85	19.82			
15	64QAM	36	20	19.72	19.88	19.72	20.5	0	
15	64QAM	36	39	19.67	19.84	19.73			
15	64QAM	75	0	19.73	19.80	19.57			
Channel									
Frequency (MHz)				18850	18900	19150			
10	QPSK	1	0	19.77	19.92	19.88			
10	QPSK	1	25	19.76	19.87	19.81	20.5	0	
10	QPSK	1	49	19.64	19.76	19.66			
10	QPSK	25	0	19.72	19.83	19.80			
10	QPSK	25	12	19.69	19.85	19.78	20.5	0	
10	QPSK	25	25	19.71	19.83	19.64			
10	QPSK	50	0	19.69	19.90	19.75			
10	16QAM	1	0	19.62	19.85	19.79			
10	16QAM	1	25	19.68	19.69	19.62	20.5	0	
10	16QAM	1	49	19.64	19.68	19.55			
10	16QAM	25	0	19.73	19.87	19.73			
10	16QAM	25	12	19.66	19.74	19.76	20.5	0	
10	16QAM	25	25	19.57	19.72	19.58			
10	16QAM	50	0	19.60	19.75	19.76			
10	64QAM	1	0	19.69	19.87	19.70			
10	64QAM	1	25	19.70	19.82	19.69	20.5	0	
10	64QAM	1	49	19.56	19.69	19.50			
10	64QAM	25	0	19.88	19.86	19.72			
10	64QAM	25	12	19.65	19.87	19.73	20.5	0	
10	64QAM	25	25	19.63	19.80	19.74			
10	64QAM	50	0	19.73	19.74	19.63			
Channel									
Frequency (MHz)				18825	18900	19175			
5	QPSK	1	0	19.79	19.90	19.85			
5	QPSK	1	12	19.72	19.86	19.75	20.5	0	
5	QPSK	1	24	19.65	19.70	19.73			
5	QPSK	12	0	19.73	19.90	19.77			
5	QPSK	12	7	19.69	19.81	19.72	20.5	0	
5	QPSK	12	13	19.68	19.83	19.70			
5	QPSK	25	0	19.78	19.86	19.80			
5	16QAM	1	0	19.61	19.85	19.81			
5	16QAM	1	12	19.72	19.69	19.63	20.5	0	
5	16QAM	1	24	19.65	19.74	19.64			
5	16QAM	12	0	19.77	19.81	19.78			
5	16QAM	12	7	19.64	19.85	19.70	20.5	0	
5	16QAM	12	13	19.53	19.67	19.65			
5	16QAM	25	0	19.69	19.78	19.78			
5	64QAM	1	0	19.77	19.85	19.77			
5	64QAM	1	12	19.71	19.77	19.67	20.5	0	
5	64QAM	1	24	19.59	19.65	19.56			
5	64QAM	12	0	19.84	19.85	19.79			
5	64QAM	12	7	19.73	19.89	19.82	20.5	0	
5	64QAM	12	13	19.65	19.76	19.68			
5	64QAM	25	0	19.65	19.74	19.62			
Channel									
Frequency (MHz)				18815	18900	19185			
3	QPSK	1	0	19.75	19.84	19.80			
3	QPSK	1	8	19.72	19.85	19.71	20.5	0	
3	QPSK	1	14	19.71	19.69	19.63			
3	QPSK	8	0	19.71	19.82	19.75			
3	QPSK	8	4	19.71	19.84	19.76	20.5	0	
3	QPSK	8	7	19.70	19.86	19.69			
3	QPSK	15	0	19.70	19.85	19.79			
3	16QAM	1	0	19.67	19.81	19.78			
3	16QAM	1	8	19.72	19.76	19.63	20.5	0	
3	16QAM	1	14	19.64	19.75	19.64			
3	16QAM	8	0	19.79	19.84	19.75			
3	16QAM	8	4	19.65	19.79	19.71	20.5	0	
3	16QAM	8	7	19.61	19.66	19.57			
3	16QAM	15	0	19.61	19.77	19.72			
3	64QAM	1	0	19.75	19.92	19.74			
3	64QAM	1	8	19.66	19.76	19.61	20.5	0	
3	64QAM	1	14	19.61	19.68	19.57			
3	64QAM	8	0	19.88	19.87	19.78			
3	64QAM	8	4	19.68	19.88	19.81	20.5	0	
3	64QAM	8	7	19.70	19.83	19.70			
3	64QAM	15	0	19.65	19.74	19.59			
Channel									
Frequency (MHz)				18807	18900	19163			
1.4	QPSK	1	0	19.76	19.85	19.83			
1.4	QPSK	1	3	19.81	19.77	19.73	20.5	0	
1.4	QPSK	1	5	19.62	19.74	19.68			
1.4	QPSK	3	0	19.74	19.83	19.79			
1.4	QPSK	3	1	19.71	19.89	19.75			
1.4	QPSK	3	3	19.76	19.82	19.73	20.5	0	
1.4	QPSK	6	0	19.69	19.87	19.84			
1.4	16QAM	1	0	19.70	19.84	19.80			
1.4	16QAM	1	3	19.68	19.79	19.62	20.5	0	
1.4	16QAM	1	5	19.61	19.67	19.67			
1.4	16QAM	3	0	19.77	19.81	19.67			
1.4	16QAM	3	1	19.73	19.75	19.67	20.5	0	
1.4	16QAM	3	3	19.58	19.70	19.58			
1.4	16QAM	6	0	19.63	19.78	19.74	20.5	0	
1.4	64QAM	1	0	19.71	19.85	19.71			
1.4	64QAM	1	3	19.67	19.82	19.66	20.5	0	
1.4	64QAM	1	5	19.65	19.71	19.55			
1.4	64QAM	3	0	19.90	19.93	19.78			
1.4	64QAM	3	1	19.73	19.89	19.75			
1.4	64QAM	3	3	19.69	19.79	19.66	20.5	0	
1.4	64QAM	6	0	19.72	19.80	19.58			

Band 4 Ant4 DSI4									
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)				20050	20175	20300			
20	QPSK	1	0	19.04	19.14	19.28			
20	QPSK	1	49	18.90					



Band 5 Ant4 Default power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600		
Frequency (MHz)				20450	20525	20600		
10	QPSK	1	0	24.15	24.24	24.16	25.5	0
10	QPSK	1	25	24.00	23.96	24.03		
10	QPSK	1	49	23.92	23.79	23.97		
10	QPSK	25	0	22.98	23.13	23.10		
10	QPSK	25	12	22.96	22.96	22.98		
10	QPSK	25	25	22.86	22.95	22.89		
10	QPSK	50	0	22.88	23.09	22.92		
10	16QAM	1	0	22.88	22.90	22.89		
10	16QAM	1	25	22.90	22.85	22.90		
10	16QAM	1	49	22.80	22.83	22.75		
10	16QAM	25	0	22.08	22.13	22.21		
10	16QAM	25	12	21.86	22.13	21.95		
10	16QAM	25	25	21.97	21.87	22.04		
10	16QAM	50	0	21.99	21.64	22.13		
10	64QAM	1	0	22.00	22.05	22.07		
10	64QAM	1	25	21.77	22.04	21.83		
10	64QAM	1	49	21.92	21.81	21.90		
10	64QAM	25	0	21.21	21.07	21.37		
10	64QAM	25	12	21.30	21.34	21.29		
10	64QAM	25	25	21.19	21.15	21.51		
10	64QAM	50	0	20.83	20.84	20.70		
Channel				20425	20525	20625		
Frequency (MHz)				20425	20525	20625		
5	QPSK	1	0	23.96	24.11	24.00	25.5	0
5	QPSK	1	12	23.84	23.79	23.93		
5	QPSK	1	24	23.76	23.61	23.79		
5	QPSK	12	0	22.83	22.83	22.95		
5	QPSK	12	7	22.79	22.83	22.88		
5	QPSK	12	13	22.70	22.76	22.76		
5	QPSK	25	0	22.74	22.93	22.79		
5	16QAM	1	0	22.77	22.77	22.78		
5	16QAM	1	12	22.71	22.66	22.72		
5	16QAM	1	24	22.64	22.67	22.64		
5	16QAM	12	0	21.90	21.96	22.04		
5	16QAM	12	7	21.71	21.86	21.76		
5	16QAM	12	13	21.81	21.74	21.89		
5	16QAM	25	0	22.04	22.19	22.09		
5	64QAM	1	0	21.86	21.87	21.92		
5	64QAM	1	12	21.57	21.87	21.71		
5	64QAM	1	24	21.80	21.64	21.74		
5	64QAM	12	0	21.02	20.88	21.27		
5	64QAM	12	7	21.12	21.17	21.16		
5	64QAM	12	13	21.06	20.96	21.34		
5	64QAM	25	0	20.64	20.73	20.51		
Channel				20415	20525	20635		
Frequency (MHz)				20415	20525	20635		
3	QPSK	1	0	23.98	24.07	23.99	25.5	0
3	QPSK	1	8	23.88	23.82	23.89		
3	QPSK	1	14	23.77	23.68	23.82		
3	QPSK	8	0	22.86	22.98	22.91		
3	QPSK	8	4	22.86	22.76	22.88		
3	QPSK	8	7	22.70	22.84	22.73		
3	QPSK	15	0	22.68	22.95	22.76		
3	16QAM	1	0	22.68	22.70	22.70		
3	16QAM	1	8	22.77	22.69	22.79		
3	16QAM	1	14	22.61	22.69	22.69		
3	16QAM	8	0	21.87	22.01	22.11		
3	16QAM	8	4	21.73	21.95	21.80		
3	16QAM	8	7	21.82	21.68	21.91		
3	16QAM	15	0	22.06	22.23	22.09		
3	64QAM	1	0	21.86	21.90	21.93		
3	64QAM	1	8	21.60	21.85	21.70		
3	64QAM	1	14	21.80	21.67	21.76		
3	64QAM	8	0	21.02	20.89	21.27		
3	64QAM	8	4	21.17	21.17	21.10		
3	64QAM	8	7	21.06	21.02	21.39		
3	64QAM	15	0	20.71	20.68	20.50		
Channel				20407	20525	20643		
Frequency (MHz)				20407	20525	20643		
1.4	QPSK	1	0	23.95	24.07	24.05	25.5	0
1.4	QPSK	1	3	23.87	23.81	23.90		
1.4	QPSK	1	5	23.80	23.62	23.83		
1.4	QPSK	3	0	23.78	23.96	23.95		
1.4	QPSK	3	1	23.77	23.84	23.86		
1.4	QPSK	3	3	23.72	23.75	23.72		
1.4	QPSK	6	0	22.72	22.93	22.78		
1.4	16QAM	1	0	22.70	22.74	22.74		
1.4	16QAM	1	3	22.71	22.69	22.78		
1.4	16QAM	1	5	22.67	22.67	22.58		
1.4	16QAM	3	0	22.93	23.03	23.10		
1.4	16QAM	3	1	22.68	22.95	22.90		
1.4	16QAM	3	3	22.86	22.67	22.92		
1.4	16QAM	6	0	22.00	22.21	22.04		
1.4	64QAM	1	0	21.90	21.92	21.96		
1.4	64QAM	1	3	21.81	21.93	21.71		
1.4	64QAM	1	5	21.80	21.62	21.78		
1.4	64QAM	3	0	22.10	21.90	22.24		
1.4	64QAM	3	1	22.13	22.17	22.16		
1.4	64QAM	3	3	22.08	22.02	22.40		
1.4	64QAM	6	0	20.69	20.68	20.52		

Band 7 Ant4 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				20850	21100	21350		
20	QPSK	1	0	16.88	16.88	16.68	18.5	0
20	QPSK	1	49	16.77	16.74	16.82		
20	QPSK	1	99	16.70	16.71	16.58		
20	QPSK	50	0	16.86	16.91	16.70		
20	QPSK	50	24	16.89	16.77	16.72		
20	QPSK	50	50	16.70	16.72	16.68		
20	QPSK	100	0	16.72	16.86	16.63		
20	16QAM	1	0	16.72	16.82	16.72		
20	16QAM	1	49	16.81	16.73	16.52		
20	16QAM	1	99	16.72	16.73	16.87		
20	16QAM	50	0	16.59	16.94	16.82		
20	16QAM	50	24	16.60	16.73	16.73		
20	16QAM	50	50	16.76	16.80	16.62		
20	16QAM	100	0	16.80	16.80	16.65		
20	64QAM	1	0	16.76	16.68	16.58		
20	64QAM	1	49	16.50	16.70	16.59		
20	64QAM	1	99	16.66	16.70	16.67		
20	64QAM	50	0	16.73	16.94	16.74		
20	64QAM	50	24	16.58	16.86	16.66		
20	64QAM	50	50	16.62	16.89	16.71		
20	64QAM	100	0	16.72	16.69	16.75		
Channel				20825	21100	21375		
Frequency (MHz)				20825	21100	21375		
15	QPSK	1	0	16.84	16.79	16.85	18.5	0
15	QPSK	1	37	16.84	16.85	16.75		
15	QPSK	1	74	16.58	16.74	16.63		
15	QPSK	35	0	16.82	16.77	16.86		
15	QPSK	35	20	16.72	16.81	16.68		
15	QPSK	35	39	16.67	16.70	16.76		
15	QPSK	75	0	16.69	16.90	16.66		
15	16QAM	1	0	16.89	16.84	16.81		
15	16QAM	1	37	16.65	16.75	16.51		
15	16QAM	1	74	16.72	16.78	16.59		
15	16QAM	35	0	16.66	16.82	16.71		
15	16QAM	35	20	16.59	16.62	16.69		
15	16QAM	35	39	16.59	16.64	16.52		
15	16QAM	75	0	16.85	16.88	16.55		
15	64QAM	1	0	16.77	16.67	16.79		
15	64QAM	1	37	16.59	16.88	16.53		
15	64QAM	1	74	16.63	16.66	16.74		
15	64QAM	35	0	16.77	16.75	16.74		
15	64QAM	35	20	16.58	16.76	16.79		
15	64QAM	35	39	16.86	16.72	16.71		
15	64QAM	75	0	16.65	16.88	16.52		
Channel				20900	21100	21400		
Frequency (MHz)				20900	21100	21400		
10	QPSK	1	0	16.83	16.89	16.76	18.5	0
10	QPSK	1	25	16.74	16.90	16.81		
10	QPSK	1	49	16.74	16.76	16.51		
10	QPSK	25	0	16.76	16.92	16.75		
10	QPSK	25	12	16.79	16.91	16.64		
10	QPSK	25	25	16.64	16.73	16.56		
10	QPSK	50	0	16.87	16.75	16.74		
10	16QAM	1	0	16.88	16.84	16.70		
10	16QAM	1	25	16.58	16.58	16.70</		



Band 38 Ant4 DSI4										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	20.87	20.98	20.85	22.5	0		
20	QPSK	1	49	20.79	20.76	20.68				
20	QPSK	1	99	20.89	20.90	20.84				
20	QPSK	50	0	20.80	20.89	20.62	22.5	0		
20	QPSK	50	24	20.82	20.80	20.86				
20	QPSK	50	50	20.81	20.75	20.77				
20	QPSK	100	0	20.76	20.93	20.71	22.5	0		
20	16QAM	1	0	20.76	20.91	20.87				
20	16QAM	1	49	20.76	20.91	20.76				
20	16QAM	1	99	20.74	20.70	20.76	22.5	0		
20	16QAM	50	0	20.83	20.83	20.79				
20	16QAM	50	24	20.78	20.84	20.75				
20	16QAM	50	50	20.69	20.75	20.61	22.5	0		
20	16QAM	100	0	20.68	20.77	20.76				
20	84QAM	1	0	20.79	20.75	20.79				
20	84QAM	1	49	20.80	20.78	20.79	22.5	0		
20	84QAM	1	99	20.64	20.93	20.77				
20	84QAM	50	0	20.73	20.82	20.94				
20	84QAM	50	24	20.59	20.81	20.81	22.5	0		
20	84QAM	50	50	20.66	20.87	20.63				
20	84QAM	100	0	20.77	20.84	20.88				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	20.69	20.95	20.63	22.5	0		
15	QPSK	1	37	20.85	20.72	20.74				
15	QPSK	1	74	20.72	20.87	20.89				
15	QPSK	36	0	20.91	20.79	20.76	22.5	0		
15	QPSK	36	20	20.85	20.78	20.83				
15	QPSK	36	39	20.85	20.75	20.87				
15	QPSK	75	0	20.79	20.88	20.72	22.5	0		
15	16QAM	1	0	20.79	20.82	20.74				
15	16QAM	1	37	20.69	20.76	20.75				
15	16QAM	1	74	20.90	20.80	20.89	22.5	0		
15	16QAM	36	0	20.77	20.77	20.78				
15	16QAM	36	20	20.79	20.93	20.78				
15	16QAM	36	39	20.68	20.69	20.78	22.5	0		
15	16QAM	75	0	20.87	20.81	20.80				
15	84QAM	1	0	20.83	20.71	20.77				
15	84QAM	1	37	20.74	20.68	20.82	22.5	0		
15	84QAM	1	74	20.68	20.91	20.65				
15	84QAM	36	0	20.76	20.91	20.85				
15	84QAM	36	20	20.67	20.70	20.82	22.5	0		
15	84QAM	36	39	20.68	20.78	20.64				
15	84QAM	75	0	20.85	20.76	20.71				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	20.70	20.87	20.63	22.5	0		
10	QPSK	1	25	20.72	20.74	20.75				
10	QPSK	1	49	20.81	20.74	20.83				
10	QPSK	25	0	20.77	20.81	20.59	22.5	0		
10	QPSK	25	12	20.84	20.93	20.84				
10	QPSK	25	25	20.90	20.87	20.80				
10	QPSK	50	0	20.79	20.83	20.84	22.5	0		
10	16QAM	1	0	20.75	20.90	20.89				
10	16QAM	1	25	20.69	20.92	20.72				
10	16QAM	1	49	20.77	20.87	20.78	22.5	0		
10	16QAM	25	0	20.86	20.93	20.80				
10	16QAM	25	12	20.88	20.85	20.85				
10	16QAM	25	25	20.81	20.70	20.70	22.5	0		
10	16QAM	50	0	20.66	20.84	20.69				
10	84QAM	1	0	20.69	20.79	20.70				
10	84QAM	1	25	20.77	20.78	20.83	22.5	0		
10	84QAM	1	49	20.73	20.80	20.75				
10	84QAM	25	0	20.73	20.79	20.92				
10	84QAM	25	12	20.60	20.88	20.74	22.5	0		
10	84QAM	25	25	20.72	20.79	20.75				
10	84QAM	50	0	20.68	20.95	20.76				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	20.73	20.95	20.72	22.5	0		
5	QPSK	1	12	20.70	20.78	20.72				
5	QPSK	1	24	20.78	20.91	20.80				
5	QPSK	12	0	20.80	20.81	20.59	22.5	0		
5	QPSK	12	7	20.80	20.77	20.78				
5	QPSK	12	13	20.89	20.89	20.81				
5	QPSK	25	0	20.80	20.75	20.67	22.5	0		
5	16QAM	1	0	20.82	20.83	20.79				
5	16QAM	1	12	20.87	20.89	20.79				
5	16QAM	1	24	20.81	20.70	20.88	22.5	0		
5	16QAM	12	0	20.83	20.92	20.72				
5	16QAM	12	7	20.89	20.79	20.78				
5	16QAM	12	13	20.60	20.89	20.66	22.5	0		
5	16QAM	25	0	20.85	20.85	20.66				
5	84QAM	1	0	20.86	20.87	20.84				
5	84QAM	1	12	20.78	20.69	20.84	22.5	0		
5	84QAM	1	24	20.66	20.91	20.68				
5	84QAM	12	0	20.94	20.83	20.78				
5	84QAM	12	7	20.62	20.77	20.80	22.5	0		
5	84QAM	12	13	20.73	20.75	20.61				
5	84QAM	25	0	20.81	20.94	20.90				

Band 41 Ant4 DSI4												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	20.75	20.83	20.96	20.83	20.81	22.5	0		
20	QPSK	1	49	20.85	20.60	20.86	20.65	20.61				
20	QPSK	1	99	20.64	20.70	20.93	20.74	20.82				
20	QPSK	50	0	20.66	20.76	20.88	20.83	20.67	22.5	0		
20	QPSK	50	24	20.81	20.87	20.85	20.73	20.68				
20	QPSK	50	50	20.64	20.78	20.73	20.74	20.61				
20	QPSK	100	0	20.65	20.61	20.68	20.58	20.66	22.5	0		
20	16QAM	1	0	20.72	20.71	20.79	20.78	20.87				
20	16QAM	1	49	20.66	20.77	20.83	20.63	20.58				
20	16QAM	1	99	20.71	20.77	20.70	20.69	20.80	22.5	0		
20	16QAM	50	0	20.84	20.66	20.89	20.85	20.78				
20	16QAM	50	24	20.79	20.71	20.73	20.65	20.69				
20	16QAM	50	50	20.84	20.66	20.76	20.72	20.69	22.5	0		
20	16QAM	100	0	20.76	20.67	20.82	20.64	20.68				
20	84QAM	1	0	20.69	20.77	20.88	20.69	20.63				
20	84QAM	1	49	20.61	20.73	20.86	20.67	20.74	22.5	0		
20	84QAM	1	99	20.58	20.72	20.88	20.61	20.80				
20	84QAM	50	0	20.77	20.74	20.91	20.74	20.65				
20	84QAM	50	24	20.85	20.81	20.82	20.64	20.88	22.5	0		
20	84QAM	50	50	20.69	20.59	20.81	20.84	20.74				
20	84QAM	100	0	20.80	20.72	20.77	20.69	20.83				
Channel				39725	40173	40620	41058	41515	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2692.5				
15	QPSK	1	0	20.75	20.79	20.76	20.69	20.75	22.50	0		
15	QPSK	1	37	20.77	20.72	20.88	20.75	20.76				
15	QPSK	1	74	20.78	20.89	20.93	20.88	20.75				
15	QPSK	36	0	20.73	20.86	20.78	20.87	20.69	22.5	0		
15	QPSK	36	20	20.65	20.74	20.79	20.64	20.64				
15	QPSK	36	39	20.69	20.61	20.71	20.68	20.70				
15	QPSK	75	0	20.66	20.77	20.71	20.62	20.59	22.5	0		
15	16QAM	1	0	20.82	20.88	20.90	20.89	20.82				
15	16QAM	1	37	20.69	20.79	20.91	20.76	20.78				
15	16QAM	1	74	20.68	20.79	20.81	20.78	20.84	22.5	0		
15	16QAM	36	0	20.62	20.71	20.88	20.77	20.80				
15	16QAM	36	20	20.79	20.85	20.81	20.62	20.67				
15	16QAM	36	39	20.67	20.75							

Uplink CA Power

Ant 1 Full&DS11								
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	99	1	0	23.6	25.50
21100	21298	QPSK	1	99	1	0	23.58	25.50
21350	21152	QPSK	1	0	1	99	23.65	25.50

Ant 1 Full&DS12&DS11								
CA_38C								
Combination 15MHz+15MHz (75RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38000	QPSK	1	74	1	0	23.91	25.50
38000	38150	QPSK	1	74	1	0	23.97	25.50
38150	38000	QPSK	1	0	1	74	23.86	25.50

Ant 4 Full&DS12								
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	99	1	0	23.67	25.50
21100	21298	QPSK	1	99	1	0	23.80	25.50
21350	21152	QPSK	1	0	1	99	23.72	25.50

Ant 4 Full&DS12								
CA_38C								
Combination 15MHz+15MHz (75RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38000	QPSK	1	74	1	0	23.63	25.50
38000	38150	QPSK	1	74	1	0	23.54	25.50
38150	38000	QPSK	1	0	1	74	23.58	25.50

Ant 1 DS12								
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	99	1	0	22.32	24.00
21100	21298	QPSK	1	99	1	0	22.38	24.00
21350	21152	QPSK	1	0	1	99	22.35	24.00

Ant 4 DS14								
CA_38C								
Combination 15MHz+15MHz (75RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38000	QPSK	1	74	1	0	20.68	22.50
38000	38150	QPSK	1	74	1	0	20.74	22.50
38150	38000	QPSK	1	0	1	74	20.69	22.50

Ant 4 DS11								
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	99	1	0	18.27	20.00
21100	21298	QPSK	1	99	1	0	18.52	20.00
21350	21152	QPSK	1	0	1	99	18.43	20.00

Ant 4 DS11								
CA_38C								
Combination 15MHz+15MHz (75RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38000	QPSK	1	74	1	0	21.23	23.00
38000	38150	QPSK	1	74	1	0	21.26	23.00
38150	38000	QPSK	1	0	1	74	21.19	23.00
37850	37700	QPSK	1	0	1	74	21.24	23.00
38000	37850	QPSK	1	0	1	74	21.31	23.00
38150	38300	QPSK	1	74	1	0	21.24	23.00

Ant 1 DS13								
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	99	1	0	18.04	19.50
21100	21298	QPSK	1	99	1	0	18.06	19.50
21350	21152	QPSK	1	0	1	99	18.01	19.50

Ant 1 DS13								
CA_38C								
Combination 15MHz+15MHz (75RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38000	QPSK	1	74	1	0	19.88	21.50
38000	38150	QPSK	1	74	1	0	19.95	21.50
38150	38000	QPSK	1	0	1	74	19.82	21.50



2CA DL

Configure	PCC										SCC					Power	
	LTE Band	Ant	UL		Mod.	UL#	UL		DL Antenna Configuration	LTE Band	BW (MHz)	DL		DL Antenna Configuration	With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)	
			Freq. (MHz)	Channel			RB	Offset				Freq. (MHz)	Channel				
CA_2C	Band 2	Ant1	20M	1880	18900	QPSK	1	0		Band 2	20M	1979.8	1098		23.55	23.73	
	Band 2	Ant4	20M	1880	18900	QPSK	1	0		Band 2	20M	1979.8	1098		24.11	24.28	
CA_2A-4A	Band 2	Ant1	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		23.63	23.73	
	Band 2	Ant4	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		24.22	24.28	
	Band 4	Ant1	20M	2132.5	20175	QPSK	1	0		Band 2	20M	1980	900		23.42	23.55	
	Band 4	Ant4	20M	2132.5	20175	QPSK	1	0		Band 2	20M	1980	900		23.92	24.14	
CA_2A_5A	Band 2	Ant1	20M	1880	18900	QPSK	1	0		Band 5	10M	881.5	2525		23.67	23.73	
	Band 2	Ant4	20M	1880	18900	QPSK	1	0		Band 5	10M	881.5	2525		24.16	24.28	
	Band 5	Ant1	10M	838.5	20525	QPSK	1	0		Band 2	20M	1980	900		23.81	23.99	
	Band 5	Ant4	10M	838.5	20525	QPSK	1	0		Band 2	20M	1980	900		24.03	24.24	
	Band 2	Ant1	20M	1880	18900	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	23.83	23.73	
CA_2A-7A	Band 2	Ant4	20M	1880	18900	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	24.03	24.28	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1980	900		23.91	24.09	
	Band 7	Ant4	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1980	900		23.63	23.85	
	Band 4	Ant1	20M	2132.5	20175	QPSK	1	0		Band 5	10M	881.5	2525		23.35	23.55	
CA_4A-5A	Band 4	Ant4	20M	2132.5	20175	QPSK	1	0		Band 5	10M	881.5	2525		24.01	24.14	
	Band 5	Ant1	10M	838.5	20525	QPSK	1	0		Band 4	20M	2132.5	2175		23.90	23.99	
	Band 5	Ant4	10M	838.5	20525	QPSK	1	0		Band 4	20M	2132.5	2175		24.02	24.24	
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	23.34	23.55	
CA_4A-7A	Band 4	Ant4	20M	1732.5	20175	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	24.10	24.14	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175		23.94	24.09	
	Band 7	Ant4	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175		23.64	23.85	
	Band 5	Ant1	10M	838.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	23.83	23.99	
CA_5A-7A	Band 5	Ant4	10M	838.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	24.13	24.24	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		24.04	24.09	
	Band 7	Ant4	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		23.69	23.85	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2674.8	3298	4x4MIMO	24.02	24.09	
CA_7C	Band 7	Ant4	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2674.8	3298	4x4MIMO	23.81	23.85	
CA_7A-7A	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	23.89	24.09	
	Band 7	Ant4	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	23.66	23.85	
CA_38C	Band 38	Ant1	20M	2595	38000	QPSK	1	0	4x4MIMO	Band 38	20M	2614.8	38198	4x4MIMO	24.02	24.05	
	Band 38	Ant4	20M	2595	38000	QPSK	1	0	4x4MIMO	Band 38	20M	2614.8	38198	4x4MIMO	23.76	23.86	
CA_41C	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	23.95	24.12	
	Band 41	Ant4	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	23.91	23.96	
CA_41A-41A	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2687.5	41565	4x4MIMO	23.86	24.12	
	Band 41	Ant4	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2687.5	41565	4x4MIMO	23.76	23.96	



Full Power level/Default Power level for 5G NR_DFT-15

n5 Ant1 Default power								
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				166500	167300	167800		
Frequency (MHz)				834	836.5	838		
20	PI/2 BPSK	1	1	23.96	24.00	24.02	25.5	0.0
20	PI/2 BPSK	1	53	23.90	23.95	23.89		
20	PI/2 BPSK	1	104	23.87	23.89	23.90		
20	PI/2 BPSK	50	0	23.84	23.83	23.87	25.0	0.5
20	PI/2 BPSK	50	28	23.82	24.00	23.99	25.5	0.0
20	PI/2 BPSK	50	56	23.36	23.96	23.52	25.0	0.5
20	PI/2 BPSK	100	0	23.37	23.58	23.43		
20	PI/2 BPSK	1	1	23.96	24.04	24.02		
20	QPSK	1	53	23.94	23.94	23.80	25.5	0.0
20	QPSK	1	104	23.89	23.76	23.78	24.5	1.0
20	QPSK	50	0	23.08	23.07	23.04		
20	QPSK	50	28	23.94	23.97	23.96		
20	QPSK	50	56	22.84	23.08	23.04	24.5	1.0
20	QPSK	100	0	23.12	23.13	23.05	24.5	1.0
20	16QAM	1	1	22.62	22.63	22.52		
20	64QAM	1	1	21.03	21.20	21.10		
20	256QAM	1	1	19.78	19.77	19.73	21.0	4.5
Channel				166300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.79	23.99	23.50	25.5	0.0
Channel				165600	167300	168300	Tune-up limit	MPR
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.87	24.00	23.86	25.5	0.0
Channel				165300	167300	169300	Tune-up limit	MPR
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.67	23.91	23.96	25.5	0.0

n7 Ant1 Default power								
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				502000	507600	512600		
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	24.06	24.16	24.19	25.5	0.0
20	PI/2 BPSK	1	53	24.03	24.19	23.99		
20	PI/2 BPSK	1	104	23.98	23.99	23.92		
20	PI/2 BPSK	50	0	23.70	23.75	23.61	25.0	0.5
20	PI/2 BPSK	50	28	24.21	24.24	24.14	25.5	0.0
20	PI/2 BPSK	50	56	23.66	23.69	23.76	25.0	0.5
20	PI/2 BPSK	100	0	23.58	23.75	23.69		
20	QPSK	1	1	24.10	24.29	24.08		
20	QPSK	1	53	23.96	24.06	24.00	25.5	0.0
20	QPSK	1	104	23.93	23.96	23.89	24.5	1.0
20	QPSK	50	0	23.05	23.19	23.08		
20	QPSK	50	28	24.00	24.20	24.19		
20	QPSK	50	56	23.21	23.23	23.31	24.5	1.0
20	QPSK	100	0	23.22	23.29	23.28	24.5	1.0
20	16QAM	1	1	22.75	23.05	22.72		
20	64QAM	1	1	21.35	21.66	21.48		
20	256QAM	1	1	20.02	20.21	20.00	21.0	4.5
Channel				501500	507000	512500	Tune-up limit	MPR
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	24.01	24.10	23.84	25.5	0.0
Channel				501000	507600	513000	Tune-up limit	MPR
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.95	24.05	23.94	25.5	0.0
Channel				500500	507000	513500	Tune-up limit	MPR
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.83	24.19	23.77	25.5	0.0



n38 Ant1 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				515000	519000	523000		
Frequency (MHz)				2575	2595	2610		
20	PI/2 BPSK	1	1	23.65	23.86	23.71	25.5	0.0
20	PI/2 BPSK	1	53	23.67	23.86	23.70		
20	PI/2 BPSK	1	104	23.69	23.81	23.59		
20	PI/2 BPSK	50	0	23.26	23.29	23.11	25.0	0.5
20	PI/2 BPSK	50	28	23.33	23.19	23.52	25.5	0.0
20	PI/2 BPSK	50	56	23.34	23.24	23.17	25.0	0.5
20	PI/2 BPSK	100	0	23.25	23.26	23.33		
20	QPSK	1	1	23.85	23.95	23.93		
20	QPSK	1	53	23.82	23.74	23.56	25.5	0.0
20	QPSK	1	104	23.65	23.75	23.75	24.5	1.0
20	QPSK	50	0	22.82	22.86	22.82	24.5	0.0
20	QPSK	50	28	23.70	23.79	23.64	25.5	0.0
20	QPSK	50	56	22.85	22.87	22.81	24.5	1.0
20	QPSK	100	0	22.76	22.89	22.86	24.5	1.0
20	16QAM	1	1	22.51	22.70	22.85		
20	64QAM	1	1	21.19	21.38	21.25		
20	256QAM	1	1	19.81	19.97	19.83	21.0	4.5
Channel				515502	519000	523498		
Frequency (MHz)				2577.51	2595	2612.49		
15	PI/2 BPSK	1	1	23.80	23.87	23.87	25.5	0.0
Channel				515504	519000	523998		
Frequency (MHz)				2575.02	2595	2614.98		
10	PI/2 BPSK	1	1	23.85	23.81	23.74	25.5	0.0
Channel				515000	519000	523000		
Frequency (MHz)				2575	2595	2615		
5	QPSK	1	1	23.86	23.88	23.93	25.5	0.0

n41 PC3 Ant1 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	22.73	22.84	22.56	24.5	0.0
50	PI/2 BPSK	1	135	23.29	23.47	23.42		
50	PI/2 BPSK	1	268	22.54	22.71	22.56		
50	PI/2 BPSK	135	0	23.35	23.44	23.28	24.5	0.0
50	PI/2 BPSK	135	68	23.64	23.53	23.38	24.5	0.0
50	PI/2 BPSK	135	135	23.54	23.53	23.19	24.5	0.0
50	PI/2 BPSK	270	0	23.35	23.38	23.19		
50	QPSK	1	1	22.35	22.60	22.53		
50	QPSK	1	135	23.43	23.65	23.36	24.5	0.0
50	QPSK	1	268	22.39	22.53	22.46	24.5	0.0
50	QPSK	135	0	23.29	23.16	23.14		
50	QPSK	135	68	23.54	23.50	23.51		
50	QPSK	135	135	23.26	23.10	23.22	24.5	0.0
50	QPSK	270	0	23.14	23.25	23.22	24.5	0.0
50	16QAM	1	1	22.46	22.46	22.48		
50	64QAM	k	1	22.40	22.45	22.43		
50	256QAM	1	1	20.45	20.37	20.38	21.0	3.5
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	53	23.41	23.44	23.33	24.5	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	26	23.56	23.53	23.21	24.5	0.0
Channel				500700	518598	536498		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	19	23.96	23.51	23.24	24.5	0.0
Channel				502002	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	12	23.53	23.52	23.28	24.5	0.0

n41 PC2 Ant1 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	23.33	23.48	23.29	26.0	0.0
50	PI/2 BPSK	1	135	24.37	24.42	24.16		
50	PI/2 BPSK	1	268	23.32	23.40	23.40		
50	PI/2 BPSK	135	0	24.16	24.37	24.17	25.5	0.5
50	PI/2 BPSK	135	68	24.52	24.59	24.50	26.0	0.0
50	PI/2 BPSK	135	135	24.19	24.37	24.39	25.5	0.5
50	PI/2 BPSK	270	0	24.19	24.22	24.15		
50	QPSK	1	1	23.65	23.70	23.55		
50	QPSK	1	135	24.62	24.80	24.61	26.0	0.0
50	QPSK	1	268	23.61	23.77	23.61	25.0	1.0
50	QPSK	135	0	23.69	23.68	23.63		
50	QPSK	135	68	24.44	24.76	24.70		
50	QPSK	135	135	23.56	23.76	23.52	26.0	0.0
50	QPSK	270	0	23.50	23.66	23.64	25.0	1.0
50	16QAM	1	1	23.69	23.72	23.61	25.0	1.0
50	64QAM	1	1	22.18	22.36	22.22	23.5	2.5
50	256QAM	1	1	20.70	20.76	20.62	21.5	4.5
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	53	24.55	24.56	24.52	26.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	26	24.55	24.57	24.57	26.0	0.0
Channel				500700	518598	536498		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	19	24.57	24.57	24.55	26.0	0.0
Channel				502002	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	12	24.50	24.50	24.51	26.0	0.0



n7 Ant2 Default power

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel	502600	507000	512300					
Frequency (MHz)	2510	2535	2560					
20	PI/2 BPSK	1	1	23.14	23.20	23.15	25.0	0.0
20	PI/2 BPSK	1	53	23.14	23.17	23.21		
20	PI/2 BPSK	1	104	23.07	23.07	23.05		
20	PI/2 BPSK	50	0	22.59	22.71	22.59	24.5	0.5
20	PI/2 BPSK	50	23	23.15	23.24	23.10	25.0	0.0
20	PI/2 BPSK	50	56	22.58	22.69	22.74	24.5	0.5
20	PI/2 BPSK	100	0	22.70	22.75	22.84		
20	QPSK	1	1	23.14	23.28	23.20		
20	QPSK	1	53	23.21	23.24	23.03	25.0	0.0
20	QPSK	1	104	23.19	23.07	23.16		
20	QPSK	50	0	22.10	22.27	22.16		
20	QPSK	50	28	23.17	23.27	23.12	25.0	0.0
20	QPSK	50	56	22.37	22.42	22.51	24.0	1.0
20	QPSK	100	0	22.35	22.43	22.37		
20	16QAM	1	1	22.21	22.35	22.22	24.0	1.0
20	64QAM	1	1	20.67	20.67	20.63	22.5	2.5
20	256QAM	1	1	18.76	18.83	18.74	20.5	4.5
Channel	501500	507000	512500					
Frequency (MHz)	2507.5	2535	2562.5					
15	QPSK	1	1	23.18	23.31	23.22	25.0	0.0
Channel	501600	507000	513500					
Frequency (MHz)	2505	2535	2565					
10	QPSK	1	1	23.16	23.34	23.21	25.0	0.0
Channel	506500	507000	513500					
Frequency (MHz)	2502.5	2535	2567.5					
5	QPSK	1	1	23.18	23.33	23.28	25.0	0.0



n38 Ant2 Default power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				516500	519000	522000		
Frequency (MHz)				2550	2595	2610		
20	PI/2 BPSK	1	1	23.09	23.17	23.16		
20	PI/2 BPSK	1	53	23.08	23.12	23.09	25.0	0.0
20	PI/2 BPSK	1	104	23.23	23.11	23.11		
20	PI/2 BPSK	50	0	22.73	22.65	22.69	24.5	0.5
20	PI/2 BPSK	50	28	23.17	23.14	23.05	25.0	0.0
20	PI/2 BPSK	50	56	22.60	22.63	22.67		
20	PI/2 BPSK	100	0	22.66	22.65	22.59	24.5	0.5
20	QPSK	1	1	23.12	23.25	23.17		
20	QPSK	1	53	23.13	23.17	23.20	25.0	0.0
20	QPSK	1	104	23.08	23.10	23.09		
20	QPSK	50	0	22.13	22.20	22.08	24.0	1.0
20	QPSK	50	28	23.12	23.14	23.07	25.0	0.0
20	QPSK	50	56	22.26	22.25	22.18	24.0	1.0
20	QPSK	100	0	22.27	22.26	22.27		
20	16QAM	1	1	22.26	22.48	22.43	24.0	1.0
20	64QAM	1	1	20.75	20.70	20.75	22.5	2.5
20	256QAM	1	1	18.79	18.84	18.70	20.5	4.5
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	PI/2 BPSK	1	1	23.15	23.17	23.10	25.0	0.0
Channel				515004	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	PI/2 BPSK	1	1	23.17	23.19	23.09	25.0	0.0
Channel				515000	519000	523000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
5	QPSK	1	1	23.11	23.18	23.11	25.0	0.0

n41 PC3 Ant2 Default power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504204	516598	533998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	23.07	23.14	23.15		
50	PI/2 BPSK	1	135	23.07	23.07	23.14	25.0	0.0
50	PI/2 BPSK	1	268	23.03	23.08	23.14		
50	PI/2 BPSK	135	0	23.11	23.15	23.10	25.0	0.0
50	PI/2 BPSK	135	68	23.12	23.08	23.16	25.0	0.0
50	PI/2 BPSK	135	135	23.15	23.15	23.11	25.0	0.0
50	PI/2 BPSK	270	0	23.14	23.12	23.07		
50	QPSK	1	1	23.15	23.10	23.18		
50	QPSK	1	135	23.15	23.19	23.13	25.0	0.0
50	QPSK	1	268	23.13	23.15	23.16		
50	QPSK	135	0	23.11	23.15	23.12	25.0	0.0
50	QPSK	135	68	23.16	23.17	23.13	25.0	0.0
50	QPSK	135	135	23.09	23.20	23.11	25.0	0.0
50	QPSK	270	0	23.09	23.10	23.08		
50	16QAM	1	1	23.10	23.14	23.11	25.0	0.0
50	64QAM	1	1	21.76	21.79	21.85	23.5	1.5
50	256QAM	1	1	19.70	19.66	19.68	21.5	3.5
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	53	23.07	23.10	23.16	25.0	0.0
Channel				501204	516598	533998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2670.99		
20	QPSK	1	26	23.08	23.11	23.12	25.0	0.0
Channel				500700	518598	534498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	19	23.06	23.12	23.12	25.0	0.0
Channel				500202	516598	533000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	12	23.09	23.09	23.17	25.0	0.0



Par270 n77 PC3 Ant2 Default power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				648334	656000	663666			
Frequency (MHz)				3725.01	3840	3955.02			
50	Pi/2 BPSK	1	1	22.52	22.68	22.61			
50	Pi/2 BPSK	1	135	23.37	23.45	23.40	24.0	0.0	
50	Pi/2 BPSK	1	268	22.53	22.67	22.68			
50	Pi/2 BPSK	135	0	23.15	23.30	23.26	24.0	0.0	
50	Pi/2 BPSK	135	68	23.35	23.18	23.40	24.0	0.0	
50	Pi/2 BPSK	135	135	23.17	23.33	23.25			
50	Pi/2 BPSK	270	0	23.33	23.36	23.22	24.0	0.0	
50	QPSK	1	1	22.53	22.72	22.68			
50	QPSK	1	135	23.50	23.55	23.46	24.0	0.0	
50	QPSK	1	268	22.74	22.69	22.55			
50	QPSK	135	0	23.21	23.37	23.18	24.0	0.0	
50	QPSK	135	68	23.20	23.38	23.23	24.0	0.0	
50	QPSK	135	135	23.28	23.26	23.11	24.0	0.0	
50	QPSK	270	0	23.19	23.29	23.10			
50	16QAM	1	1	22.77	22.76	22.76	24.0	0.0	
50	64QAM	1	1	22.76	22.76	22.79	23.5	0.5	
50	256QAM	1	1	21.15	21.34	21.20	21.5	2.5	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	23.42	23.39	23.35	24.0	0.0	
Channel				647334	656000	663666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	23.40	23.37	23.34	24.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	23.33	23.36	23.34	24.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	23.38	23.37	23.36	24.0	0.0	

Par270 n77 PC2 Ant2 Default power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				648334	656000	663666			
Frequency (MHz)				3725.01	3840	3955.02			
50	Pi/2 BPSK	1	1	25.10	25.10	25.06			
50	Pi/2 BPSK	1	135	25.31	25.35	25.23	27.0	0.0	
50	Pi/2 BPSK	1	268	24.88	24.96	24.83			
50	Pi/2 BPSK	135	0	25.31	25.50	25.34	26.5	0.5	
50	Pi/2 BPSK	135	68	25.42	25.46	25.38	27.0	0.0	
50	Pi/2 BPSK	135	135	25.38	25.44	25.39			
50	Pi/2 BPSK	270	0	25.28	25.44	25.35	26.5	0.5	
50	QPSK	1	1	25.26	25.19	25.04			
50	QPSK	1	135	25.41	25.53	25.48	27.0	0.0	
50	QPSK	1	268	25.27	25.28	25.31			
50	QPSK	135	0	24.66	24.65	24.66	26.0	1.0	
50	QPSK	135	68	25.35	25.42	25.24	27.0	0.0	
50	QPSK	135	135	24.58	24.50	24.76	26.0	1.0	
50	QPSK	270	0	24.63	24.68	24.61			
50	16QAM	1	1	24.59	24.61	24.59	26.0	1.0	
50	64QAM	1	1	23.12	23.17	23.16	24.5	2.5	
50	256QAM	1	1	20.94	20.95	20.87	22.5	4.5	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	25.31	25.46	25.33	27.0	0.0	
Channel				647334	656000	663666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	25.31	25.46	25.34	27.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	25.30	25.44	25.34	27.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	25.29	25.44	25.36	27.0	0.0	

Part27Q n77 PC3 Ant2 Default power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334	633334	633334			
Frequency (MHz)				3500.01					
50	Pi/2 BPSK	1	1			22.80			
50	Pi/2 BPSK	1	135			23.55	24.0	0.0	
50	Pi/2 BPSK	1	268			22.65			
50	Pi/2 BPSK	135	0			23.41			
50	Pi/2 BPSK	135	68			23.47	24.0	0.0	
50	Pi/2 BPSK	135	135			23.47			
50	Pi/2 BPSK	270	0			23.52	24.0	0.0	
50	QPSK	1	1			22.75			
50	QPSK	1	135			23.58	24.0	0.0	
50	QPSK	1	268			22.60			
50	QPSK	135	0			23.51			
50	QPSK	135	68			23.52	24.0	0.0	
50	QPSK	135	135			23.47			
50	QPSK	270	0			23.50	24.0	0.0	
50	16QAM	1	1			22.47	24.0	0.0	
50	64QAM	1	1			23.17	23.5	0.5	
50	256QAM	1	1			21.24	21.5	2.5	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	23.37	23.35	23.26	24.0	0.0	
Channel				630556	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	23.41	23.46	23.47	24.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19	23.48	23.54	23.56	24.0	0.0	
Channel				630334	633334	633334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.51			
10	QPSK	1	12	23.44	23.56	23.37	24.0	0.0	



Part27Q n77 PC2 Ant2 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				633334	633334	633334			
Frequency (MHz)				3500.01	3500.01	3500.01			
50	PI/2 BPSK	1	1		25.02				
50	PI/2 BPSK	1	135		25.37		27.0	0.0	
50	PI/2 BPSK	1	268		24.72				
50	PI/2 BPSK	135	0		25.25		26.5	0.5	
50	PI/2 BPSK	135	68		25.39		27.0	0.0	
50	PI/2 BPSK	135	135		25.29		26.5	0.5	
50	PI/2 BPSK	270	0		25.35				
50	QPSK	1	1		25.09				
50	QPSK	1	135		25.46		27.0	0.0	
50	QPSK	1	268		25.00				
50	QPSK	135	0		24.70		27.0	0.0	
50	QPSK	135	68		25.39		27.0	0.0	
50	QPSK	135	135		24.68		27.0	0.0	
50	QPSK	270	0		24.85				
50	16QAM	1	1		23.85		26.0	1.0	
50	64QAM	1	1		23.17		24.5	2.5	
50	256QAM	1	1		21.08		22.5	4.5	
Channel									
Frequency (MHz)				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53		25.23	25.30	25.33	27.0	0.0
Channel									
Frequency (MHz)				630958	633334	635800			
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26		25.24	25.31	25.34	27.0	0.0
Channel									
Frequency (MHz)				630500	633334	636168			
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19		25.20	25.31	25.30	27.0	0.0
Channel									
Frequency (MHz)				630333	633334	636334			
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12		25.20	25.29	25.31	27.0	0.0

Part27O n78 PC3 Ant2 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
50	PI/2 BPSK	1	1		22.58				
50	PI/2 BPSK	1	135		23.32		24.0	0.0	
50	PI/2 BPSK	1	268		22.54				
50	PI/2 BPSK	135	0		23.30		24.0	0.0	
50	PI/2 BPSK	135	68		23.32		24.0	0.0	
50	PI/2 BPSK	135	135		23.33		24.0	0.0	
50	PI/2 BPSK	270	0		23.28				
50	QPSK	1	1		22.56				
50	QPSK	1	135		23.34		24.0	0.0	
50	QPSK	1	268		22.57				
50	QPSK	135	0		23.26		24.0	0.0	
50	QPSK	135	68		23.30		24.0	0.0	
50	QPSK	135	135		23.25		24.0	0.0	
50	QPSK	270	0		23.25				
50	16QAM	1	1		22.56		24.0	0.0	
50	64QAM	1	1		22.57		23.5	0.5	
50	256QAM	1	1		21.37		21.5	2.5	
Channel									
Frequency (MHz)				648000	650000	652000			
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53		23.27	23.17	23.31	24.0	0.0
Channel									
Frequency (MHz)				647334	650000	650668			
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26		23.27	23.16	23.31	24.0	0.0
Channel									
Frequency (MHz)				647168	650000	652834			
Frequency (MHz)				3707.52	3750	3792.61			
15	QPSK	1	19		23.31	23.16	23.31	24.0	0.0
Channel									
Frequency (MHz)				647000	650000	653000			
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12		23.29	23.14	23.31	24.0	0.0

Part27O n78 PC2 Ant2 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
50	PI/2 BPSK	1	1		25.10				
50	PI/2 BPSK	1	135		25.39		27.0	0.0	
50	PI/2 BPSK	1	268		25.12				
50	PI/2 BPSK	135	0		25.10		26.5	0.5	
50	PI/2 BPSK	135	68		25.39		27.0	0.0	
50	PI/2 BPSK	135	135		25.02		26.5	0.5	
50	PI/2 BPSK	270	0		24.96				
50	QPSK	1	1		25.13				
50	QPSK	1	135		25.45		27.0	0.0	
50	QPSK	1	268		25.12				
50	QPSK	135	0		25.12		27.0	0.0	
50	QPSK	135	68		25.39		27.0	0.0	
50	QPSK	135	135		24.46		27.0	0.0	
50	QPSK	270	0		24.61				
50	16QAM	1	1		23.81		26.0	1.0	
50	64QAM	1	1		23.14		24.5	2.5	
50	256QAM	1	1		20.97		22.5	4.5	
Channel									
Frequency (MHz)				648000	650000	652000			
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53		25.33	25.18	25.30	27.0	0.0
Channel									
Frequency (MHz)				647334	650000	650668			
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26		25.34	25.18	25.30	27.0	0.0
Channel									
Frequency (MHz)				647168	650000	652834			
Frequency (MHz)				3707.52	3750	3792.61			
15	QPSK	1	19		25.34	25.16	25.31	27.0	0.0
Channel									
Frequency (MHz)				647000	650000	653000			
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12		25.30	25.16	25.30	27.0	0.0



Part27Q 78 PC3 Ant2 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3500.01				
50	PI/2 BPSK	1	1	22.38			24.0	0.0
50	PI/2 BPSK	1	135	23.20				
50	PI/2 BPSK	1	268	22.32				
50	PI/2 BPSK	135	0	23.17			24.0	0.0
50	PI/2 BPSK	135	68	23.20				
50	PI/2 BPSK	135	135	23.21				
50	PI/2 BPSK	270	0	23.19			24.0	0.0
50	QPSK	1	1	22.37				
50	QPSK	1	135	23.29				
50	QPSK	1	268	22.34			24.0	0.0
50	QPSK	135	0	23.19				
50	QPSK	135	68	23.26				
50	QPSK	135	135	23.23			24.0	0.0
50	QPSK	270	0	23.24				
50	16QAM	1	1	22.34				
50	64QAM	1	1	22.75			23.5	0.5
50	256QAM	1	1	20.84			21.5	2.5
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	23.18	23.17	23.19	24.0	0.0
Channel				630968	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	23.17	23.18	23.22	24.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	23.19	23.16	23.19	24.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	23.18	23.16	23.20	24.0	0.0

Part27Q 78 PC2 Ant2 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3500.01				
50	PI/2 BPSK	1	1	25.12			27.0	0.0
50	PI/2 BPSK	1	135	25.28				
50	PI/2 BPSK	1	268	25.10				
50	PI/2 BPSK	135	0	24.99			26.5	0.5
50	PI/2 BPSK	135	68	25.29			27.0	0.0
50	PI/2 BPSK	135	135	24.93			26.5	0.5
50	PI/2 BPSK	270	0	24.87				
50	QPSK	1	1	25.11				
50	QPSK	1	135	25.36			27.0	0.0
50	QPSK	1	268	25.09				
50	QPSK	135	0	25.05				
50	QPSK	135	68	25.29			27.0	0.0
50	QPSK	135	135	24.36			27.0	0.0
50	QPSK	270	0	24.49				
50	16QAM	1	1	23.73				
50	64QAM	1	1	22.82			24.5	2.5
50	256QAM	1	1	20.87			22.5	4.5
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	25.21	25.08	25.22	27.0	0.0
Channel				630568	633334	636200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	25.23	25.07	25.21	27.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	25.21	25.08	25.19	27.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	25.22	25.09	25.20	27.0	0.0



Par270 n77 PC3 Ant3 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				648334	656000	663666		
Frequency (MHz)				3725.01	3840	3955.02		
50	PI/2 BPSK	1	1	22.25	22.38	22.40	24.0	0.0
50	PI/2 BPSK	1	135	23.18	23.38	23.31		
50	PI/2 BPSK	1	268	22.22	22.39	22.33		
50	PI/2 BPSK	135	0	23.18	23.22	23.24	24.0	0.0
50	PI/2 BPSK	135	68	23.24	23.19	23.29	24.0	0.0
50	PI/2 BPSK	135	135	23.09	23.23	23.09	24.0	0.0
50	PI/2 BPSK	270	0	23.16	23.18	23.10		
50	QPSK	1	1	22.25	22.31	22.35		
50	QPSK	1	135	23.44	23.53	23.31	24.0	0.0
50	QPSK	1	268	22.06	22.37	22.28		
50	QPSK	135	0	23.07	23.22	23.19	24.0	0.0
50	QPSK	135	68	23.21	23.41	23.22	24.0	0.0
50	QPSK	135	135	23.30	23.31	23.13	24.0	0.0
50	QPSK	270	0	23.17	23.29	22.91		
50	16QAM	1	1	22.22	22.07	22.20	24.0	0.0
50	64QAM	1	1	22.87	22.87	22.89	23.5	0.5
50	256QAM	1	1	21.14	21.18	21.08	21.5	2.5
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	23.38	23.38	23.36	24.0	0.0
Channel				647334	656000	663666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	23.28	23.41	23.30	24.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	23.40	23.43	23.24	24.0	0.0
Channel				647000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	23.36	23.31	23.25	24.0	0.0

Par270 n77 PC2 Ant3 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				648334	656000	663666		
Frequency (MHz)				3725.01	3840	3955.02		
50	PI/2 BPSK	1	1	25.49	25.43	25.36	27.0	0.0
50	PI/2 BPSK	1	135	25.97	26.19	25.98		
50	PI/2 BPSK	1	268	25.29	25.53	25.24		
50	PI/2 BPSK	135	0	26.16	26.28	26.07	26.5	0.5
50	PI/2 BPSK	135	68	25.20	26.36	26.14	27.0	0.0
50	PI/2 BPSK	135	135	26.08	26.16	26.25	26.5	0.5
50	PI/2 BPSK	270	0	26.12	26.28	26.13		
50	QPSK	1	1	25.64	25.57	25.57		
50	QPSK	1	135	26.07	26.37	26.35	27.0	0.0
50	QPSK	1	268	25.64	25.51	25.58		
50	QPSK	135	0	25.34	25.31	25.33	26.0	1.0
50	QPSK	135	68	26.22	26.23	26.05	27.0	0.0
50	QPSK	135	135	25.44	25.54	25.53	26.0	1.0
50	QPSK	270	0	25.48	25.54	25.44		
50	16QAM	1	1	24.61	24.53	24.42	26.0	1.0
50	64QAM	1	1	23.87	23.86	23.88	24.5	2.5
50	256QAM	1	1	21.79	21.76	21.61	22.5	4.5
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	25.90	26.11	25.92	27.0	0.0
Channel				647334	656000	663666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	25.87	25.93	25.88	27.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	25.92	25.94	26.03	27.0	0.0
Channel				647000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	25.96	26.00	25.84	27.0	0.0

Part27Q n77 PC3 Ant3 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334	633334	6350.01		
Frequency (MHz)				3500.01				
50	PI/2 BPSK	1	1		22.83			
50	PI/2 BPSK	1	135		23.47		24.0	0.0
50	PI/2 BPSK	1	268		22.61			
50	PI/2 BPSK	135	0		23.30		24.0	0.0
50	PI/2 BPSK	135	68		23.32			
50	PI/2 BPSK	135	135		23.33			
50	PI/2 BPSK	270	0		23.40		24.0	0.0
50	QPSK	1	1		22.71			
50	QPSK	1	135		23.49		24.0	0.0
50	QPSK	1	268		22.50			
50	QPSK	135	0		23.36			
50	QPSK	135	68		23.38		24.0	0.0
50	QPSK	135	135		23.36			
50	QPSK	270	0		23.35		24.0	0.0
50	16QAM	1	1		22.96		24.0	0.0
50	64QAM	1	1		22.95		23.5	0.5
50	256QAM	1	1		20.94		21.5	2.5
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	23.45	23.45	23.47	24.0	0.0
Channel				630968	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	23.20	23.20	23.27	24.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	23.28	23.14	23.16	24.0	0.0
Channel				630334	633334	633334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3458.01	3500.01	3545.01		
10	QPSK	1	12	23.20	23.16	23.30	24.0	0.0



Part27Q n77 PC2 Ant3 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3500.01				
50	PI/2 BPSK	1	1	25.41			27.0	0.0
50	PI/2 BPSK	1	135	25.91				
50	PI/2 BPSK	1	268	25.22				
50	PI/2 BPSK	135	0	25.81			26.5	0.5
50	PI/2 BPSK	135	68	25.95			27.0	0.0
50	PI/2 BPSK	135	135	25.95				
50	PI/2 BPSK	270	0	26.00			26.5	0.5
50	QPSK	1	1	25.59				
50	QPSK	1	135	26.23			27.0	0.0
50	QPSK	1	268	25.28				
50	QPSK	135	0	25.29			27.0	0.0
50	QPSK	135	68	26.03			27.0	0.0
50	QPSK	135	135	25.33			27.0	0.0
50	QPSK	270	0	25.53				
50	16QAM	1	1	24.50			26.0	1.0
50	84QAM	1	1	23.58			24.5	2.5
50	256QAM	1	1	21.63			22.5	4.5
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	26.12	26.19	26.19	27.0	0.0
Channel				630598	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540.02		
20	QPSK	1	26	26.17	26.13	26.11	27.0	0.0
Channel				630500	633334	636168		
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	26.17	26.22	26.20	27.0	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	26.14	26.17	26.19	27.0	0.0

Part27O n78 PC3 Ant3 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
50	PI/2 BPSK	1	1	22.37			24.0	0.0
50	PI/2 BPSK	1	135	23.32				
50	PI/2 BPSK	1	268	22.42				
50	PI/2 BPSK	135	0	23.29			24.0	0.0
50	PI/2 BPSK	135	68	23.37			24.0	0.0
50	PI/2 BPSK	135	135	23.33				
50	PI/2 BPSK	270	0	23.25			24.0	0.0
50	QPSK	1	1	22.44				
50	QPSK	1	135	23.40			24.0	0.0
50	QPSK	1	268	22.48				
50	QPSK	135	0	23.31			24.0	0.0
50	QPSK	135	68	23.38			24.0	0.0
50	QPSK	135	135	23.35			24.0	0.0
50	QPSK	270	0	23.36				
50	16QAM	1	1	22.15			24.0	0.0
50	84QAM	1	1	22.75			23.5	0.5
50	256QAM	1	1	20.87			21.5	2.5
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	53	23.13	23.35	23.32	24.0	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	26	23.08	23.31	23.13	24.0	0.0
Channel				647168	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	19	23.15	23.30	23.26	24.0	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	12	23.16	23.23	23.33	24.0	0.0

Part27O n78 PC2 Ant3 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
50	PI/2 BPSK	1	1	25.73			27.0	0.0
50	PI/2 BPSK	1	135	26.19				
50	PI/2 BPSK	1	268	25.66				
50	PI/2 BPSK	135	0	25.88			26.5	0.5
50	PI/2 BPSK	135	68	26.20			27.0	0.0
50	PI/2 BPSK	135	135	25.82				
50	PI/2 BPSK	270	0	25.75			26.5	0.5
50	QPSK	1	1	25.84				
50	QPSK	1	135	26.22			27.0	0.0
50	QPSK	1	268	25.73				
50	QPSK	135	0	25.91			27.0	0.0
50	QPSK	135	68	26.21			27.0	0.0
50	QPSK	135	135	25.25			27.0	0.0
50	QPSK	270	0	25.40				
50	16QAM	1	1	24.65			26.0	1.0
50	84QAM	1	1	23.78			24.5	2.5
50	256QAM	1	1	21.98			22.5	4.5
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	53	26.03	26.20	26.10	27.0	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	26	25.89	26.18	26.16	27.0	0.0
Channel				647168	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	19	26.05	26.17	26.08	27.0	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	12	26.02	26.15	25.96	27.0	0.0



Part27Q 78 PC3 Ant3 Default power									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
50	Pi/2 BPSK	1	1	22.48			24.0	0.0	
50	Pi/2 BPSK	1	135	23.27					
50	Pi/2 BPSK	1	268	22.42					
50	Pi/2 BPSK	135	0	23.36			24.0	0.0	
50	Pi/2 BPSK	135	68	23.34					
50	Pi/2 BPSK	135	135	23.18					
50	Pi/2 BPSK	270	0	23.23			24.0	0.0	
50	QPSK	1	1	22.52					
50	QPSK	1	135	23.39			24.0	0.0	
50	QPSK	1	268	22.43					
50	QPSK	135	0	23.32					
50	QPSK	135	68	23.33			24.0	0.0	
50	QPSK	135	135	23.23					
50	QPSK	270	0	23.26			24.0	0.0	
50	16QAM	1	1	22.29			24.0	0.0	
50	64QAM	1	1	22.85			23.5	0.5	
50	256QAM	1	1	20.92			21.5	2.5	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	24.0	0.0	
40	QPSK	1	53	23.36	23.34	23.33	24.0	0.0	
Channel				636668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	24.0	0.0	
20	QPSK	1	26	23.31	23.38	23.32	24.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52	24.0	0.0	
15	QPSK	1	19	23.33	23.32	23.38	24.0	0.0	
Channel				630334	633334	633334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01	24.0	0.0	
10	QPSK	1	12	23.35	23.33	23.32	24.0	0.0	

Part27Q 78 PC2 Ant3 Default power									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
50	Pi/2 BPSK	1	1	25.48			27.0	0.0	
50	Pi/2 BPSK	1	135	25.87					
50	Pi/2 BPSK	1	268	25.34					
50	Pi/2 BPSK	135	0	25.77			26.5	0.5	
50	Pi/2 BPSK	135	68	25.00			27.0	0.0	
50	Pi/2 BPSK	135	135	25.70			26.5	0.5	
50	Pi/2 BPSK	270	0	25.70					
50	QPSK	1	1	25.66					
50	QPSK	1	135	26.02			27.0	0.0	
50	QPSK	1	268	25.61					
50	QPSK	135	0	25.22			27.0	0.0	
50	QPSK	135	68	26.00			27.0	0.0	
50	QPSK	135	135	25.23			27.0	0.0	
50	QPSK	270	0	25.21					
50	16QAM	1	1	24.64			26.0	1.0	
50	64QAM	1	1	23.67			24.5	2.5	
50	256QAM	1	1	21.48			22.5	4.5	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	27.0	0.0	
40	QPSK	1	53	25.87	25.82	25.88	27.0	0.0	
Channel				636668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	27.0	0.0	
20	QPSK	1	26	25.94	25.90	25.86	27.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52	27.0	0.0	
15	QPSK	1	19	26.86	25.90	25.94	27.0	0.0	
Channel				630334	633334	633334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01	27.0	0.0	
10	QPSK	1	12	26.00	25.92	25.82	27.0	0.0	



n5 Ant4 Default power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				16650	16700	16750		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	24.12	23.97	23.87		
20	PI/2 BPSK	1	53	23.74	23.89	23.79	25.5	0.0
20	PI/2 BPSK	1	104	23.55	23.78	23.64		
20	PI/2 BPSK	50	0	23.42	23.55	23.35	25.0	0.5
20	PI/2 BPSK	50	28	24.04	24.06	23.85	25.5	0.0
20	PI/2 BPSK	50	56	23.38	23.48	23.25		
20	PI/2 BPSK	100	0	23.43	23.60	23.44	25.0	0.5
20	QPSK	1	1	23.94	24.15	24.03		
20	QPSK	1	53	23.90	23.93	23.88	25.5	0.0
20	QPSK	1	104	23.71	23.93	23.53		
20	QPSK	50	0	22.79	23.10	22.95	24.5	1.0
20	QPSK	50	28	23.75	23.98	23.64	25.5	0.0
20	QPSK	50	56	23.12	23.10	23.09		
20	QPSK	100	0	23.13	23.15	23.12	24.5	1.0
20	16QAM	1	1	23.12	23.15	23.10	24.5	1.0
1	64QAM	1	1	21.65	21.68	21.65	23.0	2.5
20	256QAM	1	1	19.50	19.63	19.45	21.0	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.73	23.93	23.91	25.5	0.0
Channel				165900	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				820	836.5	844		
10	QPSK	1	1	23.77	23.97	23.89	25.5	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.89	23.90	23.84	25.5	0.0

n7 Ant4 Default power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				50200	50700	51200		
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	24.30	24.58	24.67		
20	PI/2 BPSK	1	53	24.58	24.64	24.62	25.5	0.0
20	PI/2 BPSK	1	104	24.30	24.49	24.11		
20	PI/2 BPSK	50	0	24.11	24.04	24.01	25.0	0.5
20	PI/2 BPSK	50	28	24.53	24.48	24.41	25.5	0.0
20	PI/2 BPSK	50	56	23.90	23.98	24.00		
20	PI/2 BPSK	100	0	24.03	24.19	24.03	25.0	0.5
20	QPSK	1	1	24.53	24.69	24.46		
20	QPSK	1	53	24.51	24.67	24.56	25.5	0.0
20	QPSK	1	104	24.39	24.60	24.31		
20	QPSK	50	0	23.43	23.98	23.49	24.5	1.0
20	QPSK	50	28	24.31	24.56	24.31	25.5	0.0
20	QPSK	50	56	23.67	23.85	23.62		
20	QPSK	100	0	23.65	23.69	23.60	24.5	1.0
20	16QAM	1	1	23.48	23.34	23.41	24.5	1.0
20	64QAM	1	1	22.08	22.09	21.93	23.0	2.5
20	256QAM	1	1	20.34	20.47	20.33	21.0	4.5
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	24.50	24.53	24.30	25.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	24.43	24.60	24.30	25.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	24.51	24.63	24.40	25.5	0.0



n38 Ant4 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				516000	519000	522000		
Frequency (MHz)				2550	2595	2610		
20	PI/2 BPSK	1	1	24.32	24.40	24.28		
20	PI/2 BPSK	1	53	24.44	24.44	24.33	25.5	0.0
20	PI/2 BPSK	1	104	24.34	24.36	24.33		
20	PI/2 BPSK	50	0	23.95	23.97	23.81	25.0	0.5
20	PI/2 BPSK	50	28	23.32	24.40	24.19	25.5	0.0
20	PI/2 BPSK	50	56	24.05	24.03	23.85	25.0	0.5
20	PI/2 BPSK	100	0	23.92	23.99	23.86		
20	QPSK	1	1	24.41	24.49	24.36		
20	QPSK	1	53	24.35	24.37	24.20	25.5	0.0
20	QPSK	1	104	24.20	24.32	24.23		
20	QPSK	50	0	23.58	23.58	23.45	24.5	1.0
20	QPSK	50	28	24.43	24.48	24.39	25.5	0.0
20	QPSK	50	56	23.51	23.59	23.57	24.5	1.0
20	QPSK	100	0	23.61	23.66	23.53		
20	16QAM	1	1	23.56	23.59	23.58	24.5	1.0
20	64QAM	1	1	21.96	21.96	21.86	23.0	2.5
20	256QAM	1	1	20.14	20.23	20.14	21.0	4.5
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	PI/2 BPSK	1	1	24.31	24.38	24.37	25.5	0.0
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	PI/2 BPSK	1	1	24.39	24.41	24.35	25.5	0.0
Channel				515000	519000	523000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
5	QPSK	1	1	24.39	24.37	24.37	25.5	0.0

n41 PC3 Ant4 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2654.99		
50	PI/2 BPSK	1	1	23.28	23.27	23.05		
50	PI/2 BPSK	1	135	24.01	24.21	24.00	24.5	0.0
50	PI/2 BPSK	1	268	23.38	23.38	23.31		
50	PI/2 BPSK	135	0	23.94	24.04	23.83	24.0	0.5
50	PI/2 BPSK	135	68	24.19	24.14	23.85	24.5	0.0
50	PI/2 BPSK	135	135	24.00	24.08	23.84	24.0	0.5
50	PI/2 BPSK	270	0	24.04	24.16	23.84		
50	QPSK	1	1	23.09	23.10	23.13		
50	QPSK	1	135	24.09	24.29	24.14	24.5	0.0
50	QPSK	1	268	23.41	23.27	23.29		
50	QPSK	135	0	23.94	23.89	23.81	23.5	1.0
50	QPSK	135	68	24.09	24.28	24.14	24.5	0.0
50	QPSK	135	135	23.87	24.09	24.14	23.5	1.0
50	QPSK	270	0	23.86	24.01	23.87		
50	16QAM	1	1	23.13	23.19	22.84	23.5	1.0
50	64QAM	1	1	22.94	23.05	23.09	22.0	2.5
50	256QAM	1	1	22.23	22.17	22.22	20.0	4.5
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	53	22.93	23.04	22.93	24.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.02	2592.99	2679.99		
20	QPSK	1	26	22.87	22.95	22.98	24.5	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	19	23.05	23.00	22.93	24.5	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	12	23.00	23.09	23.10	24.5	0.0

n41 PC2 Ant4 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2654.99		
50	PI/2 BPSK	1	1	23.00	23.24	23.05		
50	PI/2 BPSK	1	135	24.45	24.59	24.56	26.0	0.0
50	PI/2 BPSK	1	268	23.86	23.83	23.80		
50	PI/2 BPSK	135	0	24.06	24.14	24.08	25.5	0.5
50	PI/2 BPSK	135	68	24.33	24.44	24.21	26.0	0.0
50	PI/2 BPSK	135	135	24.35	24.42	24.38	25.5	0.5
50	PI/2 BPSK	270	0	24.10	24.27	24.19		
50	QPSK	1	1	23.20	23.27	23.12		
50	QPSK	1	135	24.38	24.64	24.61	26.0	0.0
50	QPSK	1	268	23.71	23.91	23.80		
50	QPSK	135	0	23.19	23.29	23.11	25.0	1.0
50	QPSK	135	68	24.55	24.60	24.44	26.0	0.0
50	QPSK	135	135	23.40	23.53	23.50	25.0	1.0
50	QPSK	270	0	23.26	23.49	23.32		
50	16QAM	1	1	23.29	23.46	23.43	26.0	1.0
50	64QAM	1	1	21.71	21.88	21.86	23.5	2.5
50	256QAM	1	1	20.08	20.08	19.87	21.5	4.5
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	53	24.52	24.58	24.53	26.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.02	2592.99	2679.99		
20	QPSK	1	26	23.58	24.61	24.62	26.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	19	24.62	24.58	24.62	26.0	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	12	24.62	24.59	24.60	26.0	0.0



Par270 n77 PC3 Ant5 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				648334	656000	663666		
Frequency (MHz)				3725.01	3840	3955.02		
50	PI/2 BPSK	1	1	22.29	22.25	22.24	24.0	0.0
50	PI/2 BPSK	1	135	22.25	22.25	22.23		
50	PI/2 BPSK	1	268	22.23	22.22	22.22		
50	PI/2 BPSK	135	0	22.37	22.37	22.35	24.0	0.0
50	PI/2 BPSK	135	68	22.37	22.43	22.46	24.0	0.0
50	PI/2 BPSK	135	135	22.34	22.34	22.34	24.0	0.0
50	PI/2 BPSK	270	0	22.43	22.44	22.46		
50	QPSK	1	1	22.38	22.42	22.45		
50	QPSK	1	135	22.37	22.49	22.44	24.0	0.0
50	QPSK	1	268	22.24	22.22	22.20	24.0	0.0
50	QPSK	135	0	22.44	22.44	22.44	24.0	0.0
50	QPSK	135	68	22.39	22.47	22.42	24.0	0.0
50	QPSK	135	135	22.33	22.35	22.31	24.0	0.0
50	QPSK	270	0	22.30	22.37	22.27	24.0	0.0
50	16QAM	1	1	22.12	22.13	22.13	24.0	0.0
50	64QAM	1	1	22.24	22.20	22.21	24.0	0.0
50	256QAM	1	1	21.31	21.16	21.26	22.5	1.5
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	24.0	0.0
40	QPSK	1	53	22.43	22.39	22.28	24.0	0.0
Channel				647334	656000	664666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	24.0	0.0
20	QPSK	1	26	22.43	22.46	22.45	24.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51	24.0	0.0
15	QPSK	1	19	22.37	22.45	22.34	24.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	24.0	0.0
10	QPSK	1	12	22.35	22.42	22.39	24.0	0.0

Part27Q n77 PC3 Ant5 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334	633334	633334		
Frequency (MHz)				3500.01	3500.01	3500.01		
50	PI/2 BPSK	1	1	22.09	22.09	22.09	24.0	0.0
50	PI/2 BPSK	1	135	22.27	22.27	22.14		
50	PI/2 BPSK	1	268	22.23	22.22	22.22		
50	PI/2 BPSK	135	0	22.29	22.29	22.29	24.0	0.0
50	PI/2 BPSK	135	68	22.27	22.27	22.27		
50	PI/2 BPSK	135	135	22.26	22.26	22.26		
50	PI/2 BPSK	270	0	22.31	22.31	22.31	24.0	0.0
50	QPSK	1	1	22.13	22.13	22.13	24.0	0.0
50	QPSK	1	135	22.34	22.34	22.34	24.0	0.0
50	QPSK	1	268	22.13	22.13	22.13	24.0	0.0
50	QPSK	135	0	22.24	22.24	22.24	24.0	0.0
50	QPSK	135	68	22.29	22.29	22.29	24.0	0.0
50	QPSK	135	135	22.10	22.10	22.10	24.0	0.0
50	QPSK	270	0	22.29	22.29	22.29	24.0	0.0
50	16QAM	1	1	22.18	22.18	22.18	24.0	0.0
50	64QAM	1	1	22.15	22.15	22.15	24.0	0.0
50	256QAM	1	1	21.13	21.13	21.13	22.5	1.5
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01	24.0	0.0
40	QPSK	1	53	22.30	22.29	22.29	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540	24.0	0.0
20	QPSK	1	26	22.31	22.26	22.25	24.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52	24.0	0.0
15	QPSK	1	19	22.32	22.28	22.26	24.0	0.0
Channel				630332	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01	24.0	0.0
10	QPSK	1	12	22.32	22.26	22.29	24.0	0.0



Part27O n78 PC3 Ant5 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				648334	650000	651666		
Frequency (MHz)				3726.01	3750	3775.02		
50	PI/2 BPSK	1	1	22.24	22.25	22.21	24.0	0.0
50	PI/2 BPSK	1	135	22.26	22.24	22.25		
50	PI/2 BPSK	1	268	22.22	22.22	22.21		
50	PI/2 BPSK	135	0	22.24	22.27	22.23	24.0	0.0
50	PI/2 BPSK	135	68	22.26	22.22	22.24	24.0	0.0
50	PI/2 BPSK	135	135	22.21	22.20	22.23	24.0	0.0
50	PI/2 BPSK	270	0	22.21	22.21	22.21		
50	QPSK	1	1	22.11	22.12	22.13		
50	QPSK	1	135	22.34	22.36	22.30	24.0	0.0
50	QPSK	1	268	22.23	22.22	22.25		
50	QPSK	135	0	22.05	22.05	22.06		
50	QPSK	135	68	22.23	22.25	22.22	24.0	0.0
50	QPSK	135	135	22.13	22.13	22.10	24.0	0.0
50	QPSK	270	0	22.24	22.25	22.20	24.0	0.0
50	16QAM	1	1	22.21	22.21	22.22	24.0	0.0
50	64QAM	1	1	22.10	22.13	22.13	24.0	0.0
50	256QAM	1	1	21.16	21.13	21.12	22.5	1.5
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	53	22.26	22.34	22.22	24.0	0.0
Channel				647334	650000	652666	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	26	22.30	22.32	22.23	24.0	0.0
Channel				647168	650000	652834	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	19	22.32	22.32	22.20	24.0	0.0
Channel				647000	650000	653000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	12	22.30	22.34	22.23	24.0	0.0

Part27Q 78 PC3 Ant5 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334	633334	633334		
Frequency (MHz)				3500.01				
50	PI/2 BPSK	1	1			22.13	24.0	0.0
50	PI/2 BPSK	1	135			22.24		
50	PI/2 BPSK	1	268			22.24		
50	PI/2 BPSK	135	0			22.19	24.0	0.0
50	PI/2 BPSK	135	68			22.18		
50	PI/2 BPSK	135	135			22.20		
50	PI/2 BPSK	270	0			22.18	24.0	0.0
50	QPSK	1	1			21.99	24.0	0.0
50	QPSK	1	135			22.26		
50	QPSK	1	268			22.23		
50	QPSK	135	0			22.21	24.0	0.0
50	QPSK	135	68			22.24		
50	QPSK	135	135			22.09		
50	QPSK	270	0			22.21	24.0	0.0
50	16QAM	1	1			22.03	24.0	0.0
50	64QAM	1	1			22.05	24.0	0.0
50	256QAM	1	1			21.05	22.5	1.5
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	22.07	22.03	22.04	24.0	0.0
Channel				630500	633334	636168	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	22.04	22.04	22.06	24.0	0.0
Channel				630500	633334	636168	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	22.04	22.01	22.05	24.0	0.0
Channel				630334	633334	636334	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	22.05	22.03	22.05	24.0	0.0



Par27O n77 PC3 Ant6 Default power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				846334	666000	663968			
Frequency (MHz)				3725.01	3640	3555.02			
50	Pi/2 BPSK	1	1	22.18	22.18	22.20			
50	Pi/2 BPSK	1	135	22.16	22.18	22.16	23.0	0.0	
50	Pi/2 BPSK	1	268	22.15	22.15	22.17			
50	Pi/2 BPSK	135	0	22.29	22.24	22.29	23.0	0.0	
50	Pi/2 BPSK	135	68	22.31	22.35	22.33	23.0	0.0	
50	Pi/2 BPSK	135	135	22.27	22.28	22.25			
50	Pi/2 BPSK	270	0	22.36	22.35	22.30	23.0	0.0	
50	QPSK	1	1	22.29	22.36	22.32			
50	QPSK	1	135	22.33	22.38	22.35	23.0	0.0	
50	QPSK	1	268	22.15	22.15	22.11			
50	QPSK	135	0	22.32	22.32	22.34	23.0	0.0	
50	QPSK	135	68	22.30	22.35	22.33	23.0	0.0	
50	QPSK	135	135	22.24	22.25	22.25	23.0	0.0	
50	QPSK	270	0	22.20	22.30	22.27			
50	16QAM	1	1	22.05	22.08	22.04	23.0	0.0	
50	64QAM	1	1	22.16	22.14	22.12	23.0	0.0	
50	256QAM	1	1	21.21	21.12	21.17	21.5	1.5	
Channel				648000	666000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	22.28	22.34	22.37	23.0	0.0	
Channel				647334	666000	664968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3640	3670.02			
20	QPSK	1	26	22.28	22.37	22.32	23.0	0.0	
Channel				647168	666000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	22.30	22.35	22.34	23.0	0.0	
Channel				647000	666000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	22.28	22.37	22.37	23.0	0.0	

Part27Q n77 PC3 Ant6 Default power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334	633334	633334			
Frequency (MHz)				3500.01					
50	Pi/2 BPSK	1	1			21.02			
50	Pi/2 BPSK	1	135			21.21			23.0
50	Pi/2 BPSK	1	268			21.05			
50	Pi/2 BPSK	135	0			21.22			23.0
50	Pi/2 BPSK	135	68			21.26			
50	Pi/2 BPSK	135	135			21.21			
50	Pi/2 BPSK	270	0			21.28			23.0
50	QPSK	1	1			21.09			
50	QPSK	1	135			21.29			23.0
50	QPSK	1	268			21.08			
50	QPSK	135	0			21.19			
50	QPSK	135	68			21.24			23.0
50	QPSK	135	135			21.05			
50	QPSK	270	0			21.24			23.0
50	16QAM	1	1			21.10			23.0
50	64QAM	1	1			21.11			23.0
50	256QAM	1	1			20.07			21.5
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	21.25	21.25	21.24	23.0	0.0	
Channel				630598	633334	636080	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	21.26	21.23	21.25	23.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19	21.24	21.22	21.22	23.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12	21.25	21.23	21.21	23.0	0.0	



Part27O n78 PC3 Ant6 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				648334	650000	651688		
Frequency (MHz)				3726.01	3750	3775.02		
50	PI/2 BPSK	1	1	22.17				
50	PI/2 BPSK	1	135	22.21			23.0	0.0
50	PI/2 BPSK	1	268	22.19				
50	PI/2 BPSK	135	0	22.20			23.0	0.0
50	PI/2 BPSK	135	68	22.18			23.0	0.0
50	PI/2 BPSK	135	135	22.16				
50	PI/2 BPSK	270	0	22.20			23.0	0.0
50	QPSK	1	1	22.08				
50	QPSK	1	135	22.32			23.0	0.0
50	QPSK	1	268	22.18				
50	QPSK	135	0	22.01			23.0	0.0
50	QPSK	135	68	22.16			23.0	0.0
50	QPSK	135	135	22.06			23.0	0.0
50	QPSK	270	0	22.18				
50	16QAM	1	1	22.15			23.0	0.0
50	64QAM	1	1	22.10			23.0	0.0
50	256QAM	1	1	21.10			21.5	1.5
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	53	22.11	22.20	22.04	23.0	0.0
Channel				647334	650000	652666	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	26	22.12	22.17	22.04	23.0	0.0
Channel				647168	650000	652834	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	19	22.11	22.18	22.05	23.0	0.0
Channel				647000	650000	653000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	12	22.11	22.18	22.04	23.0	0.0

Part27Q 78 PC3 Ant6 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334	633334	633334		
Frequency (MHz)				3500.01				
50	PI/2 BPSK	1	1	21.02				
50	PI/2 BPSK	1	135	21.11			23.0	0.0
50	PI/2 BPSK	1	268	21.14				
50	PI/2 BPSK	135	0	21.10				
50	PI/2 BPSK	135	68	21.07			23.0	0.0
50	PI/2 BPSK	135	135	21.12				
50	PI/2 BPSK	270	0	21.10			23.0	0.0
50	QPSK	1	1	21.08				
50	QPSK	1	135	21.21			23.0	0.0
50	QPSK	1	268	21.15				
50	QPSK	135	0	21.09				
50	QPSK	135	68	21.19			23.0	0.0
50	QPSK	135	135	20.99				
50	QPSK	270	0	21.09			23.0	0.0
50	16QAM	1	1	20.92			23.0	0.0
50	64QAM	1	1	20.85			23.0	0.0
50	256QAM	1	1	19.98			21.5	1.5
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	21.09	21.08	21.13	23.0	0.0
Channel				630500	633334	636168	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	21.11	21.09	21.12	23.0	0.0
Channel				630500	633334	636168	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	21.09	21.08	21.10	23.0	0.0
Channel				630334	633334	636334	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	21.11	21.08	21.10	23.0	0.0



Full Power level/Default Power level for 5G NR_DFT-30

n5 Ant1 Default power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	838		
20	PI/2 BPSK	1	1	23.87	24.07	23.93	25.5	0.0
20	PI/2 BPSK	1	26	23.82	24.01	23.85		
20	PI/2 BPSK	1	49	23.80	23.92	23.82		
20	PI/2 BPSK	25	0	23.70	23.78	23.59	25.0	0.5
20	PI/2 BPSK	25	13	23.81	24.03	23.81	25.5	0.0
20	PI/2 BPSK	25	26	23.55	23.69	23.61	25.0	0.5
20	PI/2 BPSK	50	0	23.55	23.74	23.69		
20	QPSK	1	1	23.90	24.11	24.07	25.5	0.0
20	QPSK	1	26	23.83	24.04	23.98		
20	QPSK	1	49	23.79	23.92	23.87		
20	QPSK	25	0	23.07	23.24	23.19	24.5	1.0
20	QPSK	25	13	23.87	24.06	23.89	25.5	0.0
20	QPSK	25	26	23.05	23.14	22.98		
20	QPSK	50	0	23.12	23.26	23.09	24.5	1.0
20	16QAM	1	1	22.81	22.91	22.76	24.5	1.0
20	64QAM	1	1	21.22	21.27	21.09	23.0	2.5
20	256QAM	1	1	19.55	19.69	19.61	21.0	4.5
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.87	23.94	23.60	25.5	0.0
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.86	23.98	23.86	25.5	0.0

n7 Ant1 Default power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	24.18	24.39	24.31	25.5	0.0
20	PI/2 BPSK	1	26	24.16	24.36	24.19		
20	PI/2 BPSK	1	49	24.13	24.26	24.04		
20	PI/2 BPSK	25	0	23.79	23.91	23.71	25.0	0.5
20	PI/2 BPSK	25	13	24.34	24.38	24.25	25.5	0.0
20	PI/2 BPSK	25	26	23.77	23.89	23.85	25.0	0.5
20	PI/2 BPSK	50	0	23.83	23.92	23.79		
20	QPSK	1	1	24.27	24.45	24.33	25.5	0.0
20	QPSK	1	26	24.38	24.42	24.24		
20	QPSK	1	49	24.08	24.24	24.14		
20	QPSK	25	0	23.30	23.41	23.32	24.5	1.0
20	QPSK	25	13	24.21	24.42	24.32	25.5	0.0
20	QPSK	25	26	23.52	23.54	23.51		
20	QPSK	50	0	23.55	23.59	23.51	24.5	1.0
20	16QAM	1	1	22.96	23.16	22.98	24.5	1.0
20	64QAM	1	1	21.65	21.78	21.64	23.0	2.5
20	256QAM	1	1	20.24	20.31	20.27	21.0	4.5
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	24.21	24.31	24.16	25.5	0.0
Channel				501000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	24.11	24.35	24.30	25.5	0.0



n38 Ant1 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518000	519000	520000		
Frequency (MHz)				2550	2555	2610		
20	PI/2 BPSK	1	1	23.89	23.96	23.81		
20	PI/2 BPSK	1	26	23.93	24.08	23.88	25.5	0.0
20	PI/2 BPSK	1	49	23.89	23.94	23.78		
20	PI/2 BPSK	25	0	23.39	23.49	23.27	25.0	0.5
20	PI/2 BPSK	25	13	24.00	24.02	23.81	25.5	0.0
20	PI/2 BPSK	25	26	23.45	23.48	23.38		
20	PI/2 BPSK	50	0	23.52	23.52	23.48	25.0	0.5
20	QPSK	1	1	23.94	24.12	24.05		
20	QPSK	1	26	24.00	24.01	23.78	25.5	0.0
20	QPSK	1	49	23.79	23.87	23.77		
20	QPSK	25	0	22.96	23.04	22.83	24.5	1.0
20	QPSK	25	13	23.98	24.03	23.93	25.5	0.0
20	QPSK	25	26	23.10	23.11	23.05		
20	QPSK	50	0	23.12	23.13	23.09		
20	16QAM	1	1	23.12	23.33	23.32	24.5	1.0
20	64QAM	1	1	21.12	21.17	21.17	23.0	2.5
20	256QAM	1	1	19.74	19.88	19.84	21.0	4.5
Channel				515502	519000	522498		
Frequency (MHz)				2577.51	2595	2612.49		
15	PI/2 BPSK	1	1	23.72	23.88	23.93	25.5	0.0
Channel				515504	519000	522500		
Frequency (MHz)				2575.02	2595	2614.98		
10	PI/2 BPSK	1	1	23.82	23.91	23.98	25.5	0.0

n41 PC3 Ant1 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	23.05	23.09	22.93		
100	PI/2 BPSK	1	137	23.74	23.81	23.81	24.5	0.0
100	PI/2 BPSK	1	271	22.87	23.01	22.99		
100	PI/2 BPSK	135	0	23.78	23.83	23.88	24.5	0.0
100	PI/2 BPSK	135	69	23.88	23.91	23.79	24.5	0.0
100	PI/2 BPSK	135	138	23.81	23.82	23.59		
100	PI/2 BPSK	270	0	23.59	23.78	23.58	24.5	0.0
100	QPSK	1	1	22.81	23.02	22.98		
100	QPSK	1	137	23.83	23.84	23.79	24.5	0.0
100	QPSK	1	271	22.76	22.89	22.81		
100	QPSK	135	0	23.57	23.57	23.58	24.5	0.0
100	QPSK	135	69	23.90	23.92	23.88	24.5	0.0
100	QPSK	135	138	23.56	23.49	23.61		
100	QPSK	270	0	23.59	23.72	23.56		
100	16QAM	1	1	23.79	23.79	23.75	24.5	0.0
100	64QAM	1	1	22.42	22.46	22.47	23.0	1.5
100	256QAM	1	1	20.34	20.33	20.36	21.0	3.5
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	123	23.65	23.62	23.43	24.5	0.0
Channel				507204	518598	528998		
Frequency (MHz)				2538.02	2592.99	2640.99		
80	QPSK	1	109	23.82	23.80	23.62	24.5	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	81	23.82	23.68	23.57	24.5	0.0
Channel				504204	518598	532299		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	67	23.84	23.80	23.49	24.5	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	53	23.81	23.86	23.58	24.5	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	26	23.73	23.72	23.63	24.5	0.0
Channel				500700	518598	536496		
Frequency (MHz)				2503.05	2592.99	2682.48		
15	QPSK	1	19	23.75	23.74	23.61	24.5	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	12	23.73	23.86	23.51	24.5	0.0

n41 PC2 Ant1 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	23.43	23.52	23.49		
100	PI/2 BPSK	1	137	24.44	24.49	24.37	26.0	0.0
100	PI/2 BPSK	1	271	23.48	23.57	23.44		
100	PI/2 BPSK	135	0	24.25	24.47	24.24	25.5	0.5
100	PI/2 BPSK	135	69	24.68	24.71	24.60	26.0	0.0
100	PI/2 BPSK	135	138	24.32	24.56	24.51		
100	PI/2 BPSK	270	0	24.24	24.42	24.19	25.5	0.5
100	QPSK	1	1	23.80	23.84	23.62		
100	QPSK	1	137	24.68	24.84	24.62	26.0	0.0
100	QPSK	1	271	23.69	23.79	23.78		
100	QPSK	135	0	24.04	24.01	24.05	25.0	1.0
100	QPSK	135	69	24.63	24.82	24.81	26.0	0.0
100	QPSK	135	138	23.81	23.85	23.83		
100	QPSK	270	0	23.84	23.85	23.82		
100	16QAM	1	1	23.72	23.79	23.67	25.0	1.0
100	64QAM	1	1	22.17	22.35	22.29	23.5	2.5
100	256QAM	1	1	20.84	20.90	20.79	21.5	4.5
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	123	24.49	24.58	24.25	26.0	0.0
Channel				507204	518598	528998		
Frequency (MHz)				2538.02	2592.99	2640.99		
80	QPSK	1	109	24.46	24.67	24.32	26.0	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	81	24.58	24.60	24.25	26.0	0.0
Channel				504204	518598	532299		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	67	24.41	24.54	24.35	26.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	53	24.44	24.59	24.38	26.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	26	24.45	24.62	24.49	26.0	0.0
Channel				500700	518598	536496		
Frequency (MHz)				2503.05	2592.99	2682.48		
15	QPSK	1	19	24.53	24.54	24.21	25.0	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	12	24.61	24.50	24.46	26.0	0.0



n7 Ant2 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				50200	50700	51200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	23.07	23.15	23.08	25.0	0.0
20	PI/2 BPSK	1	26	23.10	23.13	23.19		
20	PI/2 BPSK	1	49	23.02	23.04	23.01		
20	PI/2 BPSK	25	0	22.97	22.67	22.58		
20	PI/2 BPSK	25	13	23.12	23.16	23.04		
20	PI/2 BPSK	25	26	22.56	22.67	22.65		
20	PI/2 BPSK	50	0	22.61	22.72	22.57	24.5	0.5
20	QPSK	1	1	23.05	23.24	23.11	25.0	0.0
20	QPSK	1	26	23.16	23.20	23.01		
20	QPSK	1	49	23.18	23.02	23.14		
20	QPSK	25	0	22.07	22.19	22.10	24.0	1.0
20	QPSK	25	13	23.09	23.19	23.08	25.0	0.0
20	QPSK	25	26	22.32	22.34	22.28	24.0	1.0
20	QPSK	50	0	22.34	22.35	22.30		
20	16QAM	1	1	22.14	22.25	22.17	24.0	1.0
20	64QAM	1	1	20.62	20.54	20.56	22.5	2.5
20	256QAM	1	1	18.73	18.77	18.67	20.5	4.5
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.14	23.16	23.03	25.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.13	23.15	23.02	25.0	0.0



n38 Ant2 Default power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516500	518000	522000			
Frequency (MHz)				2550	2595	2610	Tune-up limit (dBm)	MPR (dB)	
20	PI/2 BPSK	1	1	23.01	23.04	23.12			
20	PI/2 BPSK	1	26	23.03	23.20	23.07	25.0	0.0	
20	PI/2 BPSK	1	49	23.18	23.04	23.05			
20	PI/2 BPSK	25	0	22.68	22.58	22.67	24.5	0.5	
20	PI/2 BPSK	25	13	23.08	23.10	23.02	25.0	0.0	
20	PI/2 BPSK	25	26	22.54	22.57	22.59			
20	PI/2 BPSK	50	0	22.80	22.64	22.57	24.5	0.5	
20	QPSK	1	1	23.05	23.22	23.15			
20	QPSK	1	26	23.10	23.12	23.17	25.0	0.0	
20	QPSK	1	49	23.06	23.09	23.07			
20	QPSK	25	0	22.04	22.15	22.03	24.0	1.0	
20	QPSK	25	13	23.07	23.11	23.02	25.0	0.0	
20	QPSK	25	26	22.20	22.20	22.14			
20	QPSK	50	0	22.22	22.24	22.20	24.0	1.0	
20	16QAM	1	1	22.22	22.41	22.41	24.0	1.0	
20	64QAM	1	1	20.72	20.87	20.76	22.5	2.5	
20	256QAM	1	1	18.75	18.79	18.66	20.5	4.5	
Channel				515502	518000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	PI/2 BPSK	1	1	23.08	23.12	23.04	25.0	0.0	
Channel				515504	518000	522296	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	PI/2 BPSK	1	1	23.04	23.14	23.06	25.0	0.0	

n41 PC3 Ant2 Default power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506200	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640	Tune-up limit (dBm)	MPR (dB)	
100	PI/2 BPSK	1	1	23.03	23.08	23.12			
100	PI/2 BPSK	1	137	23.03	23.20	23.13	25.0	0.0	
100	PI/2 BPSK	1	271	23.02	23.03	23.13			
100	PI/2 BPSK	135	0	23.08	23.13	23.09	25.0	0.0	
100	PI/2 BPSK	135	69	23.20	23.22	23.12	25.0	0.0	
100	PI/2 BPSK	135	138	23.10	23.14	23.06			
100	PI/2 BPSK	270	0	23.08	23.07	23.01	25.0	0.0	
100	QPSK	1	1	23.11	23.03	23.14			
100	QPSK	1	137	23.13	23.26	23.10	25.0	0.0	
100	QPSK	1	271	23.07	23.20	23.11			
100	QPSK	135	0	23.16	23.19	23.16	25.0	0.0	
100	QPSK	135	69	23.22	23.24	23.18	25.0	0.0	
100	QPSK	135	138	23.04	23.17	23.11	25.0	0.0	
100	QPSK	270	0	23.03	23.09	23.05			
100	16QAM	1	1	23.09	23.11	23.04	25.0	0.0	
100	64QAM	1	1	21.71	21.76	21.79	23.5	1.5	
100	256QAM	1	1	19.64	19.64	19.67	21.5	3.5	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	123	23.07	23.10	23.05	25.0	0.0	
Channel				507204	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2649.99			
80	QPSK	1	109	23.17	23.06	23.09	25.0	0.0	
Channel				506200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
80	QPSK	1	81	23.05	23.10	23.08	25.0	0.0	
Channel				504204	518598	532992	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	67	23.16	23.07	23.08	25.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510.01	2592.99	2670			
40	QPSK	1	53	23.05	23.10	23.06	25.0	0.0	
Channel				501204	518598	533996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	26	23.02	23.08	23.11	25.0	0.0	
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.05	2592.99	2682.98			
15	QPSK	1	19	23.05	23.08	23.16	25.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	12	23.02	23.07	23.11	25.0	0.0	



Par270 n77 PC3 Ant3 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				65000	65000	65000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.59	22.67	22.60		
100	PI/2 BPSK	1	137	23.55	23.62	23.57	24.0	0.0
100	PI/2 BPSK	1	271	22.56	22.61	22.59		
100	PI/2 BPSK	135	0	23.34	23.49	23.44	24.0	0.0
100	PI/2 BPSK	135	69	23.54	23.37	23.59	24.0	0.0
100	PI/2 BPSK	135	138	23.34	23.53	23.44		
100	PI/2 BPSK	270	0	23.50	23.35	23.39	24.0	0.0
100	QPSK	1	1	22.67	22.82	22.58		
100	QPSK	1	137	23.66	23.72	23.62	24.0	0.0
100	QPSK	1	271	22.64	22.60	22.59		
100	QPSK	135	0	23.39	23.53	23.37	24.0	0.0
100	QPSK	135	69	23.38	23.57	23.41	24.0	0.0
100	QPSK	135	138	23.46	23.46	23.28	24.0	0.0
100	QPSK	270	0	23.37	23.47	23.29		
100	16QAM	1	1	22.51	22.62	22.51	24.0	0.0
100	64QAM	1	1	23.12	23.15	23.14	23.5	0.5
100	256QAM	1	1	21.25	21.22	21.08	21.5	2.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	24.0	0.0
90	QPSK	1	123	23.49	23.56	23.52	24.0	0.0
Channel				649334	650000	649668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	24.0	0.0
80	QPSK	1	109	23.49	23.54	23.53	24.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	24.0	0.0
60	QPSK	1	81	23.50	23.54	23.51	24.0	0.0
Channel				648334	650000	648668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	24.0	0.0
50	QPSK	1	67	23.52	23.55	23.53	24.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	24.0	0.0
40	QPSK	1	53	23.49	23.53	23.50	24.0	0.0
Channel				647334	650000	648668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	24.0	0.0
20	QPSK	1	26	23.51	23.54	23.51	24.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51	24.0	0.0
15	QPSK	1	19	23.52	23.56	23.50	24.0	0.0
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	24.0	0.0
10	QPSK	1	12	23.51	23.54	23.50	24.0	0.0

Par270 n77 PC2 Ant3 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				65000	65000	65000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	25.10	25.16	25.14		
100	PI/2 BPSK	1	137	25.48	25.54	25.41	27.0	0.0
100	PI/2 BPSK	1	271	25.04	25.13	25.02		
100	PI/2 BPSK	135	0	25.50	25.67	25.53	26.5	0.5
100	PI/2 BPSK	135	69	25.60	25.66	25.58	27.0	0.0
100	PI/2 BPSK	135	138	25.57	25.60	25.56		
100	PI/2 BPSK	270	0	25.48	25.64	25.53	26.5	0.5
100	QPSK	1	1	25.12	25.05	24.89		
100	QPSK	1	137	25.61	25.71	25.67	27.0	0.0
100	QPSK	1	271	25.13	25.14	25.17		
100	QPSK	135	0	24.83	25.03	24.84	26.0	1.0
100	QPSK	135	69	25.55	25.62	25.43	27.0	0.0
100	QPSK	135	138	24.74	24.70	24.97	26.0	1.0
100	QPSK	270	0	24.82	24.88	24.79		
100	16QAM	1	1	24.76	24.77	24.78	26.0	1.0
100	64QAM	1	1	23.12	23.15	23.17	24.5	2.5
100	256QAM	1	1	21.11	21.13	21.07	22.5	4.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	27.0	0.0
90	QPSK	1	123	25.49	25.61	25.56	27.0	0.0
Channel				649334	650000	649668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	27.0	0.0
80	QPSK	1	109	25.47	25.61	25.56	27.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	27.0	0.0
60	QPSK	1	81	25.51	25.61	25.55	27.0	0.0
Channel				648334	650000	648668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	27.0	0.0
50	QPSK	1	67	25.49	25.61	25.56	27.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	27.0	0.0
40	QPSK	1	53	25.49	25.61	25.54	27.0	0.0
Channel				647334	650000	648668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	27.0	0.0
20	QPSK	1	26	25.51	25.63	25.56	27.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51	27.0	0.0
15	QPSK	1	19	25.49	25.64	25.54	27.0	0.0
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	27.0	0.0
10	QPSK	1	12	25.50	25.62	25.54	27.0	0.0

Part27Q n77 PC3 Ant3 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				633000	633334	633668		
Frequency (MHz)				3890.01				
100	PI/2 BPSK	1	1	22.92				
100	PI/2 BPSK	1	137	23.64			24.0	0.0
100	PI/2 BPSK	1	271	22.74				
100	PI/2 BPSK	135	0	23.53			24.0	0.0
100	PI/2 BPSK	135	69	23.56			24.0	0.0
100	PI/2 BPSK	135	138	23.57			24.0	0.0
100	PI/2 BPSK	270	0	23.64			24.0	0.0
100	QPSK	1	1	22.84				
100	QPSK	1	137	23.67			24.0	0.0
100	QPSK	1	271	22.66				
100	QPSK	135	0	23.61			24.0	0.0
100	QPSK	135	69	23.62			24.0	0.0
100	QPSK	135	138	23.55			24.0	0.0
100	QPSK	270	0	23.61			24.0	0.0
100	16QAM	1	1	22.99			24.0	0.0
100	64QAM	1	1	23.15			23.5	0.5
100	256QAM	1	1	21.27			21.5	2.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02	24.0	0.0
90	QPSK	1	123	23.48	23.44	23.38	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510	24.0	0.0
80	QPSK	1	109	23.48	23.47	23.39	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02	24.0	0.0
60	QPSK	1	81	23.46	23.45	23.39	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525	24.0	0.0
50	QPSK	1	67	23.49	23.45	23.37	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01	24.0	0.0
40	QPSK	1	53	23.47	23.47	23.38	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540	24.0	0.0
20	QPSK	1	26	23.47	23.46	23.38	24.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52	24.0	0.0
15	QPSK	1	19	23.47	23.45	23.38	24.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01	24.0	0.0
10	QPSK	1	12	23.47	23.47	23.37	24.0	0.0



Part27Q n77 PC2 Ant3 Default power

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pl/2 BPSK	1	1	25.12	3500.01			
100	Pl/2 BPSK	1	137	25.47			27.0	0.0
100	Pl/2 BPSK	1	271	24.81				
100	Pl/2 BPSK	135	0	25.39			26.5	0.5
100	Pl/2 BPSK	135	69	25.47			27.0	0.0
100	Pl/2 BPSK	135	138	25.41				
100	Pl/2 BPSK	270	0	25.44			26.5	0.5
100	QPSK	1	1	25.21				
100	QPSK	1	137	25.55			27.0	0.0
100	QPSK	1	271	25.10				
100	QPSK	135	0	24.78			26.0	1.0
100	QPSK	135	69	25.50			27.0	0.0
100	QPSK	135	138	24.76			26.0	1.0
100	QPSK	270	0	24.96				
100	16QAM	1	1	23.94			26.0	1.0
100	64QAM	1	1	23.15			24.5	2.5
100	256QAM	1	1	21.06			22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	123	25.32	25.39	25.42	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	109	25.33	25.37	25.41	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	81	25.33	25.38	25.41	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	67	25.32	25.41	25.41	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	53	25.34	25.41	25.43	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	26	25.34	25.40	25.43	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	19	25.34	25.40	25.41	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	12	25.33	25.38	25.43	27.0	0.0

Part27O n78 PC3 Ant3 Default power

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pl/2 BPSK	1	1	22.58	650000			
100	Pl/2 BPSK	1	137	23.42			24.0	0.0
100	Pl/2 BPSK	1	271	22.51				
100	Pl/2 BPSK	135	0	23.39			24.0	0.0
100	Pl/2 BPSK	135	69	23.44			24.0	0.0
100	Pl/2 BPSK	135	138	23.42				
100	Pl/2 BPSK	270	0	23.37			24.0	0.0
100	QPSK	1	1	22.55				
100	QPSK	1	137	23.46			24.0	0.0
100	QPSK	1	271	22.56				
100	QPSK	135	0	23.38			24.0	0.0
100	QPSK	135	69	23.44			24.0	0.0
100	QPSK	135	138	23.43				
100	QPSK	270	0	23.42			24.0	0.0
100	16QAM	1	1	22.55			24.0	0.0
100	64QAM	1	1	23.04			23.5	0.5
100	256QAM	1	1	21.03			21.5	2.5
Channel								
Frequency (MHz)								
90	QPSK	1	123	23.39	23.26	23.40	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	109	23.37	23.25	23.41	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	81	23.35	23.28	23.40	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	67	23.37	23.27	23.43	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	53	23.38	23.26	23.44	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	26	23.38	23.25	23.42	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	19	23.37	23.27	23.41	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	12	23.37	23.26	23.41	24.0	0.0

Part27O n78 PC2 Ant3 Default power

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pl/2 BPSK	1	1	25.14	650000			
100	Pl/2 BPSK	1	137	25.60			27.0	0.0
100	Pl/2 BPSK	1	271	25.07				
100	Pl/2 BPSK	135	0	25.30			26.5	0.5
100	Pl/2 BPSK	135	69	25.58			27.0	0.0
100	Pl/2 BPSK	135	138	25.23				
100	Pl/2 BPSK	270	0	25.16			26.5	0.5
100	QPSK	1	1	25.22				
100	QPSK	1	137	25.65			27.0	0.0
100	QPSK	1	271	25.15				
100	QPSK	135	0	25.33			26.0	1.0
100	QPSK	135	69	25.59			27.0	0.0
100	QPSK	135	138	24.65			26.0	1.0
100	QPSK	270	0	24.81				
100	16QAM	1	1	24.03			26.0	1.0
100	64QAM	1	1	23.14			24.5	2.5
100	256QAM	1	1	21.19			22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	123	25.52	25.37	25.49	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	109	25.52	25.38	25.51	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	81	25.52	25.37	25.48	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	67	25.53	25.40	25.51	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	53	25.51	25.38	25.52	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	26	25.54	25.39	25.49	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	19	25.53	25.38	25.50	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	12	25.54	25.38	25.50	27.0	0.0



Part27Q 78 PC3 Ant3 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1		22.49				
100	PI/2 BPSK	1	137		23.31		24.0	0.0	
100	PI/2 BPSK	1	271		22.40				
100	PI/2 BPSK	135	0		23.29		24.0	0.0	
100	PI/2 BPSK	135	69		23.32				
100	PI/2 BPSK	135	138		23.31				
100	PI/2 BPSK	270	0		23.28		24.0	0.0	
100	QPSK	1	1		22.46				
100	QPSK	1	137		23.38		24.0	0.0	
100	QPSK	1	271		22.46				
100	QPSK	135	0		23.30		24.0	0.0	
100	QPSK	135	69		23.35		24.0	0.0	
100	QPSK	135	138		23.33				
100	QPSK	270	0		23.33		24.0	0.0	
100	16QAM	1	1		22.44		24.0	0.0	
100	64QAM	1	1		22.99		23.5	0.5	
100	256QAM	1	1		20.87		21.5	2.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	24.0	0.0	
90	QPSK	1	123		23.27	23.16	23.30	24.0	0.0
Channel				630550	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	24.0	0.0	
80	QPSK	1	109		23.30	23.15	23.30	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	24.0	0.0	
60	QPSK	1	81		23.30	23.16	23.30	24.0	0.0
Channel				631068	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525	24.0	0.0	
50	QPSK	1	67		23.28	23.17	23.31	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	24.0	0.0	
40	QPSK	1	53		23.31	23.16	23.31	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	24.0	0.0	
20	QPSK	1	26		23.28	23.17	23.32	24.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52	24.0	0.0	
15	QPSK	1	19		23.29	23.14	23.30	24.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01	24.0	0.0	
10	QPSK	1	12		23.27	23.17	23.31	24.0	0.0

Part27Q 78 PC2 Ant3 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1		25.03				
100	PI/2 BPSK	1	137		25.49		27.0	0.0	
100	PI/2 BPSK	1	271		24.98				
100	PI/2 BPSK	135	0		25.21		26.5	0.5	
100	PI/2 BPSK	135	69		25.48		27.0	0.0	
100	PI/2 BPSK	135	138		26.13				
100	PI/2 BPSK	270	0		25.07		26.5	0.5	
100	QPSK	1	1		25.13				
100	QPSK	1	137		25.56		27.0	0.0	
100	QPSK	1	271		25.05				
100	QPSK	135	0		25.24		26.0	1.0	
100	QPSK	135	69		25.48		27.0	0.0	
100	QPSK	135	138		24.56		26.0	1.0	
100	QPSK	270	0		24.70		26.0	1.0	
100	16QAM	1	1		23.94		24.5	2.5	
100	64QAM	1	1		23.14		24.5	2.5	
100	256QAM	1	1		21.09		22.5	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	27.0	0.0	
90	QPSK	1	123		25.41	25.29	25.40	27.0	0.0
Channel				630550	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	27.0	0.0	
80	QPSK	1	109		25.42	25.26	25.38	27.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	27.0	0.0	
60	QPSK	1	81		25.43	25.27	25.41	27.0	0.0
Channel				631068	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525	27.0	0.0	
50	QPSK	1	67		25.43	25.29	25.37	27.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	27.0	0.0	
40	QPSK	1	53		25.42	25.25	25.37	27.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	27.0	0.0	
20	QPSK	1	26		25.42	25.27	25.39	27.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52	27.0	0.0	
15	QPSK	1	19		25.41	25.27	25.39	27.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01	27.0	0.0	
10	QPSK	1	12		25.43	25.26	25.40	27.0	0.0



Par270 n77 PC3 Ant3 Default power

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	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.40	22.58	22.49		
100	PI/2 BPSK	1	137	23.45	23.53	23.46	24.0	0.0
100	PI/2 BPSK	1	271	22.35	22.52	22.49		
100	PI/2 BPSK	135	0	23.24	23.40	23.35	24.0	0.0
100	PI/2 BPSK	135	69	23.43	23.27	23.48	24.0	0.0
100	PI/2 BPSK	135	138	23.25	23.42	23.35		
100	PI/2 BPSK	270	0	23.40	23.44	23.29	24.0	0.0
100	QPSK	1	1	22.37	22.50	22.46		
100	QPSK	1	137	23.56	23.61	23.53	24.0	0.0
100	QPSK	1	271	22.31	22.49	22.37		
100	QPSK	135	0	23.27	23.43	23.28	24.0	0.0
100	QPSK	135	69	23.28	23.49	23.33	24.0	0.0
100	QPSK	135	138	23.35	23.37	23.20	24.0	0.0
100	QPSK	270	0	23.26	23.37	23.16		
100	16QAM	1	1	22.31	22.33	22.32	24.0	0.0
100	64QAM	1	1	22.81	22.86	22.83	23.5	0.5
100	256QAM	1	1	21.28	21.15	21.13	21.5	2.5
Channel				648668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	123	22.95	23.25	23.05	24.0	0.0
Channel				643334	650000	656668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	22.96	23.21	23.20	24.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
80	QPSK	1	81	22.90	23.11	23.22	24.0	0.0
Channel				643334	650000	656668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	23.02	23.27	23.08	24.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	23.11	23.11	23.05	24.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	23.04	23.25	23.17	24.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	23.05	23.11	23.22	24.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	23.10	23.13	23.15	24.0	0.0

Par270 n77 PC2 Ant3 Default power

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	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	25.58	25.67	25.63		
100	PI/2 BPSK	1	137	26.27	26.34	26.22	27.0	0.0
100	PI/2 BPSK	1	271	25.52	25.63	25.50		
100	PI/2 BPSK	135	0	26.32	26.48	26.35	26.5	0.5
100	PI/2 BPSK	135	69	26.39	26.47	26.38	27.0	0.0
100	PI/2 BPSK	135	138	26.37	26.40	26.37		
100	PI/2 BPSK	270	0	26.29	26.42	26.35	26.5	0.5
100	QPSK	1	1	25.72	25.84	25.70		
100	QPSK	1	137	26.39	26.50	26.48	27.0	0.0
100	QPSK	1	271	25.55	25.52	25.56		
100	QPSK	135	0	25.63	25.84	25.66	26.0	1.0
100	QPSK	135	69	26.33	26.44	26.24	27.0	0.0
100	QPSK	135	138	25.55	25.52	25.77	26.0	1.0
100	QPSK	270	0	25.68	25.69	25.59		
100	16QAM	1	1	25.55	25.58	25.58	26.0	1.0
100	64QAM	1	1	23.83	23.83	23.87	24.5	2.5
100	256QAM	1	1	21.91	21.94	21.86	22.5	4.5
Channel				648668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	123	26.10	26.36	26.24	27.0	0.0
Channel				643334	650000	656668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	26.21	26.41	26.22	27.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	26.20	26.31	26.24	27.0	0.0
Channel				643334	650000	656668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	26.13	26.39	26.26	27.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	26.23	26.27	26.23	27.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	26.11	26.38	26.19	27.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	26.27	26.29	26.18	27.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	26.28	26.30	26.22	27.0	0.0

Part27Q n77 PC3 Ant3 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				633000	633334	633668				
Frequency (MHz)				3500.01						
100	PI/2 BPSK	1	1			22.73				
100	PI/2 BPSK	1	137			23.44	24.0	0.0		
100	PI/2 BPSK	1	271			22.53				
100	PI/2 BPSK	135	0			23.32	24.0	0.0		
100	PI/2 BPSK	135	69			23.37	24.0	0.0		
100	PI/2 BPSK	135	138			23.38				
100	PI/2 BPSK	270	0			23.46	24.0	0.0		
100	QPSK	1	1			22.65				
100	QPSK	1	137			23.50	24.0	0.0		
100	QPSK	1	271			22.49				
100	QPSK	135	0			23.40	24.0	0.0		
100	QPSK	135	69			23.42	24.0	0.0		
100	QPSK	135	138			23.35	24.0	0.0		
100	QPSK	270	0			23.40				
100	16QAM	1	1			22.40	24.0	0.0		
100	64QAM	1	1			22.95	23.5	0.5		
100	256QAM	1	1			21.21	21.5	2.5		
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3495	3500.01	3505.02				
90	QPSK	1	123			23.28	23.27	23.19	24.0	0.0
Channel				632993	633334	634660	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3499.02	3500.01	3510				
80	QPSK	1	109			23.26	23.15	23.22	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3480	3500.01	3520.02				
60	QPSK	1	81			23.22	23.26	23.28	24.0	0.0
Channel				631663	633334	635000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3475.02	3500.01	3525				
50	QPSK	1	67			23.17	23.16	23.15	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3470.01	3500.01	3530.01				
40	QPSK	1	53			23.11	23.16	23.29	24.0	0.0
Channel				630998	633334	635000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3469.02	3500.01	3540				
20	QPSK	1	26			23.12	23.17	23.18	24.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3467.5	3500.01	3542.52				
15	QPSK	1	19			23.14	23.15	23.16	24.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3455.01	3500.01	3545.01				
10	QPSK	1	12			23.29	23.30	23.28	24.0	0.0



Part27Q n77 PC2 Ant3 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI/2 BPSK	1	1	25.64				
100	PI/2 BPSK	1	137	26.16			27.0	0.0
100	PI/2 BPSK	1	271	25.63				
100	PI/2 BPSK	135	0	26.06			26.5	0.5
100	PI/2 BPSK	135	69	26.17			27.0	0.0
100	PI/2 BPSK	135	138	26.09				
100	PI/2 BPSK	270	0	26.13			26.5	0.5
100	QPSK	1	1	25.91				
100	QPSK	1	137	26.24			27.0	0.0
100	QPSK	1	271	25.46				
100	QPSK	135	0	25.47			26.0	1.0
100	QPSK	135	69	26.19			27.0	0.0
100	QPSK	135	138	25.45			26.0	1.0
100	QPSK	270	0	25.64			26.0	1.0
100	16QAM	1	1	23.59			24.5	2.5
100	256QAM	1	1	21.85			22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	123	25.73	25.79	25.82	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	109	25.77	25.87	25.89	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	81	25.77	25.83	25.76	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	67	25.69	25.76	25.78	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	53	25.80	25.84	25.75	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	26	25.70	25.69	25.77	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	19	25.87	25.89	25.80	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	12	25.79	25.79	25.86	27.0	0.0

Part27O n78 PC3 Ant3 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI/2 BPSK	1	1	22.52				
100	PI/2 BPSK	1	137	23.49			24.0	0.0
100	PI/2 BPSK	1	271	22.57				
100	PI/2 BPSK	135	0	23.46			24.0	0.0
100	PI/2 BPSK	135	69	23.51			24.0	0.0
100	PI/2 BPSK	135	138	23.47				
100	PI/2 BPSK	270	0	23.41			24.0	0.0
100	QPSK	1	1	22.60				
100	QPSK	1	137	23.53			24.0	0.0
100	QPSK	1	271	22.62				
100	QPSK	135	0	23.45			24.0	0.0
100	QPSK	135	69	23.51			24.0	0.0
100	QPSK	135	138	23.50			24.0	0.0
100	QPSK	270	0	23.50			24.0	0.0
100	16QAM	1	1	22.32			24.0	0.0
100	64QAM	1	1	22.93			23.5	0.5
100	256QAM	1	1	21.10			21.5	2.5
Channel								
Frequency (MHz)								
90	QPSK	1	123	23.42	23.32	23.47	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	109	23.32	23.37	23.39	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	81	23.36	23.27	23.29	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	67	23.32	23.33	23.43	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	53	23.45	23.37	23.38	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	26	23.44	23.33	23.32	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	19	23.32	23.25	23.37	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	12	23.34	23.46	23.47	24.0	0.0

Part27O n78 PC2 Ant3 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI/2 BPSK	1	1	25.92				
100	PI/2 BPSK	1	137	26.40			27.0	0.0
100	PI/2 BPSK	1	271	25.88				
100	PI/2 BPSK	135	0	26.09			26.5	0.5
100	PI/2 BPSK	135	69	26.39			27.0	0.0
100	PI/2 BPSK	135	138	26.03				
100	PI/2 BPSK	270	0	25.97			26.5	0.5
100	QPSK	1	1	26.03				
100	QPSK	1	137	26.43			27.0	0.0
100	QPSK	1	271	25.96				
100	QPSK	135	0	26.12			26.0	1.0
100	QPSK	135	69	26.40			27.0	0.0
100	QPSK	135	138	25.45			26.0	1.0
100	QPSK	270	0	25.59			26.0	1.0
100	16QAM	1	1	24.83			24.5	2.5
100	64QAM	1	1	23.97			24.5	2.5
100	256QAM	1	1	21.98			22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	123	26.33	26.18	26.30	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	109	26.23	26.26	26.24	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	81	26.31	26.17	26.33	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	67	26.19	26.15	26.28	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	53	26.29	26.21	26.30	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	26	26.21	26.27	26.28	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	19	26.32	26.15	26.21	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	12	26.18	26.17	26.26	27.0	0.0



Part27Q 78 PC3 Ant3 Default power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	Pi/2 BPSK	1	1		22.33				
100	Pi/2 BPSK	1	137		23.12		24.0	0.0	
100	Pi/2 BPSK	1	271		22.27				
100	Pi/2 BPSK	135	0		23.20		24.0	0.0	
100	Pi/2 BPSK	135	69		23.02				
100	Pi/2 BPSK	135	138		23.06		24.0	0.0	
100	QPSK	1	1		22.38				
100	QPSK	1	137		23.24		24.0	0.0	
100	QPSK	1	271		22.27				
100	QPSK	135	0		23.15		24.0	0.0	
100	QPSK	135	69		23.19				
100	QPSK	135	138		23.07		24.0	0.0	
100	QPSK	270	0		23.12		24.0	0.0	
100	16QAM	1	1		22.14		24.0	0.0	
100	64QAM	1	1		22.79		23.5	0.5	
100	256QAM	1	1		20.80		21.5	2.5	
Channel				633000	633334	633668	Tune-up limit	MPR	
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)	
90	QPSK	1	123		23.01	23.03	23.03	24.0	0.0
Channel				632668	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	109		22.99	22.98	23.00	24.0	0.0
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	81		22.96	22.94	22.95	24.0	0.0
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	67		22.90	22.90	22.94	24.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	53		22.95	23.00	22.96	24.0	0.0
Channel				630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	26		22.87	22.94	23.05	24.0	0.0
Channel				630500	633334	636168	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)	
15	QPSK	1	19		23.04	22.87	23.05	24.0	0.0
Channel				630334	633334	636334	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)	
10	QPSK	1	12		23.05	22.88	22.88	24.0	0.0

Part27Q 78 PC2 Ant3 Default power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	Pi/2 BPSK	1	1		25.68				
100	Pi/2 BPSK	1	137		26.06		27.0	0.0	
100	Pi/2 BPSK	1	271		25.56				
100	Pi/2 BPSK	135	0		25.98		26.5	0.5	
100	Pi/2 BPSK	135	69		25.21		27.0	0.0	
100	Pi/2 BPSK	135	138		25.91		26.5	0.5	
100	Pi/2 BPSK	270	0		25.88				
100	QPSK	1	1		25.87				
100	QPSK	1	137		26.23		27.0	0.0	
100	QPSK	1	271		25.62				
100	QPSK	135	0		25.42		26.0	1.0	
100	QPSK	135	69		26.20		27.0	0.0	
100	QPSK	135	138		25.42		26.0	1.0	
100	QPSK	270	0		25.41				
100	16QAM	1	1		24.83		26.0	1.0	
100	64QAM	1	1		23.67		24.5	2.5	
100	256QAM	1	1		21.85		22.5	4.5	
Channel				633000	633334	633668	Tune-up limit	MPR	
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)	
90	QPSK	1	123		26.05	26.07	26.01	27.0	0.0
Channel				632668	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	109		25.99	25.99	26.05	27.0	0.0
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	81		26.11	26.09	26.09	27.0	0.0
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	67		25.97	26.13	26.10	27.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	53		26.14	26.10	26.00	27.0	0.0
Channel				630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	26		26.01	26.12	26.13	27.0	0.0
Channel				630500	633334	636168	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)	
15	QPSK	1	19		25.99	26.11	26.09	27.0	0.0
Channel				630334	633334	636334	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)	
10	QPSK	1	12		26.03	25.96	26.12	27.0	0.0



n5 Ant4 Default power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				16650	16700	16750		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.94	24.14	24.11	25.5	0.0
20	PI/2 BPSK	1	26	23.95	24.04	23.86		
20	PI/2 BPSK	1	49	23.74	23.96	23.83		
20	PI/2 BPSK	25	0	23.47	23.64	23.50	25.0	0.5
20	PI/2 BPSK	25	13	24.07	24.10	23.94	25.5	0.0
20	PI/2 BPSK	25	26	23.50	23.61	23.42	25.0	0.5
20	PI/2 BPSK	50	0	23.54	23.67	23.64		
20	QPSK	1	1	24.03	24.22	24.20		
20	QPSK	1	26	24.03	24.06	23.92	25.5	0.0
20	QPSK	1	49	23.82	23.96	23.74		
20	QPSK	25	0	22.92	23.13	23.02		
20	QPSK	25	13	23.87	24.08	23.86	25.5	0.0
20	QPSK	25	26	22.81	23.05	22.98	24.5	1.0
20	QPSK	50	0	22.87	23.10	22.91		
20	16QAM	1	1	22.58	22.65	22.52		
20	64QAM	1	1	21.10	21.20	21.02	23.0	2.5
20	256QAM	1	1	19.73	19.75	19.58	21.0	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.95	24.11	24.13	25.5	0.0
Channel				165600	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826	836.5	844		
10	QPSK	1	1	24.02	24.16	24.09	25.5	0.0

n7 Ant4 Default power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				50200	50700	51200		
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	24.69	24.91	24.88	25.5	0.0
20	PI/2 BPSK	1	26	24.85	24.86	24.84		
20	PI/2 BPSK	1	49	24.69	24.73	24.51		
20	PI/2 BPSK	25	0	24.36	24.44	24.37	25.0	0.5
20	PI/2 BPSK	25	13	24.89	24.89	24.71	25.0	0.5
20	PI/2 BPSK	25	26	24.12	24.36	24.28		
20	PI/2 BPSK	50	0	24.26	24.41	24.40		
20	QPSK	1	1	24.90	24.95	24.84	25.5	0.0
20	QPSK	1	26	24.83	24.83	24.74		
20	QPSK	1	49	24.74	24.84	24.63		
20	QPSK	25	0	23.79	23.92	23.85	24.5	1.0
20	QPSK	25	13	24.65	24.76	24.59	24.5	0.0
20	QPSK	25	26	23.84	23.86	23.65		
20	QPSK	50	0	23.69	23.67	23.66		
20	16QAM	1	1	23.72	23.72	23.61	24.5	1.0
20	64QAM	1	1	22.27	22.36	22.13	23.0	2.5
20	256QAM	1	1	20.65	20.74	20.60	21.0	4.5
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	24.86	24.84	24.66	25.5	0.0
Channel				501000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	24.82	24.79	24.80	25.5	0.0



n38 Ant4 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				516300	518000	522800		
Frequency (MHz)				2580	2595	2610		
20	PI/2 BPSK	1	1	24.31	24.47	24.48		
20	PI/2 BPSK	1	26	24.21	24.36	24.25	25.5	0.0
20	PI/2 BPSK	1	49	24.30	24.41	24.26		
20	PI/2 BPSK	25	0	23.78	23.92	23.72	25.0	0.5
20	PI/2 BPSK	25	13	24.29	24.40	24.30	25.5	0.0
20	PI/2 BPSK	25	26	23.94	23.96	23.82	25.0	0.5
20	PI/2 BPSK	50	0	23.86	24.02	23.96		
20	QPSK	1	1	24.36	24.51	24.23		
20	QPSK	1	26	24.33	24.45	24.07	25.5	0.0
20	QPSK	1	49	24.37	24.29	24.21		
20	QPSK	25	0	23.50	23.53	23.39	24.5	1.0
20	QPSK	25	13	24.24	24.43	24.30	25.5	0.0
20	QPSK	25	26	23.51	23.63	23.69	24.5	1.0
20	QPSK	50	0	23.56	23.61	23.60		
20	16QAM	1	1	23.60	23.57	23.54	24.5	1.0
20	64QAM	1	1	22.11	22.23	22.16	23.0	2.5
20	256QAM	1	1	20.18	20.16	20.07	21.0	4.5
Channel				515502	518000	522498		
Frequency (MHz)				2577.51	2595	2612.49		
15	PI/2 BPSK	1	1	24.31	24.41	24.19	25.5	0.0
Channel				515304	518000	522396		
Frequency (MHz)				2575.02	2595	2613.98		
10	PI/2 BPSK	1	1	24.27	24.35	24.10	25.5	0.0

n41 PC3 Ant4 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505602	518598	528090		
Frequency (MHz)				2556.01	2592.99	2640		
100	PI/2 BPSK	1	1	23.30	23.36	23.15		
100	PI/2 BPSK	1	137	24.18	24.30	24.20	24.5	0.0
100	PI/2 BPSK	1	271	23.42	23.54	23.43		
100	PI/2 BPSK	135	0	24.05	24.14	24.00	24.5	0.0
100	PI/2 BPSK	135	69	24.22	24.29	24.07	24.5	0.0
100	PI/2 BPSK	135	138	24.17	24.22	24.03		
100	PI/2 BPSK	270	0	24.05	24.15	24.02	24.5	0.0
100	QPSK	1	1	23.19	23.24	23.17		
100	QPSK	1	137	24.10	24.31	24.23	24.5	0.0
100	QPSK	1	271	23.46	23.42	23.41		
100	QPSK	135	0	24.05	24.07	23.98	24.5	0.0
100	QPSK	135	69	24.13	24.30	24.25	24.5	0.0
100	QPSK	135	138	24.08	24.25	24.19	24.5	0.0
100	QPSK	270	0	23.92	24.12	24.00		
100	16QAM	1	1	23.12	23.17	23.05	24.5	0.0
100	64QAM	1	1	22.76	22.83	22.76	23.0	1.5
100	256QAM	1	1	20.66	20.71	20.68	21.0	3.5
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	123	24.04	24.22	24.11	24.5	0.0
Channel				507204	518598	529398		
Frequency (MHz)				2535.02	2592.99	2649.99		
80	QPSK	1	109	24.15	24.01	24.03	24.5	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	81	24.11	24.15	24.07	24.5	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	67	24.14	24.00	24.14	24.5	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	53	24.01	24.13	24.05	24.5	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	26	24.12	24.02	24.04	24.5	0.0
Channel				500700	518598	536496		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	19	24.17	24.16	24.01	24.5	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	12	24.14	24.12	24.16	24.5	0.0

n41 PC2 Ant4 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505602	518598	528090		
Frequency (MHz)				2556.01	2592.99	2640		
100	PI/2 BPSK	1	1	23.21	23.44	23.25		
100	PI/2 BPSK	1	137	24.66	24.78	24.75	26.0	0.0
100	PI/2 BPSK	1	271	23.86	24.04	23.99		
100	PI/2 BPSK	135	0	24.25	24.34	24.26	25.5	0.5
100	PI/2 BPSK	135	69	24.55	24.65	24.42	26.0	0.0
100	PI/2 BPSK	135	138	24.55	24.62	24.57	25.5	0.5
100	PI/2 BPSK	270	0	24.28	24.47	24.39		
100	QPSK	1	1	23.40	23.47	23.30		
100	QPSK	1	137	24.60	24.83	24.79	26.0	0.0
100	QPSK	1	271	23.89	24.11	23.99		
100	QPSK	135	0	23.38	23.48	23.33	25.0	1.0
100	QPSK	135	69	24.76	24.78	24.66	26.0	0.0
100	QPSK	135	138	23.59	23.75	23.69	25.0	1.0
100	QPSK	270	0	23.48	23.69	23.52		
100	16QAM	1	1	23.49	23.64	23.63	25.0	1.0
100	64QAM	1	1	21.90	22.10	22.06	23.5	2.5
100	256QAM	1	1	20.27	20.28	20.05	21.5	4.5
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	123	24.32	24.46	24.06	26.0	0.0
Channel				507204	518598	529398		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	109	24.22	24.47	24.07	26.0	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	81	24.30	24.47	24.29	26.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	67	24.21	24.39	24.07	26.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	53	24.33	24.42	24.11	26.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	26	24.25	24.31	24.11	26.0	0.0
Channel				500700	518598	536496		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	19	24.37	24.20	24.13	26.0	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	12	24.34	24.31	24.09	26.0	0.0



Par270 n77 PC3 Ant5 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.37	22.36	22.35	24.0	0.0
100	PI/2 BPSK	1	137	22.36	22.35	22.34		
100	PI/2 BPSK	1	271	22.34	22.32	22.33		
100	PI/2 BPSK	135	0	22.49	22.46	22.45	24.0	0.0
100	PI/2 BPSK	135	69	22.47	22.54	22.55	24.0	0.0
100	PI/2 BPSK	135	138	22.45	22.43	22.43	24.0	0.0
100	PI/2 BPSK	270	0	22.54	22.54	22.55		
100	QPSK	1	1	22.47	22.54	22.55		
100	QPSK	1	137	22.49	22.57	22.54	24.0	0.0
100	QPSK	1	271	22.32	22.32	22.31	24.0	0.0
100	QPSK	135	0	22.55	22.54	22.52		
100	QPSK	135	69	22.47	22.56	22.54		
100	QPSK	135	138	22.44	22.43	22.41	24.0	0.0
100	QPSK	270	0	22.39	22.48	22.47	24.0	0.0
100	16QAM	1	1	22.24	22.22	22.24		
100	64QAM	1	1	22.34	22.32	22.31		
100	256QAM	1	1	21.40	21.27	21.35	22.5	1.5
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	123	22.29	22.40	22.38	24.0	0.0
Channel				649354	656000	662088	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	22.45	22.38	22.45	24.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	22.44	22.25	22.37	24.0	0.0
Channel				648334	655000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	22.31	22.29	22.35	24.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	22.28	22.38	22.43	24.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	22.28	22.33	22.32	24.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	22.32	22.29	22.23	24.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	22.34	22.30	22.37	24.0	0.0

Part27Q n77 PC3 Ant5 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				630000	633334	636668		
Frequency (MHz)				3500	3550.01	3599.99		
100	PI/2 BPSK	1	1	22.21	22.21	22.21	24.0	0.0
100	PI/2 BPSK	1	137	22.37	22.37	22.37		
100	PI/2 BPSK	1	271	22.22	22.22	22.22		
100	PI/2 BPSK	135	0	22.38	22.38	22.38	24.0	0.0
100	PI/2 BPSK	135	69	22.39	22.39	22.39		
100	PI/2 BPSK	135	138	22.37	22.37	22.37		
100	PI/2 BPSK	270	0	22.42	22.42	22.42	24.0	0.0
100	QPSK	1	1	22.25	22.25	22.25	24.0	0.0
100	QPSK	1	137	22.42	22.42	22.42		
100	QPSK	1	271	22.24	22.24	22.24		
100	QPSK	135	0	22.34	22.34	22.34	24.0	0.0
100	QPSK	135	69	22.39	22.39	22.39		
100	QPSK	135	138	22.21	22.21	22.21		
100	QPSK	270	0	22.39	22.39	22.39	24.0	0.0
100	16QAM	1	1	22.28	22.28	22.28	24.0	0.0
100	64QAM	1	1	22.33	22.33	22.33	24.0	0.0
100	256QAM	1	1	21.24	21.24	21.24	22.5	1.5
Channel				630000	633334	636668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	22.41	22.37	22.37	24.0	0.0
Channel				630568	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	22.26	22.34	22.37	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	22.36	22.26	22.24	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	22.35	22.23	22.24	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	22.33	22.17	22.26	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	22.24	22.29	22.23	24.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.52	3500.01	3542.52		
15	QPSK	1	19	22.19	22.34	22.16	24.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	22.32	22.23	22.29	24.0	0.0



Part270 n78 PC3 Ant5 Default power							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				65000			
Frequency (MHz)				3750			
100	PI/2 BPSK	1	1	22.33			
100	PI/2 BPSK	1	137	22.35		24.0	0.0
100	PI/2 BPSK	1	271	22.33			
100	PI/2 BPSK	135	0	22.35		24.0	0.0
100	PI/2 BPSK	135	69	22.34		24.0	0.0
100	PI/2 BPSK	135	138	22.31			
100	PI/2 BPSK	270	0	22.32		24.0	0.0
100	QPSK	1	1	22.22			
100	QPSK	1	137	22.46		24.0	0.0
100	QPSK	1	271	22.33			
100	QPSK	135	0	22.15		24.0	0.0
100	QPSK	135	69	22.35		24.0	0.0
100	QPSK	135	138	22.21		24.0	0.0
100	QPSK	270	0	22.33			
100	16QAM	0	1	22.31		24.0	0.0
100	64QAM	1	1	22.22		24.0	0.0
100	256QAM	1	1	21.24		22.5	1.5
Channel				64868	65000	65034	
Frequency (MHz)				3745.02	3750	3755.01	
90	QPSK	1	123	22.07	22.34	22.22	24.0
Channel				64934	65000	65068	
Frequency (MHz)				3749.01	3750	3760.02	
80	QPSK	1	109	22.07	22.32	22.21	24.0
Channel				64868	65000	65134	
Frequency (MHz)				3730.02	3750	3770.01	
60	QPSK	1	81	22.05	22.35	22.26	24.0
Channel				64834	65000	65168	
Frequency (MHz)				3725.01	3750	3775.02	
50	QPSK	1	67	22.18	22.29	22.24	24.0
Channel				64800	65000	65200	
Frequency (MHz)				3720	3750	3760	
40	QPSK	1	53	22.06	22.33	22.28	24.0
Channel				64734	65000	65268	
Frequency (MHz)				3710.01	3750	3790.02	
20	QPSK	1	26	22.08	22.35	22.15	24.0
Channel				64768	65000	65234	
Frequency (MHz)				3707.52	3750	3792.51	
15	QPSK	1	19	22.05	22.31	22.22	24.0
Channel				64700	65000	65300	
Frequency (MHz)				3705	3750	3755	
10	QPSK	1	12	22.20	22.24	22.25	24.0

Part27Q 78 PC3 Ant5 Default power							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				63334			
Frequency (MHz)				3500.01			
100	PI/2 BPSK	1	1	22.17			
100	PI/2 BPSK	1	137	22.27		24.0	0.0
100	PI/2 BPSK	1	271	22.31			
100	PI/2 BPSK	135	0	22.25		24.0	0.0
100	PI/2 BPSK	135	69	22.23			
100	PI/2 BPSK	135	138	22.26			
100	PI/2 BPSK	270	0	22.23		24.0	0.0
100	QPSK	1	1	22.02			
100	QPSK	1	137	22.32		24.0	0.0
100	QPSK	1	271	22.28			
100	QPSK	135	0	22.27			
100	QPSK	135	69	22.30		24.0	0.0
100	QPSK	135	138	22.13			
100	QPSK	270	0	22.24		24.0	0.0
100	16QAM	1	1	22.08		24.0	0.0
100	64QAM	1	1	22.10		24.0	0.0
100	256QAM	1	1	21.11		22.5	1.5
Channel				63300	63334	63368	
Frequency (MHz)				3495	3500.01	3505.02	
90	QPSK	1	123	22.10	22.08	22.09	24.0
Channel				63268	63334	63400	
Frequency (MHz)				3490.02	3500.01	3510	
80	QPSK	1	109	22.08	22.12	22.13	24.0
Channel				63200	63334	63468	
Frequency (MHz)				3480	3500.01	3520.02	
60	QPSK	1	81	22.01	22.14	22.15	24.0
Channel				63168	63334	63500	
Frequency (MHz)				3475.02	3500.01	3525	
50	QPSK	1	67	22.10	22.08	22.09	24.0
Channel				63134	63334	63534	
Frequency (MHz)				3470.01	3500.01	3530.01	
40	QPSK	1	53	22.04	22.03	22.04	24.0
Channel				63068	63334	63600	
Frequency (MHz)				3460.02	3500.01	3540	
20	QPSK	1	26	22.14	22.13	22.03	24.0
Channel				63000	63334	63668	
Frequency (MHz)				3457.5	3500.01	3542.52	
15	QPSK	1	19	22.02	22.06	22.05	24.0
Channel				63034	63334	63634	
Frequency (MHz)				3455.01	3500.01	3545.01	
10	QPSK	1	12	22.07	22.05	22.01	24.0



Par27O n77 PC3 Ant6 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				680000	680000	682000		
Frequency (MHz)				3750	3840	3930		
100	Pi/2 BPSK	1	1	22.34	22.33	22.34		
100	Pi/2 BPSK	1	137	22.32	22.34	22.31	23.0	0.0
100	Pi/2 BPSK	1	271	22.30	22.29	22.31		
100	Pi/2 BPSK	135	0	22.45	22.41	22.43	23.0	0.0
100	Pi/2 BPSK	135	69	22.44	22.52	22.49	23.0	0.0
100	Pi/2 BPSK	135	138	22.41	22.42	22.40		
100	Pi/2 BPSK	270	0	22.53	22.50	22.52	23.0	0.0
100	QPSK	1	1	22.43	22.51	22.53		
100	QPSK	1	137	22.48	22.54	22.50	23.0	0.0
100	QPSK	1	271	22.30	22.30	22.26		
100	QPSK	135	0	22.51	22.51	22.50	23.0	0.0
100	QPSK	135	69	22.44	22.53	22.49	23.0	0.0
100	QPSK	135	138	22.40	22.41	22.39	23.0	0.0
100	QPSK	270	0	22.37	22.44	22.42		
100	16QAM	1	1	22.22	22.21	22.19	23.0	0.0
100	64QAM	1	1	22.30	22.29	22.28	23.0	0.0
100	256QAM	1	1	21.35	21.28	21.32	21.5	1.5
Channel				648668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	123	22.28	22.39	22.35	23.0	0.0
Channel				647334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	22.28	22.38	22.37	23.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	22.27	22.35	22.36	23.0	0.0
Channel				647334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	22.25	22.35	22.36	23.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3940	3960		
100	QPSK	1	53	22.28	22.38	22.35	23.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	22.28	22.38	22.33	23.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3940	3972.51		
15	QPSK	1	19	22.24	22.35	22.35	23.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	22.27	22.37	22.35	23.0	0.0

Part27Q n77 PC3 Ant6 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				630000	633334	636668		
Frequency (MHz)				3500.01	3500.01	3500.01		
100	Pi/2 BPSK	1	1	21.19				
100	Pi/2 BPSK	1	137		21.36		23.0	0.0
100	Pi/2 BPSK	1	271		21.20			
100	Pi/2 BPSK	135	0		21.39		23.0	0.0
100	Pi/2 BPSK	135	69		21.41			
100	Pi/2 BPSK	135	138		21.35			
100	Pi/2 BPSK	270	0		21.42		23.0	0.0
100	QPSK	1	1		21.24			
100	QPSK	1	137		21.43		23.0	0.0
100	QPSK	1	271		21.23			
100	QPSK	135	0		21.34			
100	QPSK	135	69		21.40		23.0	0.0
100	QPSK	135	138		21.19			
100	QPSK	270	0		21.39		23.0	0.0
100	16QAM	1	1		21.24		23.0	0.0
100	64QAM	1	1		21.24		23.0	0.0
100	256QAM	1	1		20.23		21.5	1.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	21.40	21.38	21.38	23.0	0.0
Channel				630668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	21.37	21.39	21.36	23.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	21.35	21.37	21.36	23.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	21.39	21.36	21.37	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	21.38	21.36	21.39	23.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	21.40	21.35	21.37	23.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	21.41	21.37	21.37	23.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	21.39	21.39	21.36	23.0	0.0



Part270 n78 PC3 Ant6 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				650000				
100	PI/2 BPSK	1	1	22.32				
100	PI/2 BPSK	1	137	22.37			23.0	0.0
100	PI/2 BPSK	1	271	22.34				
100	PI/2 BPSK	135	0	22.35			23.0	0.0
100	PI/2 BPSK	135	69	22.34			23.0	0.0
100	PI/2 BPSK	135	138	22.29				
100	PI/2 BPSK	270	0	22.33			23.0	0.0
100	QPSK	1	1	22.23				
100	QPSK	1	137	22.48			23.0	0.0
100	QPSK	1	271	22.34				
100	QPSK	135	0	22.15			23.0	0.0
100	QPSK	135	69	22.33			23.0	0.0
100	QPSK	135	138	22.19			23.0	0.0
100	QPSK	270	0	22.33			23.0	0.0
100	16QAM	0	1	22.30			23.0	0.0
100	64QAM	1	1	22.24			23.0	0.0
100	256QAM	1	1	21.25			21.5	1.5
Channel								
Frequency (MHz)				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	123	22.07	22.34	22.20	23.0	0.0
Channel								
Frequency (MHz)				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	109	22.08	22.36	22.23	23.0	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
80	QPSK	1	81	22.06	22.34	22.22	23.0	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	67	22.08	22.34	22.22	23.0	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3760		
40	QPSK	1	53	22.06	22.34	22.22	23.0	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	26	22.07	22.35	22.22	23.0	0.0
Channel								
Frequency (MHz)				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	19	22.05	22.34	22.23	23.0	0.0
Channel								
Frequency (MHz)				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	12	22.09	22.35	22.21	23.0	0.0

Part27Q 78 PC3 Ant6 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				633334				
100	PI/2 BPSK	1	1	21.17				
100	PI/2 BPSK	1	137	21.26			23.0	0.0
100	PI/2 BPSK	1	271	21.30				
100	PI/2 BPSK	135	0	21.24			23.0	0.0
100	PI/2 BPSK	135	69	21.22				
100	PI/2 BPSK	135	138	21.25				
100	PI/2 BPSK	270	0	21.24			23.0	0.0
100	QPSK	1	1	21.03				
100	QPSK	1	137	21.35			23.0	0.0
100	QPSK	1	271	21.30				
100	QPSK	135	0	21.25				
100	QPSK	135	69	21.32			23.0	0.0
100	QPSK	135	138	21.14				
100	QPSK	270	0	21.25			23.0	0.0
100	16QAM	1	1	21.08			23.0	0.0
100	64QAM	1	1	21.08			23.0	0.0
100	256QAM	1	1	20.11			21.5	1.5
Channel								
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	21.17	21.16	21.19	23.0	0.0
Channel								
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	21.13	21.18	21.19	23.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	21.14	21.16	21.19	23.0	0.0
Channel								
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	21.13	21.19	21.18	23.0	0.0
Channel								
Frequency (MHz)				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	21.15	21.16	21.19	23.0	0.0
Channel								
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	21.14	21.17	21.18	23.0	0.0
Channel								
Frequency (MHz)				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	21.16	21.16	21.19	23.0	0.0
Channel								
Frequency (MHz)				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	21.13	21.17	21.18	23.0	0.0



Reduced power level for 5G NR DS1

n5 Ant1 Default power								
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		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.87	24.07	23.83	25.5	0.0
20	PI/2 BPSK	1	26	23.82	24.01	23.85		
20	PI/2 BPSK	1	49	23.80	23.92	23.82		
20	PI/2 BPSK	25	0	23.70	23.78	23.59	25.0	0.5
20	PI/2 BPSK	25	13	23.81	24.03	23.81	25.5	0.0
20	PI/2 BPSK	25	26	23.35	23.99	23.61	25.0	0.5
20	PI/2 BPSK	50	0	23.55	23.74	23.69		
20	QPSK	1	1	23.90	24.11	24.07		
20	QPSK	1	26	23.83	24.04	23.98	25.5	0.0
20	QPSK	1	49	23.79	23.92	23.87		
20	QPSK	25	0	23.07	23.24	23.19	24.5	1.0
20	QPSK	25	13	23.87	24.06	23.89	25.5	0.0
20	QPSK	25	26	23.05	23.14	22.98	24.5	1.0
20	QPSK	50	0	23.12	23.26	23.09		
20	16QAM	1	1	22.81	22.91	22.76	24.5	1.0
20	64QAM	1	1	21.22	21.27	21.09	23.0	2.5
20	256QAM	1	1	19.95	19.99	19.61	21.0	4.5
Channel				168300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.87	23.94	23.80	25.5	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.95	23.98	23.85	25.5	0.0

n7 Ant1 Default power								
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	24.18	24.39	24.31		
20	PI/2 BPSK	1	26	24.16	24.36	24.19	25.5	0.0
20	PI/2 BPSK	1	49	24.13	24.26	24.04		
20	PI/2 BPSK	25	0	23.79	23.91	23.71	25.0	0.5
20	PI/2 BPSK	25	13	24.34	24.38	24.25	25.5	0.0
20	PI/2 BPSK	25	26	23.77	23.89	23.85	25.0	0.5
20	PI/2 BPSK	50	0	23.83	23.92	23.79		
20	QPSK	1	1	24.27	24.45	24.33		
20	QPSK	1	26	24.38	24.42	24.24	25.5	0.0
20	QPSK	1	49	24.08	24.24	24.14		
20	QPSK	25	0	23.30	23.41	23.32	24.5	1.0
20	QPSK	25	13	24.21	24.42	24.32	25.5	0.0
20	QPSK	25	26	23.52	23.54	23.51	24.5	1.0
20	QPSK	50	0	23.55	23.59	23.51		
20	16QAM	1	1	22.98	23.16	22.98	24.5	1.0
20	64QAM	1	1	21.85	21.78	21.84	23.0	2.5
20	256QAM	1	1	20.24	20.31	20.27	21.0	4.5
Channel				501500	507000	512500		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	24.21	24.31	24.15	25.5	0.0
Channel				501000	507000	513000		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	24.11	24.35	24.30	25.5	0.0



n38 Ant1 Default power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				516500	518000	522000		
Frequency (MHz)				2550	2595	2610		
20	PI/2 BPSK	1	1	23.89	23.96	23.81		
20	PI/2 BPSK	1	26	23.93	24.08	23.88	25.5	0.0
20	PI/2 BPSK	1	49	23.89	23.94	23.78		
20	PI/2 BPSK	25	0	23.39	23.49	23.27	25.0	0.5
20	PI/2 BPSK	25	13	24.00	24.02	23.81	25.5	0.0
20	PI/2 BPSK	25	26	23.45	23.48	23.38		
20	PI/2 BPSK	50	0	23.52	23.52	23.48	25.0	0.5
20	QPSK	1	1	23.94	24.12	24.05		
20	QPSK	1	26	24.00	24.01	23.78	25.5	0.0
20	QPSK	1	49	23.79	23.87	23.77		
20	QPSK	25	0	22.98	23.04	22.53	24.5	1.0
20	QPSK	25	13	23.98	24.03	23.93	25.5	0.0
20	QPSK	25	26	23.10	23.11	23.05		
20	QPSK	50	0	23.12	23.13	23.09	24.5	1.0
20	16QAM	1	1	23.12	23.33	23.32	24.5	1.0
20	64QAM	1	1	21.12	21.17	21.17	23.0	2.5
20	256QAM	1	1	19.74	19.88	19.84	21.0	4.5
Channel				515502	519000	522498		
Frequency (MHz)				2577.51	2595	2612.49		
15	PI/2 BPSK	1	1	23.72	23.88	23.93	25.5	0.0
Channel				515504	518000	522396		
Frequency (MHz)				2575.02	2595	2614.98		
10	PI/2 BPSK	1	1	23.82	23.91	23.98	25.5	0.0

n41 PC2 Ant1 Default power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				506202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	23.43	23.52	23.49		
100	PI/2 BPSK	1	137	24.44	24.49	24.37	26.0	0.0
100	PI/2 BPSK	1	271	23.48	23.57	23.44		
100	PI/2 BPSK	135	0	24.25	24.47	24.24	25.5	0.5
100	PI/2 BPSK	135	69	24.66	24.71	24.60	26.0	0.0
100	PI/2 BPSK	135	138	24.32	24.36	24.51		
100	PI/2 BPSK	270	0	24.24	24.42	24.19	25.5	0.5
100	QPSK	1	1	23.80	23.84	23.62		
100	QPSK	1	137	24.68	24.84	24.62	26.0	0.0
100	QPSK	1	271	23.99	23.79	23.78		
100	QPSK	135	0	24.04	24.01	24.05	25.0	1.0
100	QPSK	135	69	24.63	24.82	24.81	26.0	0.0
100	QPSK	135	138	23.81	23.85	23.83		
100	QPSK	270	0	23.84	23.85	23.82	25.0	1.0
100	16QAM	1	1	23.72	23.79	23.87	25.0	1.0
100	64QAM	1	1	22.17	22.35	22.29	23.5	2.5
100	256QAM	1	1	20.84	20.90	20.79	21.5	4.5
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	123	24.49	24.58	24.25	26.0	0.0
Channel				507204	518598	528996		
Frequency (MHz)				2538.02	2592.99	2646.99		
80	QPSK	1	109	24.46	24.67	24.32	26.0	0.0
Channel				506200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
80	QPSK	1	81	24.96	24.60	24.25	26.0	0.0
Channel				504204	518598	532992		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	67	24.41	24.54	24.35	26.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	53	24.44	24.59	24.36	26.0	0.0
Channel				501204	518598	535996		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	26	24.45	24.62	24.40	26.0	0.0
Channel				500700	518598	536498		
Frequency (MHz)				2501.01	2592.99	2682.40		
15	QPSK	1	19	24.53	24.54	24.24	26.0	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	12	24.61	24.50	24.46	26.0	0.0



n7 Ant2 DSI1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				50200	50700	51200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	20.65	20.74	20.67	22.0	0.0
20	PI/2 BPSK	1	26	20.57	20.54	20.72		
20	PI/2 BPSK	1	49	20.66	20.64	20.50		
20	PI/2 BPSK	25	0	20.56	20.70	20.60		
20	PI/2 BPSK	25	13	20.74	20.65	20.67		
20	PI/2 BPSK	25	26	20.56	20.61	20.66		
20	PI/2 BPSK	50	0	20.57	20.62	20.54		
20	QPSK	1	1	20.65	20.77	20.49		
20	QPSK	1	26	20.55	20.63	20.53		
20	QPSK	1	49	20.53	20.58	20.67		
20	QPSK	25	0	20.58	20.62	20.51	22.0	0.0
20	QPSK	25	13	20.56	20.76	20.60	22.0	0.0
20	QPSK	25	26	20.72	20.55	20.68	22.0	0.0
20	QPSK	50	0	20.55	20.73	20.62	22.0	0.0
20	16QAM	1	1	20.56	20.65	20.60	22.0	0.0
20	64QAM	1	1	20.55	20.75	20.57	22.0	0.0
20	256QAM	1	1	19.12	19.23	19.11	20.5	1.5
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	20.50	20.60	20.58	22.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	20.53	20.58	20.52	22.0	0.0



n38 Ant2 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516500	518000	522000			
Frequency (MHz)				2550	2595	2610			
20	PI/2 BPSK	1	1	18.31	18.30	18.35			
20	PI/2 BPSK	1	26	18.29	18.36	18.35	20.0	0.0	
20	PI/2 BPSK	1	49	18.13	18.42	18.39			
20	PI/2 BPSK	25	0	18.22	18.32	18.40	20.0	0.0	
20	PI/2 BPSK	25	13	18.29	18.41	18.25	20.0	0.0	
20	PI/2 BPSK	25	26	18.26	18.36	18.26			
20	PI/2 BPSK	50	0	18.17	18.34	18.40	20.0	0.0	
20	QPSK	1	1	18.21	18.33	18.27			
20	QPSK	1	26	18.24	18.47	18.31	20.0	0.0	
20	QPSK	1	49	18.14	18.34	18.23			
20	QPSK	25	0	18.29	18.38	18.35	20.0	0.0	
20	QPSK	25	13	18.30	18.41	18.24	20.0	0.0	
20	QPSK	25	26	18.18	18.32	18.39			
20	QPSK	50	0	18.37	18.34	18.42	20.0	0.0	
20	16QAM	1	1	18.31	18.35	18.28	20.0	0.0	
20	64QAM	1	1	18.15	18.38	18.25	20.0	0.0	
20	256QAM	1	1	18.14	18.38	18.36	20.0	0.0	
Channel				515502	518000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	PI/2 BPSK	1	1	18.13	18.40	18.28	20.0	0.0	
Channel				515004	518000	522396			
Frequency (MHz)				2575.02	2595	2614.98			
10	PI/2 BPSK	1	1	18.19	18.31	18.26	20.0	0.0	

n41 PC3 Ant2 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506200	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	18.57	18.77	18.57			
100	PI/2 BPSK	1	137	18.70	18.79	18.54	20.0	0.0	
100	PI/2 BPSK	1	271	18.64	18.65	18.56			
100	PI/2 BPSK	135	0	18.56	18.69	18.48	20.0	0.0	
100	PI/2 BPSK	135	69	18.72	18.82	18.56	20.0	0.0	
100	PI/2 BPSK	135	138	18.63	18.68	18.59			
100	PI/2 BPSK	270	0	18.52	18.70	18.64	20.0	0.0	
100	QPSK	1	1	18.73	18.81	18.68			
100	QPSK	1	137	18.52	18.82	18.43	20.0	0.0	
100	QPSK	1	271	18.64	18.75	18.70			
100	QPSK	135	0	18.70	18.73	18.58	20.0	0.0	
100	QPSK	135	69	18.67	18.84	18.57	20.0	0.0	
100	QPSK	135	138	18.54	18.65	18.55			
100	QPSK	270	0	18.56	18.76	18.48	20.0	0.0	
100	16QAM	1	1	18.72	18.69	18.68	20.0	0.0	
100	64QAM	1	1	18.53	18.69	18.53	20.0	0.0	
100	256QAM	1	1	18.74	18.76	18.56	20.0	0.0	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	123	18.65	18.71	18.50	20.0	0.0	
Channel				507204	518598	528996			
Frequency (MHz)				2538.02	2592.99	2649.99			
80	QPSK	1	109	18.60	18.69	18.64	20.0	0.0	
Channel				506200	518598	531996			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	81	18.65	18.72	18.51	20.0	0.0	
Channel				504204	518598	532996			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	67	18.67	18.65	18.60	20.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2510.01	2592.99	2670			
40	QPSK	1	53	18.63	18.75	18.53	20.0	0.0	
Channel				501204	518598	535996			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	26	18.55	18.77	18.70	20.0	0.0	
Channel				500700	518598	536498			
Frequency (MHz)				2503.05	2592.99	2682.98			
15	QPSK	1	19	18.61	18.79	18.65	20.0	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	12	18.59	18.79	18.52	20.0	0.0	



Par270 n77 PC2 Ant2 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				656000	666000	662000			
Frequency (MHz)				3760	3840	3920			
100	PI/2 BPSK	1	1	19.55	19.69	19.57			
100	PI/2 BPSK	1	137	19.51	19.65	19.67	21.0	0.0	
100	PI/2 BPSK	1	271	19.53	19.64	19.69			
100	PI/2 BPSK	135	0	19.58	19.64	19.66	21.0	0.0	
100	PI/2 BPSK	135	69	19.52	19.59	19.68	21.0	0.0	
100	PI/2 BPSK	135	138	19.71	19.71	19.77			
100	PI/2 BPSK	270	0	19.54	19.68	19.66	21.0	0.0	
100	QPSK	1	1	19.51	19.74	19.75			
100	QPSK	1	137	19.55	19.75	19.75	21.0	0.0	
100	QPSK	1	271	19.59	19.72	19.75			
100	QPSK	135	0	19.63	19.65	19.57	21.0	0.0	
100	QPSK	135	69	19.60	19.72	19.70	21.0	0.0	
100	QPSK	135	138	19.70	19.68	19.67	21.0	0.0	
100	QPSK	270	0	19.64	19.72	19.68			
100	16QAM	1	1	19.71	19.73	19.65	21.0	0.0	
100	64QAM	1	1	19.56	19.70	19.67	21.0	0.0	
100	256QAM	1	1	19.72	19.65	19.68	21.0	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	19.52	19.67	19.62	21.0	0.0	
Channel				646334	656000	662968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	19.58	19.75	19.56	21.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	19.57	19.72	19.75	21.0	0.0	
Channel				645334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	19.51	19.60	19.60	21.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	19.64	19.72	19.62	21.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	19.64	19.62	19.57	21.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	19.53	19.63	19.62	21.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	19.56	19.75	19.72	21.0	0.0	

Part27Q n77 PC2 Ant2 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334	633668			
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1			19.56			
100	PI/2 BPSK	1	137			19.48			
100	PI/2 BPSK	1	271			19.61			
100	PI/2 BPSK	135	0			19.63	21.0	0.0	
100	PI/2 BPSK	135	69			19.49	21.0	0.0	
100	PI/2 BPSK	135	138			19.48			
100	PI/2 BPSK	270	0			19.51	21.0	0.0	
100	QPSK	1	1			19.49			
100	QPSK	1	137			19.64	21.0	0.0	
100	QPSK	1	271			19.46			
100	QPSK	135	0			19.48	21.0	0.0	
100	QPSK	135	69			19.63	21.0	0.0	
100	QPSK	135	138			19.43	21.0	0.0	
100	QPSK	270	0			19.48			
100	16QAM	1	1			19.45	21.0	0.0	
100	64QAM	1	1			19.50	21.0	0.0	
100	256QAM	1	1			19.55	21.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123	19.56	19.59	19.50	21.0	0.0	
Channel				632968	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109	19.41	19.40	19.31	21.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	19.39	19.45	19.40	21.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67	19.49	19.40	19.39	21.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	19.34	19.49	19.35	21.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	19.35	19.37	19.35	21.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19	19.41	19.47	19.49	21.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12	19.57	19.45	19.35	21.0	0.0	



Part270 n78 PC2 Ant2 DSI 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)								
100	PI/2 BPSK	1	1	19.48	19.48	19.48	21.0	0.0
100	PI/2 BPSK	1	137	19.54	19.54	19.54		
100	PI/2 BPSK	1	271	19.60	19.60	19.60		
100	PI/2 BPSK	135	0	19.71	19.71	19.71	21.0	0.0
100	PI/2 BPSK	135	69	19.59	19.59	19.59	21.0	0.0
100	PI/2 BPSK	135	138	19.68	19.68	19.68	21.0	0.0
100	PI/2 BPSK	270	0	19.62	19.62	19.62		
100	QPSK	1	1	19.59	19.59	19.59		
100	QPSK	1	137	19.75	19.75	19.75	21.0	0.0
100	QPSK	1	271	19.57	19.57	19.57	21.0	0.0
100	QPSK	135	0	19.63	19.63	19.63		
100	QPSK	135	69	19.65	19.65	19.65		
100	QPSK	135	138	19.60	19.60	19.60	21.0	0.0
100	QPSK	270	0	19.56	19.56	19.56	21.0	0.0
100	16QAM	1	1	19.55	19.55	19.55		
100	64QAM	1	1	19.72	19.72	19.72		
100	256QAM	1	1	19.61	19.61	19.61	21.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	123	19.64	19.61	19.57	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	109	19.49	19.40	19.44	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	81	19.55	19.61	19.49	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	67	19.49	19.49	19.47	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	53	19.42	19.55	19.55	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	26	19.64	19.47	19.54	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	19	19.53	19.50	19.37	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	12	19.56	19.41	19.43	21.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI/2 BPSK	1	1	19.47	19.47	19.47	21.0	0.0
100	PI/2 BPSK	1	137	19.50	19.50	19.50		
100	PI/2 BPSK	1	271	19.66	19.66	19.66		
100	PI/2 BPSK	135	0	19.56	19.56	19.56	21.0	0.0
100	PI/2 BPSK	135	69	19.46	19.46	19.46	21.0	0.0
100	PI/2 BPSK	135	138	19.53	19.53	19.53		
100	PI/2 BPSK	270	0	19.52	19.52	19.52		
100	QPSK	1	1	19.66	19.66	19.66	21.0	0.0
100	QPSK	1	137	19.68	19.68	19.68		
100	QPSK	1	271	19.61	19.61	19.61		
100	QPSK	135	0	19.65	19.65	19.65	21.0	0.0
100	QPSK	135	69	19.44	19.44	19.44	21.0	0.0
100	QPSK	135	138	19.54	19.54	19.54		
100	QPSK	270	0	19.55	19.55	19.55		
100	16QAM	1	1	19.58	19.58	19.58	21.0	0.0
100	64QAM	1	1	19.54	19.54	19.54	21.0	0.0
100	256QAM	1	1	19.50	19.50	19.50		
Channel								
Frequency (MHz)								
90	QPSK	1	123	19.62	19.66	19.66	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	109	19.53	19.59	19.36	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	81	19.47	19.57	19.44	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	67	19.52	19.61	19.45	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	53	19.58	19.63	19.36	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	26	19.49	19.67	19.47	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	19	19.64	19.54	19.56	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	12	19.58	19.63	19.51	21.0	0.0



Par270 n77 PC2 Ant3 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	18.41	18.51	18.39		
100	PI/2 BPSK	1	137	18.34	18.50	18.45	19.0	0.0
100	PI/2 BPSK	1	271	18.44	18.38	18.59		
100	PI/2 BPSK	135	0	18.31	18.54	18.25	19.0	0.0
100	PI/2 BPSK	135	69	18.38	18.46	18.48	19.0	0.0
100	PI/2 BPSK	135	138	18.32	18.58	18.59		
100	PI/2 BPSK	270	0	18.33	18.58	18.48	19.0	0.0
100	QPSK	1	1	18.47	18.56	18.57		
100	QPSK	1	137	18.51	18.61	18.44	19.0	0.0
100	QPSK	1	271	18.48	18.48	18.41		
100	QPSK	135	0	18.42	18.40	18.53	19.0	1.0
100	QPSK	135	69	18.41	18.55	18.53	19.0	0.0
100	QPSK	135	138	18.43	18.50	18.45	19.0	0.0
100	QPSK	270	0	18.36	18.46	18.39		
100	16QAM	1	1	18.35	18.59	18.46	19.0	0.0
100	64QAM	1	1	18.49	18.47	18.48	19.0	0.0
100	256QAM	1	1	18.34	18.48	18.41	19.0	0.0
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	123	18.34	18.60	18.38	19.0	0.0
Channel				649334	656000	662086	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	18.43	18.47	18.36	19.0	0.0
Channel				648688	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	18.45	18.57	18.51	19.0	0.0
Channel				3725.01	3840	3955.02	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	18.42	18.43	18.58	19.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	18.28	18.45	18.43	19.0	0.0
Channel				647334	656000	663586	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	18.39	18.60	18.40	19.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	18.37	18.38	18.45	19.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	18.46	18.48	18.41	19.0	0.0

Part27Q n77 PC2 Ant3 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334	633668			
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1		18.15				
100	PI/2 BPSK	1	137		18.21		19.0	0.0	
100	PI/2 BPSK	1	271		18.32				
100	PI/2 BPSK	135	0		18.16		19.0	0.0	
100	PI/2 BPSK	135	69		18.25		19.0	0.0	
100	PI/2 BPSK	135	138		18.14				
100	PI/2 BPSK	270	0		18.18		19.0	0.0	
100	QPSK	1	1		18.23				
100	QPSK	1	137		18.27		19.0	0.0	
100	QPSK	1	271		18.32				
100	QPSK	135	0		18.15		19.0	0.0	
100	QPSK	135	69		18.27		19.0	0.0	
100	QPSK	135	138		18.16		19.0	0.0	
100	QPSK	270	0		18.20				
100	16QAM	1	1		18.16		19.0	0.0	
100	64QAM	1	1		18.22		19.0	0.0	
100	256QAM	1	1		18.18		19.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123		18.24	18.30	18.27	19.0	0.0
Channel				632588	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109		18.24	18.32	18.29	19.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81		18.15	18.24	18.11	19.0	0.0
Channel				631658	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67		18.18	18.11	18.21	19.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53		18.09	18.20	18.07	19.0	0.0
Channel				630988	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26		18.05	18.13	18.24	19.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3452.5	3500.01	3542.52			
15	QPSK	1	19		18.15	18.20	18.26	19.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12		18.20	18.16	18.26	19.0	0.0



Part270 n78 PC2 Ant3 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				65000					
Frequency (MHz)				3750					
100	Pi/2 BPSK	1	1	18.44	18.44	18.20			
100	Pi/2 BPSK	1	137	18.40	18.40	18.33	19.0	0.0	
100	Pi/2 BPSK	1	271	18.45	18.45	18.25			
100	Pi/2 BPSK	135	0	18.47	18.47	18.24	19.0	0.0	
100	Pi/2 BPSK	135	69	18.40	18.40	18.17	19.0	0.0	
100	Pi/2 BPSK	135	138	18.49	18.49	18.14			
100	Pi/2 BPSK	270	0	18.44	18.44	18.12	19.0	0.0	
100	QPSK	1	1	18.31	18.31	18.17			
100	QPSK	1	137	18.54	18.54	18.34	19.0	0.0	
100	QPSK	1	271	18.37	18.37	18.25			
100	QPSK	135	0	18.44	18.44	18.15	19.0	0.0	
100	QPSK	135	69	18.45	18.45	18.25	19.0	0.0	
100	QPSK	135	138	18.43	18.43	18.13	19.0	0.0	
100	QPSK	270	0	18.44	18.44	18.12	19.0	0.0	
100	16QAM	1	1	18.50	18.50	18.27	19.0	0.0	
100	64QAM	1	1	18.38	18.38	18.29	19.0	0.0	
100	256QAM	1	1	18.32	18.32	18.21	19.0	0.0	
Channel				64968	65000	65034	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	123	18.34	18.52	18.44	19.0	0.0	
Channel				64934	65000	65068	Tune-up limit	MPR	
Frequency (MHz)				3749.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	109	18.32	18.52	18.39	19.0	0.0	
Channel				64868	65000	65134	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	81	18.21	18.37	18.36	19.0	0.0	
Channel				64834	65000	65168	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	67	18.31	18.47	18.29	19.0	0.0	
Channel				64800	65000	65200	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3760	(dBm)	(dB)	
40	QPSK	1	53	18.15	18.35	18.42	19.0	0.0	
Channel				64734	65000	65268	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	26	18.12	18.44	18.30	19.0	0.0	
Channel				64768	65000	65234	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	19	18.24	18.32	18.25	19.0	0.0	
Channel				64700	65000	65300	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	12	18.17	18.46	18.29	19.0	0.0	

Part27Q 78 PC2 Ant3 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				63334					
Frequency (MHz)				3500.01					
100	Pi/2 BPSK	1	1	18.44	18.20	18.20			
100	Pi/2 BPSK	1	137	18.33	18.33	18.25	19.0	0.0	
100	Pi/2 BPSK	1	271	18.25	18.25	18.25			
100	Pi/2 BPSK	135	0	18.24	18.24	18.24	19.0	0.0	
100	Pi/2 BPSK	135	69	18.17	18.17	18.17	19.0	0.0	
100	Pi/2 BPSK	135	138	18.14	18.14	18.14			
100	Pi/2 BPSK	270	0	18.12	18.12	18.12	19.0	0.0	
100	QPSK	1	1	18.17	18.17	18.17			
100	QPSK	1	137	18.34	18.34	18.34	19.0	0.0	
100	QPSK	1	271	18.25	18.25	18.25			
100	QPSK	135	0	18.15	18.15	18.15	19.0	0.0	
100	QPSK	135	69	18.25	18.25	18.25	19.0	0.0	
100	QPSK	135	138	18.13	18.13	18.13	19.0	0.0	
100	QPSK	270	0	18.12	18.12	18.12	19.0	0.0	
100	16QAM	1	1	18.27	18.27	18.27	19.0	0.0	
100	64QAM	1	1	18.29	18.29	18.29	19.0	0.0	
100	256QAM	1	1	18.21	18.21	18.21	19.0	0.0	
Channel				63300	63334	63368	Tune-up limit	MPR	
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)	
90	QPSK	1	123	18.28	18.20	18.27	19.0	0.0	
Channel				63268	63334	63400	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	109	18.23	18.05	18.14	19.0	0.0	
Channel				63200	63334	63468	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	81	18.15	18.08	18.22	19.0	0.0	
Channel				63168	63334	63500	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	67	18.19	18.04	18.23	19.0	0.0	
Channel				63134	63334	63534	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	53	18.13	18.04	18.13	19.0	0.0	
Channel				63068	63334	63600	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	26	18.24	18.05	18.20	19.0	0.0	
Channel				63050	63334	63668	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)	
15	QPSK	1	19	18.23	18.16	18.20	19.0	0.0	
Channel				63034	63334	63634	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)	
10	QPSK	1	12	18.12	18.13	18.22	19.0	0.0	



n5 Ant4 DSI1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166300	167300	167800		
Frequency (MHz)				834	836.5	838		
20	PI/2 BPSK	1	1	23.07	23.23	23.16	24.5	0.0
20	PI/2 BPSK	1	26	22.98	23.24	23.19		
20	PI/2 BPSK	1	49	23.04	23.16	23.20		
20	PI/2 BPSK	25	0	23.03	23.19	23.15	24.5	0.0
20	PI/2 BPSK	25	13	23.02	23.24	23.14	24.5	0.0
20	PI/2 BPSK	25	26	23.08	23.21	23.22	24.5	0.0
20	PI/2 BPSK	50	0	23.04	23.27	23.26		
20	QPSK	1	1	23.02	23.28	23.26		
20	QPSK	1	26	23.08	23.20	23.15	24.5	0.0
20	QPSK	1	49	23.00	23.17	23.15		
20	QPSK	25	0	23.04	23.18	23.15		
20	QPSK	25	13	23.03	23.25	23.15	24.5	0.0
20	QPSK	25	26	22.97	23.22	23.23	24.5	0.0
20	QPSK	50	0	23.00	23.20	23.14	24.5	0.0
20	16QAM	1	1	22.99	23.24	23.26		
20	16QAM	1	1	22.99	22.97	22.65		
20	256QAM	1	1	20.96	20.73	20.67	21.0	3.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.01	23.18	23.19	24.5	0.0
Channel				165600	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.04	23.28	23.14	24.5	0.0

n7 Ant4 DSI1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	18.80	18.96	18.84	19.5	0.0
20	PI/2 BPSK	1	26	18.75	18.83	18.92		
20	PI/2 BPSK	1	49	18.78	18.94	18.83		
20	PI/2 BPSK	25	0	18.82	18.95	18.91	19.5	0.0
20	PI/2 BPSK	25	13	18.76	18.97	18.91	19.5	0.0
20	PI/2 BPSK	25	26	18.80	18.96	18.82	19.5	0.0
20	PI/2 BPSK	50	0	18.80	18.96	18.86		
20	QPSK	1	1	18.88	19.02	18.98		
20	QPSK	1	26	18.74	18.80	18.89	19.5	0.0
20	QPSK	1	49	18.94	18.97	18.95		
20	QPSK	25	0	18.71	18.94	18.85		
20	QPSK	25	13	18.75	18.99	18.86	19.5	0.0
20	QPSK	25	26	18.77	18.91	18.81	19.5	0.0
20	QPSK	50	0	18.83	18.95	18.83	19.5	0.0
20	16QAM	1	1	18.75	18.86	18.92		
20	16QAM	1	1	18.75	18.89	18.91		
20	256QAM	1	1	18.74	18.92	18.94	19.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	18.81	18.88	18.89	19.5	0.0
Channel				501000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	18.72	18.91	18.83	19.5	0.0



n38 Ant4 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516500	518000	522000			
Frequency (MHz)				2550	2595	2610			
20	PI/2 BPSK	1	1	15.43	15.46	15.39			
20	PI/2 BPSK	1	26	15.47	15.42	15.41	16.5	0.0	
20	PI/2 BPSK	1	49	15.43	15.45	15.47			
20	PI/2 BPSK	25	0	15.39	15.45	15.40	16.5	0.0	
20	PI/2 BPSK	25	13	15.43	15.51	15.50	16.5	0.0	
20	PI/2 BPSK	25	26	15.38	15.52	15.40			
20	PI/2 BPSK	50	0	15.41	15.49	15.41	16.5	0.0	
20	QPSK	1	1	15.52	15.58	15.53			
20	QPSK	1	26	15.39	15.49	15.44	16.5	0.0	
20	QPSK	1	49	15.43	15.49	15.43			
20	QPSK	25	0	15.38	15.44	15.43	16.5	0.0	
20	QPSK	25	13	15.42	15.51	15.38	16.5	0.0	
20	QPSK	25	26	15.49	15.44	15.40			
20	QPSK	50	0	15.39	15.41	15.38	16.5	0.0	
20	16QAM	1	1	15.40	15.52	15.41	16.5	0.0	
20	64QAM	1	1	15.41	15.55	15.45	16.5	0.0	
20	256QAM	1	1	15.39	15.43	15.41	16.5	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	PI/2 BPSK	1	1	15.48	15.49	15.45	16.5	0.0	
Channel				515504	519000	522596			
Frequency (MHz)				2575.02	2595	2614.98			
10	PI/2 BPSK	1	1	15.37	15.42	15.46	16.5	0.0	

n41 PC2 Ant4 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				536202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	15.64	15.85	15.77			
100	PI/2 BPSK	1	137	15.53	15.84	15.76	17.0	0.0	
100	PI/2 BPSK	1	271	15.54	15.81	15.76			
100	PI/2 BPSK	135	0	15.62	15.80	15.77	17.0	0.0	
100	PI/2 BPSK	135	69	15.66	15.82	15.80	17.0	0.0	
100	PI/2 BPSK	135	138	15.58	15.83	15.79			
100	PI/2 BPSK	270	0	15.58	15.83	15.79	17.0	0.0	
100	QPSK	1	1	15.58	15.77	15.84			
100	QPSK	1	137	15.55	15.86	15.82	17.0	0.0	
100	QPSK	1	271	15.66	15.84	15.72			
100	QPSK	135	0	15.61	15.76	15.72	17.0	0.0	
100	QPSK	135	69	15.64	15.79	15.74	17.0	0.0	
100	QPSK	135	138	15.58	15.77	15.68			
100	QPSK	270	0	15.63	15.80	15.77	17.0	0.0	
100	16QAM	1	1	15.60	15.80	15.81	17.0	0.0	
100	64QAM	1	1	15.62	15.83	15.80	17.0	0.0	
100	256QAM	1	1	15.61	15.85	15.79	17.0	0.0	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	123	15.67	15.80	15.74	17.0	0.0	
Channel				507204	518598	528996			
Frequency (MHz)				2538.02	2592.99	2646.99			
80	QPSK	1	109	15.54	15.79	15.85	17.0	0.0	
Channel				506200	518598	531996			
Frequency (MHz)				2526	2592.99	2659.98			
80	QPSK	1	81	15.65	15.80	15.75	17.0	0.0	
Channel				504204	518598	532996			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	67	15.55	15.78	15.83	17.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	53	15.61	15.77	15.82	17.0	0.0	
Channel				501204	518598	535996			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	26	15.62	15.83	15.74	17.0	0.0	
Channel				500700	518598	536498			
Frequency (MHz)				2503.05	2592.99	2682.98			
15	QPSK	1	19	15.59	15.79	15.82	17.0	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	12	15.61	15.84	15.80	17.0	0.0	



Par270 n77 PC3 Ant5 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				656000	666000	662000			
Frequency (MHz)				3760	3860	3930			
100	PI/2 BPSK	1	1	15.50	15.52	15.39			
100	PI/2 BPSK	1	137	15.49	15.48	15.38	17.0	0.0	
100	PI/2 BPSK	1	271	15.40	15.55	15.30			
100	PI/2 BPSK	135	0	15.49	15.47	15.42	17.0	0.0	
100	PI/2 BPSK	135	69	15.41	15.45	15.31	17.0	0.0	
100	PI/2 BPSK	135	138	15.39	15.43	15.36			
100	PI/2 BPSK	270	0	15.38	15.54	15.40	17.0	0.0	
100	QPSK	1	1	15.45	15.49	15.33			
100	QPSK	1	137	15.55	15.59	15.45	17.0	0.0	
100	QPSK	1	271	15.46	15.44	15.40			
100	QPSK	135	0	15.42	15.45	15.36	17.0	0.0	
100	QPSK	135	69	15.41	15.53	15.39	17.0	0.0	
100	QPSK	135	138	15.51	15.47	15.35	17.0	0.0	
100	QPSK	270	0	15.49	15.53	15.30			
100	16QAM	1	1	15.39	15.48	15.42	17.0	0.0	
100	64QAM	1	1	15.44	15.49	15.31	17.0	0.0	
100	256QAM	1	1	15.46	15.42	15.35	17.0	0.0	
Channel				649668	666000	662334			
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	15.49	15.53	15.29	17.0	0.0	
Channel				648334	666000	662668			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	15.48	15.50	15.36	17.0	0.0	
Channel				648668	666000	663334			
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	15.43	15.49	15.35	17.0	0.0	
Channel				648334	666000	663668			
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	15.50	15.54	15.31	17.0	0.0	
Channel				648000	666000	664000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	15.52	15.51	15.34	17.0	0.0	
Channel				647334	666000	664668			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	15.41	15.44	15.29	17.0	0.0	
Channel				647168	666000	664834			
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	15.52	15.44	15.31	17.0	0.0	
Channel				647000	666000	665000			
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	15.41	15.48	15.29	17.0	0.0	

Part27Q n77 PC3 Ant5 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334	633501			
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1			15.46			
100	PI/2 BPSK	1	137			15.37	17.0	0.0	
100	PI/2 BPSK	1	271			15.38			
100	PI/2 BPSK	135	0			15.44	17.0	0.0	
100	PI/2 BPSK	135	69			15.39			
100	PI/2 BPSK	135	138			15.44			
100	PI/2 BPSK	270	0			15.39	17.0	0.0	
100	QPSK	1	1			15.32			
100	QPSK	1	137			15.48	17.0	0.0	
100	QPSK	1	271			15.43			
100	QPSK	135	0			15.36	17.0	0.0	
100	QPSK	135	69			15.40	17.0	0.0	
100	QPSK	135	138			15.37			
100	QPSK	270	0			15.36	17.0	0.0	
100	16QAM	1	1			15.45	17.0	0.0	
100	256QAM	1	1			15.44	17.0	0.0	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123	15.39	15.26	15.34	17.0	0.0	
Channel				632668	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109	15.35	15.29	15.40	17.0	0.0	
Channel				632000	633334	634668			
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	15.27	15.24	15.44	17.0	0.0	
Channel				631668	633334	635500			
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67	15.39	15.29	15.44	17.0	0.0	
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	15.29	15.29	15.34	17.0	0.0	
Channel				630668	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	15.37	15.24	15.43	17.0	0.0	
Channel				630500	633334	636168			
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19	15.32	15.37	15.41	17.0	0.0	
Channel				630334	633334	636334			
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12	15.32	15.37	15.34	17.0	0.0	



Part270 n78 PC3 Ant5 DSI1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI/2 BPSK	1	1	15.44			
100	PI/2 BPSK	1	137	15.46			
100	PI/2 BPSK	1	271	15.44			
100	PI/2 BPSK	135	0	15.42			
100	PI/2 BPSK	135	69	15.44			
100	PI/2 BPSK	135	138	15.44			
100	PI/2 BPSK	270	0	15.43			
100	QPSK	1	1	15.40			
100	QPSK	1	137	15.53			
100	QPSK	1	271	15.50			
100	QPSK	135	0	15.42			
100	QPSK	135	69	15.45			
100	QPSK	135	138	15.38			
100	QPSK	270	0	15.40			
100	16QAM	0	1	15.49			
100	64QAM	1	1	15.39			
100	256QAM	1	1	15.42			
Channel				649688	650000	650334	Tune-up limit MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm) (dB)
90	QPSK	1	123	15.52	15.49	15.47	17.0 0.0
Channel				649334	650000	650666	Tune-up limit MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm) (dB)
80	QPSK	1	109	15.39	15.49	15.48	17.0 0.0
Channel				648668	650000	651334	Tune-up limit MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm) (dB)
60	QPSK	1	81	15.41	15.48	15.41	17.0 0.0
Channel				647334	650000	651666	Tune-up limit MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm) (dB)
50	QPSK	1	67	15.48	15.50	15.47	17.0 0.0
Channel				648000	650000	652000	Tune-up limit MPR
Frequency (MHz)				3720	3750	3780	(dBm) (dB)
40	QPSK	1	53	15.48	15.43	15.49	17.0 0.0
Channel				647334	650000	652666	Tune-up limit MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm) (dB)
20	QPSK	1	26	15.50	15.49	15.47	17.0 0.0
Channel				647168	650000	652834	Tune-up limit MPR
Frequency (MHz)				3707.52	3750	3792.51	(dBm) (dB)
15	QPSK	1	19	15.43	15.45	15.42	17.0 0.0
Channel				647000	650000	653000	Tune-up limit MPR
Frequency (MHz)				3705	3750	3795	(dBm) (dB)
10	QPSK	1	12	15.48	15.44	15.41	17.0 0.0

Part27Q 78 PC3 Ant5 DSI1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI/2 BPSK	1	1	15.35			
100	PI/2 BPSK	1	137	15.30			
100	PI/2 BPSK	1	271	15.30			
100	PI/2 BPSK	135	0	15.29			
100	PI/2 BPSK	135	69	15.32			
100	PI/2 BPSK	135	138	15.29			
100	PI/2 BPSK	270	0	15.29			
100	QPSK	1	1	15.33			
100	QPSK	1	137	15.38			
100	QPSK	1	271	15.32			
100	QPSK	135	0	15.36			
100	QPSK	135	69	15.35			
100	QPSK	135	138	15.29			
100	QPSK	270	0	15.30			
100	16QAM	1	1	15.36			
100	64QAM	1	1	15.31			
100	256QAM	1	1	15.28			
Channel				633000	633334	633668	Tune-up limit MPR
Frequency (MHz)				3485	3500.01	3505.02	(dBm) (dB)
90	QPSK	1	123	15.09	15.16	15.24	17.0 0.0
Channel				632568	633334	634000	Tune-up limit MPR
Frequency (MHz)				3480.02	3500.01	3510	(dBm) (dB)
80	QPSK	1	109	15.22	15.22	15.31	17.0 0.0
Channel				632000	633334	634668	Tune-up limit MPR
Frequency (MHz)				3480	3500.01	3520.02	(dBm) (dB)
60	QPSK	1	81	15.15	15.19	15.19	17.0 0.0
Channel				631658	633334	635000	Tune-up limit MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm) (dB)
50	QPSK	1	67	15.12	15.27	15.28	17.0 0.0
Channel				631334	633334	635334	Tune-up limit MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm) (dB)
40	QPSK	1	53	15.19	15.27	15.21	17.0 0.0
Channel				630968	633334	636000	Tune-up limit MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm) (dB)
20	QPSK	1	26	15.19	15.23	15.20	17.0 0.0
Channel				630500	633334	636168	Tune-up limit MPR
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm) (dB)
15	QPSK	1	19	15.12	15.24	15.31	17.0 0.0
Channel				630334	633334	636334	Tune-up limit MPR
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm) (dB)
10	QPSK	1	12	15.21	15.23	15.29	17.0 0.0



Par270 n77 PC3 Ant6 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				65000	65000	65000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.34	22.33	22.34	23.0	0.0
100	PI/2 BPSK	1	137	22.32	22.34	22.31		
100	PI/2 BPSK	1	271	22.30	22.29	22.31		
100	PI/2 BPSK	135	0	22.45	22.41	22.43	23.0	0.0
100	PI/2 BPSK	135	69	22.44	22.52	22.49	23.0	0.0
100	PI/2 BPSK	135	138	22.41	22.42	22.40	23.0	0.0
100	PI/2 BPSK	270	0	22.53	22.50	22.52		
100	QPSK	1	1	22.43	22.51	22.53		
100	QPSK	1	137	22.48	22.54	22.50	23.0	0.0
100	QPSK	1	271	22.30	22.30	22.28	23.0	0.0
100	QPSK	135	0	22.51	22.51	22.50		
100	QPSK	135	69	22.44	22.53	22.49		
100	QPSK	135	138	22.40	22.41	22.39	23.0	0.0
100	QPSK	270	0	22.37	22.44	22.42	23.0	0.0
100	16QAM	1	1	22.22	22.21	22.19		
100	64QAM	1	1	22.30	22.29	22.28		
100	256QAM	1	1	21.35	21.26	21.32	21.5	1.5
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	123	22.28	22.39	22.35	23.0	0.0
Channel				649334	656000	662086	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	22.28	22.38	22.37	23.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	22.27	22.36	22.35	23.0	0.0
Channel				3725.01	3840	3955.02	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	22.25	22.35	22.36	23.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	22.28	22.38	22.35	23.0	0.0
Channel				647334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	22.28	22.38	22.33	23.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	22.24	22.35	22.35	23.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	22.27	22.37	22.35	23.0	0.0

Part27Q n77 PC3 Ant6 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.01		
100	PI/2 BPSK	1	1	21.40	21.38	21.38	23.0	0.0
100	PI/2 BPSK	1	137	21.36				
100	PI/2 BPSK	1	271	21.20				
100	PI/2 BPSK	135	0	21.39			23.0	0.0
100	PI/2 BPSK	135	69	21.41				
100	PI/2 BPSK	135	138	21.35				
100	PI/2 BPSK	270	0	21.42			23.0	0.0
100	QPSK	1	1	21.24			23.0	0.0
100	QPSK	1	137	21.43				
100	QPSK	1	271	21.23				
100	QPSK	135	0	21.34			23.0	0.0
100	QPSK	135	69	21.40				
100	QPSK	135	138	21.19				
100	QPSK	270	0	21.39			23.0	0.0
100	16QAM	1	1	21.24			23.0	0.0
100	64QAM	1	1	21.24			23.0	0.0
100	256QAM	1	1	20.23			21.5	1.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	21.40	21.38	21.38	23.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	21.37	21.39	21.36	23.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	21.35	21.37	21.36	23.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	21.39	21.36	21.37	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	21.36	21.38	21.39	23.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	21.40	21.35	21.37	23.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	21.41	21.37	21.37	23.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	21.39	21.39	21.36	23.0	0.0



Part270 n78 PC3 Ant6 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				65000				
Frequency (MHz)				3750				
100	Pi/2 BPSK	1	1	22.32			23.0	0.0
100	Pi/2 BPSK	1	137	22.37				
100	Pi/2 BPSK	1	271	22.34				
100	Pi/2 BPSK	135	0	22.35			23.0	0.0
100	Pi/2 BPSK	135	69	22.34			23.0	0.0
100	Pi/2 BPSK	135	138	22.29				
100	Pi/2 BPSK	270	0	22.33			23.0	0.0
100	QPSK	1	1	22.23				
100	QPSK	1	137	22.48				
100	QPSK	1	271	22.34			23.0	0.0
100	QPSK	135	0	22.15			23.0	0.0
100	QPSK	135	69	22.33			23.0	0.0
100	QPSK	135	138	22.19			23.0	0.0
100	QPSK	270	0	22.33			23.0	0.0
100	16QAM	0	1				23.0	0.0
100	64QAM	1	1	22.24			23.0	0.0
100	256QAM	1	1	21.25			21.5	1.5
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	123	22.07	22.34	22.20	23.0	0.0
Channel				64934	65000	65068	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3749.01	3750	3760.02		
80	QPSK	1	109	22.08	22.36	22.23	23.0	0.0
Channel				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	81	22.06	22.34	22.22	23.0	0.0
Channel				64834	65000	65168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	67	22.08	22.34	22.22	23.0	0.0
Channel				64800	65000	65200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	53	22.06	22.34	22.22	23.0	0.0
Channel				64734	65000	65268	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	26	22.07	22.35	22.22	23.0	0.0
Channel				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	19	22.06	22.34	22.20	23.0	0.0
Channel				64700	65000	65300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	12	22.09	22.35	22.21	23.0	0.0

Part27Q 78 PC3 Ant6 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				63334				
Frequency (MHz)				3500.01				
100	Pi/2 BPSK	1	1	21.17			23.0	0.0
100	Pi/2 BPSK	1	137	21.26				
100	Pi/2 BPSK	1	271	21.30				
100	Pi/2 BPSK	135	0	21.24			23.0	0.0
100	Pi/2 BPSK	135	69	21.22				
100	Pi/2 BPSK	135	138	21.25				
100	Pi/2 BPSK	270	0	21.24			23.0	0.0
100	QPSK	1	1	21.03				
100	QPSK	1	137	21.35				
100	QPSK	1	271	21.30			23.0	0.0
100	QPSK	135	0	21.25				
100	QPSK	135	69	21.32			23.0	0.0
100	QPSK	135	138	21.14				
100	QPSK	270	0	21.25			23.0	0.0
100	16QAM	1	1				23.0	0.0
100	64QAM	1	1	21.08			23.0	0.0
100	256QAM	1	1	20.11			21.5	1.5
Channel				63300	63334	63368	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	21.17	21.16	21.19	23.0	0.0
Channel				63268	63334	63400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	21.13	21.18	21.19	23.0	0.0
Channel				63200	63334	63468	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	21.14	21.18	21.19	23.0	0.0
Channel				63168	63334	63500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	21.13	21.19	21.18	23.0	0.0
Channel				63134	63334	63534	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	21.15	21.16	21.19	23.0	0.0
Channel				63068	63334	63600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	21.14	21.17	21.18	23.0	0.0
Channel				63000	63334	63668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	21.16	21.16	21.19	23.0	0.0
Channel				63034	63334	63634	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	21.13	21.17	21.18	23.0	0.0



Reduced power level for 5G NR DSI1 ENDC

Par270 n77 PC2&3 Ant3 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI/2 BPSK	1	1	15.38	15.49	15.53	16.0	0.0	
100	PI/2 BPSK	1	137	15.49	15.60	15.42	16.0	0.0	
100	PI/2 BPSK	1	271	15.55	15.53	15.55	16.0	0.0	
100	PI/2 BPSK	135	0	15.44	15.45	15.36	16.0	0.0	
100	PI/2 BPSK	135	69	15.43	15.50	15.41	16.0	0.0	
100	PI/2 BPSK	135	138	15.43	15.46	15.49	16.0	0.0	
100	PI/2 BPSK	270	0	15.47	15.56	15.51	16.0	0.0	
100	QPSK	1	1	15.60	15.68	15.59	16.0	0.0	
100	QPSK	1	137	15.42	15.57	15.49	16.0	0.0	
100	QPSK	1	271	15.51	15.49	15.52	16.0	0.0	
100	QPSK	135	0	15.01	15.59	15.41	15.0	1.0	
100	QPSK	135	69	15.47	15.63	15.41	16.0	0.0	
100	QPSK	135	138	15.45	15.43	15.50	16.0	0.0	
100	QPSK	270	0	15.38	15.46	15.42	16.0	0.0	
100	16QAM	1	1	15.45	15.50	15.48	16.0	0.0	
100	16QAM	1	1	15.45	15.57	15.55	16.0	0.0	
100	256QAM	1	1	15.38	15.63	15.55	16.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	15.55	15.52	15.62	16.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	15.54	15.53	15.49	16.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	15.56	15.60	15.56	16.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	15.53	15.55	15.48	16.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	15.49	15.57	15.52	16.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	15.55	15.56	15.51	16.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	15.57	15.59	15.49	16.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	15.55	15.46	15.57	16.0	0.0	

Part27Q n77 PC2&3 Ant3 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI/2 BPSK	1	1		15.14				
100	PI/2 BPSK	1	137		15.29		16.0	0.0	
100	PI/2 BPSK	1	271		15.21				
100	PI/2 BPSK	135	0		15.18		16.0	0.0	
100	PI/2 BPSK	135	69		15.30		16.0	0.0	
100	PI/2 BPSK	135	138		15.10		16.0	0.0	
100	PI/2 BPSK	270	0		15.26				
100	QPSK	1	1		15.35				
100	QPSK	1	137		15.25		16.0	0.0	
100	QPSK	1	271		15.30				
100	QPSK	135	0		15.07		16.0	0.0	
100	QPSK	135	69		15.27		16.0	0.0	
100	QPSK	135	138		15.10		16.0	0.0	
100	QPSK	270	0		15.06				
100	16QAM	1	1		15.25		16.0	0.0	
100	16QAM	1	1		15.31		16.0	0.0	
100	256QAM	1	1		15.15		16.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	15.26	15.04	15.11	16.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	15.19	15.08	15.14	16.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	15.26	15.08	15.22	16.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	15.04	15.22	15.01	16.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	14.95	15.26	15.24	16.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	15.15	15.26	15.12	16.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	15.15	15.25	15.03	16.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	15.04	15.26	15.14	16.0	0.0	



Reduced power level for 5G NR DSI2

n5 Ant1 Default power								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 166800	Middle Ch. / Freq. 167300	High Ch. / Freq. 167800		
Channel				831	836.5	841		
Frequency (MHz)				831	836.5	841		
20	PI/2 BPSK	1	1	23.87	24.07	23.83		
20	PI/2 BPSK	1	26	23.82	24.01	23.85	25.5	0.0
20	PI/2 BPSK	1	49	23.80	23.92	23.82		
20	PI/2 BPSK	25	0	23.70	23.78	23.59	25.0	0.5
20	PI/2 BPSK	25	13	23.81	24.03	23.81	25.5	0.0
20	PI/2 BPSK	25	26	23.55	23.59	23.61	25.0	0.5
20	PI/2 BPSK	50	0	23.55	23.74	23.69		
20	QPSK	1	1	23.90	24.11	24.07		
20	QPSK	1	26	23.83	24.04	23.98	25.5	0.0
20	QPSK	1	49	23.79	23.92	23.87		
20	QPSK	25	0	23.07	23.24	23.18	24.5	1.0
20	QPSK	25	13	23.87	24.06	23.89	25.5	0.0
20	QPSK	25	26	23.05	23.14	22.98	24.5	1.0
20	QPSK	50	0	23.12	23.26	23.09		
20	16QAM	1	1	22.81	22.91	22.76	24.5	1.0
20	64QAM	1	1	21.22	21.27	21.09	23.0	2.5
20	256QAM	1	1	19.55	19.59	19.61	21.0	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.87	23.94	23.80	25.5	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.86	23.98	23.86	25.5	0.0

n7 Ant1 DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 502000	Middle Ch. / Freq. 507000	High Ch. / Freq. 512000		
Channel				2310	2325	2330		
Frequency (MHz)				2310	2325	2330		
20	PI/2 BPSK	1	1	22.70	22.96	22.85		
20	PI/2 BPSK	1	26	22.78	22.90	22.77	24.0	0.0
20	PI/2 BPSK	1	49	22.72	22.89	22.84		
20	PI/2 BPSK	25	0	22.75	22.87	22.77	24.0	0.0
20	PI/2 BPSK	25	13	22.75	22.89	22.79	24.0	0.0
20	PI/2 BPSK	25	26	22.80	22.83	22.79	24.0	0.0
20	PI/2 BPSK	50	0	22.71	22.89	22.83		
20	QPSK	1	1	22.80	22.97	22.81		
20	QPSK	1	26	22.83	22.82	22.80	24.0	0.0
20	QPSK	1	49	22.76	22.90	22.80		
20	QPSK	25	0	22.74	22.88	22.86	24.0	0.0
20	QPSK	25	13	22.76	22.92	22.78	24.0	0.0
20	QPSK	25	26	22.74	22.93	22.87	24.0	0.0
20	QPSK	50	0	22.84	22.90	22.87		
20	16QAM	1	1	22.76	22.96	22.79	24.0	0.0
20	64QAM	1	1	21.81	21.92	21.85	23.0	1.0
20	256QAM	1	1	19.82	19.91	19.86	21.0	3.0
Channel				501500	507000	512500		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.74	22.94	22.89	24.0	0.0
Channel				501000	507000	513000		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.89	22.87	22.74	24.0	0.0



n38 Ant1 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				516000	516000	522000			
Frequency (MHz)				2580	2595	2610			
20	PI/2 BPSK	1	1	21.90	21.91	21.98			
20	PI/2 BPSK	1	26	21.89	21.91	22.05	23.5	0.0	
20	PI/2 BPSK	1	49	21.92	21.90	22.02			
20	PI/2 BPSK	25	0	21.93	21.85	22.01	23.5	0.0	
20	PI/2 BPSK	25	13	21.91	21.91	21.95	23.5	0.0	
20	PI/2 BPSK	25	26	21.90	21.84	21.98			
20	PI/2 BPSK	50	0	21.91	21.81	21.95	23.5	0.0	
20	QPSK	1	1	22.05	22.08	21.99			
20	QPSK	1	26	21.99	21.80	21.96	23.5	0.0	
20	QPSK	1	49	21.92	21.85	22.01			
20	QPSK	25	0	21.90	21.81	21.98	23.5	0.0	
20	QPSK	25	13	21.90	22.00	21.87	23.5	0.0	
20	QPSK	25	26	21.99	21.92	22.01	23.5	0.0	
20	QPSK	50	0	22.01	21.89	21.95			
20	16QAM	1	1	21.96	21.90	22.05	23.5	0.0	
20	64QAM	1	1	21.49	21.51	21.57	23.0	0.5	
20	256QAM	1	1	19.52	19.45	19.60	21.0	2.5	
Channel				515902	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	PI/2 BPSK	1	1	22.01	21.80	21.99	23.5	0.0	
Channel				515304	516000	522396			
Frequency (MHz)				2575.02	2595	2614.98			
10	PI/2 BPSK	1	1	21.96	21.80	21.96	23.5	0.0	

n41 PC3 Ant1 Default power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505202	518598	526600			
Frequency (MHz)				2548.01	2592.99	2650			
100	PI/2 BPSK	1	1	23.05	23.09	22.93			
100	PI/2 BPSK	1	137	23.74	23.91	23.81	24.5	0.0	
100	PI/2 BPSK	1	271	22.87	23.01	22.99			
100	PI/2 BPSK	135	0	23.78	23.83	23.68	24.5	0.0	
100	PI/2 BPSK	135	69	23.88	23.91	23.79	24.5	0.0	
100	PI/2 BPSK	135	138	23.81	23.82	23.59			
100	PI/2 BPSK	270	0	23.59	23.78	23.58	24.5	0.0	
100	QPSK	1	1	22.81	23.02	22.98			
100	QPSK	1	137	23.83	23.94	23.79	24.5	0.0	
100	QPSK	1	271	22.76	22.89	22.81			
100	QPSK	135	0	23.57	23.57	23.58	24.5	0.0	
100	QPSK	135	69	23.90	23.92	23.88	24.5	0.0	
100	QPSK	135	138	23.56	23.49	23.61	24.5	0.0	
100	QPSK	270	0	23.59	23.72	23.56			
100	16QAM	1	1	23.79	23.79	23.75	24.5	0.0	
100	64QAM	1	1	22.42	22.46	22.47	23.0	1.5	
100	256QAM	1	1	20.34	20.33	20.36	21.0	3.5	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	123	23.85	23.82	23.43	24.5	0.0	
Channel				507204	518598	529398			
Frequency (MHz)				2538.02	2592.99	2649.99			
80	QPSK	1	109	23.82	23.80	23.62	24.5	0.0	
Channel				505200	518598	531996			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	81	23.82	23.88	23.57	24.5	0.0	
Channel				504204	518598	532398			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	67	23.84	23.80	23.49	24.5	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	53	23.81	23.88	23.88	24.5	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	26	23.73	23.72	23.83	24.5	0.0	
Channel				500700	518598	538496			
Frequency (MHz)				2503.3	2592.99	2692.48			
15	QPSK	1	19	23.75	23.74	23.61	24.5	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	12	23.73	23.86	23.51	24.5	0.0	

n41 PC2 Ant1 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				505202	518598	526200			
Frequency (MHz)				2548.01	2592.99	2640			
100	PI/2 BPSK	1	1	24.55	24.71	24.47			
100	PI/2 BPSK	1	137	24.57	24.79	24.55	25.5	0.0	
100	PI/2 BPSK	1	271	24.61	24.78	24.49			
100	PI/2 BPSK	135	0	24.62	24.71	24.53	25.5	0.0	
100	PI/2 BPSK	135	69	24.53	24.75	24.58	25.5	0.0	
100	PI/2 BPSK	135	138	24.63	24.75	24.48			
100	PI/2 BPSK	270	0	24.53	24.77	24.55	25.5	0.0	
100	QPSK	1	1	24.51	24.79	24.45			
100	QPSK	1	137	24.59	24.81	24.53	25.5	0.0	
100	QPSK	1	271	24.52	24.79	24.52			
100	QPSK	135	0	24.02	24.28	23.93	25.0	0.5	
100	QPSK	135	69	24.35	24.72	24.34	25.5	0.0	
100	QPSK	135	138	23.99	24.26	23.91	25.0	0.5	
100	QPSK	270	0	24.07	24.29	23.98			
100	16QAM	1	1	23.99	24.35	23.89	25.0	0.5	
100	64QAM	1	1	22.57	22.75	22.69	23.5	2.0	
100	256QAM	1	1	21.24	21.30	21.19	21.5	4.0	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	123	24.39	24.63	24.31	25.5	0.0	
Channel				507204	518598	529398			
Frequency (MHz)				2538.02	2592.99	2649.99			
80	QPSK	1	109	24.44	24.23	23.91	25.5	0.0	
Channel				505200	518598	531996			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	81	24.41	24.72	24.40	25.5	0.0	
Channel				504204	518598	532398			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	67	24.46	24.72	24.29	25.5	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	53	24.47	24.67	24.38	25.5	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	26	24.43	24.65	24.42	25.5	0.0	
Channel				500700	518598	538496			
Frequency (MHz)				2503.3	2592.99	2692.48			
15	QPSK	1	19	24.39	24.64	24.32	25.5	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	12	24.42	24.62	24.39	25.5	0.0	



n7 Ant2 DSI2								
Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
20	Pi/2 BPSK	1	1	21.32	21.45	21.31		
20	Pi/2 BPSK	1	26	21.44	21.51	21.41	23.0	0.0
20	Pi/2 BPSK	1	49	21.32	21.44	21.38		
20	Pi/2 BPSK	25	0	21.28	21.53	21.30	23.0	0.0
20	Pi/2 BPSK	25	13	21.28	21.52	21.37	23.0	0.0
20	Pi/2 BPSK	25	26	21.33	21.45	21.39		
20	Pi/2 BPSK	50	0	21.27	21.51	21.43	23.0	0.0
20	QPSK	1	1	21.34	21.57	21.37		
20	QPSK	1	26	21.36	21.54	21.38	23.0	0.0
20	QPSK	1	49	21.35	21.47	21.41		
20	QPSK	25	0	21.40	21.43	21.30	23.0	0.0
20	QPSK	25	13	21.28	21.46	21.44	23.0	0.0
20	QPSK	25	26	21.25	21.31	21.27		
20	QPSK	50	0	21.29	21.34	21.32	23.0	0.0
20	16QAM	1	1	21.35	21.40	21.37	23.0	0.0
20	64QAM	1	1	20.78	20.97	20.92	22.5	0.5
20	256QAM	1	1	18.84	19.01	18.87	20.5	2.5
Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
501500	507000	512500	501500	507000	512500	501500	507000	512500
2507.5	2535	2562.5	2507.5	2535	2562.5	2507.5	2535	2562.5
21.28	21.42	21.33	21.28	21.42	21.33	23.0	0.0	0.0
Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
501000	507000	513000	501000	507000	513000	501000	507000	513000
2605	2635	2665	2605	2635	2665	2605	2635	2665
21.30	21.35	21.32	21.30	21.35	21.32	23.0	0.0	0.0



n38 Ant2 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				516500	518000	522000			
Frequency (MHz)				2550	2595	2610			
20	PI/2 BPSK	1	1	19.68	19.69	19.65			
20	PI/2 BPSK	1	26	19.67	19.62	19.79	21.5	0.0	
20	PI/2 BPSK	1	49	19.72	19.67	19.72			
20	PI/2 BPSK	25	0	19.69	19.69	19.76	21.5	0.0	
20	PI/2 BPSK	25	13	19.71	19.54	19.79	21.5	0.0	
20	PI/2 BPSK	25	26	19.74	19.72	19.69			
20	PI/2 BPSK	50	0	19.72	19.65	19.68	21.5	0.0	
20	QPSK	1	1	19.78	19.82	19.72			
20	QPSK	1	26	19.70	19.65	19.73	21.5	0.0	
20	QPSK	1	49	19.66	19.73	19.67			
20	QPSK	25	0	19.69	19.73	19.65	21.5	0.0	
20	QPSK	25	13	19.63	19.59	19.69	21.5	0.0	
20	QPSK	25	26	19.76	19.65	19.77	21.5	0.0	
20	QPSK	50	0	19.74	19.73	19.69			
20	16QAM	1	1	19.68	19.63	19.79	21.5	0.0	
20	64QAM	1	1	19.66	19.67	19.71	21.5	0.0	
20	256QAM	1	1	18.85	18.74	18.87	20.5	1.0	
Channel				515502	518000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	PI/2 BPSK	1	1	19.68	19.69	19.74	21.5	0.0	
Channel				515504	518000	522596			
Frequency (MHz)				2575.02	2595	2614.98			
10	PI/2 BPSK	1	1	19.75	19.65	19.78	21.5	0.0	

n41 PC3 Ant2 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				506200	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	20.18	20.34	20.18			
100	PI/2 BPSK	1	137	20.22	20.33	20.20	21.5	0.0	
100	PI/2 BPSK	1	271	20.26	20.30	20.26			
100	PI/2 BPSK	135	0	20.26	20.41	20.27	21.5	0.0	
100	PI/2 BPSK	135	69	20.21	20.38	20.26	21.5	0.0	
100	PI/2 BPSK	135	138	20.19	20.33	20.21			
100	PI/2 BPSK	270	0	20.23	20.38	20.25	21.5	0.0	
100	QPSK	1	1	20.21	20.33	20.21			
100	QPSK	1	137	20.19	20.44	20.26	21.5	0.0	
100	QPSK	1	271	20.17	20.32	20.15			
100	QPSK	135	0	20.13	20.31	20.22	21.5	0.0	
100	QPSK	135	69	20.17	20.44	20.14	21.5	0.0	
100	QPSK	135	138	20.19	20.33	20.17	21.5	0.0	
100	QPSK	270	0	20.24	20.40	20.20			
100	16QAM	1	1	20.18	20.34	20.22	21.5	0.0	
100	64QAM	1	1	20.18	20.38	20.20	21.5	0.0	
100	256QAM	1	1	19.61	19.56	19.62	21.5	0.0	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	123	20.15	20.38	20.32	21.5	0.0	
Channel				507204	518598	528996			
Frequency (MHz)				2538.02	2592.99	2646.99			
80	QPSK	1	109	20.19	20.29	20.24	21.5	0.0	
Channel				506200	518598	531996			
Frequency (MHz)				2526	2592.99	2659.98			
80	QPSK	1	81	20.13	20.38	20.29	21.5	0.0	
Channel				504204	518598	532996			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	67	20.17	20.36	20.28	21.5	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	53	20.12	20.23	20.19	21.5	0.0	
Channel				501204	518598	535996			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	26	20.13	20.17	20.22	21.5	0.0	
Channel				500700	518598	536498			
Frequency (MHz)				2503.15	2592.99	2682.48			
15	QPSK	1	19	20.18	20.31	20.22	21.5	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	12	20.07	20.19	20.12	21.5	0.0	



Par270 n77 PC2&3 Ant2 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				656000	666000	662000			
Frequency (MHz)				3760	3860	3930			
100	PI/2 BPSK	1	1	20.63	20.74	20.72			
100	PI/2 BPSK	1	137	20.56	20.66	20.62	22.0	0.0	
100	PI/2 BPSK	1	271	20.56	20.72	20.72			
100	PI/2 BPSK	135	0	20.64	20.66	20.65	22.0	0.0	
100	PI/2 BPSK	135	69	20.57	20.75	20.65	22.0	0.0	
100	PI/2 BPSK	135	138	20.67	20.74	20.63			
100	PI/2 BPSK	270	0	20.59	20.75	20.61	22.0	0.0	
100	QPSK	1	1	20.57	20.70	20.63			
100	QPSK	1	137	20.55	20.78	20.73	22.0	0.0	
100	QPSK	1	271	20.66	20.74	20.74			
100	QPSK	135	0	20.66	20.67	20.64	22.0	0.0	
100	QPSK	135	69	20.55	20.72	20.62	22.0	0.0	
100	QPSK	135	138	20.63	20.65	20.61	22.0	0.0	
100	QPSK	270	0	20.60	20.69	20.63			
100	16QAM	1	1	20.55	20.75	20.67	22.0	0.0	
100	64QAM	1	1	20.50	20.76	20.62	22.0	0.0	
100	256QAM	1	1	20.58	20.68	20.71	22.0	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	20.56	20.76	20.71	22.0	0.0	
Channel				645334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3860	3940.02			
80	QPSK	1	109	20.54	20.71	20.64	22.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	20.62	20.74	20.73	22.0	0.0	
Channel				645334	656000	663368	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	20.57	20.74	20.66	22.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3950			
40	QPSK	1	53	20.54	20.67	20.70	22.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	20.66	20.75	20.74	22.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	20.58	20.75	20.62	22.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	20.67	20.74	20.64	22.0	0.0	

Part27Q n77 PC2&3 Ant2 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	633668			
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1			20.55			
100	PI/2 BPSK	1	137			20.50	22.0	0.0	
100	PI/2 BPSK	1	271			20.61			
100	PI/2 BPSK	135	0			20.53	22.0	0.0	
100	PI/2 BPSK	135	69			20.55	22.0	0.0	
100	PI/2 BPSK	135	138			20.55			
100	PI/2 BPSK	270	0			20.57	22.0	0.0	
100	QPSK	1	1			20.56			
100	QPSK	1	137			20.65	22.0	0.0	
100	QPSK	1	271			20.54			
100	QPSK	135	0			20.46	22.0	0.0	
100	QPSK	135	69			20.57	22.0	0.0	
100	QPSK	135	138			20.54	22.0	0.0	
100	QPSK	270	0			20.62			
100	16QAM	1	1			20.49	22.0	0.0	
100	64QAM	1	1			20.54	22.0	0.0	
100	256QAM	1	1			20.48	22.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123	20.36	20.41	20.42	22.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109	20.38	20.32	20.44	22.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	20.31	20.34	20.42	22.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67	20.39	20.40	20.43	22.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	20.30	20.41	20.46	22.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	20.30	20.42	20.47	22.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19	20.25	20.43	20.35	22.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12	20.37	20.43	20.40	22.0	0.0	



Part270 n78 PC2&3 Ant2 DS12

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				650000				
100	PI/2 BPSK	1	1	20.58				
100	PI/2 BPSK	1	137	20.64			22.0	0.0
100	PI/2 BPSK	1	271	20.60				
100	PI/2 BPSK	135	0	20.64			22.0	0.0
100	PI/2 BPSK	135	69	20.59			22.0	0.0
100	PI/2 BPSK	135	138	20.53				
100	PI/2 BPSK	270	0	20.51			22.0	0.0
100	QPSK	1	1	20.88				
100	QPSK	1	137	20.70			22.0	0.0
100	QPSK	1	271	20.66				
100	QPSK	135	0	20.62			22.0	0.0
100	QPSK	135	69	20.64			22.0	0.0
100	QPSK	135	138	20.63			22.0	0.0
100	QPSK	270	0	20.67			22.0	0.0
100	16QAM	1	1	20.48			22.0	0.0
100	64QAM	1	1	20.51			22.0	0.0
100	256QAM	1	1	20.61			22.0	0.0
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	123	20.62	20.63	20.69	22.0	0.0
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	109	20.55	20.59	20.64	22.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	81	20.51	20.57	20.55	22.0	0.0
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	67	20.52	20.57	20.64	22.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3760		
40	QPSK	1	53	20.47	20.56	20.57	22.0	0.0
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	26	20.47	20.47	20.63	22.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	19	20.54	20.53	20.65	22.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	12	20.54	20.47	20.57	22.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				633334				
100	PI/2 BPSK	1	1	20.53				
100	PI/2 BPSK	1	137	20.53			22.0	0.0
100	PI/2 BPSK	1	271	20.51				
100	PI/2 BPSK	135	0	20.53			22.0	0.0
100	PI/2 BPSK	135	69	20.52			22.0	0.0
100	PI/2 BPSK	135	138	20.61				
100	PI/2 BPSK	270	0	20.52			22.0	0.0
100	QPSK	1	1	20.60				
100	QPSK	1	137	20.62			22.0	0.0
100	QPSK	1	271	20.64				
100	QPSK	135	0	20.52			22.0	0.0
100	QPSK	135	69	20.59			22.0	0.0
100	QPSK	135	138	20.50			22.0	0.0
100	QPSK	270	0	20.54			22.0	0.0
100	16QAM	1	1	20.50			22.0	0.0
100	64QAM	1	1	20.55			22.0	0.0
100	256QAM	1	1	20.60			22.0	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	20.41	20.53	20.46	22.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	20.45	20.46	20.49	22.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	20.51	20.55	20.56	22.0	0.0
Channel				631668	633334	633900	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	20.51	20.54	20.54	22.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	20.41	20.45	20.57	22.0	0.0
Channel				630668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	20.51	20.47	20.57	22.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3459.5	3500.01	3542.52		
15	QPSK	1	19	20.53	20.45	20.47	22.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	20.45	20.46	20.50	22.0	0.0



Par270 n77 PC2&3 Ant3 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				656000	656000	662000			
Frequency (MHz)				3750	3550	3950			
100	PI/2 BPSK	1	1	22.40	22.58	22.49			
100	PI/2 BPSK	1	137	23.45	23.53	23.46	24.0	0.0	
100	PI/2 BPSK	1	271	22.35	22.52	22.49			
100	PI/2 BPSK	135	0	23.24	23.40	23.35	24.0	0.0	
100	PI/2 BPSK	135	69	23.43	23.27	23.48	24.0	0.0	
100	PI/2 BPSK	135	138	23.25	23.42	23.35			
100	PI/2 BPSK	270	0	23.40	23.44	23.29	24.0	0.0	
100	QPSK	1	1	22.37	22.50	22.46			
100	QPSK	1	137	23.56	23.61	23.53	24.0	0.0	
100	QPSK	1	271	22.31	22.49	22.37			
100	QPSK	135	0	23.27	23.43	23.28	24.0	0.0	
100	QPSK	135	69	23.28	23.49	23.33	24.0	0.0	
100	QPSK	135	138	23.35	23.37	23.20	24.0	0.0	
100	QPSK	270	0	23.26	23.37	23.18			
100	16QAM	1	1	22.31	22.33	22.32	24.0	0.0	
100	64QAM	1	1	22.81	22.85	22.83	23.5	0.5	
100	256QAM	1	1	21.26	21.15	21.13	21.5	2.5	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	22.96	23.25	23.05	24.0	0.0	
Channel				645334	656000	662968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3949.02			
80	QPSK	1	109	22.96	23.21	23.20	24.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	22.99	23.11	23.22	24.0	0.0	
Channel				645334	656000	663968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	23.02	23.27	23.08	24.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	23.11	23.11	23.05	24.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	23.04	23.25	23.17	24.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	23.05	23.11	23.22	24.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	23.10	23.13	23.18	24.0	0.0	

Part27Q n77 PC2&3 Ant3 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				633334	633334	633334			
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1			22.73			
100	PI/2 BPSK	1	137			23.44	24.0	0.0	
100	PI/2 BPSK	1	271			22.53			
100	PI/2 BPSK	135	0			23.32	24.0	0.0	
100	PI/2 BPSK	135	69			23.37	24.0	0.0	
100	PI/2 BPSK	135	138			23.38			
100	PI/2 BPSK	270	0			23.46	24.0	0.0	
100	QPSK	1	1			22.65			
100	QPSK	1	137			23.50	24.0	0.0	
100	QPSK	1	271			22.49			
100	QPSK	135	0			23.40	24.0	0.0	
100	QPSK	135	69			23.42	24.0	0.0	
100	QPSK	135	138			23.35	24.0	0.0	
100	QPSK	270	0			23.40			
100	16QAM	1	1			22.40	24.0	0.0	
100	64QAM	1	1			22.95	23.5	0.5	
100	256QAM	1	1			21.21	21.5	2.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123	23.28	23.27	23.19	24.0	0.0	
Channel				632968	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109	23.26	23.15	23.22	24.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	23.22	23.29	23.26	24.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67	23.17	23.16	23.15	24.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	23.11	23.16	23.25	24.0	0.0	
Channel				630968	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465.02	3500.01	3540			
20	QPSK	1	26	23.12	23.17	23.18	24.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3467.5	3500.01	3542.52			
15	QPSK	1	19	23.14	23.16	23.16	24.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12	23.29	23.30	23.28	24.0	0.0	



Part270 n78 PC2&3 Ant3 DS12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI/2 BPSK	1	1		22.52				
100	PI/2 BPSK	1	137		23.49		24.0	0.0	
100	PI/2 BPSK	1	271		22.57				
100	PI/2 BPSK	135	0		23.46		24.0	0.0	
100	PI/2 BPSK	135	69		23.51		24.0	0.0	
100	PI/2 BPSK	135	138		23.47				
100	PI/2 BPSK	270	0		23.41		24.0	0.0	
100	QPSK	1	1		22.80				
100	QPSK	1	137		23.53		24.0	0.0	
100	QPSK	1	271		22.52				
100	QPSK	135	0		23.45		24.0	0.0	
100	QPSK	135	69		23.51		24.0	0.0	
100	QPSK	135	138		23.50		24.0	0.0	
100	QPSK	270	0		23.50		24.0	0.0	
100	16QAM	1	1		22.32		24.0	0.0	
100	64QAM	1	1		22.93		23.5	0.5	
100	256QAM	1	1		21.10		21.5	2.5	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	123		23.42	23.32	23.47	24.0	0.0
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109		23.32	23.37	23.39	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81		23.35	23.27	23.29	24.0	0.0
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67		23.36	23.33	23.43	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53		23.45	23.37	23.39	24.0	0.0
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26		23.44	23.33	23.32	24.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	19		23.32	23.28	23.37	24.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12		23.34	23.46	23.47	24.0	0.0

Part270 78 PC2&3 Ant3 DS12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI/2 BPSK	1	1		22.33				
100	PI/2 BPSK	1	137		23.12		24.0	0.0	
100	PI/2 BPSK	1	271		22.27				
100	PI/2 BPSK	135	0		23.20				
100	PI/2 BPSK	135	69		23.20		24.0	0.0	
100	PI/2 BPSK	135	138		23.02				
100	PI/2 BPSK	270	0		23.06		24.0	0.0	
100	QPSK	1	1		22.38				
100	QPSK	1	137		23.24		24.0	0.0	
100	QPSK	1	271		22.27				
100	QPSK	135	0		23.15				
100	QPSK	135	69		23.19		24.0	0.0	
100	QPSK	135	138		23.07				
100	QPSK	270	0		23.12		24.0	0.0	
100	16QAM	1	1		22.14		24.0	0.0	
100	64QAM	1	1		22.79		23.5	0.5	
100	256QAM	1	1		20.80		21.5	2.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123		23.01	23.03	23.03	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109		22.99	22.98	23.00	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81		22.96	22.94	22.96	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67		22.90	22.90	22.94	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53		22.95	23.00	22.96	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26		22.87	22.94	23.05	24.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19		23.04	22.87	23.05	24.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12		23.05	22.88	22.88	24.0	0.0



n5 Ant4 Default power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166300	167300	167800		
Frequency (MHz)				831.5	836.5	839		
20	PI/2 BPSK	1	1	23.94	24.14	24.11	25.5	0.0
20	PI/2 BPSK	1	26	23.95	24.04	23.86		
20	PI/2 BPSK	1	49	23.74	23.96	23.83		
20	PI/2 BPSK	25	0	23.47	23.64	23.50	25.0	0.5
20	PI/2 BPSK	25	13	24.07	24.10	23.94	25.5	0.0
20	PI/2 BPSK	25	26	23.50	23.61	23.42	25.0	0.5
20	PI/2 BPSK	50	0	23.54	23.67	23.64		
20	QPSK	1	1	24.03	24.22	24.20		
20	QPSK	1	26	24.03	24.06	23.92	25.5	0.0
20	QPSK	1	49	23.82	23.96	23.74		
20	QPSK	25	0	22.92	23.13	23.02		
20	QPSK	25	13	23.87	24.08	23.86	25.5	0.0
20	QPSK	25	26	22.81	23.05	22.98	24.5	1.0
20	QPSK	50	0	22.87	23.10	22.91		
20	16QAM	1	1	22.58	22.65	22.52		
20	64QAM	1	1	21.10	21.20	21.02	23.0	2.5
20	256QAM	1	1	19.73	19.75	19.58	21.0	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.95	24.11	24.13	25.5	0.0
Channel				165900	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	24.02	24.16	24.09	25.5	0.0

n7 Ant4 DS12								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	23.24	23.36	23.23	24.0	0.0
20	PI/2 BPSK	1	26	23.27	23.29	23.32		
20	PI/2 BPSK	1	49	23.35	23.29	23.28		
20	PI/2 BPSK	25	0	23.25	23.27	23.21	24.0	0.0
20	PI/2 BPSK	25	13	23.34	23.37	23.23	24.0	0.0
20	PI/2 BPSK	25	26	23.35	23.32	23.34		
20	PI/2 BPSK	50	0	23.35	23.35	23.26		
20	QPSK	1	1	23.40	23.41	23.38	24.0	0.0
20	QPSK	1	26	23.24	23.30	23.28		
20	QPSK	1	49	23.26	23.35	23.34		
20	QPSK	25	0	22.40	22.44	22.36	23.0	1.0
20	QPSK	25	13	23.21	23.32	23.25	24.0	0.0
20	QPSK	25	26	22.41	22.42	22.43		
20	QPSK	50	0	22.42	22.34	22.34		
20	16QAM	1	1	23.24	23.26	23.28	24.0	0.0
20	64QAM	1	1	22.39	22.48	22.41	23.0	1.0
20	256QAM	1	1	20.42	20.48	20.33	21.0	3.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.31	23.37	23.29	24.0	0.0
Channel				501000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.32	23.26	23.34	24.0	0.0



n38 Ant4 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)				516000	516000	522000			
				2580	2595	2610			
20	Pi/2 BPSK	1	1	22.91	23.02	22.69			
20	Pi/2 BPSK	1	26	22.91	23.03	22.78	24.0	0.0	
20	Pi/2 BPSK	1	49	22.85	22.99	22.78			
20	Pi/2 BPSK	25	0	22.84	22.95	22.78	24.0	0.0	
20	Pi/2 BPSK	25	13	22.86	23.05	22.77	24.0	0.0	
20	Pi/2 BPSK	25	26	22.83	22.99	22.77			
20	Pi/2 BPSK	50	0	22.92	23.04	22.75	24.0	0.0	
20	QPSK	1	1	22.87	23.07	22.80			
20	QPSK	1	26	22.89	23.02	22.75	24.0	0.0	
20	QPSK	1	49	22.88	22.96	22.76			
20	QPSK	25	0	22.85	22.86	22.75	24.0	0.0	
20	QPSK	25	13	22.85	22.97	22.71	24.0	0.0	
20	QPSK	25	26	22.91	22.83	22.77			
20	QPSK	50	0	22.88	22.95	22.73	24.0	0.0	
20	16QAM	1	1	22.92	22.95	22.80	24.0	0.0	
20	64QAM	1	1	21.84	22.01	21.78	23.0	1.0	
20	256QAM	1	1	19.82	19.98	19.77	21.0	3.0	
Channel									
Frequency (MHz)				515502	519000	522498			
				2577.51	2595	2612.49			
15	Pi/2 BPSK	1	1	22.88	22.96	22.73	24.0	0.0	
Channel									
Frequency (MHz)				515504	519000	522498			
				2575.02	2595	2614.98			
10	Pi/2 BPSK	1	1	22.88	22.95	22.79	24.0	0.0	

n41 PC3 Ant4 Default power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				509202	518598	526300			
				2546.01	2592.99	2640			
100	Pi/2 BPSK	1	1	23.30	23.36	23.15			
100	Pi/2 BPSK	1	137	24.18	24.30	24.20	24.5	0.0	
100	Pi/2 BPSK	1	271	23.42	23.54	23.43			
100	Pi/2 BPSK	135	0	24.05	24.14	24.00	24.5	0.0	
100	Pi/2 BPSK	135	69	24.22	24.29	24.07	24.5	0.0	
100	Pi/2 BPSK	135	138	24.17	24.22	24.03			
100	Pi/2 BPSK	270	0	24.05	24.15	24.02	24.5	0.0	
100	QPSK	1	1	23.19	23.24	23.17			
100	QPSK	1	137	24.10	24.31	24.23	24.5	0.0	
100	QPSK	1	271	23.40	23.42	23.41			
100	QPSK	135	0	24.05	24.07	23.98	24.5	0.0	
100	QPSK	135	69	24.13	24.30	24.25	24.5	0.0	
100	QPSK	135	138	24.06	24.25	24.19	24.5	0.0	
100	QPSK	270	0	23.92	24.12	24.00			
100	16QAM	1	1	23.12	23.17	23.05	24.5	0.0	
100	64QAM	1	1	22.76	22.83	22.76	23.0	1.5	
100	256QAM	1	1	20.66	20.71	20.68	21.0	3.5	
Channel									
Frequency (MHz)				508200	518598	528996			
				2541	2592.99	2644.98			
90	QPSK	1	123	24.04	24.22	24.11	24.5	0.0	
Channel									
Frequency (MHz)				507204	518598	529398			
				2536.02	2592.99	2649.99			
80	QPSK	1	109	24.15	24.01	24.03	24.5	0.0	
Channel									
Frequency (MHz)				505200	518598	531996			
				2526	2592.99	2659.98			
60	QPSK	1	81	24.11	24.15	24.07	24.5	0.0	
Channel									
Frequency (MHz)				502204	518598	532998			
				2521.02	2592.99	2664.99			
50	QPSK	1	67	24.14	24.00	24.14	24.5	0.0	
Channel									
Frequency (MHz)				503202	518598	534000			
				2516.01	2592.99	2670			
40	QPSK	1	53	24.01	24.13	24.08	24.5	0.0	
Channel									
Frequency (MHz)				501204	518598	535000			
				2506.02	2592.99	2679.99			
20	QPSK	1	26	24.12	24.02	24.04	24.5	0.0	
Channel									
Frequency (MHz)				500700	518598	536498			
				2503.3	2592.99	2682.43			
15	QPSK	1	19	24.17	24.16	24.01	24.5	0.0	
Channel									
Frequency (MHz)				500202	518598	537000			
				2501.01	2592.99	2685			
10	QPSK	1	12	24.14	24.12	24.16	24.5	0.0	

n41 PC2 Ant4 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)				509202	518598	526300			
				2546.01	2592.99	2640			
100	Pi/2 BPSK	1	1	23.06	23.31	23.33			
100	Pi/2 BPSK	1	137	23.12	23.39	23.25	24.5	0.0	
100	Pi/2 BPSK	1	271	23.15	23.31	23.23			
100	Pi/2 BPSK	135	0	23.06	23.33	23.23	24.5	0.0	
100	Pi/2 BPSK	135	69	23.05	23.37	23.28	24.5	0.0	
100	Pi/2 BPSK	135	138	23.17	23.27	23.27	24.5	0.0	
100	Pi/2 BPSK	270	0	23.07	23.28	23.31			
100	QPSK	1	1	23.08	23.33	23.35			
100	QPSK	1	137	23.12	23.40	23.28	24.5	0.0	
100	QPSK	1	271	23.05	23.33	23.33			
100	QPSK	135	0	23.17	23.32	23.24	24.5	0.0	
100	QPSK	135	69	23.11	23.35	23.26	24.5	0.0	
100	QPSK	135	138	23.14	23.28	23.30	24.5	0.0	
100	QPSK	270	0	23.06	23.36	23.32			
100	16QAM	1	1	23.09	23.35	23.30	24.5	0.0	
100	64QAM	1	1	22.05	22.29	22.22	23.5	1.0	
100	256QAM	1	1	20.09	20.36	20.20	21.5	3.0	
Channel									
Frequency (MHz)				508200	518598	528996			
				2541	2592.99	2644.98			
90	QPSK	1	123	23.01	23.25	23.15	24.5	0.0	
Channel									
Frequency (MHz)				507204	518598	529398			
				2536.02	2592.99	2649.99			
80	QPSK	1	109	23.03	23.26	23.14	24.5	0.0	
Channel									
Frequency (MHz)				505200	518598	531996			
				2526	2592.99	2659.98			
60	QPSK	1	81	22.99	23.19	23.19	24.5	0.0	
Channel									
Frequency (MHz)				502204	518598	532998			
				2521.02	2592.99	2664.99			
50	QPSK	1	67	23.04	23.25	23.22	24.5	0.0	
Channel									
Frequency (MHz)				503202	518598	534000			
				2516.01	2592.99	2670			
40	QPSK	1	53	23.08	23.17	23.22	24.5	0.0	
Channel									
Frequency (MHz)				501204	518598	535000			
				2506.02	2592.99	2679.99			
20	QPSK	1	26	23.08	23.27	23.09	24.5	0.0	
Channel									
Frequency (MHz)				500700	518598	536498			
				2503.3	2592.99	2682.43			
15	QPSK	1	19	22.98	23.18	23.21	24.5	0.0	
Channel									
Frequency (MHz)				500202	518598	537000			
				2501.01	2592.99	2685			
10	QPSK	1	12	22.99	23.22	23.22	24.5	0.0	



Par270 n77 PC3 Ant5 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				656000	666000	662000			
Frequency (MHz)				3750	3850	3950			
100	PI/2 BPSK	1	1	15.50	15.52	15.39			
100	PI/2 BPSK	1	137	15.49	15.48	15.38	17.0	0.0	
100	PI/2 BPSK	1	271	15.40	15.55	15.30			
100	PI/2 BPSK	135	0	15.49	15.47	15.42	17.0	0.0	
100	PI/2 BPSK	135	69	15.41	15.45	15.31	17.0	0.0	
100	PI/2 BPSK	135	138	15.39	15.43	15.36			
100	PI/2 BPSK	270	0	15.38	15.54	15.40	17.0	0.0	
100	QPSK	1	1	15.45	15.49	15.33			
100	QPSK	1	137	15.55	15.59	15.45	17.0	0.0	
100	QPSK	1	271	15.46	15.44	15.40			
100	QPSK	135	0	15.42	15.45	15.36	17.0	0.0	
100	QPSK	135	69	15.41	15.53	15.39	17.0	0.0	
100	QPSK	135	138	15.51	15.47	15.35	17.0	0.0	
100	QPSK	270	0	15.49	15.51	15.30			
100	16QAM	1	1	15.39	15.48	15.42	17.0	0.0	
100	64QAM	1	1	15.44	15.49	15.31	17.0	0.0	
100	256QAM	1	1	15.46	15.42	15.35	17.0	0.0	
Channel				649668	666000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	15.49	15.53	15.29	17.0	0.0	
Channel				648334	666000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	15.48	15.50	15.36	17.0	0.0	
Channel				648668	666000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	15.43	15.49	15.35	17.0	0.0	
Channel				648334	666000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	15.50	15.54	15.31	17.0	0.0	
Channel				648000	666000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	15.52	15.51	15.34	17.0	0.0	
Channel				647334	666000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	15.41	15.44	15.29	17.0	0.0	
Channel				647168	666000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	15.52	15.44	15.31	17.0	0.0	
Channel				647000	666000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	15.41	15.48	15.29	17.0	0.0	

Part27Q n77 PC3 Ant5 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334	633501			
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1			15.46			
100	PI/2 BPSK	1	137			15.37	17.0	0.0	
100	PI/2 BPSK	1	271			15.38			
100	PI/2 BPSK	135	0			15.44			
100	PI/2 BPSK	135	69			15.39	17.0	0.0	
100	PI/2 BPSK	135	138			15.44			
100	PI/2 BPSK	270	0			15.39	17.0	0.0	
100	QPSK	1	1			15.32			
100	QPSK	1	137			15.48	17.0	0.0	
100	QPSK	1	271			15.43			
100	QPSK	135	0			15.36			
100	QPSK	135	69			15.40	17.0	0.0	
100	QPSK	135	138			15.37			
100	QPSK	270	0			15.36	17.0	0.0	
100	16QAM	1	1			15.45	17.0	0.0	
100	64QAM	1	1			15.45	17.0	0.0	
100	256QAM	1	1			15.44	17.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123	15.39	15.26	15.34	17.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109	15.35	15.29	15.40	17.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	15.27	15.24	15.44	17.0	0.0	
Channel				631668	633334	635500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67	15.39	15.29	15.44	17.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	15.29	15.29	15.34	17.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	15.37	15.24	15.43	17.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.15	3500.01	3542.52			
15	QPSK	1	19	15.32	15.37	15.41	17.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12	15.32	15.37	15.34	17.0	0.0	



Part270 n78 PC3 Ant5 DSI2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				650000			
Frequency (MHz)				3750			
100	PI/2 BPSK	1	1	15.44			
100	PI/2 BPSK	1	137	15.46		17.0	0.0
100	PI/2 BPSK	1	271	15.44			
100	PI/2 BPSK	135	0	15.42		17.0	0.0
100	PI/2 BPSK	135	69	15.44		17.0	0.0
100	PI/2 BPSK	135	138	15.44			
100	PI/2 BPSK	270	0	15.43		17.0	0.0
100	QPSK	1	1	15.40			
100	QPSK	1	137	15.53		17.0	0.0
100	QPSK	1	271	15.50			
100	QPSK	135	0	15.42		17.0	0.0
100	QPSK	135	69	15.45		17.0	0.0
100	QPSK	135	138	15.38		17.0	0.0
100	QPSK	270	0	15.40		17.0	0.0
100	16QAM	0	1	15.49		17.0	0.0
100	64QAM	1	1	15.39		17.0	0.0
100	256QAM	1	1	15.42		17.0	0.0
Channel				649688	650000	650334	Tune-up limit MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm) (dB)
90	QPSK	1	123	15.52	15.49	15.47	17.0 0.0
Channel				649334	650000	650666	Tune-up limit MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm) (dB)
80	QPSK	1	109	15.39	15.49	15.48	17.0 0.0
Channel				648668	650000	651334	Tune-up limit MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm) (dB)
60	QPSK	1	81	15.41	15.48	15.41	17.0 0.0
Channel				648334	650000	651666	Tune-up limit MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm) (dB)
50	QPSK	1	67	15.48	15.50	15.47	17.0 0.0
Channel				648000	650000	652000	Tune-up limit MPR
Frequency (MHz)				3720	3750	3780	(dBm) (dB)
40	QPSK	1	53	15.48	15.43	15.49	17.0 0.0
Channel				647334	650000	652666	Tune-up limit MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm) (dB)
20	QPSK	1	26	15.50	15.49	15.47	17.0 0.0
Channel				647168	650000	652834	Tune-up limit MPR
Frequency (MHz)				3707.52	3750	3792.51	(dBm) (dB)
15	QPSK	1	19	15.43	15.45	15.42	17.0 0.0
Channel				647000	650000	653000	Tune-up limit MPR
Frequency (MHz)				3705	3750	3795	(dBm) (dB)
10	QPSK	1	12	15.48	15.44	15.41	17.0 0.0

Part27Q 78 PC3 Ant5 DSI2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				633334			
Frequency (MHz)				630001			
100	PI/2 BPSK	1	1	15.35			
100	PI/2 BPSK	1	137	15.30		17.0	0.0
100	PI/2 BPSK	1	271	15.30			
100	PI/2 BPSK	135	0	15.29		17.0	0.0
100	PI/2 BPSK	135	69	15.32		17.0	0.0
100	PI/2 BPSK	135	138	15.29			
100	PI/2 BPSK	270	0	15.29		17.0	0.0
100	QPSK	1	1	15.33			
100	QPSK	1	137	15.38		17.0	0.0
100	QPSK	1	271	15.32			
100	QPSK	135	0	15.36		17.0	0.0
100	QPSK	135	69	15.35		17.0	0.0
100	QPSK	135	138	15.29		17.0	0.0
100	QPSK	270	0	15.30		17.0	0.0
100	16QAM	1	1	15.36		17.0	0.0
100	64QAM	1	1	15.31		17.0	0.0
100	256QAM	1	1	15.28		17.0	0.0
Channel				633000	633334	633668	Tune-up limit MPR
Frequency (MHz)				3495	3500.01	3505.02	(dBm) (dB)
90	QPSK	1	123	15.09	15.16	15.24	17.0 0.0
Channel				632668	633334	634000	Tune-up limit MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm) (dB)
80	QPSK	1	109	15.22	15.22	15.31	17.0 0.0
Channel				632000	633334	634668	Tune-up limit MPR
Frequency (MHz)				3480	3500.01	3520.02	(dBm) (dB)
60	QPSK	1	81	15.15	15.19	15.19	17.0 0.0
Channel				631668	633334	635000	Tune-up limit MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm) (dB)
50	QPSK	1	67	15.12	15.27	15.28	17.0 0.0
Channel				631334	633334	635334	Tune-up limit MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm) (dB)
40	QPSK	1	53	15.19	15.27	15.21	17.0 0.0
Channel				630968	633334	636000	Tune-up limit MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm) (dB)
20	QPSK	1	26	15.19	15.23	15.20	17.0 0.0
Channel				630500	633334	636168	Tune-up limit MPR
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm) (dB)
15	QPSK	1	19	15.12	15.24	15.31	17.0 0.0
Channel				630334	633334	636334	Tune-up limit MPR
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm) (dB)
10	QPSK	1	12	15.21	15.23	15.29	17.0 0.0



Par270 n77 PC3 Ant6 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				656000	666000	662000			
Frequency (MHz)				3750	3650	3950			
100	PI/2 BPSK	1	1	17.43	17.53	17.47			
100	PI/2 BPSK	1	137	17.54	17.56	17.56	18.0	0.0	
100	PI/2 BPSK	1	271	17.45	17.56	17.53			
100	PI/2 BPSK	135	0	17.47	17.54	17.56	18.0	0.0	
100	PI/2 BPSK	135	69	17.43	17.52	17.51	18.0	0.0	
100	PI/2 BPSK	135	138	17.45	17.53	17.56			
100	PI/2 BPSK	270	0	17.49	17.54	17.50	18.0	0.0	
100	QPSK	1	1	17.45	17.47	17.49			
100	QPSK	1	137	17.49	17.57	17.49	18.0	0.0	
100	QPSK	1	271	17.46	17.46	17.44			
100	QPSK	135	0	17.52	17.52	17.50	18.0	0.0	
100	QPSK	135	69	17.44	17.54	17.46	18.0	0.0	
100	QPSK	135	138	17.46	17.48	17.48	18.0	0.0	
100	QPSK	270	0	17.51	17.56	17.44			
100	16QAM	1	1	17.46	17.52	17.56	18.0	0.0	
100	64QAM	1	1	17.49	17.52	17.56	18.0	0.0	
100	256QAM	1	1	17.50	17.56	17.44	18.0	0.0	
Channel				649668	666000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	17.46	17.50	17.50	18.0	0.0	
Channel				646334	666000	662968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	17.53	17.59	17.48	18.0	0.0	
Channel				648668	666000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	17.50	17.56	17.44	18.0	0.0	
Channel				646334	666000	663968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	17.50	17.57	17.49	18.0	0.0	
Channel				648000	666000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	17.41	17.54	17.53	18.0	0.0	
Channel				647334	666000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	17.55	17.52	17.55	18.0	0.0	
Channel				647168	666000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	17.48	17.53	17.46	18.0	0.0	
Channel				647000	666000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	17.55	17.48	17.44	18.0	0.0	

Part27Q n77 PC3 Ant6 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	633501			
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1			16.47			
100	PI/2 BPSK	1	137			16.46	18.0	0.0	
100	PI/2 BPSK	1	271			16.42			
100	PI/2 BPSK	135	0			16.37	18.0	0.0	
100	PI/2 BPSK	135	69			16.40			
100	PI/2 BPSK	135	138			16.41			
100	PI/2 BPSK	270	0			16.40	18.0	0.0	
100	QPSK	1	1			16.44			
100	QPSK	1	137			16.48	18.0	0.0	
100	QPSK	1	271			16.40			
100	QPSK	135	0			16.37	18.0	0.0	
100	QPSK	135	69			16.40			
100	QPSK	135	138			16.30	18.0	0.0	
100	QPSK	270	0			16.42			
100	16QAM	1	1			16.39	18.0	0.0	
100	64QAM	1	1			16.44	18.0	0.0	
100	256QAM	1	1			16.37	18.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123	16.38	16.46	16.39	18.0	0.0	
Channel				632968	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109	16.33	16.37	16.29	18.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	16.33	16.36	16.26	18.0	0.0	
Channel				631668	633334	635500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67	16.34	16.39	16.36	18.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	16.29	16.40	16.25	18.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	16.25	16.40	16.25	18.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19	16.23	16.40	16.25	18.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12	16.30	16.36	16.29	18.0	0.0	



Part270 n78 PC3 Ant6 DSI2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				650000			
Frequency (MHz)				3750			
100	PI/2 BPSK	1	1	17.52		16.40	
100	PI/2 BPSK	1	137	17.48		16.31	18.0
100	PI/2 BPSK	1	271	17.42		16.35	0.0
100	PI/2 BPSK	135	0	17.46		16.41	18.0
100	PI/2 BPSK	135	69	17.46		16.30	0.0
100	PI/2 BPSK	135	138	17.43		16.38	18.0
100	PI/2 BPSK	270	0	17.50		16.28	0.0
100	QPSK	1	1	17.41		16.36	18.0
100	QPSK	1	137	17.55		16.42	0.0
100	QPSK	1	271	17.48		16.36	18.0
100	QPSK	135	0	17.38		16.37	0.0
100	QPSK	135	69	17.45		16.41	18.0
100	QPSK	135	138	17.44		16.39	0.0
100	QPSK	270	0	17.42		16.30	18.0
100	16QAM	0	1	17.44		16.38	18.0
100	64QAM	1	1	17.50		16.40	0.0
100	256QAM	1	1	17.48		16.38	18.0
Channel				649688	650000	650334	Tune-up limit MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm) (dB)
90	QPSK	1	123	17.50	17.46	17.46	18.0
Channel				649334	650000	650666	Tune-up limit MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm) (dB)
80	QPSK	1	109	17.37	17.29	17.37	18.0
Channel				648668	650000	651334	Tune-up limit MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm) (dB)
60	QPSK	1	81	17.38	17.33	17.30	18.0
Channel				648334	650000	651666	Tune-up limit MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm) (dB)
50	QPSK	1	67	17.45	17.30	17.37	18.0
Channel				648000	650000	652000	Tune-up limit MPR
Frequency (MHz)				3720	3750	3780	(dBm) (dB)
40	QPSK	1	53	17.39	17.42	17.35	18.0
Channel				647334	650000	652666	Tune-up limit MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm) (dB)
20	QPSK	1	26	17.43	17.42	17.34	18.0
Channel				647168	650000	652834	Tune-up limit MPR
Frequency (MHz)				3707.52	3750	3792.61	(dBm) (dB)
15	QPSK	1	19	17.45	17.37	17.41	18.0
Channel				647000	650000	653000	Tune-up limit MPR
Frequency (MHz)				3705	3750	3795	(dBm) (dB)
10	QPSK	1	12	17.41	17.40	17.29	18.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				633334			
Frequency (MHz)				3500.01			
100	PI/2 BPSK	1	1	16.32		16.40	
100	PI/2 BPSK	1	137	16.31		16.31	18.0
100	PI/2 BPSK	1	271	16.35		16.35	0.0
100	PI/2 BPSK	135	0	16.41		16.41	18.0
100	PI/2 BPSK	135	69	16.30		16.30	0.0
100	PI/2 BPSK	135	138	16.38		16.38	18.0
100	PI/2 BPSK	270	0	16.28		16.28	0.0
100	QPSK	1	1	16.36		16.36	18.0
100	QPSK	1	137	16.42		16.42	0.0
100	QPSK	1	271	16.36		16.36	18.0
100	QPSK	135	0	16.37		16.37	0.0
100	QPSK	135	69	16.41		16.41	18.0
100	QPSK	135	138	16.39		16.39	0.0
100	QPSK	270	0	16.30		16.30	18.0
100	16QAM	1	1	16.38		16.38	18.0
100	64QAM	1	1	16.40		16.40	0.0
100	256QAM	1	1	16.38		16.38	18.0
Channel				633000	633334	633666	Tune-up limit MPR
Frequency (MHz)				3495	3500.01	3505.02	(dBm) (dB)
90	QPSK	1	123	16.32	16.33	16.39	18.0
Channel				632668	633334	634000	Tune-up limit MPR
Frequency (MHz)				3490.02	3500.01	3510.01	(dBm) (dB)
80	QPSK	1	109	16.23	16.17	16.31	18.0
Channel				632000	633334	634666	Tune-up limit MPR
Frequency (MHz)				3480	3500.01	3520.02	(dBm) (dB)
60	QPSK	1	81	16.20	16.24	16.24	18.0
Channel				631668	633334	635000	Tune-up limit MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm) (dB)
50	QPSK	1	67	16.25	16.23	16.27	18.0
Channel				631334	633334	635334	Tune-up limit MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm) (dB)
40	QPSK	1	53	16.24	16.29	16.31	18.0
Channel				630668	633334	636000	Tune-up limit MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm) (dB)
20	QPSK	1	26	16.17	16.21	16.22	18.0
Channel				630500	633334	636168	Tune-up limit MPR
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm) (dB)
15	QPSK	1	19	16.24	16.24	16.34	18.0
Channel				630334	633334	636334	Tune-up limit MPR
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm) (dB)
10	QPSK	1	12	16.27	16.20	16.23	18.0



Reduced power level for 5G NR DS12 ENDC

Part270 n77 PC2&3 Ant3 DS12									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	19.35	19.50	19.44			
100	PI/2 BPSK	1	137	20.29	20.39	20.26	21.0	0.0	
100	PI/2 BPSK	1	271	19.49	19.58	19.46			
100	PI/2 BPSK	135	0	20.20	20.24	20.04	21.0	0.0	
100	PI/2 BPSK	135	69	20.30	20.41	20.29	21.0	0.0	
100	PI/2 BPSK	135	138	20.23	20.31	20.29			
100	PI/2 BPSK	270	0	20.19	20.25	20.10	21.0	0.0	
100	QPSK	1	1	19.53	19.53	19.53			
100	QPSK	1	137	20.39	20.44	20.38	21.0	0.0	
100	QPSK	1	271	19.60	19.61	19.61			
100	QPSK	135	0	20.18	20.28	20.22	21.0	0.0	
100	QPSK	135	69	20.41	20.42	20.36	21.0	0.0	
100	QPSK	135	138	20.20	20.31	20.27			
100	QPSK	270	0	20.10	20.20	20.19	21.0	0.0	
100	16QAM	1	1	19.76	19.89	19.81	21.0	0.0	
100	64QAM	1	1	19.75	19.76	19.77	21.0	0.0	
100	256QAM	1	1	19.81	20.01	19.88	21.0	0.0	
Channel				649368	656000	662334	Tune-up limit (dB)	MPR	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	20.05	20.09	19.93	21.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	19.97	20.13	20.00	21.0	0.0	
Channel				649368	656000	663334	Tune-up limit (dB)	MPR	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	19.94	20.10	19.98	21.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	19.94	20.03	20.05	21.0	0.0	
Channel				649000	656000	664000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	19.86	19.89	20.02	21.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	19.91	20.09	19.99	21.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dB)	MPR	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	20.05	20.06	19.98	21.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	19.98	19.94	20.02	21.0	0.0	

Part27Q n77 PC2&3 Ant3 DS12									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				630000	633334	636668			
Frequency (MHz)				3495	3500.01	3505.02			
100	PI/2 BPSK	1	1	20.32	20.40	20.31	21.0	0.0	
100	PI/2 BPSK	1	137	20.45	20.45	20.35	21.0	0.0	
100	PI/2 BPSK	1	271	19.49					
100	PI/2 BPSK	135	0	20.33			21.0	0.0	
100	PI/2 BPSK	135	69	20.33			21.0	0.0	
100	PI/2 BPSK	135	138	20.41					
100	PI/2 BPSK	270	0	20.24			21.0	0.0	
100	QPSK	1	1	19.53					
100	QPSK	1	137	20.51			21.0	0.0	
100	QPSK	1	271	19.66					
100	QPSK	135	0	20.32			21.0	0.0	
100	QPSK	135	69	20.36			21.0	0.0	
100	QPSK	135	138	20.19					
100	QPSK	270	0	20.35			21.0	0.0	
100	16QAM	1	1	19.77			21.0	0.0	
100	64QAM	1	1	19.88			21.0	0.0	
100	256QAM	1	1	20.11			21.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123	20.33	20.39	20.18	21.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109	20.45	20.40	20.31	21.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	20.37	20.39	20.34	21.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67	20.45	20.45	20.35	21.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dB)	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	20.49	20.37	20.14	21.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	20.33	20.43	20.20	21.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dB)	MPR	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19	20.48	20.33	20.15	21.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dB)	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12	20.42	20.47	20.24	21.0	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI/2 BPSK	1	1		3750			
100	PI/2 BPSK	1	137		19.51		21.0	0.0
100	PI/2 BPSK	1	271		20.34			
100	PI/2 BPSK	1	271		19.54			
100	PI/2 BPSK	135	0		20.15		21.0	0.0
100	PI/2 BPSK	135	69		20.32		21.0	0.0
100	PI/2 BPSK	135	138		20.28		21.0	0.0
100	PI/2 BPSK	270	0		20.18			
100	PI/2 BPSK	270	0		19.44			
100	QPSK	1	1		20.44		21.0	0.0
100	QPSK	1	137		20.26			
100	QPSK	1	271		19.54			
100	QPSK	135	0		20.26		21.0	0.0
100	QPSK	135	69		20.31		21.0	0.0
100	QPSK	135	138		20.22			
100	QPSK	270	0		20.23		21.0	0.0
100	16QAM	1	1		19.72		21.0	0.0
100	64QAM	1	1		19.89		21.0	0.0
100	256QAM	1	1		19.91		21.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	123	649668	650000	650334	Tune-up limit (dB)	MPR
				3745.02	3750	3755.01		
Channel								
Frequency (MHz)								
80	QPSK	1	109	649334	650000	650668	Tune-up limit (dB)	MPR
				3740.01	3750	3760.02		
Channel								
Frequency (MHz)								
60	QPSK	1	81	648999	650000	651334	Tune-up limit (dB)	MPR
				3730.02	3750	3770.01		
Channel								
Frequency (MHz)								
50	QPSK	1	67	648664	650000	651668	Tune-up limit (dB)	MPR
				3720.01	3750	3780.02		
Channel								
Frequency (MHz)								
40	QPSK	1	53	648329	650000	652000	Tune-up limit (dB)	MPR
				3710.01	3750	3790.02		
Channel								
Frequency (MHz)								
20	QPSK	1	26	647994	650000	652334	Tune-up limit (dB)	MPR
				3700.01	3750	3800.02		
Channel								
Frequency (MHz)								
15	QPSK	1	19	647659	650000	652668	Tune-up limit (dB)	MPR
				3690.01	3750	3810.02		
Channel								
Frequency (MHz)								
10	QPSK	1	12	647324	650000	653000	Tune-up limit (dB)	MPR
				3680.01	3750	3820.02		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI/2 BPSK	1	1		3500.01			
100	PI/2 BPSK	1	137		19.42			
100	PI/2 BPSK	1	271		20.14		21.0	0.0
100	PI/2 BPSK	1	271		19.53			
100	PI/2 BPSK	135	0		20.11			
100	PI/2 BPSK	135	69		20.28		21.0	0.0
100	PI/2 BPSK	135	138		20.18			
100	PI/2 BPSK	270	0		19.97		21.0	0.0
100	QPSK	1	1		19.44			
100	QPSK	1	137		20.33		21.0	0.0
100	QPSK	1	271		19.53			
100	QPSK	135	0		20.05			
100	QPSK	135	69		20.25		21.0	0.0
100	QPSK	135	138		20.13			
100	QPSK	270	0		20.24		21.0	0.0
100	16QAM	1	1		19.56		21.0	0.0
100	64QAM	1	1		19.47		21.0	0.0
100	256QAM	1	1		19.74		21.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	123	633000	633334	633668	Tune-up limit (dB)	MPR
				3495	3500.01	3505.02		
Channel								
Frequency (MHz)								
80	QPSK	1	109	632668	633334	634000	Tune-up limit (dB)	MPR
				3490.02	3500.01	3510		
Channel								
Frequency (MHz)								
60	QPSK	1	81	632334	633000	633668	Tune-up limit (dB)	MPR
				3485	3500.01	3520.02		
Channel								
Frequency (MHz)								
50	QPSK	1	67	631999	632668	633334	Tune-up limit (dB)	MPR
				3480	3500.01	3530.01		
Channel								
Frequency (MHz)								
40	QPSK	1	53	631664	632334	633000	Tune-up limit (dB)	MPR
				3475.02	3500.01	3525		
Channel								
Frequency (MHz)								
20	QPSK	1	26	631329	632000	632668	Tune-up limit (dB)	MPR
				3470.01	3500.01	3530.01		
Channel								
Frequency (MHz)								
15	QPSK	1	19	630994	631668	632334	Tune-up limit (dB)	MPR
				3465.5	3500.01	3542.52		
Channel								
Frequency (MHz)								
10	QPSK	1	12	630659	631334	632000	Tune-up limit (dB)	MPR
				3460.01	3500.01	3545.01		



Reduced power level for 5G NR DSI3

n5 Ant1 DSI3									
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			
Frequency (MHz)				831	836.5	841.5			
20	PI/2 BPSK	1	1	22.95	23.16	23.09	24.5	0.0	
20	PI/2 BPSK	1	26	22.96	23.09	23.05			
20	PI/2 BPSK	1	49	23.00	23.12	23.17			
20	PI/2 BPSK	25	0	23.01	23.05	23.16	24.5	0.0	
20	PI/2 BPSK	25	13	22.84	23.20	23.19	24.5	0.0	
20	PI/2 BPSK	25	26	23.00	23.15	23.11	24.5	0.0	
20	PI/2 BPSK	50	0	22.90	23.06	23.09			
20	QPSK	1	1	22.80	23.22	23.08			
20	QPSK	1	26	22.90	23.12	23.10	24.5	0.0	
20	QPSK	1	49	22.81	23.16	23.09			
20	QPSK	25	0	22.94	23.10	23.05	24.5	0.0	
20	QPSK	25	13	22.95	23.21	23.13	24.5	0.0	
20	QPSK	25	26	22.96	23.06	23.10	24.5	0.0	
20	QPSK	50	0	22.89	23.19	23.02			
20	16QAM	1	1	22.80	23.09	23.00	24.5	0.0	
20	64QAM	1	1	21.30	21.78	21.68	23.0	1.5	
20	256QAM	1	1	19.74	20.26	19.98	21.0	3.5	
Channel				168300	167300	168300			
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.80	23.16	22.92	24.5	0.0	
Channel				165800	167300	168800			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.62	23.19	23.01	24.5	0.0	

n7 Ant1 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				502000	507000	512000			
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	18.15	18.50	18.27			
20	PI/2 BPSK	1	26	18.18	18.38	18.22	19.5	0.0	
20	PI/2 BPSK	1	49	18.20	18.36	18.32			
20	PI/2 BPSK	25	0	18.21	18.53	18.34	19.5	0.0	
20	PI/2 BPSK	25	13	18.24	18.35	18.33	19.5	0.0	
20	PI/2 BPSK	25	26	18.39	18.51	18.29	19.5	0.0	
20	PI/2 BPSK	50	0	18.28	18.54	18.29			
20	QPSK	1	1	18.39	18.55	18.23			
20	QPSK	1	26	18.38	18.44	18.41	19.5	0.0	
20	QPSK	1	49	18.16	18.33	18.34			
20	QPSK	25	0	18.28	18.33	18.28	19.5	0.0	
20	QPSK	25	13	18.33	18.51	18.25	19.5	0.0	
20	QPSK	25	26	18.31	18.43	18.24	19.5	0.0	
20	QPSK	50	0	18.38	18.48	18.25			
20	16QAM	1	1	18.35	18.46	18.43	19.5	0.0	
20	64QAM	1	1	18.22	18.36	18.37	19.5	0.0	
20	256QAM	1	1	18.18	18.35	18.43	19.5	0.0	
Channel				501500	507000	512500			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	18.37	18.48	18.31	19.5	0.0	
Channel				501000	507000	513000			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	18.24	18.44	18.41	19.5	0.0	



n38 Ant1 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				516500	518000	522000			
Frequency (MHz)				2550	2595	2610			
20	PI/2 BPSK	1	1	17.91	18.15	17.95			
20	PI/2 BPSK	1	26	17.88	18.06	18.13	19.5	0.0	
20	PI/2 BPSK	1	49	17.89	18.04	17.98			
20	PI/2 BPSK	25	0	17.82	18.01	18.12	19.5	0.0	
20	PI/2 BPSK	25	13	17.97	18.20	17.94	19.5	0.0	
20	PI/2 BPSK	25	26	18.04	18.18	18.00			
20	PI/2 BPSK	50	0	18.00	18.11	18.13	19.5	0.0	
20	QPSK	1	1	17.98	18.22	17.95			
20	QPSK	1	26	17.87	18.18	18.15	19.5	0.0	
20	QPSK	1	49	17.91	18.12	17.94			
20	QPSK	25	0	17.93	18.08	18.08	19.5	0.0	
20	QPSK	25	13	17.84	18.16	18.17	19.5	0.0	
20	QPSK	25	26	17.82	18.20	18.02			
20	QPSK	50	0	17.88	18.16	17.98	19.5	0.0	
20	16QAM	1	1	17.87	18.18	18.15	19.5	0.0	
20	64QAM	1	1	18.00	18.12	17.98	19.5	0.0	
20	256QAM	1	1	17.92	18.05	18.04	19.5	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	PI/2 BPSK	1	1	17.95	18.19	18.01	19.5	0.0	
Channel				515004	518000	522396			
Frequency (MHz)				2575.02	2595	2614.98			
10	PI/2 BPSK	1	1	17.97	18.07	18.13	19.5	0.0	

n41 PC2&3 Ant1 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				506202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	18.77	18.92	18.67			
100	PI/2 BPSK	1	137	18.67	18.79	18.66	19.5	0.0	
100	PI/2 BPSK	1	271	18.74	18.90	18.55			
100	PI/2 BPSK	135	0	18.75	18.84	18.62	19.5	0.0	
100	PI/2 BPSK	135	69	18.69	18.73	18.58	19.5	0.0	
100	PI/2 BPSK	135	138	18.70	18.89	18.58			
100	PI/2 BPSK	270	0	18.78	18.94	18.67	19.5	0.0	
100	QPSK	1	1	18.59	18.85	18.65			
100	QPSK	1	137	18.74	18.85	18.53	19.5	0.0	
100	QPSK	1	271	18.79	18.87	18.57			
100	QPSK	135	0	18.61	18.81	18.57	19.5	0.0	
100	QPSK	135	69	18.77	18.84	18.58	19.5	0.0	
100	QPSK	135	138	18.78	18.75	18.67			
100	QPSK	270	0	18.75	18.80	18.67	19.5	0.0	
100	16QAM	1	1	18.77	18.82	18.65	19.5	0.0	
100	64QAM	1	1	18.72	18.76	18.70	19.5	0.0	
100	256QAM	1	1	18.65	18.92	18.72	19.5	0.0	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	123	18.62	18.67	18.73	19.5	0.0	
Channel				507204	518598	528996			
Frequency (MHz)				2538.02	2592.99	2646.99			
80	QPSK	1	109	18.71	18.93	18.74	19.5	0.0	
Channel				506200	518598	531996			
Frequency (MHz)				2526	2592.99	2659.98			
80	QPSK	1	81	18.57	18.50	18.61	19.5	0.0	
Channel				504204	518598	532996			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	67	18.65	18.82	18.72	19.5	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	53	18.70	18.73	18.65	19.5	0.0	
Channel				501204	518598	535996			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	26	18.78	18.86	18.67	19.5	0.0	
Channel				500700	518598	536498			
Frequency (MHz)				2503.05	2592.99	2682.98			
15	QPSK	1	19	18.75	18.85	18.65	19.5	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	12	18.76	18.75	18.53	19.5	0.0	



n7 Ant2 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				50200	50700	51200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	23.07	23.15	23.08	25.0	0.0
20	PI/2 BPSK	1	26	23.10	23.13	23.19		
20	PI/2 BPSK	1	49	23.02	23.04	23.01		
20	PI/2 BPSK	25	0	22.97	22.67	22.58		
20	PI/2 BPSK	25	13	23.12	23.16	23.04		
20	PI/2 BPSK	25	26	22.56	22.67	22.65		
20	PI/2 BPSK	50	0	22.61	22.72	22.57	24.5	0.5
20	QPSK	1	1	23.05	23.24	23.11	25.0	0.0
20	QPSK	1	26	23.16	23.20	23.01		
20	QPSK	1	49	23.18	23.02	23.14		
20	QPSK	25	0	22.07	22.19	22.10	24.0	1.0
20	QPSK	25	13	23.09	23.19	23.08	25.0	0.0
20	QPSK	25	26	22.32	22.34	22.28	24.0	1.0
20	QPSK	50	0	22.34	22.35	22.30		
20	16QAM	1	1	22.14	22.25	22.17	24.0	1.0
20	64QAM	1	1	20.62	20.54	20.56	22.5	2.5
20	256QAM	1	1	18.73	18.77	18.67	20.5	4.5
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.14	23.16	23.03	25.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.13	23.15	23.02	25.0	0.0



n38 Ant2 Default power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516500	518000	522000			
Frequency (MHz)				2550	2595	2610	Tune-up limit (dBm)	MPR (dB)	
20	PI/2 BPSK	1	1	23.01	23.04	23.12			
20	PI/2 BPSK	1	26	23.03	23.20	23.07	25.0	0.0	
20	PI/2 BPSK	1	49	23.18	23.04	23.05			
20	PI/2 BPSK	25	0	22.68	22.58	22.67	24.5	0.5	
20	PI/2 BPSK	25	13	23.08	23.10	23.02	25.0	0.0	
20	PI/2 BPSK	25	26	22.54	22.57	22.59			
20	PI/2 BPSK	50	0	22.80	22.64	22.57	24.5	0.5	
20	QPSK	1	1	23.05	23.22	23.15			
20	QPSK	1	26	23.10	23.12	23.17	25.0	0.0	
20	QPSK	1	49	23.06	23.09	23.07			
20	QPSK	25	0	22.04	22.15	22.03	24.0	1.0	
20	QPSK	25	13	23.07	23.11	23.02	25.0	0.0	
20	QPSK	25	26	22.20	22.20	22.14			
20	QPSK	50	0	22.22	22.24	22.20	24.0	1.0	
20	16QAM	1	1	22.22	22.41	22.41	24.0	1.0	
20	64QAM	1	1	20.72	20.87	20.76	22.5	2.5	
20	256QAM	1	1	18.75	18.79	18.66	20.5	4.5	
Channel				515502	518000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	PI/2 BPSK	1	1	23.08	23.12	23.04	25.0	0.0	
Channel				515504	518000	522396	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	PI/2 BPSK	1	1	23.04	23.14	23.06	25.0	0.0	

n41 PC3 Ant2 Default power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506200	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640	Tune-up limit (dBm)	MPR (dB)	
100	PI/2 BPSK	1	1	23.03	23.08	23.12			
100	PI/2 BPSK	1	137	23.03	23.20	23.13	25.0	0.0	
100	PI/2 BPSK	1	271	23.02	23.03	23.13			
100	PI/2 BPSK	135	0	23.08	23.13	23.09	25.0	0.0	
100	PI/2 BPSK	135	69	23.20	23.22	23.12	25.0	0.0	
100	PI/2 BPSK	135	138	23.10	23.14	23.06			
100	PI/2 BPSK	270	0	23.08	23.07	23.01	25.0	0.0	
100	QPSK	1	1	23.11	23.03	23.14			
100	QPSK	1	137	23.13	23.26	23.10	25.0	0.0	
100	QPSK	1	271	23.07	23.20	23.11			
100	QPSK	135	0	23.16	23.19	23.16	25.0	0.0	
100	QPSK	135	69	23.22	23.24	23.18	25.0	0.0	
100	QPSK	135	138	23.04	23.17	23.11	25.0	0.0	
100	QPSK	270	0	23.03	23.09	23.05			
100	16QAM	1	1	23.09	23.11	23.04	25.0	0.0	
100	64QAM	1	1	21.71	21.76	21.79	23.5	1.5	
100	256QAM	1	1	19.64	19.64	19.67	21.5	3.5	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	123	23.07	23.10	23.05	25.0	0.0	
Channel				507204	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2649.99			
80	QPSK	1	109	23.17	23.06	23.09	25.0	0.0	
Channel				506200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
80	QPSK	1	81	23.05	23.10	23.08	25.0	0.0	
Channel				504204	518598	532992	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	67	23.16	23.07	23.08	25.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510.01	2592.99	2670			
40	QPSK	1	53	23.05	23.10	23.06	25.0	0.0	
Channel				501204	518598	533996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	26	23.02	23.08	23.11	25.0	0.0	
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.15	2592.99	2682.49			
15	QPSK	1	19	23.05	23.08	23.16	25.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	12	23.02	23.07	23.11	25.0	0.0	



Par270 n77 PC3 Ant2 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
650000								
3750								
3840								
3930								
3500.01								
100	Pi/2 BPSK	1	1	22.59	22.67	22.60		
100	Pi/2 BPSK	1	137	23.55	23.62	23.57	24.0	0.0
100	Pi/2 BPSK	1	271	22.56	22.61	22.59		
100	Pi/2 BPSK	135	0	23.34	23.49	23.44	24.0	0.0
100	Pi/2 BPSK	135	69	23.54	23.37	23.59	24.0	0.0
100	Pi/2 BPSK	135	138	23.34	23.53	23.44	24.0	0.0
100	Pi/2 BPSK	270	0	23.50	23.55	23.39		
100	QPSK	1	1	22.67	22.62	22.58		
100	QPSK	1	137	23.66	23.72	23.62	24.0	0.0
100	QPSK	1	271	22.54	22.60	22.59		
100	QPSK	135	0	23.38	23.53	23.37	24.0	0.0
100	QPSK	135	69	23.38	23.57	23.41	24.0	0.0
100	QPSK	135	138	23.46	23.48	23.28	24.0	0.0
100	QPSK	270	0	23.37	23.47	23.29		
100	16QAM	1	1	22.51	22.62	22.51	24.0	0.0
100	64QAM	1	1	23.12	23.15	23.14	23.5	0.5
100	256QAM	1	1	21.25	21.22	21.06	21.5	2.5
Channel								
649688								
656000								
662334								
3745.02								
3840								
3935.01								
90	QPSK	1	123	23.49	23.56	23.52	24.0	0.0
Channel								
643334								
650000								
656266								
3740.01								
3840								
3940.02								
80	QPSK	1	109	23.49	23.54	23.53	24.0	0.0
Channel								
648668								
656000								
663334								
3730.02								
3840								
3950.01								
60	QPSK	1	81	23.50	23.54	23.51	24.0	0.0
Channel								
643334								
650000								
656266								
3725.01								
3840								
3955.02								
50	QPSK	1	67	23.52	23.55	23.53	24.0	0.0
Channel								
648000								
656000								
664000								
3720								
3840								
3960								
40	QPSK	1	53	23.49	23.53	23.50	24.0	0.0
Channel								
647334								
656000								
664668								
3710.01								
3840								
3970.02								
20	QPSK	1	26	23.51	23.54	23.51	24.0	0.0
Channel								
647168								
656000								
664834								
3702.52								
3840								
3972.51								
15	QPSK	1	19	23.52	23.55	23.50	24.0	0.0
Channel								
647000								
656000								
665000								
3705								
3840								
3975								
10	QPSK	1	12	23.51	23.54	23.50	24.0	0.0

Par270 n77 PC2 Ant2 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
650000								
3750								
3840								
3930								
3500.01								
100	Pi/2 BPSK	1	1	25.10	25.18	25.14		
100	Pi/2 BPSK	1	137	25.48	25.54	25.41	27.0	0.0
100	Pi/2 BPSK	1	271	25.04	25.13	25.02		
100	Pi/2 BPSK	135	0	25.50	25.67	25.53	26.5	0.5
100	Pi/2 BPSK	135	69	25.60	25.66	25.58	27.0	0.0
100	Pi/2 BPSK	135	138	25.57	25.60	25.56	26.5	0.5
100	Pi/2 BPSK	270	0	25.48	25.84	25.53		
100	QPSK	1	1	25.12	25.05	24.89		
100	QPSK	1	137	25.61	25.71	25.67	27.0	0.0
100	QPSK	1	271	25.13	25.14	25.17		
100	QPSK	135	0	24.83	25.03	24.84	26.0	1.0
100	QPSK	135	69	25.55	25.62	25.43	27.0	0.0
100	QPSK	135	138	24.74	24.70	24.97	26.0	1.0
100	QPSK	270	0	24.82	24.88	24.79		
100	16QAM	1	1	24.76	24.77	24.78	26.0	1.0
100	64QAM	1	1	23.12	23.15	23.17	24.5	2.5
100	256QAM	1	1	21.11	21.13	21.07	22.5	4.5
Channel								
649688								
656000								
662334								
3745.02								
3840								
3935.01								
90	QPSK	1	123	25.49	25.61	25.56	27.0	0.0
Channel								
643334								
650000								
656266								
3740.01								
3840								
3940.02								
80	QPSK	1	109	25.47	25.61	25.56	27.0	0.0
Channel								
648668								
656000								
663334								
3730.02								
3840								
3950.01								
60	QPSK	1	81	25.51	25.61	25.55	27.0	0.0
Channel								
643334								
650000								
656266								
3725.01								
3840								
3955.02								
50	QPSK	1	67	25.49	25.61	25.56	27.0	0.0
Channel								
648000								
656000								
664000								
3720								
3840								
3960								
40	QPSK	1	53	25.49	25.61	25.54	27.0	0.0
Channel								
647334								
656000								
664668								
3710.01								
3840								
3970.02								
20	QPSK	1	26	25.51	25.63	25.56	27.0	0.0
Channel								
647168								
656000								
664834								
3702.52								
3840								
3972.51								
15	QPSK	1	19	25.49	25.54	25.54	27.0	0.0
Channel								
647000								
656000								
665000								
3705								
3840								
3975								
10	QPSK	1	12	25.50	25.62	25.54	27.0	0.0

Part27Q n77 PC3 Ant2 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
633000								
633334								
633668								
3495								
3500.01								
3505.02								
100	Pi/2 BPSK	1	1	22.92				
100	Pi/2 BPSK	1	137	23.64			24.0	0.0
100	Pi/2 BPSK	1	271	22.74				
100	Pi/2 BPSK	135	0	23.53			24.0	0.0
100	Pi/2 BPSK	135	69	23.96			24.0	0.0
100	Pi/2 BPSK	135	138	23.57			24.0	0.0
100	Pi/2 BPSK	270	0	23.84				
100	QPSK	1	1	22.84				
100	QPSK	1	137	23.67			24.0	0.0
100	QPSK	1	271	22.69				
100	QPSK	135	0	23.81			24.0	0.0
100	QPSK	135	69	23.62			24.0	0.0
100	QPSK	135	138	23.55			24.0	0.0
100	QPSK	270	0	23.61				
100	16QAM	1	1	22.99			24.0	0.0
100	64QAM	1	1	23.15			23.5	0.5
100	256QAM	1	1	21.27			21.5	2.5
Channel								
633000								
633334								
633668								
3495								
3500.01								
3505.02								
90	QPSK	1	123	23.48	23.44	23.38	24.0	0.0
Channel								
632958								
633334								
634000								
3490.02								
3500.01								
3510								
80	QPSK	1	109	23.48	23.47	23.39	24.0	0.0
Channel								
632000								
633334								
634668								
3490								
3500.01								
3520.02								
60	QPSK	1	81	23.46	23.45	23.39	24.0	0.0
Channel								
631658								
633334								
633900								
3475.02								
3500.01								
3525								
50	QPSK	1	67	23.49	23.45	23.37	24.0	0.0
Channel								
631334								
633334								
635334								
3470.01								
3500.01								
3530.01								
40	QPSK	1	53	23.47	23.47	23.38	24.0	0.0
Channel								
630668								
633334								
636000								
3460.02								
3500.01								
3540								
20	QPSK	1	26	23.47	23.46	23.38	24.0	0.0
Channel								
630500								
633334								
636168								
3457.5								
3500.01								
3542.52								
15	QPSK	1	19	23.47	23.45	23.38	24.0	0.0
Channel								
630334								
633334								
636334								
3455.01								
3500.01								
3545.01								
10	QPSK	1	12	23.47	23.47	23.37	24.0	0.0



Part27Q n77 PC2 Ant2 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI/2 BPSK	1	1	25.12	25.12	25.12		
100	PI/2 BPSK	1	137	25.47	25.47	25.47	27.0	0.0
100	PI/2 BPSK	1	271	24.81	24.81	24.81		
100	PI/2 BPSK	135	0	25.36	25.36	25.36	26.5	0.5
100	PI/2 BPSK	135	69	25.47	25.47	25.47	27.0	0.0
100	PI/2 BPSK	135	138	25.41	25.41	25.41		
100	PI/2 BPSK	270	0	25.44	25.44	25.44	26.5	0.5
100	QPSK	1	1	25.21	25.21	25.21		
100	QPSK	1	137	25.55	25.55	25.55	27.0	0.0
100	QPSK	1	271	25.10	25.10	25.10		
100	QPSK	135	0	24.78	24.78	24.78	26.0	1.0
100	QPSK	135	69	25.50	25.50	25.50	27.0	0.0
100	QPSK	135	138	24.76	24.76	24.76	26.0	1.0
100	QPSK	270	0	24.96	24.96	24.96	26.0	1.0
100	16QAM	1	1	23.94	23.94	23.94	26.0	1.0
100	64QAM	1	1	23.15	23.15	23.15	24.5	2.5
100	256QAM	1	1	21.06	21.06	21.06	22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	123	25.32	25.39	25.42	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	109	25.33	25.37	25.41	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	81	25.33	25.38	25.41	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	67	25.32	25.41	25.41	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	53	25.34	25.41	25.43	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	26	25.34	25.40	25.43	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	19	25.34	25.40	25.41	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	12	25.33	25.38	25.43	27.0	0.0

Part27O n78 PC3 Ant2 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI/2 BPSK	1	1	22.58	22.58	22.58		
100	PI/2 BPSK	1	137	23.42	23.42	23.42	24.0	0.0
100	PI/2 BPSK	1	271	22.51	22.51	22.51		
100	PI/2 BPSK	135	0	23.39	23.39	23.39	24.0	0.0
100	PI/2 BPSK	135	69	23.44	23.44	23.44	24.0	0.0
100	PI/2 BPSK	135	138	23.42	23.42	23.42	24.0	0.0
100	PI/2 BPSK	270	0	23.37	23.37	23.37	24.0	0.0
100	QPSK	1	1	22.55	22.55	22.55		
100	QPSK	1	137	23.46	23.46	23.46	24.0	0.0
100	QPSK	1	271	22.56	22.56	22.56		
100	QPSK	135	0	23.39	23.39	23.39	24.0	0.0
100	QPSK	135	69	23.44	23.44	23.44	24.0	0.0
100	QPSK	135	138	23.43	23.43	23.43	24.0	0.0
100	QPSK	270	0	23.42	23.42	23.42	24.0	0.0
100	16QAM	1	1	22.55	22.55	22.55	24.0	0.0
100	64QAM	1	1	23.04	23.04	23.04	23.5	0.5
100	256QAM	1	1	21.03	21.03	21.03	21.5	2.5
Channel								
Frequency (MHz)								
90	QPSK	1	123	23.39	23.26	23.40	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	109	23.37	23.25	23.41	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	81	23.38	23.28	23.40	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	67	23.37	23.27	23.43	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	53	23.38	23.26	23.44	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	26	23.38	23.25	23.42	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	19	23.37	23.27	23.41	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	12	23.37	23.26	23.41	24.0	0.0

Part27O n78 PC2 Ant2 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI/2 BPSK	1	1	25.14	25.14	25.14		
100	PI/2 BPSK	1	137	25.60	25.60	25.60	27.0	0.0
100	PI/2 BPSK	1	271	25.07	25.07	25.07		
100	PI/2 BPSK	135	0	25.30	25.30	25.30	26.5	0.5
100	PI/2 BPSK	135	69	25.58	25.58	25.58	27.0	0.0
100	PI/2 BPSK	135	138	25.23	25.23	25.23	26.5	0.5
100	PI/2 BPSK	270	0	25.16	25.16	25.16	26.5	0.5
100	QPSK	1	1	25.22	25.22	25.22		
100	QPSK	1	137	25.65	25.65	25.65	27.0	0.0
100	QPSK	1	271	25.15	25.15	25.15		
100	QPSK	135	0	25.33	25.33	25.33	26.0	1.0
100	QPSK	135	69	25.59	25.59	25.59	27.0	0.0
100	QPSK	135	138	24.65	24.65	24.65	26.0	1.0
100	QPSK	270	0	24.81	24.81	24.81	26.0	1.0
100	16QAM	1	1	24.03	24.03	24.03	24.5	2.5
100	64QAM	1	1	23.14	23.14	23.14	24.5	2.5
100	256QAM	1	1	21.19	21.19	21.19	22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	123	25.52	25.37	25.49	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	109	25.52	25.38	25.51	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	81	25.52	25.37	25.48	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	67	25.53	25.40	25.51	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	53	25.51	25.38	25.52	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	26	25.54	25.39	25.49	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	19	25.53	25.38	25.50	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	12	25.54	25.38	25.50	27.0	0.0



Part27Q 78 PC3 Ant2 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1	22.49			24.0	0.0
100	PI/2 BPSK	1	137	23.31				
100	PI/2 BPSK	1	271	22.40				
100	PI/2 BPSK	135	0	23.29			24.0	0.0
100	PI/2 BPSK	135	69	23.32				
100	PI/2 BPSK	135	138	23.31				
100	PI/2 BPSK	270	0	23.28			24.0	0.0
100	QPSK	1	1	22.46				
100	QPSK	1	137	23.38				
100	QPSK	1	271	22.46			24.0	0.0
100	QPSK	135	0	23.30				
100	QPSK	135	69	23.35				
100	QPSK	135	138	23.33			24.0	0.0
100	QPSK	270	0	23.33				
100	16QAM	1	1	22.44				
100	64QAM	1	1	22.99			23.5	0.5
100	256QAM	1	1	20.87			21.5	2.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	23.27	23.16	23.30	24.0	0.0
Channel				633668	633334	633000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	23.30	23.15	23.30	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	23.30	23.16	23.30	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	23.28	23.17	23.31	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	23.31	23.16	23.31	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	23.28	23.17	23.32	24.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	23.29	23.14	23.30	24.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	23.27	23.17	23.31	24.0	0.0

Part27Q 78 PC2 Ant2 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1	22.49			27.0	0.0
100	PI/2 BPSK	1	137	25.49				
100	PI/2 BPSK	1	271	24.98				
100	PI/2 BPSK	135	0	25.21			26.5	0.5
100	PI/2 BPSK	135	69	25.48				
100	PI/2 BPSK	135	138	25.13				
100	PI/2 BPSK	270	0	25.07			26.5	0.5
100	QPSK	1	1	25.13				
100	QPSK	1	137	25.56				
100	QPSK	1	271	25.05			27.0	0.0
100	QPSK	135	0	25.24				
100	QPSK	135	69	25.48				
100	QPSK	135	138	24.56			27.0	1.0
100	QPSK	270	0	24.70				
100	16QAM	1	1	23.84				
100	64QAM	1	1	23.14			24.5	2.5
100	256QAM	1	1	21.09			22.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	25.41	25.29	25.40	27.0	0.0
Channel				633668	633334	633000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	25.42	25.26	25.38	27.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	25.43	25.27	25.41	27.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	25.43	25.29	25.37	27.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	25.42	25.25	25.37	27.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	25.42	25.27	25.39	27.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	25.41	25.27	25.39	27.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	25.43	25.26	25.40	27.0	0.0



Par270 n77 PC3 Ant3 Defualt power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				65000	65000	65000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.40	22.58	22.49		
100	PI/2 BPSK	1	137	23.45	23.63	23.46	24.0	0.0
100	PI/2 BPSK	1	271	22.35	22.52	22.49		
100	PI/2 BPSK	138	0	23.24	23.40	23.35	24.0	0.0
100	PI/2 BPSK	138	69	23.43	23.27	23.48	24.0	0.0
100	PI/2 BPSK	138	138	23.25	23.42	23.35	24.0	0.0
100	PI/2 BPSK	270	0	23.40	23.44	23.29		
100	QPSK	1	1	22.37	22.50	22.46		
100	QPSK	1	137	23.36	23.61	23.53	24.0	0.0
100	QPSK	1	271	22.31	22.49	22.37		
100	QPSK	135	0	23.27	23.43	23.28	24.0	0.0
100	QPSK	135	69	23.28	23.49	23.33	24.0	0.0
100	QPSK	135	138	23.35	23.37	23.20	24.0	0.0
100	QPSK	270	0	23.26	23.37	23.18		
100	16QAM	1	1	22.31	22.33	22.32	24.0	0.0
100	64QAM	1	1	22.81	22.85	22.83	23.5	0.5
100	256QAM	1	1	21.26	21.15	21.13	21.5	2.5
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)
90	QPSK	1	123	22.95	23.25	23.06	24.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	QPSK	1	109	22.96	23.21	23.20	24.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	81	22.99	23.11	23.22	24.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	67	23.02	23.27	23.08	24.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720.02	3840	3950.01	(dBm)	(dB)
40	QPSK	1	53	23.11	23.11	23.05	24.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	26	23.04	23.25	23.17	24.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)
15	QPSK	1	19	23.05	23.11	23.22	24.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)
10	QPSK	1	12	23.10	23.13	23.18	24.0	0.0

Par270 n77 PC2 Ant3 Defualt power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				65000	65000	65000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	25.58	25.67	25.63		
100	PI/2 BPSK	1	137	26.27	26.34	26.22	27.0	0.0
100	PI/2 BPSK	1	271	25.52	25.63	25.50		
100	PI/2 BPSK	135	0	26.32	26.48	26.35	26.5	0.5
100	PI/2 BPSK	135	69	26.39	26.47	26.38	27.0	0.0
100	PI/2 BPSK	135	138	26.37	26.40	26.38	26.5	0.5
100	PI/2 BPSK	270	0	26.29	26.42	26.35		
100	QPSK	1	1	25.72	25.84	25.70		
100	QPSK	1	137	26.38	26.50	26.48	27.0	0.0
100	QPSK	1	271	25.55	25.52	25.56		
100	QPSK	135	0	25.63	25.84	25.66	26.0	1.0
100	QPSK	135	69	26.33	26.44	26.24	27.0	0.0
100	QPSK	135	138	25.55	25.52	25.77	26.0	1.0
100	QPSK	270	0	25.68	25.69	25.59		
100	16QAM	1	1	25.55	25.58	25.56	26.0	1.0
100	64QAM	1	1	23.83	23.83	23.87	24.5	2.5
100	256QAM	1	1	21.91	21.94	21.86	22.5	4.5
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)
90	QPSK	1	123	26.10	26.36	26.24	27.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	QPSK	1	109	26.21	26.41	26.22	27.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	81	26.20	26.31	26.24	27.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	67	26.13	26.39	26.26	27.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720.02	3840	3950.01	(dBm)	(dB)
40	QPSK	1	53	26.23	26.27	26.23	27.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	26	26.11	26.38	26.19	27.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)
15	QPSK	1	19	26.27	26.26	26.18	27.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)
10	QPSK	1	12	26.28	26.30	26.22	27.0	0.0

Part27Q n77 PC3 Ant3 Defualt power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633334	633668		
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1	22.73				
100	PI/2 BPSK	1	137	23.44			24.0	0.0
100	PI/2 BPSK	1	271	22.53				
100	PI/2 BPSK	135	0	23.32			24.0	0.0
100	PI/2 BPSK	135	69	23.37			24.0	0.0
100	PI/2 BPSK	135	138	23.38			24.0	0.0
100	PI/2 BPSK	270	0	23.46				
100	QPSK	1	1	22.65				
100	QPSK	1	137	23.50			24.0	0.0
100	QPSK	1	271	22.49				
100	QPSK	135	0	23.40			24.0	0.0
100	QPSK	135	69	23.42			24.0	0.0
100	QPSK	135	138	23.35			24.0	0.0
100	QPSK	270	0	23.40				
100	16QAM	1	1	22.40			24.0	0.0
100	64QAM	1	1	22.95			23.5	0.5
100	256QAM	1	1	21.21			21.5	2.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	123	23.28	23.27	23.19	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	109	23.26	23.15	23.22	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	81	23.22	23.29	23.28	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	67	23.17	23.16	23.15	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	53	23.11	23.16	23.29	24.0	0.0
Channel				630968	633334	635800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	26	23.12	23.17	23.18	24.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)
15	QPSK	1	19	23.14	23.16	23.16	24.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)
10	QPSK	1	12	23.29	23.30	23.28	24.0	0.0



Part27Q n77 PC2 Ant3 Default power

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel	3500.01	633334			
Frequency (MHz)	3500.01	633334			
100	25.64				
100	25.53			27.0	0.0
100	26.06			26.5	0.5
100	26.17			27.0	0.0
100	26.09			26.5	0.5
100	26.13			27.0	0.0
100	25.91			27.0	0.0
100	25.24			26.0	1.0
100	25.46			26.0	1.0
100	25.47			26.0	1.0
100	26.19			26.0	1.0
100	25.45			26.0	1.0
100	25.54			26.0	1.0
100	24.55			24.5	2.5
100	23.58			22.5	4.5
100	21.85			22.5	4.5
Channel	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3495	3500.01	3505.02		
90	25.73	25.79	25.82	27.0	0.0
Channel	3490.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3490.02	3500.01	3510		
80	25.77	25.87	25.89	27.0	0.0
Channel	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3490	3500.01	3520.02		
60	25.77	25.83	25.75	27.0	0.0
Channel	631668	633334	633000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3475.02	3500.01	3525		
50	25.69	25.76	25.78	27.0	0.0
Channel	631334	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3470.01	3500.01	3520.02		
40	25.80	25.84	25.75	27.0	0.0
Channel	630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3460.02	3500.01	3540		
20	25.70	25.69	25.77	27.0	0.0
Channel	630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3455.01	3500.01	3542.52		
15	25.87	25.80	25.80	27.0	0.0
Channel	630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3455.01	3500.01	3545.01		
10	25.79	25.79	25.86	27.0	0.0

Part27Q n78 PC3 Ant3 Default power

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel	3750	650000			
Frequency (MHz)	3750	650000			
100	22.52				
100	23.49			24.0	0.0
100	22.57			24.0	0.0
100	23.46			24.0	0.0
100	23.51			24.0	0.0
100	23.47			24.0	0.0
100	23.41			24.0	0.0
100	22.60			24.0	0.0
100	23.33			24.0	0.0
100	22.62			24.0	0.0
100	23.45			24.0	0.0
100	23.51			24.0	0.0
100	23.50			24.0	0.0
100	23.30			24.0	0.0
100	22.32			23.5	0.5
100	22.93			21.5	2.5
100	21.10			21.5	2.5
Channel	649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3745.02	3750	3755.01		
90	23.42	23.32	23.47	24.0	0.0
Channel	649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3740.01	3750	3760.02		
80	23.32	23.37	23.39	24.0	0.0
Channel	648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3730.02	3750	3770.01		
60	23.35	23.27	23.29	24.0	0.0
Channel	648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3725.01	3750	3775.02		
50	23.36	23.33	23.43	24.0	0.0
Channel	648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3720	3750	3780		
40	23.45	23.37	23.38	24.0	0.0
Channel	647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3710.01	3750	3790.02		
20	23.44	23.33	23.32	24.0	0.0
Channel	647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3707.62	3750	3792.51		
15	23.32	23.28	23.37	24.0	0.0
Channel	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3705	3750	3795		
10	23.34	23.46	23.47	24.0	0.0

Part27Q n78 PC2 Ant3 Default power

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel	3750	650000			
Frequency (MHz)	3750	650000			
100	25.92				
100	26.40			27.0	0.0
100	25.88			26.5	0.5
100	26.09			27.0	0.0
100	26.39			27.0	0.0
100	26.03			26.5	0.5
100	25.97			27.0	0.0
100	26.03			27.0	0.0
100	25.43			26.0	1.0
100	25.95			26.0	1.0
100	26.12			26.0	1.0
100	26.40			26.0	1.0
100	25.45			26.0	1.0
100	25.59			26.0	1.0
100	24.83			24.5	2.5
100	23.87			22.5	4.5
100	21.98			22.5	4.5
Channel	649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3745.02	3750	3755.01		
90	26.33	26.18	26.30	27.0	0.0
Channel	649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3740.01	3750	3760.02		
80	26.23	26.28	26.24	27.0	0.0
Channel	648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3730.02	3750	3770.01		
60	26.31	26.17	26.33	27.0	0.0
Channel	648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3725.01	3750	3775.02		
50	26.19	26.15	26.26	27.0	0.0
Channel	648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3720	3750	3780		
40	26.29	26.21	26.30	27.0	0.0
Channel	647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3710.01	3750	3790.02		
20	26.21	26.27	26.28	27.0	0.0
Channel	647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3707.62	3750	3792.51		
15	26.32	26.15	26.21	27.0	0.0
Channel	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3705	3750	3795		
10	26.18	26.17	26.26	27.0	0.0



Part27Q 78 PC3 Ant3 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1	22.33			24.0	0.0
100	PI/2 BPSK	1	137	23.12				
100	PI/2 BPSK	1	271	22.27				
100	PI/2 BPSK	135	0	23.20			24.0	0.0
100	PI/2 BPSK	135	69	23.20				
100	PI/2 BPSK	135	138	23.02				
100	PI/2 BPSK	270	0	23.06			24.0	0.0
100	QPSK	1	1	22.38				
100	QPSK	1	137	23.24			24.0	0.0
100	QPSK	1	271	22.27				
100	QPSK	135	0	23.15				
100	QPSK	135	69	23.19			24.0	0.0
100	QPSK	135	138	23.07				
100	QPSK	270	0	23.12			24.0	0.0
100	16QAM	1	1	22.14			24.0	0.0
100	64QAM	1	1	22.79			23.5	0.5
100	256QAM	1	1	20.80			21.5	2.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3495	3500.01	3505.02	(dB)	(dB)
90	QPSK	1	123	23.01	23.03	23.03	24.0	0.0
Channel				633668	633334	633000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dB)	(dB)
80	QPSK	1	109	22.99	22.98	23.00	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dB)	(dB)
60	QPSK	1	81	22.98	22.94	22.85	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dB)	(dB)
50	QPSK	1	67	22.90	22.90	22.94	24.0	0.0
Channel				631334	633334	633334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dB)	(dB)
40	QPSK	1	53	22.85	23.00	22.95	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dB)	(dB)
20	QPSK	1	26	22.87	22.94	23.05	24.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR
Frequency (MHz)				3457.5	3500.01	3542.52	(dB)	(dB)
15	QPSK	1	19	23.04	22.87	23.05	24.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3455.01	3500.01	3545.01	(dB)	(dB)
10	QPSK	1	12	23.05	22.88	22.88	24.0	0.0

Part27Q 78 PC2 Ant3 Default power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1	25.88			27.0	0.0
100	PI/2 BPSK	1	137	26.06				
100	PI/2 BPSK	1	271	25.56				
100	PI/2 BPSK	135	0	25.86			26.5	0.5
100	PI/2 BPSK	135	69	26.21			27.0	0.0
100	PI/2 BPSK	135	138	25.91			26.5	0.5
100	PI/2 BPSK	270	0	25.88				
100	QPSK	1	1	25.67				
100	QPSK	1	137	26.23			27.0	0.0
100	QPSK	1	271	25.82				
100	QPSK	135	0	25.42			26.0	1.0
100	QPSK	135	69	26.20			27.0	0.0
100	QPSK	135	138	25.42			26.0	1.0
100	QPSK	270	0	25.41				
100	16QAM	1	1	24.83			26.0	1.0
100	64QAM	1	1	23.57			24.5	2.5
100	256QAM	1	1	21.85			22.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3495	3500.01	3505.02	(dB)	(dB)
90	QPSK	1	123	26.06	26.07	26.01	27.0	0.0
Channel				633668	633334	633000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dB)	(dB)
80	QPSK	1	109	25.99	25.99	26.05	27.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dB)	(dB)
60	QPSK	1	81	25.11	26.09	26.09	27.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dB)	(dB)
50	QPSK	1	67	25.97	26.13	26.10	27.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dB)	(dB)
40	QPSK	1	53	26.14	26.10	26.00	27.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dB)	(dB)
20	QPSK	1	26	26.01	26.12	26.13	27.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR
Frequency (MHz)				3457.5	3500.01	3542.52	(dB)	(dB)
15	QPSK	1	19	25.89	26.11	26.09	27.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3455.01	3500.01	3545.01	(dB)	(dB)
10	QPSK	1	12	26.03	25.96	26.12	27.0	0.0



n5 Ant4 Default power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				16650	16700	16750		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.94	24.14	24.11	25.5	0.0
20	PI/2 BPSK	1	26	23.95	24.04	23.86		
20	PI/2 BPSK	1	49	23.74	23.96	23.83		
20	PI/2 BPSK	25	0	23.47	23.64	23.50	25.0	0.5
20	PI/2 BPSK	25	13	24.07	24.10	23.94	25.5	0.0
20	PI/2 BPSK	25	26	23.50	23.61	23.42	25.0	0.5
20	PI/2 BPSK	50	0	23.54	23.67	23.64		
20	QPSK	1	1	24.03	24.22	24.20		
20	QPSK	1	26	24.03	24.06	23.92	25.5	0.0
20	QPSK	1	49	23.82	23.96	23.74		
20	QPSK	25	0	22.92	23.13	23.02		
20	QPSK	25	13	23.87	24.08	23.86	25.5	0.0
20	QPSK	25	26	22.81	23.05	22.98	24.5	1.0
20	QPSK	50	0	22.87	23.10	22.91		
20	16QAM	1	1	22.58	22.65	22.52		
20	64QAM	1	1	21.10	21.20	21.02	23.0	2.5
20	256QAM	1	1	19.73	19.75	19.58	21.0	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.95	24.11	24.13	25.5	0.0
Channel				165600	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826	836.5	844		
10	QPSK	1	1	24.02	24.16	24.09	25.5	0.0

n7 Ant4 Default power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				50200	50700	51200		
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	24.69	24.91	24.88	25.5	0.0
20	PI/2 BPSK	1	26	24.85	24.86	24.84		
20	PI/2 BPSK	1	49	24.69	24.73	24.51		
20	PI/2 BPSK	25	0	24.36	24.44	24.37	25.0	0.5
20	PI/2 BPSK	25	13	24.89	24.89	24.71	25.0	0.5
20	PI/2 BPSK	25	26	24.12	24.36	24.28		
20	PI/2 BPSK	50	0	24.26	24.41	24.40		
20	QPSK	1	1	24.90	24.95	24.84	25.5	0.0
20	QPSK	1	26	24.83	24.83	24.74		
20	QPSK	1	49	24.74	24.84	24.63		
20	QPSK	25	0	23.79	23.92	23.85	24.5	1.0
20	QPSK	25	13	24.65	24.76	24.59	24.5	0.0
20	QPSK	25	26	23.84	23.86	23.65		
20	QPSK	50	0	23.69	23.67	23.66		
20	16QAM	1	1	23.72	23.72	23.61	24.5	1.0
20	64QAM	1	1	22.27	22.36	22.13	23.0	2.5
20	256QAM	1	1	20.65	20.74	20.60	21.0	4.5
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	24.86	24.84	24.66	25.5	0.0
Channel				501000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	24.82	24.79	24.80	25.5	0.0



n38 Ant4 Default power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518000	519500	520000			
Frequency (MHz)				2550	2555	2610			
20	PI/2 BPSK	1	1	24.31	24.47	24.48			
20	PI/2 BPSK	1	26	24.21	24.36	24.25	25.5	0.0	
20	PI/2 BPSK	1	49	24.30	24.41	24.26			
20	PI/2 BPSK	25	0	23.78	23.92	23.72	25.0	0.5	
20	PI/2 BPSK	25	13	24.29	24.40	24.30	25.5	0.0	
20	PI/2 BPSK	25	26	23.94	23.96	23.82			
20	PI/2 BPSK	50	0	23.86	24.02	23.96	25.0	0.5	
20	QPSK	1	1	24.36	24.51	24.23			
20	QPSK	1	26	24.33	24.45	24.07	25.5	0.0	
20	QPSK	1	49	24.37	24.29	24.21			
20	QPSK	25	0	23.50	23.53	23.39	24.5	1.0	
20	QPSK	25	13	24.24	24.43	24.30	25.5	0.0	
20	QPSK	25	26	23.51	23.83	23.69			
20	QPSK	50	0	23.56	23.61	23.60	24.5	1.0	
20	16QAM	1	1	23.80	23.57	23.54	24.5	1.0	
20	64QAM	1	1	22.11	22.23	22.16	23.0	2.5	
20	256QAM	1	1	20.18	20.16	20.07	21.0	4.5	
Channel				519502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	PI/2 BPSK	1	1	24.31	24.41	24.19	25.5	0.0	
Channel				515004	516500	520396			
Frequency (MHz)				2575.02	2595	2614.98			
10	PI/2 BPSK	1	1	24.27	24.35	24.10	25.5	0.0	

n41 PC3 Ant4 Default power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	526300			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	23.30	23.36	23.15			
100	PI/2 BPSK	1	137	24.18	24.30	24.20	24.5	0.0	
100	PI/2 BPSK	1	271	23.42	23.54	23.43			
100	PI/2 BPSK	135	0	24.05	24.14	24.00	24.5	0.0	
100	PI/2 BPSK	135	69	24.22	24.29	24.07	24.5	0.0	
100	PI/2 BPSK	135	138	24.17	24.22	24.03			
100	PI/2 BPSK	270	0	24.05	24.15	24.02	24.5	0.0	
100	QPSK	1	1	23.19	23.24	23.17			
100	QPSK	1	137	24.10	24.31	24.23	24.5	0.0	
100	QPSK	1	271	23.40	23.42	23.41			
100	QPSK	135	0	24.05	24.07	23.98	24.5	0.0	
100	QPSK	135	69	24.13	24.30	24.25	24.5	0.0	
100	QPSK	135	138	24.06	24.25	24.19	24.5	0.0	
100	QPSK	270	0	23.92	24.12	24.00			
100	16QAM	1	1	23.12	23.17	23.05	24.5	0.0	
100	64QAM	1	1	22.76	22.83	22.76	23.0	1.5	
100	256QAM	1	1	20.66	20.71	20.68	21.0	3.5	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	123	24.04	24.22	24.11	24.5	0.0	
Channel				507204	518598	529398			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	109	24.15	24.01	24.03	24.5	0.0	
Channel				505200	518598	531996			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	81	24.11	24.15	24.07	24.5	0.0	
Channel				504204	518598	532596			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	67	24.14	24.00	24.14	24.5	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	53	24.01	24.13	24.08	24.5	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	26	24.12	24.02	24.04	24.5	0.0	
Channel				500700	518598	536496			
Frequency (MHz)				2503.3	2592.99	2682.43			
15	QPSK	1	19	24.17	24.15	24.01	24.5	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	12	24.14	24.12	24.16	24.5	0.0	

n41 PC2 Ant4 Default power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	526300			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	23.21	23.44	23.25			
100	PI/2 BPSK	1	137	24.66	24.78	24.75	26.0	0.0	
100	PI/2 BPSK	1	271	23.86	24.04	23.99			
100	PI/2 BPSK	135	0	24.25	24.34	24.26	25.5	0.5	
100	PI/2 BPSK	135	69	24.25	24.65	24.42	26.0	0.0	
100	PI/2 BPSK	135	138	24.55	24.62	24.57			
100	PI/2 BPSK	270	0	24.28	24.47	24.39	25.5	0.5	
100	QPSK	1	1	23.40	23.47	23.30			
100	QPSK	1	137	24.60	24.83	24.79	26.0	0.0	
100	QPSK	1	271	23.89	24.11	23.99			
100	QPSK	135	0	23.98	23.48	23.33	25.0	1.0	
100	QPSK	135	69	24.76	24.76	24.66	26.0	0.0	
100	QPSK	135	138	23.59	23.75	23.69	25.0	1.0	
100	QPSK	270	0	23.48	23.69	23.52			
100	16QAM	1	1	23.49	23.64	23.63	25.0	1.0	
100	64QAM	1	1	21.90	22.10	22.05	23.5	2.5	
100	256QAM	1	1	20.27	20.28	20.05	21.5	4.5	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	123	24.32	24.46	24.06	26.0	0.0	
Channel				507204	518598	529398			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	109	24.22	24.47	24.07	26.0	0.0	
Channel				505200	518598	531996			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	81	24.30	24.47	24.29	26.0	0.0	
Channel				504204	518598	532596			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	67	24.21	24.39	24.07	26.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	53	24.83	24.42	24.11	26.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	26	24.25	24.31	24.11	26.0	0.0	
Channel				500700	518598	536496			
Frequency (MHz)				2503.5	2592.99	2682.43			
15	QPSK	1	19	24.37	24.29	24.13	26.0	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	12	24.34	24.31	24.09	26.0	0.0	



Par270 n77 PC3 Ant5 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				656000	666000	662000			
Frequency (MHz)				3750	3850	3950			
100	PI/2 BPSK	1	1	15.50	15.52	15.39			
100	PI/2 BPSK	1	137	15.49	15.48	15.38	17.0	0.0	
100	PI/2 BPSK	1	271	15.40	15.55	15.30			
100	PI/2 BPSK	135	0	15.49	15.47	15.42	17.0	0.0	
100	PI/2 BPSK	135	69	15.41	15.45	15.31	17.0	0.0	
100	PI/2 BPSK	135	138	15.39	15.43	15.36			
100	PI/2 BPSK	270	0	15.38	15.54	15.40	17.0	0.0	
100	QPSK	1	1	15.45	15.49	15.33			
100	QPSK	1	137	15.55	15.59	15.45	17.0	0.0	
100	QPSK	1	271	15.46	15.44	15.40			
100	QPSK	135	0	15.42	15.45	15.36	17.0	0.0	
100	QPSK	135	69	15.41	15.53	15.39	17.0	0.0	
100	QPSK	135	138	15.51	15.47	15.35	17.0	0.0	
100	QPSK	270	0	15.49	15.53	15.30			
100	16QAM	1	1	15.39	15.48	15.42	17.0	0.0	
100	64QAM	1	1	15.44	15.49	15.31	17.0	0.0	
100	256QAM	1	1	15.46	15.42	15.35	17.0	0.0	
Channel				649668	666000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	15.49	15.53	15.29	17.0	0.0	
Channel				648334	666000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	15.48	15.50	15.36	17.0	0.0	
Channel				648668	666000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	15.43	15.49	15.35	17.0	0.0	
Channel				648334	666000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	15.50	15.54	15.31	17.0	0.0	
Channel				648000	666000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	15.52	15.51	15.34	17.0	0.0	
Channel				647334	666000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	15.41	15.44	15.29	17.0	0.0	
Channel				647168	666000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	15.52	15.44	15.31	17.0	0.0	
Channel				647000	666000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	15.41	15.48	15.29	17.0	0.0	

Part27Q n77 PC3 Ant5 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	633501			
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1			15.46			
100	PI/2 BPSK	1	137			15.37	17.0	0.0	
100	PI/2 BPSK	1	271			15.38			
100	PI/2 BPSK	135	0			15.44			
100	PI/2 BPSK	135	69			15.39	17.0	0.0	
100	PI/2 BPSK	135	138			15.44			
100	PI/2 BPSK	270	0			15.39	17.0	0.0	
100	QPSK	1	1			15.32			
100	QPSK	1	137			15.48	17.0	0.0	
100	QPSK	1	271			15.43			
100	QPSK	135	0			15.36			
100	QPSK	135	69			15.40	17.0	0.0	
100	QPSK	135	138			15.37			
100	QPSK	270	0			15.36	17.0	0.0	
100	16QAM	1	1			15.45	17.0	0.0	
100	64QAM	1	1			15.45	17.0	0.0	
100	256QAM	1	1			15.44	17.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123	15.39	15.26	15.34	17.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109	15.35	15.29	15.40	17.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	15.27	15.24	15.44	17.0	0.0	
Channel				631668	633334	635500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67	15.39	15.29	15.44	17.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	15.29	15.29	15.34	17.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	15.37	15.24	15.43	17.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19	15.32	15.37	15.41	17.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12	15.32	15.37	15.34	17.0	0.0	



Part270 n78 PC3 Ant5 DSI3							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				650000			
Frequency (MHz)				3750			
100	PI/2 BPSK	1	1	15.44			
100	PI/2 BPSK	1	137	15.46			
100	PI/2 BPSK	1	271	15.44		17.0	0.0
100	PI/2 BPSK	135	0	15.42		17.0	0.0
100	PI/2 BPSK	135	69	15.44		17.0	0.0
100	PI/2 BPSK	135	138	15.44		17.0	0.0
100	PI/2 BPSK	270	0	15.43		17.0	0.0
100	QPSK	1	1	15.40			
100	QPSK	1	137	15.53		17.0	0.0
100	QPSK	1	271	15.50		17.0	0.0
100	QPSK	135	0	15.42		17.0	0.0
100	QPSK	135	69	15.45		17.0	0.0
100	QPSK	135	138	15.38		17.0	0.0
100	QPSK	270	0	15.40		17.0	0.0
100	16QAM	0	1	15.49		17.0	0.0
100	64QAM	1	1	15.39		17.0	0.0
100	256QAM	1	1	15.42		17.0	0.0
Channel				649688	650000	650334	Tune-up limit MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01	
90	QPSK	1	123	15.52	15.49	15.47	17.0 0.0
Channel				649334	650000	650596	Tune-up limit MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02	
80	QPSK	1	109	15.39	15.49	15.48	17.0 0.0
Channel				648668	650000	651334	Tune-up limit MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01	
60	QPSK	1	81	15.41	15.48	15.41	17.0 0.0
Channel				648334	650000	651668	Tune-up limit MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02	
50	QPSK	1	67	15.48	15.50	15.47	17.0 0.0
Channel				648000	650000	652000	Tune-up limit MPR (dB)
Frequency (MHz)				3720	3750	3780	
40	QPSK	1	53	15.48	15.43	15.49	17.0 0.0
Channel				647334	650000	652668	Tune-up limit MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02	
20	QPSK	1	26	15.50	15.49	15.47	17.0 0.0
Channel				647168	650000	652834	Tune-up limit MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51	
15	QPSK	1	19	15.43	15.45	15.42	17.0 0.0
Channel				647000	650000	653000	Tune-up limit MPR (dB)
Frequency (MHz)				3705	3750	3795	
10	QPSK	1	12	15.48	15.44	15.41	17.0 0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				633334			
Frequency (MHz)				3500.01			
100	PI/2 BPSK	1	1	15.35			
100	PI/2 BPSK	1	137	15.30			
100	PI/2 BPSK	1	271	15.30		17.0	0.0
100	PI/2 BPSK	135	0	15.29		17.0	0.0
100	PI/2 BPSK	135	69	15.32		17.0	0.0
100	PI/2 BPSK	135	138	15.29		17.0	0.0
100	PI/2 BPSK	270	0	15.29		17.0	0.0
100	QPSK	1	1	15.33			
100	QPSK	1	137	15.38		17.0	0.0
100	QPSK	1	271	15.32		17.0	0.0
100	QPSK	135	0	15.36		17.0	0.0
100	QPSK	135	69	15.35		17.0	0.0
100	QPSK	135	138	15.29		17.0	0.0
100	QPSK	270	0	15.30		17.0	0.0
100	16QAM	1	1	15.36		17.0	0.0
100	64QAM	1	1	15.31		17.0	0.0
100	256QAM	1	1	15.28		17.0	0.0
Channel				633000	633334	633668	Tune-up limit MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02	
90	QPSK	1	123	15.09	15.16	15.24	17.0 0.0
Channel				632598	633334	634000	Tune-up limit MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510	
80	QPSK	1	109	15.22	15.22	15.31	17.0 0.0
Channel				632000	633334	634668	Tune-up limit MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02	
60	QPSK	1	81	15.15	15.19	15.19	17.0 0.0
Channel				631658	633334	635000	Tune-up limit MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525	
50	QPSK	1	67	15.12	15.27	15.28	17.0 0.0
Channel				631334	633334	635334	Tune-up limit MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01	
40	QPSK	1	53	15.19	15.27	15.21	17.0 0.0
Channel				630968	633334	636000	Tune-up limit MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540	
20	QPSK	1	26	15.19	15.23	15.20	17.0 0.0
Channel				630500	633334	636168	Tune-up limit MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52	
15	QPSK	1	19	15.12	15.24	15.31	17.0 0.0
Channel				630334	633334	636334	Tune-up limit MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01	
10	QPSK	1	12	15.21	15.23	15.29	17.0 0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				656000	666000	662000		
Frequency (MHz)				3750	3650	3950		
100	PI/2 BPSK	1	1	17.43	17.53	17.47		
100	PI/2 BPSK	1	137	17.54	17.55	17.56	18.0	0.0
100	PI/2 BPSK	1	271	17.45	17.56	17.53		
100	PI/2 BPSK	135	0	17.47	17.54	17.56	18.0	0.0
100	PI/2 BPSK	135	69	17.43	17.52	17.51	18.0	0.0
100	PI/2 BPSK	135	138	17.45	17.53	17.56		
100	PI/2 BPSK	270	0	17.49	17.54	17.50	18.0	0.0
100	QPSK	1	1	17.45	17.47	17.49		
100	QPSK	1	137	17.49	17.57	17.49	18.0	0.0
100	QPSK	1	271	17.46	17.46	17.44		
100	QPSK	135	0	17.52	17.52	17.50	18.0	0.0
100	QPSK	135	69	17.44	17.54	17.46	18.0	0.0
100	QPSK	135	138	17.46	17.48	17.48	18.0	0.0
100	QPSK	270	0	17.51	17.56	17.44		
100	16QAM	1	1	17.46	17.52	17.56	18.0	0.0
100	64QAM	1	1	17.49	17.52	17.56	18.0	0.0
100	256QAM	1	1	17.50	17.56	17.44	18.0	0.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	123	17.46	17.50	17.50	18.0	0.0
Channel				648334	656000	662968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3949.02		
80	QPSK	1	109	17.53	17.59	17.48	18.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	17.50	17.56	17.44	18.0	0.0
Channel				648334	656000	663968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	17.50	17.57	17.49	18.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	17.41	17.54	17.53	18.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	17.55	17.52	17.55	18.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	17.48	17.53	17.46	18.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	17.55	17.48	17.44	18.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633334	633500		
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1			16.47		
100	PI/2 BPSK	1	137			16.46	18.0	0.0
100	PI/2 BPSK	1	271			16.42		
100	PI/2 BPSK	135	0			16.37	18.0	0.0
100	PI/2 BPSK	135	69			16.40		
100	PI/2 BPSK	135	138			16.41		
100	PI/2 BPSK	270	0			16.40	18.0	0.0
100	QPSK	1	1			16.44		
100	QPSK	1	137			16.48	18.0	0.0
100	QPSK	1	271			16.40		
100	QPSK	135	0			16.37	18.0	0.0
100	QPSK	135	69			16.40		
100	QPSK	135	138			16.30	18.0	0.0
100	QPSK	270	0			16.42		
100	16QAM	1	1			16.39	18.0	0.0
100	64QAM	1	1			16.44	18.0	0.0
100	256QAM	1	1			16.37	18.0	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	16.38	16.46	16.39	18.0	0.0
Channel				632968	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	16.33	16.37	16.29	18.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	16.33	16.36	16.26	18.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	16.34	16.39	16.36	18.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	16.29	16.40	16.25	18.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	16.25	16.40	16.25	18.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	16.23	16.40	16.25	18.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	16.30	16.36	16.29	18.0	0.0



Part270 n78 PC3 Ant6 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								
Frequency (MHz)				650000				
100	PI/2 BPSK	1	1	17.52				
100	PI/2 BPSK	1	137	17.48			18.0	0.0
100	PI/2 BPSK	1	271	17.42				
100	PI/2 BPSK	135	0	17.46			18.0	0.0
100	PI/2 BPSK	135	69	17.46			18.0	0.0
100	PI/2 BPSK	135	138	17.43				
100	PI/2 BPSK	270	0	17.50			18.0	0.0
100	QPSK	1	1	17.41				
100	QPSK	1	137	17.55			18.0	0.0
100	QPSK	1	271	17.48				
100	QPSK	135	0	17.38			18.0	0.0
100	QPSK	135	69	17.45			18.0	0.0
100	QPSK	135	138	17.44				
100	QPSK	270	0	17.42			18.0	0.0
100	16QAM	0	1	17.44			18.0	0.0
100	64QAM	1	1	17.50			18.0	0.0
100	256QAM	1	1	17.48			18.0	0.0
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	123	17.50	17.46	17.46	18.0	0.0
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	109	17.37	17.29	17.37	18.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	81	17.38	17.33	17.30	18.0	0.0
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	67	17.45	17.30	17.37	18.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	53	17.39	17.42	17.35	18.0	0.0
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	26	17.43	17.42	17.34	18.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.61		
15	QPSK	1	19	17.45	17.37	17.41	18.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	12	17.41	17.40	17.29	18.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				633334				
100	PI/2 BPSK	1	1	16.40				
100	PI/2 BPSK	1	137	16.31			18.0	0.0
100	PI/2 BPSK	1	271	16.35				
100	PI/2 BPSK	135	0	16.41			18.0	0.0
100	PI/2 BPSK	135	69	16.30			18.0	0.0
100	PI/2 BPSK	135	138	16.38				
100	PI/2 BPSK	270	0	16.28			18.0	0.0
100	QPSK	1	1	16.36				
100	QPSK	1	137	16.42			18.0	0.0
100	QPSK	1	271	16.36				
100	QPSK	135	0	16.37			18.0	0.0
100	QPSK	135	69	16.41			18.0	0.0
100	QPSK	135	138	16.39				
100	QPSK	270	0	16.30			18.0	0.0
100	16QAM	1	1	16.38			18.0	0.0
100	64QAM	1	1	16.40			18.0	0.0
100	256QAM	1	1	16.38			18.0	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	16.32	16.33	16.39	18.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	16.23	16.17	16.31	18.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	16.20	16.24	16.24	18.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	16.25	16.23	16.27	18.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	16.24	16.29	16.31	18.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	16.17	16.21	16.22	18.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	16.24	16.24	16.34	18.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	16.27	16.20	16.23	18.0	0.0



Reduced power level for 5G NR DSI4

n5 Ant1 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				166500	167300	167500		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	22.95	23.16	23.09		
20	PI/2 BPSK	1	26	22.96	23.09	23.05	24.5	0.0
20	PI/2 BPSK	1	49	23.00	23.12	23.17		
20	PI/2 BPSK	25	0	23.01	23.05	23.16	24.5	0.0
20	PI/2 BPSK	25	13	22.84	23.20	23.19		
20	PI/2 BPSK	25	26	23.00	23.15	23.11	24.5	0.0
20	PI/2 BPSK	50	0	22.90	23.06	23.09		
20	QPSK	1	1	22.80	23.22	23.08		
20	QPSK	1	26	22.90	23.12	23.10	24.5	0.0
20	QPSK	1	49	22.81	23.16	23.09		
20	QPSK	25	0	22.94	23.10	23.05	24.5	0.0
20	QPSK	25	13	22.95	23.21	23.13	24.5	0.0
20	QPSK	25	26	22.86	23.06	23.10	24.5	0.0
20	QPSK	50	0	22.89	23.15	23.02		
20	16QAM	1	1	22.80	23.09	23.00	24.5	0.0
20	64QAM	1	1	21.30	21.78	21.68	23.0	1.5
20	256QAM	1	1	19.74	20.26	19.98	21.0	3.5
Channel				166500	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.60	23.16	22.92	24.5	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.62	23.19	23.01	24.5	0.0

n7 Ant1 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				500000	507000	510000		
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	18.15	18.50	18.27		
20	PI/2 BPSK	1	26	18.16	18.38	18.22	19.5	0.0
20	PI/2 BPSK	1	49	18.20	18.36	18.32		
20	PI/2 BPSK	25	0	18.21	18.53	18.34	19.5	0.0
20	PI/2 BPSK	25	13	18.24	18.35	18.33		
20	PI/2 BPSK	25	26	18.39	18.51	18.29	19.5	0.0
20	PI/2 BPSK	50	0	18.26	18.54	18.29		
20	QPSK	1	1	18.39	18.55	18.23		
20	QPSK	1	26	18.35	18.44	18.41	19.5	0.0
20	QPSK	1	49	18.16	18.33	18.34		
20	QPSK	25	0	18.28	18.33	18.28	19.5	0.0
20	QPSK	25	13	18.33	18.51	18.25	19.5	0.0
20	QPSK	25	26	18.31	18.43	18.24	19.5	0.0
20	QPSK	50	0	18.35	18.48	18.25		
20	16QAM	1	1	18.35	18.46	18.43	19.5	0.0
20	64QAM	1	1	18.22	18.38	18.37	19.5	0.0
20	256QAM	1	1	18.18	18.35	18.43	19.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	18.37	18.48	18.31	19.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	18.24	18.44	18.41	19.5	0.0



n38 Ant1 DSI4									
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				516500	518000	522000			
Frequency (MHz)				2550	2595	2610			
20	PI/2 BPSK	1	1	18.41	18.65	18.45			
20	PI/2 BPSK	1	26	18.38	18.56	18.63	20.0	0.0	
20	PI/2 BPSK	1	49	18.39	18.54	18.48			
20	PI/2 BPSK	25	0	18.32	18.51	18.62	20.0	0.0	
20	PI/2 BPSK	25	13	18.47	18.70	18.44	20.0	0.0	
20	PI/2 BPSK	25	26	18.54	18.68	18.50			
20	PI/2 BPSK	50	0	18.50	18.61	18.63	20.0	0.0	
20	QPSK	1	1	18.36	18.72	18.45			
20	QPSK	1	26	18.47	18.68	18.65	20.0	0.0	
20	QPSK	1	49	18.41	18.52	18.44			
20	QPSK	25	0	18.43	18.58	18.58	20.0	0.0	
20	QPSK	25	13	18.34	18.68	18.67	20.0	0.0	
20	QPSK	25	26	18.32	18.70	18.52			
20	QPSK	50	0	18.38	18.66	18.48			
20	16QAM	1	1	18.47	18.68	18.65	20.0	0.0	
20	64QAM	1	1	18.50	18.62	18.48	20.0	0.0	
20	256QAM	1	1	18.42	18.55	18.54	20.0	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	PI/2 BPSK	1	1	18.45	18.69	18.51	20.0	0.0	
Channel				515004	518000	522000			
Frequency (MHz)				2575.02	2595	2614.98			
10	PI/2 BPSK	1	1	18.47	18.57	18.63	20.0	0.0	

n41 PC2&3 Ant1 DSI4									
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				536202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	18.77	18.92	18.67			
100	PI/2 BPSK	1	137	18.67	18.79	18.66	19.5	0.0	
100	PI/2 BPSK	1	271	18.74	18.90	18.55			
100	PI/2 BPSK	135	0	18.75	18.84	18.62	19.5	0.0	
100	PI/2 BPSK	135	69	18.69	18.73	18.58	19.5	0.0	
100	PI/2 BPSK	135	138	18.70	18.89	18.58			
100	PI/2 BPSK	270	0	18.78	18.94	18.67	19.5	0.0	
100	QPSK	1	1	18.59	18.85	18.65			
100	QPSK	1	137	18.74	18.65	18.53	19.5	0.0	
100	QPSK	1	271	18.79	18.67	18.57			
100	QPSK	135	0	18.61	18.81	18.57	19.5	0.0	
100	QPSK	135	69	18.77	18.84	18.58	19.5	0.0	
100	QPSK	135	138	18.78	18.75	18.67	19.5	0.0	
100	QPSK	270	0	18.75	18.80	18.67			
100	16QAM	1	1	18.77	18.82	18.65	19.5	0.0	
100	64QAM	1	1	18.72	18.76	18.70	19.5	0.0	
100	256QAM	1	1	18.65	18.92	18.72	19.5	0.0	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	123	18.62	18.67	18.73	19.5	0.0	
Channel				507204	518598	528996			
Frequency (MHz)				2538.02	2592.99	2646.99			
80	QPSK	1	109	18.71	18.93	18.71	19.5	0.0	
Channel				506200	518598	531996			
Frequency (MHz)				2526	2592.99	2659.98			
80	QPSK	1	81	18.57	18.50	18.61	19.5	0.0	
Channel				504204	518598	532996			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	67	18.65	18.82	18.72	19.5	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	53	18.70	18.73	18.65	19.5	0.0	
Channel				501204	518598	535996			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	26	18.78	18.86	18.67	19.5	0.0	
Channel				500700	518598	536498			
Frequency (MHz)				2503.05	2592.99	2682.98			
15	QPSK	1	19	18.75	18.85	18.65	19.5	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	12	18.76	18.75	18.53	19.5	0.0	



n7 Ant2 DSI4							
Channel	Frequency (MHz)	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
20	Pi/2 BPSK	1	1	18.69	18.81	18.77	
20	Pi/2 BPSK	1	26	18.60	18.83	18.76	20.5
20	Pi/2 BPSK	1	49	18.55	18.64	18.72	20.5
20	Pi/2 BPSK	25	0	18.55	18.84	18.53	20.5
20	Pi/2 BPSK	25	13	18.70	18.82	18.76	20.5
20	Pi/2 BPSK	25	26	18.51	18.70	18.62	20.5
20	Pi/2 BPSK	50	0	18.76	18.67	18.64	20.5
20	QPSK	1	1	18.64	18.85	18.80	
20	QPSK	1	26	18.61	18.73	18.71	20.5
20	QPSK	1	49	18.70	18.79	18.68	20.5
20	QPSK	25	0	18.61	18.89	18.59	20.5
20	QPSK	25	13	18.62	18.71	18.55	20.5
20	QPSK	25	26	18.66	18.64	18.57	20.5
20	QPSK	50	0	18.64	18.65	18.62	20.5
20	16QAM	1	1	18.51	18.85	18.66	20.5
20	64QAM	1	1	18.77	18.81	18.60	20.5
20	256QAM	1	1	18.66	18.81	18.74	20.5
Channel	Frequency (MHz)	501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	18.52	18.67	18.75	20.5
Channel	Frequency (MHz)	501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	18.56	18.70	18.63	20.5



n38 Ant2 DSI4									
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				516500	518000	522000			
Frequency (MHz)				2590	2595	2610			
20	PI/2 BPSK	1	1	15.62	15.81	15.74			
20	PI/2 BPSK	1	26	15.55	15.80	15.66	17.5	0.0	
20	PI/2 BPSK	1	49	15.55	15.73	15.67			
20	PI/2 BPSK	25	0	15.62	15.68	15.64	17.5	0.0	
20	PI/2 BPSK	25	13	15.52	15.72	15.70	17.5	0.0	
20	PI/2 BPSK	25	26	15.63	15.80	15.81			
20	PI/2 BPSK	50	0	15.68	15.80	15.69	17.5	0.0	
20	QPSK	1	1	15.52	15.89	15.72			
20	QPSK	1	26	15.64	15.73	15.76	17.5	0.0	
20	QPSK	1	49	15.51	15.80	15.72			
20	QPSK	25	0	15.54	15.81	15.80	17.5	0.0	
20	QPSK	25	13	15.63	15.87	15.69	17.5	0.0	
20	QPSK	25	26	15.70	15.80	15.67			
20	QPSK	50	0	15.54	15.83	15.64	17.5	0.0	
20	16QAM	1	1	15.54	15.89	15.67	17.5	0.0	
20	64QAM	1	1	15.62	15.84	15.59	17.5	0.0	
20	256QAM	1	1	15.56	15.70	15.60	17.5	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	PI/2 BPSK	1	1	15.53	15.78	15.78	17.5	0.0	
Channel				515004	518000	522396			
Frequency (MHz)				2575.02	2595	2614.98			
10	PI/2 BPSK	1	1	15.73	15.77	15.72	17.5	0.0	

n41 PC2&33 Ant2 DSI4									
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				506200	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	17.25	17.41	17.14			
100	PI/2 BPSK	1	137	17.21	17.34	17.17	18.5	0.0	
100	PI/2 BPSK	1	271	17.30	17.35	17.22			
100	PI/2 BPSK	135	0	17.25	17.41	17.08	18.5	0.0	
100	PI/2 BPSK	135	69	17.32	17.39	17.24	18.5	0.0	
100	PI/2 BPSK	135	138	17.15	17.44	17.16			
100	PI/2 BPSK	270	0	17.34	17.43	17.14	18.5	0.0	
100	QPSK	1	1	17.34	17.34	17.15			
100	QPSK	1	137	17.12	17.46	17.18	18.5	0.0	
100	QPSK	1	271	17.31	17.41	17.19			
100	QPSK	135	0	17.33	17.30	17.13	18.5	0.0	
100	QPSK	135	69	17.16	17.38	17.18	18.5	0.0	
100	QPSK	135	138	17.32	17.27	17.12	18.5	0.0	
100	QPSK	270	0	17.30	17.32	17.18			
100	16QAM	1	1	17.29	17.32	17.31	18.5	0.0	
100	64QAM	1	1	17.22	17.30	17.28	18.5	0.0	
100	256QAM	1	1	17.22	17.27	17.10	18.5	0.0	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	123	17.28	17.29	17.29	18.5	0.0	
Channel				507204	518598	528996			
Frequency (MHz)				2538.02	2592.99	2646.99			
80	QPSK	1	109	17.16	17.28	17.09	18.5	0.0	
Channel				506200	518598	531996			
Frequency (MHz)				2526	2592.99	2659.98			
80	QPSK	1	81	17.19	17.27	17.21	18.5	0.0	
Channel				504204	518598	532996			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	67	17.15	17.43	17.31	18.5	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2515.01	2592.99	2670			
40	QPSK	1	53	17.22	17.40	17.16	18.5	0.0	
Channel				501204	518598	535996			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	26	17.30	17.31	17.20	18.5	0.0	
Channel				500700	518598	536498			
Frequency (MHz)				2503.05	2592.99	2682.99			
15	QPSK	1	19	17.18	17.30	17.08	18.5	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	12	22.49	22.67	22.47	18.5	0.0	



Par270 n77 PC2&3 Ant2 DSI4									
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				656000	666000	662000			
Frequency (MHz)				3750	3550	3950			
100	PI/2 BPSK	1	1	17.60	17.73	17.66			
100	PI/2 BPSK	1	137	17.59	17.71	17.69	19.0	0.0	
100	PI/2 BPSK	1	271	17.60	17.69	17.75			
100	PI/2 BPSK	135	0	17.69	17.73	17.75	19.0	0.0	
100	PI/2 BPSK	135	69	17.50	17.65	17.63	19.0	0.0	
100	PI/2 BPSK	135	138	17.55	17.77	17.62			
100	PI/2 BPSK	270	0	17.56	17.73	17.68	19.0	0.0	
100	QPSK	1	1	17.49	17.69	17.63			
100	QPSK	1	137	17.50	17.61	17.78	19.0	0.0	
100	QPSK	1	271	17.61	17.72	17.76			
100	QPSK	135	0	17.54	17.65	17.71	19.0	0.0	
100	QPSK	135	69	17.61	17.77	17.57	19.0	0.0	
100	QPSK	135	138	17.63	17.68	17.61	19.0	0.0	
100	QPSK	270	0	17.57	17.64	17.52			
100	16QAM	1	1	17.62	17.71	17.67	19.0	0.0	
100	64QAM	1	1	17.50	17.77	17.59	19.0	0.0	
100	256QAM	1	1	17.63	17.64	17.57	19.0	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	17.61	17.60	17.63	19.0	0.0	
Channel				646334	656000	662968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	17.64	17.63	17.73	19.0	0.0	
Channel				646668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	17.58	17.75	17.57	19.0	0.0	
Channel				646334	656000	663968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	17.69	17.70	17.60	19.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3950			
40	QPSK	1	53	17.65	17.80	17.76	19.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	17.53	17.73	17.65	19.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	17.68	17.60	17.62	19.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	17.69	17.66	17.55	19.0	0.0	

Part27Q n77 PC2&3 Ant2 DSI4									
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	633668			
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1	17.55					
100	PI/2 BPSK	1	137	17.46			19.0	0.0	
100	PI/2 BPSK	1	271	17.46					
100	PI/2 BPSK	135	0	17.46			19.0	0.0	
100	PI/2 BPSK	135	69	17.45			19.0	0.0	
100	PI/2 BPSK	135	138	17.61					
100	PI/2 BPSK	270	0	17.63			19.0	0.0	
100	QPSK	1	1	17.49					
100	QPSK	1	137	17.65			19.0	0.0	
100	QPSK	1	271	17.54					
100	QPSK	135	0	17.45			19.0	0.0	
100	QPSK	135	69	17.46			19.0	0.0	
100	QPSK	135	138	17.45			19.0	0.0	
100	QPSK	270	0	17.55					
100	16QAM	1	1	17.63			19.0	0.0	
100	64QAM	1	1	17.53			19.0	0.0	
100	256QAM	1	1	17.52			19.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123	17.41	17.51	17.41	19.0	0.0	
Channel				632968	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109	17.38	17.51	17.37	19.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	17.49	17.43	17.32	19.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67	17.48	17.37	17.49	19.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	17.53	17.39	17.46	19.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	17.43	17.49	17.32	19.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19	17.35	17.48	17.44	19.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12	17.40	17.29	17.53	19.0	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	17.71				
100	PI/2 BPSK	1	137	17.83			19.0	0.0
100	PI/2 BPSK	1	271	17.75				
100	PI/2 BPSK	135	0	17.56			19.0	0.0
100	PI/2 BPSK	135	69	17.51			19.0	0.0
100	PI/2 BPSK	135	138	17.56				
100	PI/2 BPSK	270	0	17.62			19.0	0.0
100	QPSK	1	1	17.80				
100	QPSK	1	137	17.76			19.0	0.0
100	QPSK	1	271	17.53			18.0	1.0
100	QPSK	135	0	17.56			19.0	0.0
100	QPSK	135	69	17.69			19.0	0.0
100	QPSK	135	138	17.68			18.0	1.0
100	QPSK	270	0	17.61			19.0	0.0
100	16QAM	1	1	17.56			19.0	0.0
100	64QAM	1	1	17.53			19.0	0.0
100	256QAM	1	1	17.58			19.0	0.0
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	123	17.63	17.72	17.75	19.0	0.0
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	109	17.45	17.68	17.70	19.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	81	17.52	17.53	17.60	19.0	0.0
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	67	17.58	17.62	17.70	19.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	53	17.65	17.63	17.59	19.0	0.0
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	26	17.46	17.55	17.59	19.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	19	17.52	17.60	17.63	19.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	12	17.49	17.57	17.60	19.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1	17.45				
100	PI/2 BPSK	1	137	17.45			19.0	0.0
100	PI/2 BPSK	1	271	17.51				
100	PI/2 BPSK	135	0	17.50			19.0	0.0
100	PI/2 BPSK	135	69	17.48			19.0	0.0
100	PI/2 BPSK	135	138	17.52				
100	PI/2 BPSK	270	0	17.59			19.0	0.0
100	QPSK	1	1	17.57				
100	QPSK	1	137	17.67			19.0	0.0
100	QPSK	1	271	17.50			18.0	1.0
100	QPSK	135	0	17.51			19.0	0.0
100	QPSK	135	69	17.52			19.0	0.0
100	QPSK	135	138	17.51			18.0	1.0
100	QPSK	270	0	17.46			19.0	0.0
100	16QAM	1	1	17.44			19.0	0.0
100	64QAM	1	1	17.56			19.0	0.0
100	256QAM	1	1	17.49			19.0	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	17.64	17.50	17.52	19.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	17.57	17.49	17.45	19.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	17.44	17.24	17.48	19.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	17.57	17.41	17.40	19.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	17.56	17.42	17.30	19.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	17.43	17.30	17.35	19.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	17.60	17.52	17.30	19.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	17.47	17.44	17.54	19.0	0.0



Par270 n77 PC2&3 Ant3 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	18.80	18.79	19.16			
100	PI/2 BPSK	1	137	18.76	19.12	18.80	19.5	0.0	
100	PI/2 BPSK	1	271	18.90	19.12	18.86			
100	PI/2 BPSK	135	0	19.01	19.05	18.88	19.5	0.0	
100	PI/2 BPSK	135	69	18.85	18.82	18.59	19.5	0.0	
100	PI/2 BPSK	135	138	18.94	18.84	19.12			
100	PI/2 BPSK	270	0	18.80	18.92	19.11	19.5	0.0	
100	QPSK	1	1	18.76	18.95	18.91			
100	QPSK	1	137	18.72	19.19	19.05	19.5	0.0	
100	QPSK	1	271	19.05	18.94	19.15			
100	QPSK	135	0	18.96	18.89	18.79	19.5	0.0	
100	QPSK	135	69	18.79	18.91	18.83	19.5	0.0	
100	QPSK	135	138	18.82	18.86	18.90			
100	QPSK	270	0	18.75	18.84	18.83	19.5	0.0	
100	16QAM	1	1	18.82	18.96	19.06	19.5	0.0	
100	64QAM	1	1	18.82	19.02	18.80	19.5	0.0	
100	256QAM	1	1	18.89	19.07	18.96	19.5	0.0	
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	18.78	18.95	19.08	19.5	0.0	
Channel				649334	656000	662080	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	18.92	18.88	18.90	19.5	0.0	
Channel				648688	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	18.85	18.88	19.10	19.5	0.0	
Channel				647334	656000	663500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	18.83	18.90	18.95	19.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	18.83	18.91	19.05	19.5	0.0	
Channel				647334	656000	664688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	18.92	18.91	18.96	19.5	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	18.99	18.90	18.93	19.5	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	18.98	18.89	18.97	19.5	0.0	

Part27Q n77 PC2&3 Ant3 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334	633334	633334			
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1			18.79			
100	PI/2 BPSK	1	137			18.82	19.5	0.0	
100	PI/2 BPSK	1	271			18.76			
100	PI/2 BPSK	135	0			18.64	19.5	0.0	
100	PI/2 BPSK	135	69			18.82	19.5	0.0	
100	PI/2 BPSK	135	138			18.70			
100	PI/2 BPSK	270	0			18.80	19.5	0.0	
100	QPSK	1	1			18.65			
100	QPSK	1	137			18.63	19.5	0.0	
100	QPSK	1	271			18.70			
100	QPSK	135	0			18.74	19.5	0.0	
100	QPSK	135	69			18.78	19.5	0.0	
100	QPSK	135	138			18.72	19.5	0.0	
100	QPSK	270	0			18.71	19.5	0.0	
100	16QAM	1	1			18.65	19.5	0.0	
100	64QAM	1	1			18.71	19.5	0.0	
100	256QAM	1	1			18.75	19.5	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123	18.64	18.64	18.72	19.5	0.0	
Channel				632968	633334	633600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109	18.41	18.60	18.66	19.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	18.62	18.41	18.57	19.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67	18.42	18.48	18.68	19.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	18.62	18.48	18.65	19.5	0.0	
Channel				630968	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	18.43	18.44	18.55	19.5	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19	18.65	18.65	18.65	19.5	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12	18.66	18.46	18.59	19.5	0.0	



Part270 n78 PC2&3 Ant3 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	Pi/2 BPSK	1	1	19.01	19.01	18.83			
100	Pi/2 BPSK	1	137		19.00		19.5	0.0	
100	Pi/2 BPSK	1	271		18.94				
100	Pi/2 BPSK	135	0		18.91		19.5	0.0	
100	Pi/2 BPSK	135	69		18.86		19.5	0.0	
100	Pi/2 BPSK	135	138		18.88				
100	Pi/2 BPSK	270	0		18.90		19.5	0.0	
100	QPSK	1	1		18.86				
100	QPSK	1	137		19.05		19.5	0.0	
100	QPSK	1	271		18.83				
100	QPSK	135	0		19.00		19.5	0.0	
100	QPSK	135	69		19.01		19.5	0.0	
100	QPSK	135	138		18.90		19.5	0.0	
100	QPSK	270	0		18.92				
100	16QAM	1	1		18.84		19.5	0.0	
100	64QAM	1	1		18.92		19.5	0.0	
100	256QAM	1	1		18.90		19.5	0.0	
Channel				649668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	123	19.00	18.84	18.86	19.5	0.0	
Channel				649334	650000	650568	Tune-up limit	MPR	
Frequency (MHz)				3749.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	109	18.95	18.89	18.94	19.5	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	81	18.90	18.64	18.86	19.5	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	67	18.84	18.88	19.00	19.5	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3760	(dBm)	(dB)	
40	QPSK	1	53	18.85	18.97	18.99	19.5	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	26	18.61	18.87	18.91	19.5	0.0	
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	19	18.84	19.03	18.97	19.5	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	12	18.88	18.82	18.87	19.5	0.0	

Part27Q 78 PC2&3 Ant3 DSI4									
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		18.63				
100	Pi/2 BPSK	1	137		18.80		19.5	0.0	
100	Pi/2 BPSK	1	271		18.71				
100	Pi/2 BPSK	135	0		18.62		19.5	0.0	
100	Pi/2 BPSK	135	69		18.70		19.5	0.0	
100	Pi/2 BPSK	135	138		18.85				
100	Pi/2 BPSK	270	0		18.80		19.5	0.0	
100	QPSK	1	1		18.64				
100	QPSK	1	137		18.86		19.5	0.0	
100	QPSK	1	271		18.64				
100	QPSK	135	0		18.72		19.5	0.0	
100	QPSK	135	69		18.73		19.5	0.0	
100	QPSK	135	138		18.71		19.5	0.0	
100	QPSK	270	0		18.66				
100	16QAM	1	1		18.73		19.5	0.0	
100	64QAM	1	1		18.62		19.5	0.0	
100	256QAM	1	1		18.84		19.5	0.0	
Channel				633000	633334	633668	Tune-up limit	MPR	
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)	
90	QPSK	1	123	18.79	18.84	18.72	19.5	0.0	
Channel				632668	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	109	18.67	18.80	18.85	19.5	0.0	
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	81	18.67	18.70	18.60	19.5	0.0	
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	67	18.67	18.82	18.85	19.5	0.0	
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	53	18.79	18.73	18.59	19.5	0.0	
Channel				630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	26	18.75	18.82	18.50	19.5	0.0	
Channel				630500	633334	636168	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)	
15	QPSK	1	19	18.77	18.77	18.72	19.5	0.0	
Channel				630334	633334	636334	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)	
10	QPSK	1	12	18.66	18.78	18.57	19.5	0.0	



n5 Ant4 Default power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				16650	16700	16750		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.94	24.14	24.11	25.5	0.0
20	PI/2 BPSK	1	26	23.95	24.04	23.86		
20	PI/2 BPSK	1	49	23.74	23.96	23.83		
20	PI/2 BPSK	25	0	23.47	23.64	23.50	25.0	0.5
20	PI/2 BPSK	25	13	24.07	24.10	23.94	25.5	0.0
20	PI/2 BPSK	25	26	23.50	23.61	23.42	25.0	0.5
20	PI/2 BPSK	50	0	23.54	23.67	23.64		
20	QPSK	1	1	24.03	24.22	24.20		
20	QPSK	1	26	24.03	24.06	23.92	25.5	0.0
20	QPSK	1	49	23.82	23.96	23.74		
20	QPSK	25	0	22.92	23.13	23.02		
20	QPSK	25	13	23.87	24.08	23.86	25.5	0.0
20	QPSK	25	26	22.81	23.05	22.98	24.5	1.0
20	QPSK	50	0	22.87	23.10	22.91		
20	16QAM	1	1	22.58	22.65	22.52		
20	64QAM	1	1	21.10	21.20	21.02	23.0	2.5
20	256QAM	1	1	19.73	19.75	19.58	21.0	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.95	24.11	24.13	25.5	0.0
Channel				16590	16700	16800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	24.02	24.16	24.09	25.5	0.0

n7 Ant4 DSI4								
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				50200	50700	51200		
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	16.95	16.96	16.84	17.5	0.0
20	PI/2 BPSK	1	26	16.85	16.89	16.78		
20	PI/2 BPSK	1	49	16.85	16.93	16.90		
20	PI/2 BPSK	25	0	16.96	16.85	16.85	17.5	0.0
20	PI/2 BPSK	25	13	16.85	17.00	16.95	17.5	0.0
20	PI/2 BPSK	25	26	16.92	16.92	16.95		
20	PI/2 BPSK	50	0	16.97	16.82	16.75		
20	QPSK	1	1	17.01	17.08	16.86	17.5	0.0
20	QPSK	1	26	16.80	16.86	16.79		
20	QPSK	1	49	16.79	16.89	16.97		
20	QPSK	25	0	16.86	16.88	16.85	17.5	0.0
20	QPSK	25	13	16.86	16.95	16.82	17.5	0.0
20	QPSK	25	26	16.87	17.03	16.87		
20	QPSK	50	0	16.92	16.88	16.91		
20	16QAM	1	1	16.83	16.87	16.77	17.5	0.0
20	64QAM	1	1	16.93	16.92	16.75	17.5	0.0
20	256QAM	1	1	16.81	16.84	16.84	17.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	16.78	16.88	16.80	17.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	16.90	17.01	16.88	17.5	0.0



n38 Ant4 DSI4									
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				516500	518000	522000			
Frequency (MHz)				2590	2595	2610			
20	PI/2 BPSK	1	1	14.32	14.56	14.13			
20	PI/2 BPSK	1	26	14.33	14.47	14.30	15.5	0.0	
20	PI/2 BPSK	1	49	14.30	14.43	14.10			
20	PI/2 BPSK	25	0	14.33	14.57	14.19	15.5	0.0	
20	PI/2 BPSK	25	13	14.40	14.51	14.35	15.5	0.0	
20	PI/2 BPSK	25	26	14.35	14.53	14.19			
20	PI/2 BPSK	50	0	14.30	14.56	14.32	15.5	0.0	
20	QPSK	1	1	14.36	14.54	14.12			
20	QPSK	1	26	14.38	14.45	14.25	15.5	0.0	
20	QPSK	1	49	14.45	14.53	14.27			
20	QPSK	25	0	14.28	14.39	14.14	15.5	0.0	
20	QPSK	25	13	14.39	14.53	14.35	15.5	0.0	
20	QPSK	25	26	14.23	14.42	14.10			
20	QPSK	50	0	14.45	14.63	14.14			
20	16QAM	1	1	14.30	14.54	14.20	15.5	0.0	
20	64QAM	1	1	14.27	14.53	14.34	15.5	0.0	
20	256QAM	1	1	14.42	14.55	14.26	15.5	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	PI/2 BPSK	1	1	14.38	14.44	14.32	15.5	0.0	
Channel				515504	518000	522396			
Frequency (MHz)				2575.02	2595	2614.98			
10	PI/2 BPSK	1	1	14.29	14.50	14.30	15.5	0.0	

n41 PC2&3 Ant4 DSI4									
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				506202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	14.63	14.73	14.66			
100	PI/2 BPSK	1	137	14.55	14.81	14.66	16.0	0.0	
100	PI/2 BPSK	1	271	14.51	14.62	14.87			
100	PI/2 BPSK	135	0	14.70	14.91	14.86	16.0	0.0	
100	PI/2 BPSK	135	69	14.48	14.85	14.51	16.0	0.0	
100	PI/2 BPSK	135	138	14.60	14.75	14.91			
100	PI/2 BPSK	270	0	14.67	14.70	14.90	16.0	0.0	
100	QPSK	1	1	14.63	14.81	14.92			
100	QPSK	1	137	14.70	14.94	14.71	16.0	0.0	
100	QPSK	1	271	14.72	14.88	14.81			
100	QPSK	135	0	14.48	14.81	14.70	16.0	0.0	
100	QPSK	135	69	14.66	14.88	14.83	16.0	0.0	
100	QPSK	135	138	14.58	14.74	14.80			
100	QPSK	270	0	14.61	14.64	14.73	16.0	0.0	
100	16QAM	1	1	14.88	14.85	14.86	16.0	0.0	
100	64QAM	1	1	14.54	14.87	14.82	16.0	0.0	
100	256QAM	1	1	14.62	14.78	14.67	16.0	0.0	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	123	14.72	14.89	14.77	16.0	0.0	
Channel				507204	518598	528996			
Frequency (MHz)				2538.02	2592.99	2649.99			
80	QPSK	1	109	14.63	14.85	14.89	16.0	0.0	
Channel				506200	518598	531996			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	81	14.84	14.83	14.82	16.0	0.0	
Channel				504204	518598	532996			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	67	14.55	14.76	14.72	16.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	53	14.49	14.89	14.87	16.0	0.0	
Channel				501204	518598	535996			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	26	14.69	14.80	14.86	16.0	0.0	
Channel				500700	518598	536498			
Frequency (MHz)				2503.05	2592.99	2682.98			
15	QPSK	1	19	14.48	14.89	14.88	16.0	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	12	14.60	14.78	14.92	16.0	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	15.50	15.52	15.39		
100	PI/2 BPSK	1	137	15.49	15.48	15.38	17.0	0.0
100	PI/2 BPSK	1	271	15.40	15.55	15.30		
100	PI/2 BPSK	135	0	15.49	15.47	15.42	17.0	0.0
100	PI/2 BPSK	135	69	15.41	15.45	15.31	17.0	0.0
100	PI/2 BPSK	135	138	15.39	15.43	15.36		
100	PI/2 BPSK	270	0	15.38	15.54	15.40	17.0	0.0
100	QPSK	1	1	15.45	15.49	15.33		
100	QPSK	1	137	15.55	15.59	15.45	17.0	0.0
100	QPSK	1	271	15.46	15.44	15.40		
100	QPSK	135	0	15.42	15.45	15.36	17.0	0.0
100	QPSK	135	69	15.41	15.53	15.39	17.0	0.0
100	QPSK	135	138	15.51	15.47	15.35		
100	QPSK	270	0	15.49	15.53	15.30	17.0	0.0
100	16QAM	1	1	15.39	15.48	15.42	17.0	0.0
100	64QAM	1	1	15.44	15.49	15.31	17.0	0.0
100	256QAM	1	1	15.46	15.42	15.35	17.0	0.0
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	123	15.49	15.53	15.29	17.0	0.0
Channel				649334	650000	650596	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	15.48	15.50	15.36	17.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	15.43	15.49	15.35	17.0	0.0
Channel				3725.01	3840	3955.02	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	15.50	15.54	15.31	17.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	15.52	15.51	15.34	17.0	0.0
Channel				647334	650000	653596	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	15.41	15.44	15.29	17.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	15.52	15.44	15.31	17.0	0.0
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	15.41	15.48	15.29	17.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633334	633668		
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1	15.46				
100	PI/2 BPSK	1	137	15.37			17.0	0.0
100	PI/2 BPSK	1	271	15.38				
100	PI/2 BPSK	135	0	15.44				
100	PI/2 BPSK	135	69	15.39			17.0	0.0
100	PI/2 BPSK	135	138	15.44				
100	PI/2 BPSK	270	0	15.39			17.0	0.0
100	QPSK	1	1	15.32				
100	QPSK	1	137	15.48			17.0	0.0
100	QPSK	1	271	15.43				
100	QPSK	135	0	15.38				
100	QPSK	135	69	15.40			17.0	0.0
100	QPSK	135	138	15.37				
100	QPSK	270	0	15.36			17.0	0.0
100	16QAM	1	1	15.45			17.0	0.0
100	64QAM	1	1	15.45			17.0	0.0
100	256QAM	1	1	15.44			15.5	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	15.39	15.26	15.34	17.0	0.0
Channel				632596	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	15.35	15.29	15.40	17.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	15.27	15.24	15.44	17.0	0.0
Channel				631659	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	15.39	15.29	15.44	17.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	15.26	15.29	15.34	17.0	0.0
Channel				630968	633334	635960	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	15.37	15.24	15.43	17.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	15.32	15.37	15.41	17.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	15.32	15.37	15.34	17.0	0.0



Part270 n78 PC3 Ant5 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	15.44					
100	PI/2 BPSK	1	137	15.46			17.0	0.0	
100	PI/2 BPSK	1	271	15.44					
100	PI/2 BPSK	135	0	15.42			17.0	0.0	
100	PI/2 BPSK	135	69	15.44			17.0	0.0	
100	PI/2 BPSK	135	138	15.44					
100	PI/2 BPSK	270	0	15.43			17.0	0.0	
100	QPSK	1	1	15.40					
100	QPSK	1	137	15.53			17.0	0.0	
100	QPSK	1	271	15.50					
100	QPSK	135	0	15.42			17.0	0.0	
100	QPSK	135	69	15.45			17.0	0.0	
100	QPSK	135	138	15.38			17.0	0.0	
100	QPSK	270	0	15.40			17.0	0.0	
100	16QAM	0	1	15.49			17.0	0.0	
100	64QAM	1	1	15.39			17.0	0.0	
100	256QAM	1	1	15.42			17.0	0.0	
Channel				649668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	123	15.52	15.49	15.47	17.0	0.0	
Channel				649334	650000	650568	Tune-up limit	MPR	
Frequency (MHz)				3749.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	109	15.39	15.49	15.48	17.0	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	81	15.41	15.48	15.41	17.0	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	67	15.48	15.50	15.47	17.0	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3760	(dBm)	(dB)	
40	QPSK	1	53	15.46	15.43	15.49	17.0	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	26	15.50	15.49	15.47	17.0	0.0	
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	19	15.43	15.45	15.42	17.0	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	12	15.48	15.44	15.41	17.0	0.0	

Part27Q 78 PC3 Ant5 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1	15.44					
100	PI/2 BPSK	1	137	15.30			24.0	0.0	
100	PI/2 BPSK	1	271	15.30					
100	PI/2 BPSK	135	0	15.29			24.0	0.0	
100	PI/2 BPSK	135	69	15.32					
100	PI/2 BPSK	135	138	15.29					
100	PI/2 BPSK	270	0	15.29			24.0	0.0	
100	QPSK	1	1	15.33					
100	QPSK	1	137	15.38			24.0	0.0	
100	QPSK	1	271	15.32					
100	QPSK	135	0	15.36					
100	QPSK	135	69	15.35			24.0	0.0	
100	QPSK	135	138	15.29					
100	QPSK	270	0	15.30			24.0	0.0	
100	16QAM	1	1	15.31			24.0	0.0	
100	64QAM	1	1	15.31			24.0	0.0	
100	256QAM	1	1	15.28			22.5	1.5	
Channel				633000	633334	633668	Tune-up limit	MPR	
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)	
90	QPSK	1	123	15.09	15.16	15.24	24.0	0.0	
Channel				632668	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	109	15.22	15.22	15.31	24.0	0.0	
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	81	15.15	15.19	15.19	24.0	0.0	
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	67	15.12	15.27	15.28	24.0	0.0	
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	53	15.19	15.27	15.21	24.0	0.0	
Channel				630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	26	15.19	15.23	15.20	24.0	0.0	
Channel				630500	633334	636168	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)	
15	QPSK	1	19	15.12	15.24	15.31	24.0	0.0	
Channel				630334	633334	636334	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)	
10	QPSK	1	12	15.21	15.23	15.29	24.0	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				656000	666000	662000		
Frequency (MHz)				3750	3650	3950		
100	PI/2 BPSK	1	1	17.43	17.53	17.47		
100	PI/2 BPSK	1	137	17.54	17.55	17.56	18.0	0.0
100	PI/2 BPSK	1	271	17.45	17.56	17.53		
100	PI/2 BPSK	135	0	17.47	17.54	17.56	18.0	0.0
100	PI/2 BPSK	135	69	17.43	17.52	17.51	18.0	0.0
100	PI/2 BPSK	135	138	17.45	17.53	17.56		
100	PI/2 BPSK	270	0	17.49	17.54	17.50	18.0	0.0
100	QPSK	1	1	17.45	17.47	17.49		
100	QPSK	1	137	17.49	17.57	17.49	18.0	0.0
100	QPSK	1	271	17.46	17.46	17.44		
100	QPSK	135	0	17.52	17.52	17.50	18.0	0.0
100	QPSK	135	69	17.44	17.54	17.46	18.0	0.0
100	QPSK	135	138	17.46	17.48	17.48	18.0	0.0
100	QPSK	270	0	17.51	17.56	17.44		
100	16QAM	1	1	17.46	17.52	17.56	18.0	0.0
100	64QAM	1	1	17.49	17.52	17.56	18.0	0.0
100	256QAM	1	1	17.50	17.56	17.44	18.0	0.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	123	17.46	17.50	17.50	18.0	0.0
Channel				648334	656000	662968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	17.53	17.59	17.48	18.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	17.50	17.56	17.44	18.0	0.0
Channel				648334	656000	663968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	17.50	17.57	17.49	18.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	17.41	17.54	17.53	18.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	17.55	17.52	17.55	18.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	17.48	17.53	17.46	18.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	17.55	17.48	17.44	18.0	0.0

Part27Q n77 PC3 Ant6 DSI4

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	633500		
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1			16.47		
100	PI/2 BPSK	1	137			16.46	18.0	0.0
100	PI/2 BPSK	1	271			16.42		
100	PI/2 BPSK	135	0			16.37	18.0	0.0
100	PI/2 BPSK	135	69			16.40		
100	PI/2 BPSK	135	138			16.41		
100	PI/2 BPSK	270	0			16.40	18.0	0.0
100	QPSK	1	1			16.44		
100	QPSK	1	137			16.48	18.0	0.0
100	QPSK	1	271			16.40		
100	QPSK	135	0			16.37	18.0	0.0
100	QPSK	135	69			16.40		
100	QPSK	135	138			16.30	18.0	0.0
100	QPSK	270	0			16.42		
100	16QAM	1	1			16.39	18.0	0.0
100	64QAM	1	1			16.44	18.0	0.0
100	256QAM	1	1			16.37	18.0	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	16.38	16.46	16.39	18.0	0.0
Channel				632968	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	16.33	16.37	16.29	18.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	16.33	16.36	16.25	18.0	0.0
Channel				631668	633334	635500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	16.34	16.39	16.36	18.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	16.29	16.40	16.25	18.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	16.25	16.40	16.25	18.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	16.23	16.40	16.25	18.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	16.30	16.36	16.29	18.0	0.0



Part270 n78 PC3 Ant6 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)					650000			
100	PI/2 BPSK	1	1	17.52				
100	PI/2 BPSK	1	137	17.48			18.0	0.0
100	PI/2 BPSK	1	271	17.42				
100	PI/2 BPSK	135	0	17.46			18.0	0.0
100	PI/2 BPSK	135	69	17.46			18.0	0.0
100	PI/2 BPSK	135	138	17.43				
100	PI/2 BPSK	270	0	17.50			18.0	0.0
100	QPSK	1	1	17.41				
100	QPSK	1	137	17.55			18.0	0.0
100	QPSK	1	271	17.48				
100	QPSK	135	0	17.38			18.0	0.0
100	QPSK	135	69	17.45			18.0	0.0
100	QPSK	135	138	17.44				
100	QPSK	270	0	17.42			18.0	0.0
100	16QAM	0	1	17.44			18.0	0.0
100	64QAM	1	1	17.50			18.0	0.0
100	256QAM	1	1	17.48			18.0	0.0
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	123	17.50	17.46	17.46	18.0	0.0
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	109	17.37	17.29	17.37	18.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	81	17.38	17.33	17.30	18.0	0.0
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	67	17.45	17.30	17.37	18.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	53	17.39	17.42	17.35	18.0	0.0
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	26	17.43	17.42	17.34	18.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.61		
15	QPSK	1	19	17.45	17.37	17.41	18.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	12	17.41	17.40	17.29	18.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)					633334			
100	PI/2 BPSK	1	1	16.40				
100	PI/2 BPSK	1	137	16.31			18.0	0.0
100	PI/2 BPSK	1	271	16.35				
100	PI/2 BPSK	135	0	16.41			18.0	0.0
100	PI/2 BPSK	135	69	16.30			18.0	0.0
100	PI/2 BPSK	135	138	16.38				
100	PI/2 BPSK	270	0	16.28			18.0	0.0
100	QPSK	1	1	16.36				
100	QPSK	1	137	16.42			18.0	0.0
100	QPSK	1	271	16.36				
100	QPSK	135	0	16.37			18.0	0.0
100	QPSK	135	69	16.41			18.0	0.0
100	QPSK	135	138	16.39				
100	QPSK	270	0	16.30			18.0	0.0
100	16QAM	1	1	16.38			18.0	0.0
100	64QAM	1	1	16.40			18.0	0.0
100	256QAM	1	1	16.38			18.0	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	16.32	16.33	16.39	18.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	16.23	16.17	16.31	18.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	16.20	16.24	16.24	18.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	16.25	16.23	16.27	18.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	16.24	16.29	16.31	18.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	16.17	16.21	16.22	18.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	16.24	16.24	16.34	18.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	16.27	16.20	16.23	18.0	0.0



WLAN/Bluetooth Power

2.4GHz WLAN				full power/receiver off		receiver on		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11b 1Mbps	1	2412	19.80	20.50	12.52	14.00	100.00	
	6	2437	19.22	21.00				
	11	2462	19.01	21.00				
802.11g 6Mbps	1	2412	17.74	19.50	12.71	14.00	97.46	
	6	2437	18.12	19.50				
	11	2462	17.97	19.50				
802.11n-HT20 MCS0	1	2412	16.62	18.50	12.71	14.00	97.30	
	6	2437	17.16	18.50				
	11	2462	16.90	18.50				

5.2GHz WLAN				full power/receiver off		receiver on		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	36	5180	15.69	17.50	15.62	17.00	97.46	
	40	5200	15.91	17.50				
	44	5220	15.79	17.50				
	48	5240	15.81	17.50				
802.11n-HT20 MCS0	36	5180	15.81	17.50	15.62	17.00	97.28	
	40	5200	15.73	17.50				
	44	5220	15.84	17.50				
802.11n-HT40 MCS0	48	5240	15.72	17.50	15.62	17.00	94.70	
	38	5190	15.82	17.50				
802.11ac-VHT20 MCS0	46	5230	15.74	17.50	15.62	17.00	97.30	
	36	5180	15.89	17.50				
	40	5200	15.81	17.50				
802.11ac-VHT40 MCS0	44	5220	15.74	17.50	15.62	17.00	94.97	
	48	5240	15.64	17.50				
802.11ac-VHT80 MCS0	38	5190	15.84	17.50	15.62	17.00	90.69	
	42	5210	16.08	17.50				

5.3GHz WLAN				full power/receiver off		receiver on		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	52	5260	16.76	18.50	15.43	17.00	97.46	
	56	5280	16.71	18.50				
	60	5300	17.05	19.00				
	64	5320	16.99	18.50				
802.11n-HT20 MCS0	52	5260	16.12	17.50	15.43	17.00	97.28	
	56	5280	16.03	17.50				
	60	5300	16.03	17.50				
802.11n-HT40 MCS0	64	5320	15.91	17.50	15.43	17.00	94.70	
	54	5270	16.11	17.50				
802.11ac-VHT20 MCS0	62	5310	15.94	17.50	15.43	17.00	97.30	
	52	5260	16.17	17.50				
	56	5280	16.04	17.50				
	60	5300	15.99	17.50				
802.11ac-VHT40 MCS0	64	5320	15.90	17.50	15.43	17.00	94.97	
	54	5270	16.06	17.50				
802.11ac-VHT80 MCS0	62	5310	15.94	17.50	15.43	17.00	90.69	
	58	5290	15.84	17.50				

5.5GHz WLAN				full power/receiver off		receiver on		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	100	5500	17.00	19.00	13.23	15.50	97.46	
	116	5580	17.20	19.00				
	124	5620	16.92	18.50				
	132	5660	17.15	18.50				
	140	5700	16.81	18.50				
	144	5720	16.80	18.50				
802.11n-HT20 MCS0	100	5500	15.83	17.50	13.23	15.50	97.28	
	116	5580	15.95	17.50				
	124	5620	15.83	17.50				
	132	5660	16.10	17.50				
	140	5700	16.17	17.50				
	144	5720	16.17	17.50				
802.11n-HT40 MCS0	102	5510	16.17	17.50	13.23	15.50	94.70	
	110	5550	16.14	17.50				
	126	5630	15.86	17.50				
	134	5670	16.00	17.50				
802.11ac-VHT20 MCS0	142	5710	16.20	17.50	13.23	15.50	97.30	
	100	5500	15.84	17.50				
	116	5580	16.04	17.50				
	124	5620	15.80	17.50				
	132	5660	16.02	17.50				
	140	5700	16.15	17.50				
802.11ac-VHT40 MCS0	144	5720	16.20	17.50	13.23	15.50	94.97	
	102	5510	16.17	17.50				
	110	5550	16.19	17.50				
	126	5630	15.87	17.50				
802.11ac-VHT80 MCS0	134	5670	16.07	17.50	13.23	15.50	90.69	
	142	5710	16.22	17.50				
	106	5530	16.02	17.50				
	122	5610	15.98	17.50				
	138	5690	15.89	17.50	14.12	15.50		

5.8GHz WLAN				full power/receiver off		receiver on		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	149	5745	14.86	16.50	14.37	16.00	97.46	
	157	5785	15.10	16.50				
	165	5825	15.18	16.50				
802.11n-HT20 MCS0	149	5745	14.78	16.50	14.37	16.00	97.28	
	157	5785	14.94	16.50				
	165	5825	15.07	16.50				
802.11n-HT40 MCS0	151	5755	14.95	16.50	14.37	16.00	94.70	
	159	5795	15.01	16.50				
802.11ac-VHT20 MCS0	149	5745	14.85	16.50	14.37	16.00	97.30	
	157	5785	14.97	16.50				
	165	5825	15.13	16.50				
802.11ac-VHT40 MCS0	151	5755	15.00	16.50	14.37	16.00	94.97	
	159	5795	15.06	16.50				
802.11ac-VHT80 MCS0	155	5775	14.73	16.50	14.37	16.00	90.69	

**BT 2.0**

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	10.76	8.72	8.32
	CH 39	2441	10.83	7.90	7.53
	CH 78	2480	10.65	7.98	7.92
Tune-up Limit			12	9	9

BLE_1M

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	-3.20
	CH 19	2440	-2.22
	CH 39	2480	-2.29
Tune-up Limit			-1

BLE_2M

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	-2.86
	CH 19	2440	-2.06
	CH 39	2480	-2.22
Tune-up Limit			-1.00