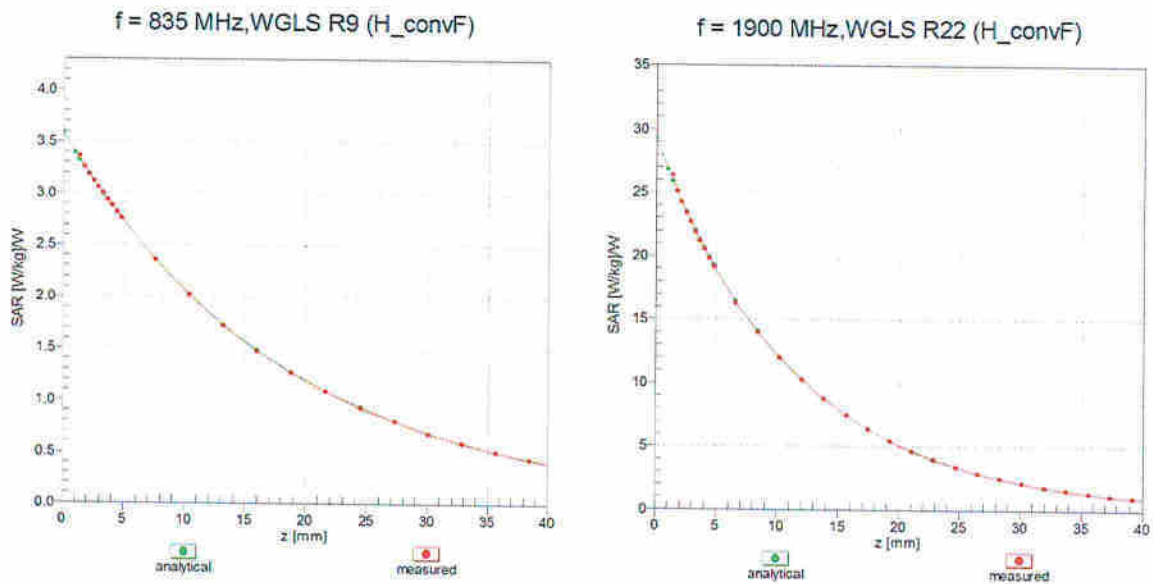
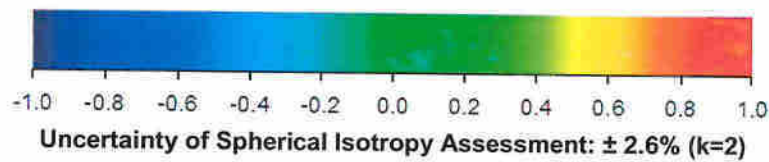
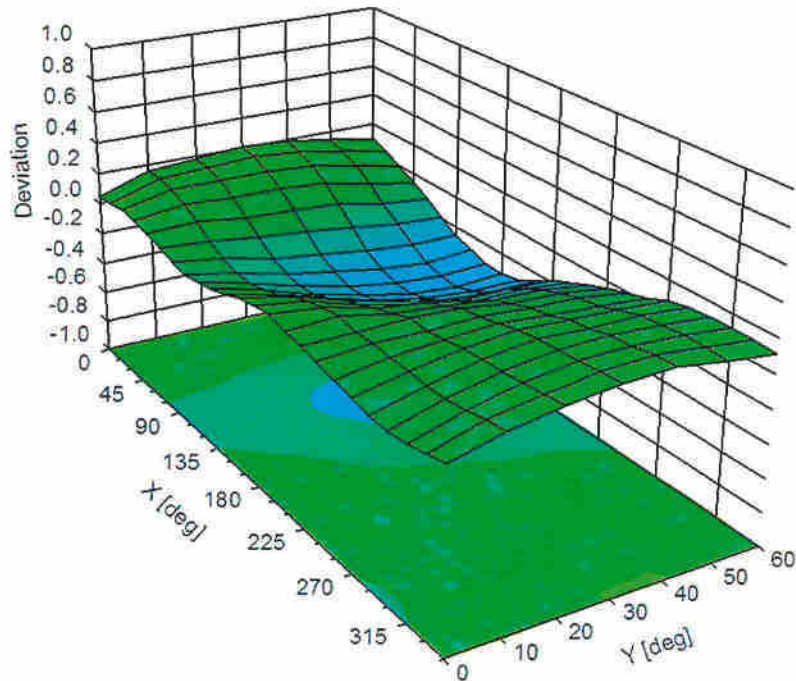


Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (ϕ, θ), f = 900 MHz



Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E (k=2)
0		CW	CW	0.00	± 4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	± 9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	± 9.6 %
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	± 9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	± 9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	± 9.6 %
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	± 9.6 %
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	± 9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	± 9.6 %
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	± 9.6 %
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	± 9.6 %
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	± 9.6 %
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	± 9.6 %
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	± 9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	± 9.6 %
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	± 9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	± 9.6 %
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	± 9.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	± 9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	± 9.6 %
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	± 9.6 %
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	± 9.6 %
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	± 9.6 %
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	± 9.6 %
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	± 9.6 %
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	± 9.6 %
10062	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10063	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	± 9.6 %
10064	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10065	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	± 9.6 %
10066	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	± 9.6 %
10067	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10069	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	± 9.6 %
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	± 9.6 %
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	± 9.6 %
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	± 9.6 %
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	± 9.6 %
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	± 9.6 %
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	± 9.6 %
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	± 9.6 %
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	± 9.6 %
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	± 9.6 %
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	± 9.6 %
10097	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
10098	DAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	± 9.6 %

10099	CAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	± 9.6 %
10100	CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10101	CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10102	CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10103	DAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10104	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
10105	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %
10108	CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	± 9.6 %
10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	± 9.6 %
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	± 9.6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10114	CAG	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10115	CAG	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	± 9.6 %
10116	CAG	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	± 9.6 %
10117	CAG	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	± 9.6 %
10118	CAD	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	± 9.6 %
10119	CAD	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	± 9.6 %
10140	CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10141	CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	± 9.6 %
10142	CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10143	CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	± 9.6 %
10144	CAC	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	± 9.6 %
10145	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	± 9.6 %
10146	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	± 9.6 %
10147	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	± 9.6 %
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10151	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	± 9.6 %
10152	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10153	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	± 9.6 %
10154	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10155	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10156	CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	± 9.6 %
10157	CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10158	CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	± 9.6 %
10160	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	± 9.6 %
10161	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10162	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	± 9.6 %
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	± 9.6 %
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	± 9.6 %
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	± 9.6 %
10169	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10170	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10171	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	± 9.6 %
10172	CAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10173	CAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10174	CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10175	CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10176	CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10177	CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10178	CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10179	AAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %

10181	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10182	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10183	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10184	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10185	CAI	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	± 9.6 %
10186	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10189	CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10193	CAE	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	± 9.6 %
10194	AAD	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	± 9.6 %
10195	CAE	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	± 9.6 %
10196	CAE	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10197	AAE	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10198	CAF	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10219	CAF	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	± 9.6 %
10220	AAF	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10221	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10222	CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	± 9.6 %
10223	CAD	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	± 9.6 %
10224	CAD	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	± 9.6 %
10225	CAD	UMTS-FDD (HSPA+)	WCDMA	5.97	± 9.6 %
10226	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	± 9.6 %
10227	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	± 9.6 %
10228	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	± 9.6 %
10229	DAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10230	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10231	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	± 9.6 %
10232	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10233	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10234	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10235	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10236	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10237	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10238	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10239	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10240	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10241	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	± 9.6 %
10242	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	± 9.6 %
10243	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	± 9.6 %
10244	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10245	CAG	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	± 9.6 %
10246	CAG	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10247	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	± 9.6 %
10248	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	± 9.6 %
10249	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10250	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	± 9.6 %
10251	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	± 9.6 %
10252	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	± 9.6 %
10254	CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	± 9.6 %
10255	CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	± 9.6 %
10256	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	± 9.6 %
10257	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	± 9.6 %
10258	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	± 9.6 %
10259	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	± 9.6 %

10260	CAG	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	± 9.6 %
10261	CAG	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10262	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	± 9.6 %
10263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	± 9.6 %
10264	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	± 9.6 %
10265	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10266	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	± 9.6 %
10267	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10269	CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	± 9.6 %
10270	CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	± 9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
10275	CAD	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	± 9.6 %
10277	CAD	PHS (QPSK)	PHS	11.81	± 9.6 %
10278	CAD	PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS	11.81	± 9.6 %
10279	CAG	PHS (QPSK, BW 884MHz, Rolloff 0.38)	PHS	12.18	± 9.6 %
10290	CAG	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	± 9.6 %
10291	CAG	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	± 9.6 %
10292	CAG	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	± 9.6 %
10293	CAG	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	± 9.6 %
10295	CAG	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	± 9.6 %
10297	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	± 9.6 %
10298	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10299	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	± 9.6 %
10300	CAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10301	CAC	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WiMAX	12.03	± 9.6 %
10302	CAB	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL)	WiMAX	12.57	± 9.6 %
10303	CAB	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	12.52	± 9.6 %
10304	CAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	11.86	± 9.6 %
10305	CAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC)	WiMAX	15.24	± 9.6 %
10306	CAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC)	WiMAX	14.67	± 9.6 %
10307	AAB	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC)	WiMAX	14.49	± 9.6 %
10308	AAB	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WiMAX	14.46	± 9.6 %
10309	AAB	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3)	WiMAX	14.58	± 9.6 %
10310	AAB	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3)	WiMAX	14.57	± 9.6 %
10311	AAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	± 9.6 %
10313	AAD	iDEN 1:3	iDEN	10.51	± 9.6 %
10314	AAD	iDEN 1:6	iDEN	13.48	± 9.6 %
10315	AAD	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc)	WLAN	1.71	± 9.6 %
10316	AAD	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	± 9.6 %
10317	AAA	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	± 9.6 %
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	± 9.6 %
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	± 9.6 %
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	± 9.6 %
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	± 9.6 %
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	± 9.6 %
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	± 9.6 %
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	± 9.6 %
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	± 9.6 %
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	± 9.6 %
10400	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc dc)	WLAN	8.37	± 9.6 %
10401	AAA	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc dc)	WLAN	8.60	± 9.6 %
10402	AAA	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc dc)	WLAN	8.53	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	± 9.6 %
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	± 9.6 %
10406	AAD	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	± 9.6 %

10410	AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10414	AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	± 9.6 %
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc)	WLAN	1.54	± 9.6 %
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10417	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long)	WLAN	8.14	± 9.6 %
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short)	WLAN	8.19	± 9.6 %
10422	AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
10424	AAE	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10425	AAE	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAE	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10431	AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAG	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10435	AAA	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10447	AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
10448	AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.53	± 9.6 %
10449	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.51	± 9.6 %
10450	AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	± 9.6 %
10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10453	AAC	Validation (Square, 10ms, 1ms)	Test	10.00	± 9.6 %
10456	AAC	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc dc)	WLAN	8.63	± 9.6 %
10457	AAC	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	± 9.6 %
10458	AAC	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	± 9.6 %
10459	AAC	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	± 9.6 %
10460	AAC	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	± 9.6 %
10461	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.30	± 9.6 %
10463	AAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 %
10464	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10465	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10466	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10467	AAA	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10468	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10469	AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 %
10470	AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10471	AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10472	AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10473	AAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10474	AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10475	AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10477	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10478	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10480	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.18	± 9.6 %
10481	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10482	AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.71	± 9.6 %
10483	AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub)	LTE-TDD	8.39	± 9.6 %
10484	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.47	± 9.6 %
10485	AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.59	± 9.6 %
10486	AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.38	± 9.6 %
10487	AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.60	± 9.6 %

10488	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.70	± 9.6 %
10489	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	± 9.6 %
10490	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.41	± 9.6 %
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	± 9.6 %
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.37	± 9.6 %
10496	AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10497	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10498	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.40	± 9.6 %
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.68	± 9.6 %
10500	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10501	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.44	± 9.6 %
10502	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.52	± 9.6 %
10503	AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.72	± 9.6 %
10504	AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	± 9.6 %
10505	AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10506	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10507	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.36	± 9.6 %
10508	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	± 9.6 %
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.99	± 9.6 %
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.49	± 9.6 %
10511	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.51	± 9.6 %
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.42	± 9.6 %
10514	AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10515	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc)	WLAN	1.58	± 9.6 %
10516	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc)	WLAN	1.57	± 9.6 %
10517	AAF	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc)	WLAN	1.58	± 9.6 %
10518	AAF	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10519	AAF	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc)	WLAN	8.39	± 9.6 %
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc)	WLAN	8.12	± 9.6 %
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc)	WLAN	7.97	± 9.6 %
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10523	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc dc)	WLAN	8.08	± 9.6 %
10524	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc dc)	WLAN	8.27	± 9.6 %
10525	AAC	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc dc)	WLAN	8.36	± 9.6 %
10526	AAF	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc dc)	WLAN	8.42	± 9.6 %
10527	AAF	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc dc)	WLAN	8.21	± 9.6 %
10528	AAF	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc dc)	WLAN	8.36	± 9.6 %
10529	AAF	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc dc)	WLAN	8.36	± 9.6 %
10531	AAF	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc dc)	WLAN	8.43	± 9.6 %
10532	AAF	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
10533	AAE	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc dc)	WLAN	8.38	± 9.6 %
10534	AAE	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc)	WLAN	8.45	± 9.6 %
10535	AAE	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc)	WLAN	8.45	± 9.6 %
10536	AAF	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc dc)	WLAN	8.32	± 9.6 %
10537	AAF	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc dc)	WLAN	8.44	± 9.6 %
10538	AAF	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc)	WLAN	8.54	± 9.6 %
10540	AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc dc)	WLAN	8.39	± 9.6 %
10541	AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc dc)	WLAN	8.46	± 9.6 %
10542	AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc dc)	WLAN	8.65	± 9.6 %
10543	AAC	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc dc)	WLAN	8.65	± 9.6 %
10544	AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc dc)	WLAN	8.47	± 9.6 %
10545	AAC	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc dc)	WLAN	8.55	± 9.6 %

10546	AAC	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc dc)	WLAN	8.35	± 9.6 %
10547	AAC	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc dc)	WLAN	8.49	± 9.6 %
10548	AAC	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc dc)	WLAN	8.37	± 9.6 %
10550	AAC	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc dc)	WLAN	8.38	± 9.6 %
10551	AAC	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc dc)	WLAN	8.50	± 9.6 %
10552	AAC	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc dc)	WLAN	8.42	± 9.6 %
10553	AAC	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc dc)	WLAN	8.45	± 9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc dc)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc dc)	WLAN	8.47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc dc)	WLAN	8.50	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc dc)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc)	WLAN	8.61	± 9.6 %
10560	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc dc)	WLAN	8.73	± 9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc dc)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc dc)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc dc)	WLAN	8.77	± 9.6 %
10564	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)	WLAN	8.25	± 9.6 %
10565	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10566	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)	WLAN	8.13	± 9.6 %
10567	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc)	WLAN	8.00	± 9.6 %
10568	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc)	WLAN	8.37	± 9.6 %
10569	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc)	WLAN	8.10	± 9.6 %
10570	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc)	WLAN	8.30	± 9.6 %
10571	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10572	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10573	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10574	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10575	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10576	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10577	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10578	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10579	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10580	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10581	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10582	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10583	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10584	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10585	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10586	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10587	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10588	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10589	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10590	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10591	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc)	WLAN	8.63	± 9.6 %
10592	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10593	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc)	WLAN	8.64	± 9.6 %
10594	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10595	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc)	WLAN	8.74	± 9.6 %
10596	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc)	WLAN	8.71	± 9.6 %
10597	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc)	WLAN	8.72	± 9.6 %
10598	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc)	WLAN	8.50	± 9.6 %
10599	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc)	WLAN	8.79	± 9.6 %
10600	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10601	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc)	WLAN	8.82	± 9.6 %
10602	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc)	WLAN	8.94	± 9.6 %
10603	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc)	WLAN	9.03	± 9.6 %

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

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

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

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

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

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

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



Appendix E. Conducted RF Output Power Table

The detailed power table are shown as follows.



Full Power level/Default Power level/ Pmax Power Level for WWAN

GSM850	Ant1 Full Power							
	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.26	32.51	32.48	33.50	23.26	23.51	23.48	24.50
GPRS 1 Tx slots	32.34	32.64	32.66	33.50	23.34	23.64	23.66	24.50
GPRS 2 Tx slots	30.45	30.69	30.43	32.00	24.45	24.69	24.43	26.00
GPRS 3 Tx slots	28.75	28.94	28.56	30.00	24.49	24.88	24.30	25.74
GPRS 4 Tx slots	27.52	27.43	27.60	28.00	24.52	24.43	24.60	25.00
EDGE 1 Tx slot	24.51	24.56	24.78	25.00	15.51	15.56	15.78	16.00
EDGE 2 Tx slots	22.63	22.59	22.90	23.00	16.63	16.59	16.90	17.00
EDGE 3 Tx slots	21.18	21.06	21.39	21.50	16.92	16.80	17.13	17.24
EDGE 4 Tx slots	19.65	19.71	19.85	20.00	16.65	16.71	16.85	17.00

GSM1900	Ant1 Full Power							
	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	30.13	30.25	30.33	30.50	21.13	21.25	21.33	21.50
GPRS 1 Tx slot	30.23	30.38	30.42	30.50	21.23	21.38	21.42	21.50
GPRS 2 Tx slots	27.71	27.79	27.78	28.00	21.71	21.79	21.78	22.00
GPRS 3 Tx slots	25.75	25.66	25.81	26.00	21.49	21.40	21.55	21.74
GPRS 4 Tx slots	24.29	24.19	24.33	24.50	21.29	21.19	21.33	21.50
EDGE 1 Tx slot	25.18	25.47	25.51	26.50	16.18	16.47	16.51	17.50
EDGE 2 Tx slots	24.26	24.55	24.27	25.00	16.26	16.55	16.27	16.00
EDGE 3 Tx slots	22.83	23.06	22.85	23.50	18.57	18.80	18.59	19.24
EDGE 4 Tx slots	21.15	21.41	21.17	21.50	18.15	18.41	18.17	18.50

Band	Ant1 Full Power				Ant1 Full Power				Ant1 Full Power				
	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	9662	9800	9938		1537	1638	1738		4357	4407	4458		
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458		
Frequency (MHz)	1952.4	1960	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	22.87	22.84	22.78	24.00	22.77	22.68	22.71	24.00	22.59	22.55	22.45	24.00
3GPP Rel 99	RMC 12.2Kbps	22.91	22.93	22.84	24.00	22.81	22.87	22.75	24.00	22.69	22.72	22.57	24.00
3GPP Rel 6	HSDPA Subtest-1	21.94	22.15	22.27	23.00	21.85	22.14	22.32	23.00	21.76	22.05	22.13	23.00
3GPP Rel 6	HSDPA Subtest-2	21.95	22.19	22.35	23.00	21.85	22.10	22.26	23.00	21.74	21.96	22.18	23.00
3GPP Rel 6	HSDPA Subtest-3	21.45	21.70	21.89	22.50	21.37	21.59	21.78	22.50	21.26	21.48	21.67	22.50
3GPP Rel 6	HSDPA Subtest-4	21.43	21.62	21.77	22.50	21.37	21.57	21.79	22.50	21.30	21.47	21.62	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.93	22.11	22.20	23.00	21.87	22.10	22.17	23.00	21.73	21.94	22.04	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.87	22.16	22.21	23.00	21.84	22.09	22.10	23.00	21.66	21.93	22.00	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.43	21.62	21.80	22.50	21.39	21.63	21.70	22.50	21.30	21.49	21.64	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.33	21.57	21.81	22.50	21.33	21.48	21.72	22.50	21.24	21.44	21.60	22.50
3GPP Rel 6	HSUPA Subtest-1	21.92	22.17	22.31	23.00	21.93	22.16	22.23	23.00	21.81	22.04	22.13	23.00
3GPP Rel 6	HSUPA Subtest-2	20.93	20.11	20.24	21.00	19.95	20.11	20.27	21.00	19.81	19.98	20.09	21.00
3GPP Rel 6	HSUPA Subtest-3	20.98	21.11	21.33	22.00	20.88	21.09	21.27	22.00	20.78	20.98	21.18	22.00
3GPP Rel 6	HSUPA Subtest-4	19.95	20.17	20.35	21.00	19.92	20.16	20.31	21.00	19.82	20.04	20.20	21.00
3GPP Rel 6	HSUPA Subtest-5	21.88	22.21	22.28	23.00	21.88	22.13	22.30	23.00	21.76	22.08	22.14	23.00



Band 2 Ant1 Full Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.17	23.19	23.26			24	0
20	QPSK	1	49	22.87	22.88	22.94				
20	QPSK	50	0	22.97	22.93	22.11				
20	QPSK	50	24	22.22	22.22	22.09				
20	QPSK	50	50	22.11	22.01	21.88			23	1
20	QPSK	100	0	22.16	22.18	22.26				
20	HQAM	1	0	22.46	22.21	22.02				
20	HQAM	1	49	22.27	22.26	22.27			23	1
20	HQAM	1	99	22.23	22.22	22.08				
20	HQAM	50	0	21.27	21.08	21.11				
20	HQAM	50	24	21.21	21.07	21.09			22	2
20	HQAM	50	50	21.17	21.04	21.03				
20	HQAM	100	0	21.17	21.05	21.06				
20	HQAM	1	0	21.30	21.28	21.25				
20	HQAM	1	49	21.07	21.03	21.24			22	2
20	HQAM	1	99	20.98	21.04	21.12				
20	HQAM	50	0	20.25	20.07	20.09				
20	HQAM	50	24	20.17	20.09	20.09			21	3
20	HQAM	50	50	20.16	20.03	20.00				
20	HQAM	100	0	20.19	20.08	20.05				
20	256QAM	1	0	18.00	18.37	18.14				
20	256QAM	1	49	17.87	18.03	17.98			19	5
20	256QAM	1	99	17.83	18.06	18.08				
20	256QAM	50	0	17.92	17.97	17.97				
20	256QAM	50	24	17.78	17.97	17.98			19	5
20	256QAM	50	50	17.82	18.07	18.08				
20	256QAM	100	0	17.82	18.07	18.05				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.08	22.08	22.06			24	0
15	QPSK	1	49	21.84	21.80	21.87				
15	QPSK	1	74	22.06	22.03	22.75				
15	QPSK	36	0	22.23	22.08	22.05				
15	QPSK	36	24	22.04	22.04	22.03				
15	QPSK	36	39	22.12	22.02	21.98			23	1
15	QPSK	75	0	22.18	22.04	22.01				
15	HQAM	1	0	22.36	22.03	21.29				
15	HQAM	1	37	22.34	22.31	22.24			23	1
15	HQAM	1	74	22.27	22.07	22.04				
15	HQAM	36	0	21.27	21.05	21.07			22	2
15	HQAM	36	20	21.21	21.07	21.05				
15	HQAM	36	39	21.14	21.04	21.02				
15	HQAM	75	0	21.20	21.07	21.05			22	2
15	HQAM	1	0	21.36	21.20	21.32				
15	HQAM	1	49	21.17	21.16	21.15			22	2
15	HQAM	1	74	21.17	21.16	21.15				
15	HQAM	36	0	20.25	20.07	20.07				
15	HQAM	36	20	20.25	20.08	20.03			21	3
15	HQAM	36	39	20.13	20.00	19.95				
15	HQAM	75	0	20.22	20.05	20.04				
15	256QAM	1	0	17.98	17.98	17.98				
15	256QAM	1	37	17.91	18.03	17.91			19	5
15	256QAM	1	74	17.78	18.02	18.03				
15	256QAM	50	0	17.86	17.87	17.87				
15	256QAM	50	24	17.77	17.90	17.92			19	5
15	256QAM	50	39	17.75	18.07	18.04				
15	256QAM	100	0	17.77	18.03	18.01				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.13	22.13	22.09			24	0
10	QPSK	1	49	22.10	22.14	22.08				
10	QPSK	1	49	22.06	22.04	22.87				
10	QPSK	26	0	22.40	22.41	22.15				
10	QPSK	26	12	22.34	22.17	21.15				
10	QPSK	26	25	22.26	22.11	22.03			23	1
10	QPSK	50	0	22.28	22.17	22.11				
10	HQAM	1	0	22.46	22.28	22.45				
10	HQAM	1	25	22.28	22.42	22.27			23	1
10	HQAM	1	49	22.25	22.28	22.24				
10	HQAM	25	0	21.43	21.22	21.21				
10	HQAM	25	12	21.37	21.22	21.21			22	2
10	HQAM	25	39	21.28	21.23	21.08				
10	HQAM	50	0	21.34	21.19	21.16				
10	HQAM	1	0	21.36	21.29	21.27			22	2
10	HQAM	1	49	21.20	21.15	21.15				
10	HQAM	1	49	21.31	21.20	21.13				
10	HQAM	25	0	20.40	20.23	20.18			21	3
10	HQAM	25	12	20.38	20.21	20.15				
10	HQAM	25	25	20.28	20.09	20.02				
10	HQAM	50	0	20.33	20.16	20.12				
10	256QAM	1	0	18.17	18.33	18.23				
10	256QAM	1	25	17.93	18.19	18.05			19	5
10	256QAM	1	49	17.92	18.15	18.21				
10	256QAM	25	0	17.86	18.14	18.14				
10	256QAM	25	12	17.88	18.03	18.08			19	5
10	256QAM	25	25	17.88	18.14	18.20				
10	256QAM	50	0	18.01	18.16	18.16				
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.25	18.25	18.24			24	0
5	QPSK	1	24	18.16	18.23	18.28				
5	QPSK	1	24	18.15	18.26	18.27				
5	QPSK	12	0	22.38	22.22	22.06				
5	QPSK	12	13	22.28	22.14	21.86			23	1
5	HQAM	1	0	22.51	22.31	22.04				
5	HQAM	1	12	22.62	22.49	22.34			23	1
5	HQAM	1	12	22.62	22.48	22.28				
5	HQAM	12	0	21.48	21.21	21.13				
5	HQAM	12	7	21.42	21.28	21.10			22	2
5	HQAM	12	13	21.36	21.17	20.98				
5	HQAM	25	0	21.36	21.15	21.05				
5	HQAM	1	0	21.30	21.27	21.27			22	2
5	HQAM	1	12	21.42	21.29	21.12				
5	HQAM	1	24	21.43	21.29	21.20				
5	HQAM	12	0	20.46	20.25	20.15			21	3
5	HQAM	12	7	20.32	20.28	20.08				
5	HQAM	12	13	20.28	20.17	20.04				
5	HQAM	25	0	20.36	20.14	20.04				
5	256QAM	1	0	18.00	18.20	18.22				
5	256QAM	1	12	17.95	18.11	18.03			19	5
5	256QAM	1	24	17.91	18.13	18.13				
5	256QAM	12	0	17.86	18.06	18.06				
5	256QAM	12	7	17.85	18.04	18.05			19	5
5	256QAM	12	13	17.86	18.15	18.14				
5	256QAM	25	0	17.90	18.05	18.20				
5	256QAM	25	0	17.90	18.09	18.13				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.47	22.47	22.43			24	0
3	QPSK	1	8	22.35	22.17	22.08				
3	QPSK	1	14	22.17	22.08	22.82				
3	QPSK	8	0	22.44	22.09	22.07				
3	QPSK	8	4	22.40	22.25	22.02				
3	QPSK	8	7	22.36	22.14	21.84			23	1
3	HQAM	1	0	22.43	22.03	21.70				
3	HQAM	1	8	22.65	22.60	22.29			23	1
3	HQAM	1	8	22.43	22.31	22.35				
3	HQAM	8	0	21.47	21.29	21.12				
3	HQAM	8	4	21.44	21.31	21.10			22	2
3	HQAM	8	20	21.32	21.19	20.98				
3	HQAM	16	0	21.36	21.28	21.04				
3	HQAM	1	0	21.36	21.46	21.27			22	2
3	HQAM	1	8	21.38	21.49	21.28				
3	HQAM	1	14	21.40	21.28	21.15				
3	HQAM	8	0	20.48	20.33	20.12			21	3
3	HQAM	8	4	20.41	20.24	20.09				
3	HQAM	8	7	20.37	20.20	20.05				



Band 7 Ant1 Full Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.23	23.31	23.19				
20	QPSK	49	0	23.18	23.18	23.18	24	0		
20	QPSK	1	99	23.19	23.21	23.24				
20	QPSK	50	0	23.15	23.29	23.28				
20	QPSK	24	0	22.38	22.28	22.25	23	1		
20	QPSK	50	0	22.28	22.27	22.25				
20	QPSK	100	0	22.14	22.25	22.22				
20	HQAM	1	0	22.02	22.27	22.19				
20	HQAM	1	49	22.21	22.19	22.34	23	1		
20	HQAM	1	99	22.18	22.15	22.25				
20	HQAM	50	0	21.17	21.22	21.21				
20	HQAM	50	24	21.19	21.20	21.23	22	2		
20	HQAM	50	50	21.17	21.24	21.26				
20	HQAM	100	0	21.27	21.38	21.39				
20	HQAM	1	0	21.23	21.22	21.28				
20	HQAM	1	49	21.25	21.23	21.18	22	2		
20	HQAM	1	99	21.18	21.12	21.07				
20	HQAM	50	0	20.21	20.28	20.30				
20	HQAM	50	25	20.16	20.22	20.18	21	3		
20	HQAM	50	0	20.19	20.18	20.23				
20	SSBAM	1	0	18.14	18.08	18.16				
20	SSBAM	1	49	18.30	18.18	18.28	19	5		
20	SSBAM	1	99	18.18	18.20	18.33				
20	SSBAM	50	0	18.21	18.20	18.25				
20	SSBAM	50	24	18.15	18.30	18.28	19	5		
20	SSBAM	50	50	18.21	18.27	18.24				
20	SSBAM	100	0	18.05	18.20	18.25				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.10	23.14	23.18				
15	QPSK	1	37	23.04	23.05	23.23	24	0		
15	QPSK	1	74	23.14	23.09	23.09				
15	QPSK	76	0	22.01	22.28	22.12				
15	QPSK	20	0	22.03	22.21	22.09	23	1		
15	QPSK	36	39	22.18	22.14	22.05				
15	QPSK	75	0	22.08	22.20	22.29				
15	HQAM	1	0	22.19	22.20	22.20				
15	HQAM	1	37	22.10	22.03	22.27	23	1		
15	HQAM	36	74	21.96	21.98	22.16				
15	HQAM	36	0	21.16	21.10	21.04				
15	HQAM	36	20	21.12	21.06	21.16	22	2		
15	HQAM	36	0	21.15	21.27	21.15				
15	HQAM	75	0	21.18	21.11	21.21				
15	HQAM	37	0	20.03	20.06	20.09	22	2		
15	HQAM	1	74	21.14	20.98	21.20				
15	HQAM	36	0	20.21	20.10	20.19				
15	HQAM	36	20	20.08	20.06	20.09	21	3		
15	HQAM	36	39	20.03	20.08	20.10				
15	HQAM	75	0	20.03	20.17	20.05				
15	SSBAM	1	0	17.87	18.19	18.02				
15	SSBAM	1	37	18.25	18.04	18.18	19	5		
15	SSBAM	1	74	18.01	18.19	18.23				
15	SSBAM	50	0	18.16	18.15	18.21				
15	SSBAM	36	20	18.14	18.16	18.21	19	5		
15	SSBAM	36	39	18.03	18.20	18.06				
15	SSBAM	75	0	18.07	18.19	18.07				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.10	23.23	23.07				
10	QPSK	1	25	23.05	23.09	23.09	24	0		
10	QPSK	1	49	23.03	23.17	23.07				
10	QPSK	25	0	22.07	22.11	22.14				
10	QPSK	25	12	22.02	22.21	22.18	23	1		
10	QPSK	25	25	22.30	22.09	22.23				
10	QPSK	50	0	22.14	22.22	22.13				
10	HQAM	1	0	22.04	22.13	22.05				
10	HQAM	1	25	22.14	22.01	22.20	23	1		
10	HQAM	1	49	22.08	22.08	22.22				
10	HQAM	25	0	20.09	21.03	21.10				
10	HQAM	25	12	21.18	21.19	21.21	22	2		
10	HQAM	25	25	21.07	21.04	21.25				
10	HQAM	50	0	21.08	21.30	21.26				
10	HQAM	1	0	21.21	21.10	21.28	22	2		
10	HQAM	1	25	21.11	21.05	21.04				
10	HQAM	1	49	21.05	21.06	21.18				
10	HQAM	25	0	20.09	20.28	20.17				
10	HQAM	25	12	20.15	20.06	20.07	21	3		
10	HQAM	25	25	20.10	20.03	20.05				
10	HQAM	50	0	20.10	20.05	20.10				
10	SSBAM	1	0	18.06	18.16	18.00				
10	SSBAM	1	25	18.18	17.99	18.12	19	5		
10	SSBAM	1	49	18.13	18.05	18.29				
10	SSBAM	25	0	17.97	18.00	18.28				
10	SSBAM	25	12	18.00	18.10	18.25	19	5		
10	SSBAM	25	25	18.14	18.10	18.11				
10	SSBAM	50	0	18.02	18.13	18.07				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.05	23.05	23.05				
5	QPSK	1	12	23.17	23.14	23.10	24	0		
5	QPSK	1	24	23.10	23.07	23.21				
5	QPSK	12	0	22.06	22.11	22.14				
5	QPSK	12	7	22.02	22.16	22.20	23	1		
5	QPSK	25	0	22.14	22.22	22.17				
5	QPSK	25	0	22.05	22.14	22.05				
5	HQAM	1	0	22.08	22.16	22.18				
5	HQAM	1	12	22.07	22.12	22.25	23	1		
5	HQAM	1	24	22.12	22.03	22.10				
5	HQAM	12	0	21.08	21.09	21.09	22	2		
5	HQAM	12	7	21.01	21.08	21.09				
5	HQAM	12	13	21.04	21.21	21.18				
5	HQAM	25	0	21.12	21.39	21.06				
5	HQAM	1	0	21.11	21.08	21.11	22	2		
5	HQAM	1	12	21.18	21.17	20.98				
5	HQAM	1	24	20.98	20.98	21.21				
5	HQAM	12	0	20.08	20.11	20.20				
5	HQAM	12	7	20.12	20.18	20.15	21	3		
5	HQAM	12	13	20.10	20.03	20.04				
5	HQAM	25	0	20.05	20.13	20.07				
5	SSBAM	1	0	18.13	18.17	17.99				
5	SSBAM	1	12	18.20	18.08	18.15	19	5		
5	SSBAM	1	24	18.03	18.05	18.28				
5	SSBAM	12	0	18.13	18.20	18.08				
5	SSBAM	12	7	18.06	18.11	18.22	19	5		
5	SSBAM	12	13	18.05	18.21	18.07				
5	SSBAM	25	0	18.10	18.15	18.18				

Band 12 Ant1 Full Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.87	22.99	22.78				
10	QPSK	1	24	22.88	22.84	22.81	24	0		
10	QPSK	1	49	22.82	22.84	22.88				
10	QPSK	25	0	22.07	22.18	22.08				
10	QPSK	25	12	22.09	22.11	22.12	23	1		
10	QPSK	25	25	22.17	22.08	22.09				
10	QPSK	50	0	22.14	22.15	22.14				
10	HQAM	1	0	22.42	22.41	22.34	23	1		
10	HQAM	1	24	22.41	22.42	22.41				
10	HQAM	1	49	22.43	22.49	22.43				
10	HQAM	25	0	21.08	21.12	21.19				
10	HQAM	25	12	21.21	21.21	21.17	22	2		
10	HQAM	25	25	21.18	21.20	21.26				
10	HQAM	50	0	21.15	21.20	21.14				
10	HQAM	1	0	21.28	21.29	21.26				
10	HQAM	1	25	21.21	21.24	21.23	22	2		
10	HQAM	1	49	21.27	21.31	21.25				
10	HQAM</									



Band 17 Ant1 Full Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.86	22.96	22.77			24	0
10	QPSK	5	25	22.84	22.84	22.83				
10	QPSK	1	40	22.81	22.81	22.83				
10	QPSK	25	0	22.10	22.16	22.48			23	1
10	QPSK	12	12	22.02	22.02	22.02				
10	QPSK	25	25	22.04	22.03	22.05				
10	QPSK	50	0	22.02	22.12	22.10				
10	HQAM	1	0	22.42	22.28	22.30			23	1
10	HQAM	1	25	22.37	22.38	22.39				
10	HQAM	1	40	22.28	22.40	22.38				
10	HQAM	1	40	21.12	21.15	21.12			22	2
10	HQAM	25	12	21.18	21.12	21.12				
10	HQAM	25	26	21.15	21.10	21.19				
10	HQAM	50	0	21.10	21.11	21.10				
10	HQAM	1	0	21.25	21.22	21.19				
10	HQAM	1	25	21.16	21.22	21.20			22	2
10	HQAM	1	40	21.10	21.25	21.33				
10	HQAM	25	0	20.20	20.11	20.11				
10	HQAM	25	12	20.19	20.12	20.19			21	3
10	HQAM	25	25	20.14	20.09	20.14				
10	HQAM	50	0	20.15	20.04	20.09				
10	SSBQAM	1	0	18.24	18.35	18.30			19	5
10	SSBQAM	1	25	18.14	18.28	18.21				
10	SSBQAM	1	40	18.27	18.23	18.17				
10	SSBQAM	25	0	18.14	18.17	18.12			19	5
10	SSBQAM	25	12	18.15	18.15	18.10				
10	SSBQAM	25	25	18.02	18.09	18.04				
10	SSBQAM	50	0	17.85	18.02	17.97				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.01	22.04	22.87			24	0
5	QPSK	1	12	22.01	22.08	22.88				
5	QPSK	1	24	22.04	22.02	22.77				
5	QPSK	12	0	22.13	22.13	22.10			23	1
5	QPSK	12	7	22.16	22.17	22.13				
5	QPSK	12	13	22.08	22.08	22.05				
5	QPSK	25	0	22.18	22.10	22.11				
5	HQAM	1	0	22.43	22.42	22.43			23	1
5	HQAM	1	12	22.37	22.48	22.48				
5	HQAM	1	0	22.27	22.38	22.38				
5	HQAM	1	7	20.17	20.14	20.16			22	2
5	HQAM	12	7	21.20	21.21	21.18				
5	HQAM	25	0	21.17	21.10	21.16				
5	HQAM	1	0	21.38	21.38	21.31				
5	HQAM	1	12	21.34	21.22	21.17			21	3
5	HQAM	1	24	21.29	21.29	21.24				
5	HQAM	12	0	20.17	20.17	20.15				
5	HQAM	12	13	20.14	20.09	20.10				
5	HQAM	25	0	20.18	20.06	20.13				
5	HQAM	25	0	18.18	18.30	18.26			19	5
5	SSBQAM	1	12	18.10	18.22	18.15				
5	SSBQAM	1	24	18.23	18.18	18.12				
5	SSBQAM	12	0	18.03	18.13	18.07			19	5
5	SSBQAM	12	7	18.12	18.09	18.06				
5	SSBQAM	12	13	17.86	18.04	17.89				
5	SSBQAM	25	0	17.80	17.98	17.92				

Band 26 Ant1 Full Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.86	22.94	22.63			24	0
15	QPSK	1	37	22.82	22.82	22.82				
15	QPSK	1	74	22.71	22.63	22.50				
15	QPSK	36	0	21.89	21.93	21.70			23	1
15	QPSK	36	25	21.82	21.87	21.82				
15	QPSK	36	39	21.92	21.83	21.78				
15	QPSK	75	0	21.87	21.88	21.76				
15	HQAM	1	0	20.95	20.99	20.95			23	1
15	HQAM	1	37	21.24	21.23	21.25				
15	HQAM	1	74	22.06	21.97	21.91				
15	HQAM	36	0	21.11	21.03	20.71			22	2
15	HQAM	36	20	21.91	21.85	21.59				
15	HQAM	36	39	20.95	20.85	20.77				
15	HQAM	75	0	20.99	20.98	20.75				
15	HQAM	1	0	21.05	20.94	20.88			22	2
15	HQAM	1	37	21.02	20.90	20.85				
15	HQAM	1	74	20.91	20.86	20.87				
15	HQAM	36	0	20.01	19.85	19.71			21	3
15	HQAM	36	20	19.99	19.94	19.79				
15	HQAM	36	39	19.97	19.94	19.74				
15	HQAM	75	0	19.99	19.88	19.72				
15	HQAM	1	0	18.00	18.04	17.97			19	5
15	SSBQAM	1	37	17.88	17.94	17.86				
15	SSBQAM	1	74	17.87	17.83	17.88				
15	SSBQAM	36	0	17.84	17.82	17.82			21	3
15	SSBQAM	36	20	17.78	17.84	17.79				
15	SSBQAM	36	39	17.73	17.78	17.68				
15	SSBQAM	75	0	17.80	17.82	17.82				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.86	22.86	22.78			24	0
10	QPSK	1	24	22.80	22.84	22.76				
10	QPSK	1	48	22.93	22.75	22.75				
10	QPSK	25	0	22.10	21.91	21.81			23	1
10	QPSK	25	12	22.12	21.96	21.83				
10	QPSK	25	25	22.11	21.95	21.87				
10	QPSK	50	0	22.14	21.96	21.81				
10	HQAM	1	0	22.34	22.22	22.14			23	1
10	HQAM	1	25	22.31	22.19	22.09				
10	HQAM	1	40	22.29	22.14	22.05				
10	HQAM	25	0	21.18	21.18	21.21			22	2
10	HQAM	25	12	21.17	21.01	20.87				
10	HQAM	25	25	21.15	21.02	20.85				
10	HQAM	50	0	21.15	21.00	20.84				
10	HQAM	1	0	21.23	21.06	21.01			22	2
10	HQAM	1	25	21.26	21.03	20.92				
10	HQAM	1	40	21.19	21.00	20.94				
10	HQAM	25	0	20.18	19.94	19.82			21	3
10	HQAM	25	12	20.16	19.93	19.82				
10	HQAM	25	25	20.13	19.95	19.85				
10	HQAM	50	0	20.13	19.99	19.85				
10	HQAM	1	0	17.86	18.00	17.86			19	5
10	SSBQAM	1	25	17.83	17.91	17.77				
10	SSBQAM	1	49	17.80	17.87	17.83				
10	SSBQAM	12	0	17.78	17.78	17.78			19	5
10	SSBQAM	12	7	17.75	17.75	17.72				
10	SSBQAM	25	0	17.86	17.72	17.62				
10	SSBQAM	25	0	17.82	17.88	17.82				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.86	22.83	22.77			24	0
5	QPSK	1	12	22.80	22.84	22.76				
5	QPSK	1	24	22.93	22.82	22.69				
5	QPSK	12	0	22.13	21.89	21.81			23	1
5	QPSK	12	7	22.16	22.17	22.13				
5	QPSK	12	13	22.12	21.91	21.80				
5	QPSK	25	0	22.13	21.94	21.77				
5	HQAM	1	0	22.33	22.24	22.19			23	1
5	HQAM	1	12	22.44	22.19	22.07				
5	HQAM	1	24	22.40	22.24	22.16				
5	HQAM	12	0	21.18	21.01	20.85			22	2
5	HQAM	12	7	21.18	21.00	20.84				
5	HQAM	12	13	21.15	21.00	20.85				
5	HQAM	25	0	21.15	21.00	20.85				
5	HQAM	1	0	21.33	21.10	21.01			22	2
5	HQAM	1	12	21.37	21.03	21.00				
5	HQAM	1	24	21.25	21.03	20.92				
5	HQAM									



Band 38-PC3 Ant1 Full 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	23.31	23.36	23.27	24	0		
20	QPSK	1	49	23.15	23.19	23.13				
20	QPSK	1	99	23.02	23.03	23.06				
20	QPSK	50	0	22.27	22.31	22.20	23	1		
20	QPSK	50	24	22.25	22.23	22.17				
20	QPSK	50	50	22.08	22.12	22.10				
20	QPSK	100	0	22.20	22.26	22.17	23	1		
20	16QAM	1	0	22.53	22.57	22.51				
20	16QAM	1	49	22.40	22.45	22.43				
20	16QAM	1	99	22.28	22.31	22.25	22	2		
20	16QAM	50	0	21.28	21.30	21.29				
20	16QAM	50	24	21.17	21.24	21.23				
20	16QAM	50	50	21.14	21.20	21.13	22	2		
20	16QAM	100	0	21.23	21.25	21.20				
20	16QAM	100	0	21.36	21.41	21.38				
20	84QAM	1	0	21.20	21.28	21.21	22	2		
20	84QAM	1	49	21.12	21.12	21.10				
20	84QAM	1	99	20.31	20.29	20.27				
20	84QAM	50	0	20.20	20.27	20.22	21	3		
20	84QAM	50	24	20.12	20.19	20.18				
20	84QAM	50	50	20.23	20.26	20.22				
20	256QAM	1	0	18.30	18.30	18.25	19	5		
20	256QAM	1	49	18.21	18.21	18.18				
20	256QAM	1	99	18.09	18.08	18.05				
20	256QAM	50	0	18.36	18.39	18.37	19	5		
20	256QAM	50	24	18.36	18.37	18.31				
20	256QAM	50	50	18.24	18.25	18.19				
20	256QAM	100	0	18.16	18.24	18.20				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	23.25	23.25	23.24	24	0		
15	QPSK	1	37	23.09	23.18	23.08				
15	QPSK	1	74	23.10	23.01	23.03				
15	QPSK	36	0	22.21	22.23	22.18	23	1		
15	QPSK	36	20	22.22	22.18	22.10				
15	QPSK	36	39	22.07	22.10	22.08				
15	QPSK	75	0	22.17	22.18	22.12	23	1		
15	16QAM	1	0	22.47	22.53	22.47				
15	16QAM	1	37	22.37	22.41	22.42				
15	16QAM	1	74	22.22	22.28	22.23	22	2		
15	16QAM	36	0	21.26	21.28	21.28				
15	16QAM	36	20	21.13	21.22	21.19				
15	16QAM	36	39	21.12	21.13	21.11	22	2		
15	16QAM	75	0	21.17	21.24	21.16				
15	84QAM	1	0	21.32	21.39	21.34				
15	84QAM	1	37	21.16	21.25	21.15	22	2		
15	84QAM	1	74	21.05	21.10	21.05				
15	84QAM	36	0	20.28	20.23	20.20				
15	84QAM	36	20	20.13	20.21	20.17	21	3		
15	84QAM	36	39	20.10	20.16	20.12				
15	84QAM	75	0	20.19	20.20	20.15				
15	256QAM	1	0	18.25	18.25	18.22	19	5		
15	256QAM	1	37	18.14	18.17	18.15				
15	256QAM	1	74	18.03	18.07	18.05				
15	256QAM	36	0	18.32	18.36	18.32	19	5		
15	256QAM	36	20	18.30	18.32	18.24				
15	256QAM	36	39	18.19	18.23	18.17				
15	256QAM	75	0	18.13	18.18	18.16				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	23.25	23.24	23.21	24	0		
10	QPSK	1	25	23.08	23.13	23.07				
10	QPSK	1	49	23.10	23.05	23.01				
10	QPSK	25	0	22.20	22.18	22.14	23	1		
10	QPSK	25	12	22.19	22.18	22.11				
10	QPSK	25	25	22.03	22.05	22.03				
10	QPSK	50	0	22.14	22.12	22.12	23	1		
10	16QAM	1	0	22.48	22.52	22.46				
10	16QAM	1	25	22.33	22.38	22.37				
10	16QAM	1	49	22.22	22.26	22.18	22	2		
10	16QAM	25	0	21.23	21.25	21.23				
10	16QAM	25	12	21.10	21.17	21.16				
10	16QAM	25	25	21.09	21.15	21.08	22	2		
10	16QAM	50	0	21.18	21.18	21.13				
10	84QAM	1	0	21.31	21.36	21.33				
10	84QAM	1	25	21.14	21.22	21.15	22	2		
10	84QAM	1	49	21.06	21.07	21.05				
10	84QAM	25	0	20.25	20.23	20.22				
10	84QAM	25	12	20.13	20.20	20.16	21	3		
10	84QAM	25	25	20.06	20.14	20.11				
10	84QAM	50	0	20.17	20.20	20.17				
10	256QAM	1	0	18.23	18.24	18.19	19	5		
10	256QAM	1	25	18.15	18.14	18.13				
10	256QAM	1	49	18.04	18.02	18.00				
10	256QAM	25	0	18.29	18.34	18.31	19	5		
10	256QAM	25	12	18.30	18.31	18.26				
10	256QAM	25	25	18.18	18.19	18.12				
10	256QAM	50	0	18.09	18.19	18.13				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	23.35	23.33	23.29	24	0		
5	QPSK	1	12	23.19	23.23	23.17				
5	QPSK	1	24	23.05	23.07	23.00				
5	QPSK	12	0	22.29	22.28	22.24	23	1		
5	QPSK	12	7	22.28	22.26	22.21				
5	QPSK	12	13	22.12	22.15	22.13				
5	QPSK	25	0	22.23	22.22	22.20	23	1		
5	16QAM	1	0	22.55	22.59	22.54				
5	16QAM	1	12	22.43	22.47	22.47				
5	16QAM	1	24	22.31	22.34	22.28	22	2		
5	16QAM	12	0	21.31	21.33	21.32				
5	16QAM	12	7	21.19	21.26	21.26				
5	16QAM	12	13	21.18	21.23	21.16	22	2		
5	16QAM	25	0	21.27	21.28	21.23				
5	84QAM	1	0	21.40	21.44	21.40				
5	84QAM	1	12	21.24	21.30	21.24	22	2		
5	84QAM	1	24	21.15	21.14	21.14				
5	84QAM	12	0	20.34	20.33	20.30				
5	84QAM	12	7	20.24	20.30	20.25	21	3		
5	84QAM	12	13	20.16	20.22	20.21				
5	84QAM	25	0	20.25	20.29	20.25				
5	256QAM	1	0	18.32	18.32	18.29	19	5		
5	256QAM	1	12	18.23	18.23	18.21				
5	256QAM	1	24	18.13	18.12	18.09				
5	256QAM	12	0	18.38	18.41	18.40	19	5		
5	256QAM	12	7	18.39	18.39	18.35				
5	256QAM	12	13	18.27	18.27	18.23				
5	256QAM	25	0	18.19	18.26	18.24				

Band 38 -PC2 Ant1 Full 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	26.32	26.39	26.33	27	0		
20	QPSK	1	49	26.24	26.35	26.26				
20	QPSK	1	99	26.18	26.33	26.24				
20	QPSK	50	0	25.28	25.38	25.37	26	1		
20	QPSK	50	24	25.17	25.35	25.33				
20	QPSK	50	50	25.11	25.28	25.18				
20	QPSK	100	0	25.40	25.47	25.31	26	1		
20	16QAM	1	0	25.35	25.44	25.36				
20	16QAM	1	49	25.19	25.45	25.21				
20	16QAM	1	99	25.15	25.35	25.26	25	2		
20	16QAM	50	0	24.38	24.45	24.38				
20	16QAM	50	24	24.25	24.45	24.27				
20	16QAM	50	50	24.24	24.28	24.26	25	2		
20	16QAM	100	0	24.24	24.44	24.42				
20	84QAM	1	0	24.39	24.50	24.36				
20	84QAM	1	49	24.21	24.46	24.33	25	2		
20	84QAM</									



Band 41 -PC3 Ant1 Full 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	23.33	23.30	23.39	23.28	23.27	24	0
20	QPSK	1	49	23.21	23.17	23.12	23.14	23.16		
20	QPSK	1	99	23.06	23.00	23.06	23.02	23.01		
20	QPSK	50	0	22.28	22.22	22.34	22.07	22.25		
20	QPSK	50	24	22.27	22.19	22.04	22.01	22.22	23	1
20	QPSK	50	50	22.16	22.13	22.05	22.04	22.08		
20	QPSK	100	0	22.21	22.20	22.28	22.03	22.19		
20	16QAM	1	0	22.59	22.54	22.34	22.31	22.58		
20	16QAM	1	49	22.48	22.45	22.22	22.23	22.41	23	1
20	16QAM	1	99	22.33	22.28	22.13	22.10	22.29		
20	16QAM	50	0	21.32	21.33	21.12	21.13	21.32		
20	16QAM	50	24	21.26	21.27	21.11	21.13	21.23		
20	16QAM	50	50	21.23	21.16	21.12	21.09	21.20	22	2
20	16QAM	100	0	21.27	21.23	21.09	21.11	21.26		
20	64QAM	1	0	21.44	21.41	21.17	21.15	21.43		
20	64QAM	1	49	21.32	21.24	21.06	21.04	21.28		
20	64QAM	1	99	21.15	21.14	21.03	21.20	21.09	22	2
20	64QAM	50	0	20.31	20.31	20.19	20.15	20.30		
20	64QAM	50	24	20.30	20.24	20.13	20.10	20.24		
20	64QAM	50	50	20.22	20.22	20.10	20.07	20.18		
20	64QAM	100	0	20.29	20.25	20.08	20.10	20.26	21	3
20	256QAM	1	0	18.32	18.28	18.14	18.10	18.32		
20	256QAM	1	49	18.24	18.20	18.22	18.23	18.23		
20	256QAM	1	99	18.11	18.07	18.12	18.04	18.04		
20	256QAM	50	0	18.42	18.40	18.21	18.19	18.40	19	5
20	256QAM	50	24	18.40	18.33	18.18	18.17	18.36		
20	256QAM	50	50	18.29	18.23	18.21	18.19	18.25		
20	256QAM	100	0	18.27	18.23	18.09	18.05	18.21		
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	23.31	23.31	23.29	23.27	23.23	24.00	0
15	QPSK	1	37	23.19	23.16	23.12	23.10	23.13		
15	QPSK	1	74	23.02	23.05	23.02	23.02	23.01		
15	QPSK	36	0	22.25	22.20	22.08	22.08	22.25		
15	QPSK	36	20	22.28	22.17	22.05	22.00	22.18	23	1
15	QPSK	36	39	22.15	22.14	22.04	22.01	22.05		
15	QPSK	75	0	22.19	22.21	22.03	22.10	22.16		
15	16QAM	1	0	22.56	22.53	22.33	22.28	22.55		
15	16QAM	1	37	22.49	22.42	22.23	22.21	22.41	23	1
15	16QAM	1	74	22.30	22.27	22.15	22.11	22.27		
15	16QAM	36	0	21.34	21.34	21.11	21.11	21.30		
15	16QAM	36	20	21.23	21.28	21.07	21.10	21.24		
15	16QAM	36	39	21.23	21.15	21.12	21.11	21.18	22	2
15	16QAM	75	0	21.27	21.19	21.05	21.12	21.27		
15	64QAM	1	0	21.42	21.40	21.15	21.15	21.42		
15	64QAM	1	37	21.31	21.22	21.16	21.24	21.26		
15	64QAM	1	74	21.14	21.10	21.25	21.23	21.10	22	2
15	64QAM	36	0	20.28	20.29	20.18	20.15	20.31		
15	64QAM	36	20	20.27	20.21	20.13	20.11	20.23		
15	64QAM	36	39	20.20	20.21	20.09	20.05	20.15		
15	64QAM	75	0	20.29	20.24	20.05	20.11	20.26	21	3
15	256QAM	1	0	18.31	18.30	18.15	18.07	18.30		
15	256QAM	1	37	18.23	18.19	18.26	18.24	18.25		
15	256QAM	1	74	18.09	18.06	18.22	18.03	18.01		
15	256QAM	36	0	18.43	18.40	18.19	18.21	18.40	19	5
15	256QAM	36	20	18.39	18.30	18.18	18.14	18.33		
15	256QAM	36	39	18.30	18.24	18.20	18.17	18.26		
15	256QAM	75	0	18.28	18.19	18.07	18.04	18.21		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	23.29	23.22	23.31	23.23	23.26	24.00	0
10	QPSK	1	25	23.13	23.09	23.03	23.12	23.12		
10	QPSK	1	49	23.04	23.00	23.00	23.00	23.01		
10	QPSK	25	0	22.19	22.19	22.03	22.06	22.18		
10	QPSK	25	12	22.19	22.11	22.04	22.19	22.12	23	1
10	QPSK	25	25	22.07	22.07	22.05	22.02	22.04		
10	QPSK	50	0	22.18	22.18	22.19	22.21	22.14		
10	16QAM	1	0	22.41	22.49	22.33	22.24	22.50		
10	16QAM	1	25	22.44	22.41	22.18	22.18	22.33	23	1
10	16QAM	1	49	22.24	22.27	22.25	22.12	22.20		
10	16QAM	25	0	21.25	21.25	21.11	21.10	21.28		
10	16QAM	25	12	21.21	21.24	21.04	21.09	21.16		
10	16QAM	25	25	21.22	21.11	21.07	21.05	21.19	22	2
10	16QAM	50	0	21.20	21.16	21.07	21.10	21.22		
10	64QAM	1	0	21.41	21.32	21.17	21.11	21.34		
10	64QAM	1	25	21.27	21.20	21.25	21.16	21.28		
10	64QAM	1	49	21.12	21.11	21.22	21.17	21.31	22	2
10	64QAM	25	0	20.27	20.30	20.10	20.05	20.29		
10	64QAM	25	12	20.30	20.20	20.10	20.08	20.22		
10	64QAM	25	25	20.17	20.16	20.05	20.01	20.10		
10	64QAM	50	0	20.22	20.18	20.02	20.10	20.20	21	3
10	256QAM	1	0	18.26	18.22	18.11	18.05	18.31		
10	256QAM	1	25	18.21	18.14	18.27	18.14	18.19		
10	256QAM	1	49	18.10	18.02	18.22	18.16	18.19		
10	256QAM	25	0	18.33	18.31	18.18	18.19	18.36	19	5
10	256QAM	25	12	18.30	18.31	18.16	18.14	18.28		
10	256QAM	25	25	18.26	18.15	18.20	18.18	18.16		
10	256QAM	50	0	18.21	18.20	18.01	18.00	18.19		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	23.28	23.24	23.28	23.22	23.24	24.00	0
5	QPSK	1	12	23.18	23.14	23.07	23.09	23.12		
5	QPSK	1	24	23.03	23.16	23.03	23.11	23.17		
5	QPSK	12	0	22.25	22.19	22.06	22.04	22.22		
5	QPSK	12	7	22.22	22.16	22.19	22.19	22.16	23	1
5	QPSK	12	13	22.11	22.09	22.01	22.02	22.02		
5	QPSK	25	0	22.15	22.18	22.14	22.03	22.16		
5	16QAM	1	0	22.56	22.51	22.31	22.25	22.51		
5	16QAM	1	12	22.45	22.42	22.17	22.19	22.39	23	1
5	16QAM	1	24	22.30	22.24	22.18	22.35	22.26		
5	16QAM	12	0	21.30	21.27	21.10	21.08	21.28		
5	16QAM	12	7	21.24	21.22	21.07	21.10	21.19		
5	16QAM	12	13	21.19	21.12	21.07	21.04	21.17	22	2
5	16QAM	25	0	21.22	21.18	21.04	21.08	21.21		
5	64QAM	1	0	21.39	21.38	21.15	21.12	21.38		
5	64QAM	1	12	21.29	21.19	21.15	21.18	21.26		
5	64QAM	1	24	21.11	21.09	21.17	21.07	21.03	22	2
5	64QAM	12	0	20.26	20.25	20.14	20.09	20.25		
5	64QAM	12	7	20.25	20.20	20.08	20.07	20.19		
5	64QAM	12	13	20.18	20.18	20.07	20.03	20.13		
5	64QAM	25	0	20.24	20.23	20.06	20.05	20.21	21	3
5	256QAM	1	0	18.28	18.22	18.10	18.06	18.28		
5	256QAM	1	12	18.21	18.16	18.12	18.24	18.19		
5	256QAM	1	24	18.06	18.03	18.22	18.23	18.14		
5	256QAM	12	0	18.36	18.34	18.18	18.15	18.37	19	5
5	256QAM	12	7	18.35	18.29	18.12	18.12	18.32		
5	256QAM	12	13	18.25	18.19	18.17	18.16	18.21		
5	256QAM	25	0	18.24	18.19	18.03	18.00	18.15		

Band 41 -PC2 Ant1 Full 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</										



Band	Ant2 Full Power			Tune-up Limit (dBm)
	WCDMA V			
TX Channel	4132	4182	4233	
Rx Channel	4357	4407	4458	
Frequency (MHz)	826.4	836.4	846.6	
3GPP Rel 99 AMR 12.2Kbps	22.49	22.55	22.42	24.00
3GPP Rel 99 RMC 12.2Kbps	22.61	22.69	22.54	24.00
3GPP Rel 6 HSDPA Subtest-1	22.15	22.16	22.10	23.00
3GPP Rel 6 HSDPA Subtest-2	22.20	22.13	22.06	23.00
3GPP Rel 6 HSDPA Subtest-3	21.72	21.69	21.58	22.50
3GPP Rel 6 HSDPA Subtest-4	21.72	21.85	21.80	22.50
3GPP Rel 8 DC-HSDPA Subtest-1	22.14	22.12	22.04	23.00
3GPP Rel 8 DC-HSDPA Subtest-2	22.16	22.11	22.00	23.00
3GPP Rel 8 DC-HSDPA Subtest-3	21.68	21.67	21.53	22.50
3GPP Rel 8 DC-HSDPA Subtest-4	21.69	21.55	21.45	22.50
3GPP Rel 6 HSUPA Subtest-1	22.20	22.13	22.04	23.00
3GPP Rel 6 HSUPA Subtest-2	20.15	20.10	20.10	21.00
3GPP Rel 6 HSUPA Subtest-3	21.19	21.13	21.02	22.00
3GPP Rel 6 HSUPA Subtest-4	20.27	20.13	20.08	21.00
3GPP Rel 6 HSUPA Subtest-5	22.11	22.14	22.02	23.00



Band 4 Ant2 Full Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up (min)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.59	22.73	22.87	24	0		
20	QPSK	1	49	22.84	22.88	22.81				
20	QPSK	50	0	21.85	21.87	21.59	23	1		
20	QPSK	50	24	21.84	21.87	21.87				
20	QPSK	50	50	21.56	21.58	21.88				
20	QPSK	100	0	21.81	21.87	21.88				
20	16QAM	1	0	21.55	21.55	21.82	23	1		
20	16QAM	1	49	21.58	21.73	21.83				
20	16QAM	1	99	21.60	21.57	21.52				
20	16QAM	1	99	20.85	20.73	20.58				
20	16QAM	50	24	20.52	20.77	20.50	22	2		
20	16QAM	50	50	20.83	20.73	20.70				
20	16QAM	100	0	20.83	20.73	20.50				
20	84QAM	1	0	20.58	20.72	20.72				
20	84QAM	1	49	20.60	20.76	20.53	22	2		
20	84QAM	1	99	20.65	20.66	20.63				
20	84QAM	50	0	19.52	19.66	19.58				
20	84QAM	50	24	19.47	19.64	19.59	21	3		
20	84QAM	50	50	19.72	19.54	19.68				
20	84QAM	100	0	19.55	19.63	19.53				
20	256QAM	1	0	17.56	17.68	17.67	19	5		
20	256QAM	1	49	17.66	17.63	17.62				
20	256QAM	1	99	17.67	17.67	17.59				
20	256QAM	50	24	17.56	17.56	17.68				
20	256QAM	50	24	17.51	17.65	17.68	19	5		
20	256QAM	50	50	17.69	17.63	17.61				
20	256QAM	100	0	17.71	17.68	17.62				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.56	22.73	22.81	24	0		
15	QPSK	1	39	22.53	22.53	22.39				
15	QPSK	1	74	22.84	22.58	22.44				
15	QPSK	36	0	21.49	21.70	21.53	23	1		
15	QPSK	36	20	21.45	21.66	21.49				
15	QPSK	36	39	21.47	21.58	21.53				
15	QPSK	75	0	21.51	21.76	21.55				
15	16QAM	1	0	21.39	21.51	21.59	23	1		
15	16QAM	1	37	21.42	21.54	21.55				
15	16QAM	1	74	21.56	21.56	21.49				
15	16QAM	36	0	20.87	20.87	20.39	22	2		
15	16QAM	36	20	20.44	20.71	20.43				
15	16QAM	75	0	20.51	20.71	20.38				
15	84QAM	1	0	20.52	20.66	20.72	22	2		
15	84QAM	1	37	20.55	20.66	20.58				
15	84QAM	1	74	20.83	20.52	20.39				
15	84QAM	36	0	19.31	19.57	19.53	21	3		
15	84QAM	36	20	19.56	19.52	19.41				
15	84QAM	36	39	19.71	19.54	19.59				
15	84QAM	75	0	19.47	19.72	19.52				
15	256QAM	1	0	17.63	17.63	17.68	19	5		
15	256QAM	1	37	17.64	17.50	17.51				
15	256QAM	1	74	17.64	17.56	17.59				
15	256QAM	36	0	17.56	17.57	17.48				
15	256QAM	36	20	17.45	17.56	17.48	19	5		
15	256QAM	36	39	17.68	17.61	17.52				
15	256QAM	75	0	17.74	17.68	17.64				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.49	22.52	22.49	24	0		
10	QPSK	1	25	22.53	22.52	22.40				
10	QPSK	1	49	22.84	22.61	22.49				
10	QPSK	25	0	21.65	21.66	21.49	23	1		
10	QPSK	25	14	21.51	21.53	21.50				
10	QPSK	25	25	21.51	21.58	21.62				
10	16QAM	1	0	21.41	21.60	21.51	23	1		
10	16QAM	1	25	21.52	21.72	21.60				
10	16QAM	1	49	21.51	21.46	21.34				
10	16QAM	25	0	20.50	20.50	20.44	22	2		
10	16QAM	25	14	20.44	20.63	20.34				
10	16QAM	25	25	20.43	20.66	20.63				
10	16QAM	50	0	20.60	20.58	20.43				
10	84QAM	1	0	20.50	20.71	20.66	22	2		
10	84QAM	1	25	20.57	20.52	20.38				
10	84QAM	1	49	20.66	20.52	20.46				
10	84QAM	25	0	19.45	19.62	19.43	21	3		
10	84QAM	25	14	19.54	19.46	19.63				
10	84QAM	25	25	19.71	19.46	19.66				
10	84QAM	50	0	19.81	19.72	19.42				
10	256QAM	1	0	17.41	17.75	17.65	19	5		
10	256QAM	1	25	17.50	17.61	17.63				
10	256QAM	1	49	17.63	17.60	17.44				
10	256QAM	25	12	17.53	17.71	17.64				
10	256QAM	25	12	17.38	17.50	17.51	19	5		
10	256QAM	25	25	17.67	17.63	17.51				
10	256QAM	50	0	17.71	17.61	17.41				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.42	22.61	22.43	24	0		
5	QPSK	1	12	22.38	22.61	22.52				
5	QPSK	1	24	22.82	22.44	22.47				
5	QPSK	12	0	21.53	21.56	21.48	23	1		
5	QPSK	12	7	21.53	21.52	21.50				
5	QPSK	12	13	21.41	21.48	21.50				
5	QPSK	25	0	21.44	21.74	21.61	23	1		
5	16QAM	1	0	21.53	21.73	21.55	23	1		
5	16QAM	1	12	21.50	21.59	21.43				
5	16QAM	1	24	21.48	21.48	21.39				
5	16QAM	12	0	20.50	20.67	20.38	22	2		
5	16QAM	12	7	20.52	20.64	20.47				
5	16QAM	12	13	20.63	20.70	20.67				
5	16QAM	25	0	20.47	20.72	20.42				
5	84QAM	1	0	20.55	20.60	20.53	22	2		
5	84QAM	1	12	20.42	20.61	20.43				
5	84QAM	1	24	20.55	20.48	20.39				
5	84QAM	12	0	19.48	19.62	19.47	21	3		
5	84QAM	12	7	19.47	19.66	19.57				
5	84QAM	12	13	19.54	19.48	19.55				
5	256QAM	1	0	17.51	17.71	17.56	19	5		
5	256QAM	1	12	17.42	17.56	17.58				
5	256QAM	1	24	17.50	17.59	17.59				
5	256QAM	12	0	17.51	17.65	17.49				
5	256QAM	12	6	17.50	17.65	17.65				
5	256QAM	12	7	17.31	17.40	17.69	19	5		
5	256QAM	12	13	17.60	17.55	17.46				
5	256QAM	25	0	17.57	17.69	17.49				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.43	22.62	22.61	24	0		
3	QPSK	1	8	22.58	22.61	22.54				
3	QPSK	1	14	22.51	22.62	22.58				
3	QPSK	8	0	21.49	21.68	21.54	23	1		
3	QPSK	8	4	21.46	21.54	21.43				
3	QPSK	8	7	21.39	21.57	21.63				
3	QPSK	15	0	21.60	21.62	21.58				
3	16QAM	1	0	21.51	21.61	21.50	23	1		
3	16QAM	1	8	21.41	21.54	21.59				
3	16QAM	1	14	21.48	21.48	21.39				
3	16QAM	8	0	20.49	20.57	20.38	22	2		
3	16QAM	8	4	20.48	20.56	20.45				
3	16QAM	8	7	20.48	20.69	20.65				
3	16QAM	15	0	20.46	20.70	20.35				
3	84QAM	1	0	20.42	20.64	20.61	22	2		
3	84QAM	1	8	20.57	20.68	20.38				
3	84QAM	1	14	20.50	20.48	20.46				
3	84QAM	8	0	19.52	19.46	19.57	21	3		
3	84QAM	8								



Band 7 Ant2 Full Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.38	22.44	22.36				
20	QPSK	1	49	22.38	22.37	22.41	24	0		
20	QPSK	1	99	22.38	22.37	22.41				
20	QPSK	50	0	21.30	21.43	21.27				
20	QPSK	50	24	21.30	21.42	21.27	23	1		
20	QPSK	50	50	21.29	21.32	21.37				
20	QPSK	100	0	21.40	21.42	21.27				
20	16QAM	1	0	21.30	21.42	21.32				
20	16QAM	1	49	21.33	21.42	21.29	23	1		
20	16QAM	1	99	21.42	21.29	21.35				
20	16QAM	50	0	20.45	20.41	20.41				
20	16QAM	50	24	20.33	20.41	20.23	22	2		
20	16QAM	50	50	20.30	20.49	20.42				
20	16QAM	100	0	20.41	20.47	20.44				
20	16QAM	1	0	20.42	20.52	20.36				
20	16QAM	1	49	20.28	20.30	20.42	22	2		
20	16QAM	1	99	20.43	20.30	20.47				
20	16QAM	50	0	19.37	19.41	19.33				
20	16QAM	50	24	19.33	19.33	19.41	21	3		
20	16QAM	50	50	19.36	19.28	19.28				
20	16QAM	100	0	19.40	19.33	19.46				
20	256QAM	1	0	17.36	17.45	17.45				
20	256QAM	1	49	17.31	17.44	17.35	19	5		
20	256QAM	1	99	17.48	17.41	17.31				
20	256QAM	50	0	17.36	17.46	17.39				
20	256QAM	50	24	17.45	17.37	17.31	19	5		
20	256QAM	50	50	17.30	17.43	17.39				
20	256QAM	100	0	17.43	17.38	17.37				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.34	22.42	22.32				
15	QPSK	1	37	22.34	22.29	22.29	24	0		
15	QPSK	1	74	22.27	22.32	22.37				
15	QPSK	36	0	21.22	21.39	21.22				
15	QPSK	36	24	21.35	21.29	21.42	23	1		
15	QPSK	36	39	21.29	21.25	21.19				
15	16QAM	1	0	21.40	21.29	21.10				
15	16QAM	1	0	21.26	21.26	21.24				
15	16QAM	1	37	21.31	21.42	21.24	23	1		
15	16QAM	1	74	21.40	21.21	21.10				
15	16QAM	36	0	20.37	20.38	20.28	22	2		
15	16QAM	36	20	20.19	20.36	20.13				
15	16QAM	36	39	20.35	20.29	20.28				
15	16QAM	75	0	20.29	20.45	20.30				
15	16QAM	1	0	20.23	20.45	20.22	22	2		
15	16QAM	1	37	20.43	20.29	20.28				
15	16QAM	1	74	20.43	20.24	20.29				
15	16QAM	36	0	19.25	19.40	19.32				
15	16QAM	36	20	19.38	19.32	19.23	21	3		
15	16QAM	36	39	19.24	19.10	19.22				
15	16QAM	75	0	19.38	19.15	19.36				
15	256QAM	1	0	17.28	17.46	17.31				
15	256QAM	1	37	17.20	17.27	17.27	19	5		
15	256QAM	1	74	17.32	17.34	17.11				
15	256QAM	36	0	17.17	17.24	17.24				
15	256QAM	36	20	17.35	17.20	17.20	19	5		
15	256QAM	36	39	17.20	17.35	17.28				
15	256QAM	75	0	17.28	17.24	17.17				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.35	22.41	22.30				
10	QPSK	1	25	22.23	22.24	22.25	24	0		
10	QPSK	1	49	22.21	22.22	22.35				
10	QPSK	25	0	21.16	21.29	21.17				
10	QPSK	25	12	21.17	21.35	21.28	23	1		
10	QPSK	25	25	21.23	21.25	21.20				
10	16QAM	1	0	21.34	21.29	21.24				
10	16QAM	1	0	21.24	21.31	21.25				
10	16QAM	1	25	21.21	21.34	21.13	23	1		
10	16QAM	1	49	21.25	21.28	21.25				
10	16QAM	25	12	20.19	20.31	20.16	22	2		
10	16QAM	25	25	20.32	20.18	20.26				
10	16QAM	50	0	20.32	20.28	20.27				
10	16QAM	1	0	20.31	20.38	20.19				
10	16QAM	1	25	20.11	20.25	20.13	22	2		
10	16QAM	1	49	20.24	20.17	20.45				
10	16QAM	25	0	19.24	19.34	19.24				
10	16QAM	25	12	19.27	19.33	19.24				
10	16QAM	25	25	19.32	19.24	19.25	21	3		
10	16QAM	50	0	19.23	19.23	19.42				
10	256QAM	1	0	17.22	17.44	17.42				
10	256QAM	1	25	17.28	17.30	17.25	19	5		
10	256QAM	1	49	17.34	17.29	17.19				
10	256QAM	25	0	17.28	17.30	17.21				
10	256QAM	25	12	17.26	17.33	17.28	19	5		
10	256QAM	25	25	17.20	17.32	17.35				
10	256QAM	50	0	17.30	17.25	17.20				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.35	22.39	22.31				
5	QPSK	1	12	22.35	22.23	22.20	24	0		
5	QPSK	1	24	22.35	22.29	22.24				
5	QPSK	12	0	21.14	21.30	21.21				
5	QPSK	12	7	21.19	21.29	21.19	23	1		
5	QPSK	25	0	21.34	21.33	21.15				
5	16QAM	1	0	21.23	21.25	21.13				
5	16QAM	1	12	21.29	21.29	21.11	23	1		
5	16QAM	1	24	21.31	21.16	21.17				
5	16QAM	12	0	20.41	20.26	20.25				
5	16QAM	12	7	20.16	20.25	20.25	22	2		
5	16QAM	12	14	20.29	20.16	20.23				
5	16QAM	25	0	20.37	20.47	20.40				
5	16QAM	1	0	20.31	20.45	20.21	22	2		
5	16QAM	1	12	20.28	20.14	20.22				
5	16QAM	1	24	20.23	20.24	20.39				
5	16QAM	12	0	19.20	19.21	19.22				
5	16QAM	12	7	19.27	19.36	19.27				
5	16QAM	12	14	19.29	19.18	19.24	21	3		
5	16QAM	25	0	19.26	19.30	19.41				
5	256QAM	1	0	17.24	17.29	17.22				
5	256QAM	1	12	17.15	17.28	17.30	19	5		
5	256QAM	1	24	17.33	17.24	17.17				
5	256QAM	12	0	17.14	17.24	17.25				
5	256QAM	12	7	17.34	17.21	17.17	19	5		
5	256QAM	12	14	17.16	17.36	17.27				
5	256QAM	25	0	17.41	17.34	17.25				

Band 12 Ant2 Full Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.58	22.69	22.57				
10	QPSK	1	25	22.61	22.37	22.41	24	0		
10	QPSK	1	49	22.45	22.59	22.62				
10	QPSK	25	0	21.84	21.50	21.68				
10	QPSK	25	12	21.79	21.50	21.68	23	1		
10	QPSK	25	25	21.87	21.91	21.83				
10	QPSK	50	0	21.82	21.50	21.96				
10	16QAM	1	0	22.15	21.44	22.06				
10	16QAM	1	25	22.12	22.15	22.14	23	1		
10	16QAM	1	49	22.14	22.22	22.17				
10	16QAM	25	0	20.95	20.92	20.92				
10	16QAM	25	12	20.99	20.95	20.92	22	2		
10	16QAM	25	25	20.97	21.00	20.91				
10	16QAM	50	0	20.95	21.00	20.97				
10	16QAM	1	0	21.96	21.91	21.92				
10										



Band 17 Ant2 Full Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Mid Ch./Freq.	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)				700	710	711				
10	QPSK	1	0	22.60	22.63	22.67			24	0
10	QPSK	1	24	22.60	22.63	22.67				
10	QPSK	1	48	22.60	22.63	22.67				
10	QPSK	25	0	21.86	21.87	21.88			23	1
10	QPSK	25	12	21.86	21.87	21.88				
10	QPSK	25	24	21.86	21.87	21.88				
10	QPSK	50	0	21.03	21.04	21.05				
10	QPSK	50	12	21.03	21.04	21.05				
10	QPSK	50	24	21.03	21.04	21.05				
10	HOAM	1	24	22.15	22.17	22.18			23	1
10	HOAM	1	48	22.17	22.18	22.19				
10	HOAM	1	72	22.17	22.18	22.19				
10	HOAM	25	12	20.97	20.99	20.99			22	2
10	HOAM	25	24	20.97	20.99	20.99				
10	HOAM	50	0	20.92	20.91	20.90			21	3
10	HOAM	50	12	20.92	20.91	20.90				
10	HOAM	50	24	20.92	20.91	20.90				
10	HOAM	1	0	20.99	20.99	20.99				
10	HOAM	1	24	21.02	21.01	21.01			22	2
10	HOAM	1	48	21.03	21.00	20.99				
10	HOAM	25	0	20.30	20.18	20.29				
10	HOAM	25	12	20.28	20.24	20.30			21	3
10	HOAM	25	24	20.28	20.24	20.30				
10	HOAM	50	0	20.40	20.31	20.38				
10	HOAM	50	12	20.42	20.31	20.32				
10	HOAM	50	24	20.42	20.31	20.32				
10	SSGAM	1	24	17.68	17.71	17.68			19	5
10	SSGAM	1	48	17.71	17.68	17.67				
10	SSGAM	25	12	17.69	17.69	17.67				
10	SSGAM	25	24	17.69	17.69	17.67				
10	SSGAM	50	0	17.78	17.68	17.69			19	5
10	SSGAM	50	12	17.71	17.75	17.71				
10	SSGAM	50	24	17.75	17.75	17.71				
Channel										
Frequency (MHz)				706.5	710	713.5				
5	QPSK	1	0	22.52	22.50	22.48			24	0
5	QPSK	1	12	22.50	22.50	22.50				
5	QPSK	1	24	22.60	22.58	22.58				
5	QPSK	12	0	21.03	21.00	21.00			23	1
5	QPSK	12	7	21.06	21.00	21.02				
5	QPSK	12	13	21.08	21.00	21.04				
5	QPSK	25	0	21.94	21.87	21.88				
5	QPSK	25	12	22.10	22.05	22.05				
5	HOAM	1	12	22.14	22.10	22.10			23	1
5	HOAM	1	24	22.10	22.13	22.07				
5	HOAM	12	0	20.91	20.93	20.93			22	2
5	HOAM	12	7	20.93	20.97	20.95				
5	HOAM	12	13	20.96	20.90	20.91				
5	HOAM	25	0	20.93	20.93	20.95				
5	HOAM	1	0	21.10	21.09	21.12			22	2
5	HOAM	1	24	21.04	20.97	20.99				
5	HOAM	1	48	21.04	20.97	20.99				
5	HOAM	12	0	20.34	20.30	20.28			21	3
5	HOAM	12	7	20.36	20.30	20.31				
5	HOAM	12	13	20.32	20.21	20.33				
5	SSGAM	1	0	17.72	17.71	17.63				
5	SSGAM	1	12	17.73	17.77	17.70			19	5
5	SSGAM	1	24	17.76	17.74	17.70				
5	SSGAM	12	0	17.70	17.75	17.63				
5	SSGAM	12	7	17.64	17.70	17.69				
5	SSGAM	12	13	17.67	17.71	17.70			19	5
5	SSGAM	25	0	17.72	17.78	17.68				

Band 26 Ant2 Full Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Mid Ch./Freq.	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)				821.5	831.5	841.5				
15	QPSK	1	0	22.72	22.69	22.63			24	0
15	QPSK	1	37	22.68	22.42	22.42				
15	QPSK	1	74	22.48	22.52	22.48				
15	QPSK	36	0	21.65	21.76	21.38			23	1
15	QPSK	36	20	21.65	21.50	21.44				
15	QPSK	36	39	21.84	21.48	21.41				
15	QPSK	75	0	21.63	21.65	21.40				
15	HOAM	1	0	21.68	21.73	21.65			23	1
15	HOAM	1	37	21.77	21.56	21.59				
15	HOAM	1	74	21.70	21.60	21.54				
15	HOAM	36	0	20.97	20.47	20.38			22	2
15	HOAM	36	20	20.96	20.54	20.45				
15	HOAM	36	39	20.81	20.47	20.42				
15	HOAM	75	0	20.98	20.52	20.41				
15	HOAM	1	0	20.75	20.59	20.56			22	2
15	HOAM	1	37	20.71	20.59	20.52				
15	HOAM	1	74	20.62	20.52	20.56				
15	HOAM	36	0	19.62	19.51	19.29			21	3
15	HOAM	36	20	19.62	19.52	19.42				
15	HOAM	36	39	19.59	19.49	19.41				
15	HOAM	75	0	19.65	19.51	19.42				
15	SSGAM	1	0	17.75	17.71	17.68			19	5
15	SSGAM	1	37	17.75	17.68	17.70				
15	SSGAM	1	74	17.75	17.75	17.68				
15	SSGAM	36	0	17.66	17.66	17.64			21	3
15	SSGAM	36	20	17.69	17.66	17.66				
15	SSGAM	36	39	17.70	17.76	17.70				
15	SSGAM	75	0	17.60	17.72	17.66			19	5
Channel										
Frequency (MHz)				810	831.5	844				
10	QPSK	1	0	22.51	22.52	22.27			24	0
10	QPSK	1	24	22.46	22.46	22.46				
10	QPSK	1	48	22.51	22.40	22.37				
10	QPSK	25	0	21.79	21.57	21.48			23	1
10	QPSK	25	12	21.80	21.65	21.65				
10	QPSK	25	24	21.77	21.62	21.51				
10	HOAM	1	0	21.79	21.62	21.41				
10	HOAM	1	24	22.08	21.91	21.73			23	1
10	HOAM	1	25	21.99	21.83	21.73				
10	HOAM	1	48	21.96	21.86	21.84				
10	HOAM	25	0	20.84	20.61	20.50			22	2
10	HOAM	25	15	20.84	20.69	20.52				
10	HOAM	25	12	20.84	20.69	20.52				
10	HOAM	50	0	20.80	20.64	20.47				
10	HOAM	1	0	20.92	20.75	20.64			22	2
10	HOAM	1	24	20.82	20.68	20.64				
10	HOAM	1	48	20.84	20.69	20.55				
10	HOAM	25	0	19.88	19.67	19.62			21	3
10	HOAM	25	12	19.84	19.68	19.64				
10	HOAM	25	24	19.84	19.68	19.64				
10	HOAM	50	0	19.81	19.64	19.49				
10	HOAM	50	12	19.77	19.56	19.44				
10	HOAM	50	24	19.77	19.56	19.44				
10	SSGAM	1	25	17.69	17.68	17.61			19	5
10	SSGAM	1	49	17.69	17.69	17.69				
10	SSGAM	25	12	17.66	17.66	17.61				
10	SSGAM	25	12	17.63	17.68	17.62			19	5
10	SSGAM	25	25	17.62	17.67	17.69				
10	SSGAM	50	0	17.68	17.74	17.68				
Channel										
Frequency (MHz)				807.5	831.5	846.5				
5	QPSK	1	0	22.47	22.51	22.23			24	0
5	QPSK	1	12	22.37	22.40	22.42				
5	QPSK	1	24	22.46	22.46	22.38				
5	QPSK	12	0	21.62	21.54	21.45			23	1
5	QPSK	12	7	21.81	21.62	21.48				
5	QPSK	12	13	21.77	21.58	21.48				
5	HOAM	1	0	22.05	21.82	21.69			23	1
5	HOAM	1	12							



Band 42 FCC Ant4 Full 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				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	23.64	23.82	23.69	25	0	
20	QPSK	1	49	23.76	23.78	23.72			
20	QPSK	1	99	23.81	23.78	23.76			
20	QPSK	50	0	22.94	23.05	22.96	24	1	
20	QPSK	50	24	23.03	23.00	23.04			
20	QPSK	50	50	22.90	22.97	22.95			
20	QPSK	100	0	22.97	23.03	23.02	24	1	
20	16QAM	1	0	22.89	22.95	22.88			
20	16QAM	1	49	22.81	22.89	22.83			
20	16QAM	1	99	22.85	22.93	22.92	23	2	
20	16QAM	50	0	22.07	22.12	22.08			
20	16QAM	50	24	22.02	22.09	22.09			
20	16QAM	50	50	21.96	22.05	22.04	23	2	
20	16QAM	100	0	21.98	22.08	22.03			
20	64QAM	1	0	21.48	21.55	21.48			
20	64QAM	1	49	21.38	21.42	21.41	23	2	
20	64QAM	1	99	21.26	21.36	21.34			
20	64QAM	50	0	20.82	20.91	20.87			
20	64QAM	50	24	20.76	20.86	20.82	22	3	
20	64QAM	50	50	20.64	20.73	20.67			
20	64QAM	100	0	20.77	20.80	20.75			
20	256QAM	1	0	19.00	19.02	18.99	20	5	
20	256QAM	1	49	18.73	18.83	18.76			
20	256QAM	1	99	18.86	18.92	18.93			
20	256QAM	50	0	19.21	19.21	19.17	20	5	
20	256QAM	50	24	19.12	19.17	19.10			
20	256QAM	50	50	19.10	19.13	19.10			
20	256QAM	100	0	19.04	19.14	19.14			
Channel				42165	42590	43015			
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	23.62	23.74	23.67	25	0	
15	QPSK	1	37	23.73	23.73	23.68			
15	QPSK	1	74	23.81	23.81	23.76			
15	QPSK	36	0	22.90	23.01	22.89	24	1	
15	QPSK	36	20	22.98	23.04	22.98			
15	QPSK	36	39	22.90	22.96	22.94			
15	QPSK	75	0	22.96	22.96	22.99	24	1	
15	16QAM	1	0	22.89	22.95	22.82			
15	16QAM	1	37	22.76	22.89	22.79			
15	16QAM	1	74	22.82	22.91	22.87	23	2	
15	16QAM	36	0	22.05	22.10	22.06			
15	16QAM	36	20	22.03	22.08	22.04			
15	16QAM	36	39	21.91	22.02	22.04	23	2	
15	16QAM	75	0	21.98	22.07	21.98			
15	64QAM	1	0	21.46	21.55	21.42			
15	64QAM	1	37	21.33	21.39	21.38	23	2	
15	64QAM	1	74	21.20	21.31	21.33			
15	64QAM	36	0	20.79	20.86	20.83			
15	64QAM	36	20	20.74	20.79	20.79	22	3	
15	64QAM	36	39	20.65	20.66	20.64			
15	64QAM	75	0	20.76	20.73	20.76			
15	256QAM	1	0	18.98	18.96	18.96	20	5	
15	256QAM	1	37	18.74	18.79	18.72			
15	256QAM	1	74	18.79	18.91	18.86			
15	256QAM	36	0	19.16	19.20	19.17	20	5	
15	256QAM	36	20	19.12	19.15	19.09			
15	256QAM	36	39	19.04	19.08	19.10			
15	256QAM	75	0	18.98	19.09	19.11			
Channel				42140	42590	43040			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	23.60	23.71	23.64	25	0	
10	QPSK	1	25	23.68	23.75	23.67			
10	QPSK	1	49	23.77	23.78	23.70			
10	QPSK	25	0	22.84	22.93	22.91	24	1	
10	QPSK	25	12	22.95	23.01	23.00			
10	QPSK	25	25	22.81	22.89	22.93			
10	QPSK	50	0	22.90	22.95	22.98	24	1	
10	16QAM	1	0	22.80	22.87	22.85			
10	16QAM	1	25	22.76	22.85	22.77			
10	16QAM	1	49	22.75	22.89	22.84	23	2	
10	16QAM	25	0	22.03	22.04	22.03			
10	16QAM	25	12	21.92	22.02	22.04			
10	16QAM	25	25	21.90	21.97	21.96	23	2	
10	16QAM	50	0	21.94	22.05	21.98			
10	64QAM	1	0	21.42	21.51	21.39			
10	64QAM	1	25	21.34	21.33	21.38	23	2	
10	64QAM	1	49	21.20	21.28	21.28			
10	64QAM	25	0	20.77	20.83	20.79			
10	64QAM	25	12	20.71	20.80	20.75	22	3	
10	64QAM	25	25	20.56	20.65	20.61			
10	64QAM	50	0	20.73	20.78	20.66			
10	256QAM	1	0	18.93	18.98	18.94	20	5	
10	256QAM	1	25	18.67	18.79	18.71			
10	256QAM	1	49	18.78	18.89	18.84			
10	256QAM	25	0	19.17	19.17	19.10	20	5	
10	256QAM	25	12	19.05	19.13	19.02			
10	256QAM	25	25	19.02	19.11	19.02			
10	256QAM	50	0	18.99	19.12	19.05			
Channel				42115	42590	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	23.60	23.72	23.65	25	0	
5	QPSK	1	12	23.72	23.75	23.69			
5	QPSK	1	24	23.74	23.78	23.71			
5	QPSK	12	0	22.90	22.95	22.90	24	1	
5	QPSK	12	7	22.97	23.05	23.00			
5	QPSK	12	13	22.87	22.92	22.91			
5	QPSK	25	0	22.92	22.99	22.96	24	1	
5	16QAM	1	0	22.83	22.92	22.83			
5	16QAM	1	12	22.75	22.86	22.79			
5	16QAM	1	24	22.79	22.88	22.87	23	2	
5	16QAM	12	0	22.03	22.08	22.04			
5	16QAM	12	7	21.96	22.05	22.03			
5	16QAM	12	13	21.91	21.99	22.01	23	2	
5	16QAM	25	0	21.93	22.05	21.97			
5	64QAM	1	0	21.44	21.50	21.44			
5	64QAM	1	12	21.33	21.37	21.38	23	2	
5	64QAM	1	24	21.22	21.29	21.28			
5	64QAM	12	0	20.79	20.87	20.81			
5	64QAM	12	7	20.70	20.81	20.79	22	3	
5	64QAM	12	13	20.60	20.67	20.62			
5	64QAM	25	0	20.72	20.77	20.70			
5	256QAM	1	0	18.96	18.96	18.92	20	5	
5	256QAM	1	12	18.68	18.77	18.69			
5	256QAM	1	24	18.82	18.89	18.90			
5	256QAM	12	0	19.17	19.17	19.10	20	5	
5	256QAM	12	7	19.08	19.11	19.04			
5	256QAM	12	13	19.04	19.09	19.05			
5	256QAM	25	0	18.99	19.10	19.09			



Reduced Power Mode for WWAN

GSM850	Ant1 DS12			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	Burst Average Power (dBm)	128	189		251	128	189	
TX Channel	82.2	83.4	84.6	33.5	82.2	83.4	84.6	24.50
Frequency (MHz)	32.26	32.51	32.48	33.50	32.26	32.51	32.48	24.50
GSM 1 Tx slot	32.34	32.64	32.66	33.50	23.34	23.64	23.66	24.50
GPRS 1 Tx slot	30.45	30.69	30.43	32.00	24.45	24.69	24.43	26.00
GPRS 2 Tx slots	28.75	28.94	28.56	30.00	24.49	24.68	24.30	25.74
GPRS 3 Tx slots	27.52	27.43	27.60	28.00	24.52	24.43	24.60	25.00
GPRS 4 Tx slots	24.51	24.56	24.78	25.00	15.51	15.56	15.78	16.00
EDGE 1 Tx slot	22.63	22.59	22.90	23.00	16.63	16.59	16.90	17.00
EDGE 2 Tx slots	21.18	21.06	21.39	21.50	16.92	16.80	17.13	17.24
EDGE 3 Tx slots	19.65	19.71	19.85	20.00	16.65	16.71	16.85	17.00
EDGE 4 Tx slots								

GSM1900	Ant1 DS12			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	Burst Average Power (dBm)	512	661		810	512	661	
TX Channel	1850.2	1880	1909.8	30.50	1850.2	1880	1909.8	21.50
Frequency (MHz)	30.13	30.25	30.33	30.50	21.13	21.25	21.33	21.50
GSM 1 Tx slot	30.23	30.38	30.42	30.50	21.23	21.38	21.42	21.50
GPRS 1 Tx slot	27.71	27.79	27.78	28.00	21.71	21.79	21.78	22.00
GPRS 2 Tx slots	25.75	25.66	25.81	26.00	21.49	21.40	21.55	21.74
GPRS 3 Tx slots	24.29	24.19	24.33	24.50	21.29	21.19	21.33	21.50
GPRS 4 Tx slots	25.18	25.47	25.51	25.00	18.18	18.47	18.51	17.50
EDGE 1 Tx slot	24.28	24.55	24.27	25.00	18.26	18.55	18.27	19.00
EDGE 2 Tx slots	22.83	23.06	22.85	23.50	18.57	18.80	18.59	19.24
EDGE 3 Tx slots	21.15	21.41	21.17	21.50	18.15	18.41	18.17	18.50
EDGE 4 Tx slots								

Band	Ant1 DS12			Tune-up Limit (dBm)	Ant1 DS12			Tune-up Limit (dBm)	Ant1 DS12			Tune-up Limit (dBm)
	WCDMA II				WCDMA IV				WCDMA V			
TX Channel	9262	9400	9538	1312	1413	1513	4132	4182	4233			
Frequency (MHz)	1852.4	1880	1907.6	172.4	172.6	172.8	4357	4407	4458	836.4	836.4	836.6
3GPP Rel 99 AMR 12.2Kbps	22.87	22.84	22.78	24.00	22.77	22.68	22.71	24.00	22.59	22.55	22.45	24.00
3GPP Rel 99 RMC 12.2Kbps	22.91	22.93	22.84	24.00	22.91	22.87	22.75	24.00	22.68	22.72	22.57	24.00
3GPP Rel 6 HSDPA Subtest-1	21.94	22.15	22.27	23.00	21.85	22.14	22.32	23.00	21.76	22.05	22.13	23.00
3GPP Rel 6 HSDPA Subtest-2	21.95	22.19	22.35	23.00	21.85	22.10	22.26	23.00	21.74	21.96	22.18	23.00
3GPP Rel 6 HSDPA Subtest-3	21.45	21.70	21.89	22.50	21.37	21.59	21.78	22.50	21.26	21.48	21.67	22.50
3GPP Rel 6 HSDPA Subtest-4	21.43	21.62	21.77	22.50	21.37	21.57	21.79	22.50	21.30	21.47	21.62	22.50
3GPP Rel 6 DC-HSDPA Subtest-1	21.93	22.11	22.20	23.00	21.87	22.10	22.17	23.00	21.73	21.94	22.04	23.00
3GPP Rel 6 DC-HSDPA Subtest-2	21.87	22.16	22.21	23.00	21.84	22.09	22.10	23.00	21.66	21.93	22.00	23.00
3GPP Rel 6 DC-HSDPA Subtest-3	21.43	21.62	21.80	22.50	21.39	21.63	21.70	22.50	21.30	21.49	21.64	22.50
3GPP Rel 6 DC-HSDPA Subtest-4	21.33	21.57	21.81	22.50	21.33	21.48	21.72	22.50	21.24	21.44	21.60	22.50
3GPP Rel 6 HSUPA Subtest-1	21.92	22.17	22.31	23.00	21.93	22.16	22.23	23.00	21.81	22.04	22.13	23.00
3GPP Rel 6 HSUPA Subtest-2	19.93	20.11	20.24	21.00	19.95	20.11	20.27	21.00	19.81	19.98	20.09	21.00
3GPP Rel 6 HSUPA Subtest-3	20.98	21.11	21.33	22.00	20.88	21.09	21.27	22.00	20.78	20.98	21.18	22.00
3GPP Rel 6 HSUPA Subtest-4	19.95	20.17	20.35	21.00	19.92	20.16	20.31	21.00	19.82	20.04	20.20	21.00
3GPP Rel 6 HSUPA Subtest-5	21.88	22.21	22.28	23.00	21.88	22.13	22.30	23.00	21.76	22.08	22.14	23.00

Band	Ant2 DS12			Tune-up Limit (dBm)
	WCDMA V			
TX Channel	4132	4182	4233	
Frequency (MHz)	4357	4407	4458	
3GPP Rel 99 AMR 12.2Kbps	22.49	22.55	22.42	24.00
3GPP Rel 99 RMC 12.2Kbps	22.61	22.69	22.54	24.00
3GPP Rel 6 HSDPA Subtest-1	22.15	22.16	22.10	23.00
3GPP Rel 6 HSDPA Subtest-2	22.20	22.13	22.06	23.00
3GPP Rel 6 HSDPA Subtest-3	21.72	21.69	21.58	22.50
3GPP Rel 6 HSDPA Subtest-4	21.72	21.65	21.60	22.50
3GPP Rel 6 DC-HSDPA Subtest-1	22.14	22.12	22.04	23.00
3GPP Rel 6 DC-HSDPA Subtest-2	22.16	22.11	22.00	23.00
3GPP Rel 6 DC-HSDPA Subtest-3	21.68	21.67	21.53	22.50
3GPP Rel 6 DC-HSDPA Subtest-4	21.89	21.55	21.45	22.50
3GPP Rel 6 HSUPA Subtest-1	22.20	22.13	22.04	23.00
3GPP Rel 6 HSUPA Subtest-2	20.15	20.10	20.10	21.00
3GPP Rel 6 HSUPA Subtest-3	21.19	21.13	21.02	22.00
3GPP Rel 6 HSUPA Subtest-4	20.27	20.13	20.08	21.00
3GPP Rel 6 HSUPA Subtest-5	22.11	22.14	22.02	23.00



Band 2 Ant1 DS1Z													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Max Ch./Freq.	Time-up (min)	MPR (dB)					
Channel													
Frequency (MHz)													
20	QPSK	1	0	23.17	23.19	23.26			24	0			
20	QPSK	1	99	22.87	22.89	22.71							
20	QPSK	50	0	22.07	22.03	22.11			23	1			
20	QPSK	50	24	22.18	22.09	22.06							
20	QPSK	50	50	22.11	22.01	21.88							
20	QPSK	100	0	22.16	22.18	22.06							
20	HQAM	1	0	22.49	22.31	22.38			23	1			
20	HQAM	1	49	22.27	22.28	22.27							
20	HQAM	1	99	22.23	22.22	22.06							
20	HQAM	50	0	21.27	21.06	21.11			22	2			
20	HQAM	50	24	21.21	21.07	21.09							
20	HQAM	50	50	21.19	21.04	21.03							
20	HQAM	100	0	21.17	21.02	21.06							
20	HQAM	1	0	21.32	21.26	21.25			22	2			
20	HQAM	1	49	21.07	21.29	21.24							
20	HQAM	1	99	20.35	20.07	20.09							
20	HQAM	25	24	20.17	20.09	20.09			21	3			
20	HQAM	25	50	20.19	20.03	20.05							
20	HQAM	50	0	20.19	20.08	20.05							
20	HQAM	1	0	19.87	18.92	18.94			19	5			
20	HQAM	1	49	17.87	18.03	17.98							
20	HQAM	1	99	17.83	18.08	18.06							
20	HQAM	50	0	17.86	18.02	18.06			19	5			
20	HQAM	50	24	17.78	17.97	17.98							
20	HQAM	50	50	17.82	18.07	18.06							
20	HQAM	100	0	17.84	18.01	17.97							
Channel													
Frequency (MHz)													
16	QPSK	1	0	23.09	22.98	22.96			24	0			
16	QPSK	1	97	23.04	23.07	22.87							
16	QPSK	1	74	22.96	22.93	22.75							
16	QPSK	36	0	22.23	22.02	22.05			23	1			
16	QPSK	36	24	22.29	22.03	22.03							
16	QPSK	36	36	22.12	22.02	21.82							
16	QPSK	75	0	22.18	22.04	22.01							
16	HQAM	1	0	22.28	22.32	22.29			23	1			
16	HQAM	1	37	22.34	22.31	22.24							
16	HQAM	1	74	22.27	22.14	22.11							
16	HQAM	36	0	21.27	21.05	21.07			22	2			
16	HQAM	36	20	21.21	21.07	21.05							
16	HQAM	75	0	21.20	21.07	21.05							
16	HQAM	1	0	21.38	21.20	21.32			22	2			
16	HQAM	1	37	21.34	21.23	21.16							
16	HQAM	1	74	21.17	21.15	21.15							
16	HQAM	36	0	20.25	20.07	20.07			21	3			
16	HQAM	36	20	20.18	20.09	20.09							
16	HQAM	36	36	20.13	20.00	19.95							
16	HQAM	75	0	20.22	20.05	20.04							
16	HQAM	1	0	17.86	18.08	18.08			19	5			
16	HQAM	1	37	17.91	18.03	17.91							
16	HQAM	1	74	17.76	18.02	18.03							
16	HQAM	36	0	17.82	18.03	18.03			19	5			
16	HQAM	36	20	17.77	17.90	17.92							
16	HQAM	36	36	17.75	18.07	18.04							
16	HQAM	75	0	17.77	18.01	17.97							
Channel													
Frequency (MHz)													
10	QPSK	1	0	23.05	23.14	22.98			24	0			
10	QPSK	1	25	23.10	23.14	22.98							
10	QPSK	1	49	23.06	23.04	22.87							
10	QPSK	25	0	22.40	22.23	22.16			23	1			
10	QPSK	25	12	22.34	22.17	22.13							
10	QPSK	25	25	22.28	22.11	22.03							
10	HQAM	1	0	22.69	22.48	22.46			23	1			
10	HQAM	1	25	22.56	22.42	22.27							
10	HQAM	1	49	22.47	22.34	22.24							
10	HQAM	25	0	21.43	21.22	21.21			22	2			
10	HQAM	25	12	21.37	21.22	21.15							
10	HQAM	25	25	21.28	21.08	21.06							
10	HQAM	50	0	21.34	21.18	21.16							
10	HQAM	1	0	21.35	21.39	21.27			22	2			
10	HQAM	1	25	21.32	21.21	21.21							
10	HQAM	1	49	21.31	21.28	21.13							
10	HQAM	25	0	20.40	20.23	20.18			21	3			
10	HQAM	25	12	20.38	20.22	20.17							
10	HQAM	25	25	20.28	20.09	20.02							
10	HQAM	50	0	20.33	20.16	20.12							
10	HQAM	1	0	17.82	18.01	18.01			19	5			
10	HQAM	1	25	17.83	18.19	18.05							
10	HQAM	1	49	17.82	18.15	18.21							
10	HQAM	25	0	17.85	18.12	18.14			19	5			
10	HQAM	25	12	17.89	18.03	18.08							
10	HQAM	25	25	17.88	18.14	18.20							
10	HQAM	50	0	17.87	18.10	18.10							
Channel													
Frequency (MHz)													
5	QPSK	1	0	23.14	23.02	22.95			24	0			
5	QPSK	1	12	23.05	23.15	22.95							
5	QPSK	1	24	23.15	23.06	22.87							
5	QPSK	12	0	22.41	22.23	22.16			23	1			
5	QPSK	12	7	22.38	22.22	22.06							
5	QPSK	12	13	22.28	22.14	21.98							
5	HQAM	1	0	22.62	22.48	22.28			23	1			
5	HQAM	1	12	22.62	22.49	22.24							
5	HQAM	1	24	22.47	22.35	22.15							
5	HQAM	12	0	21.48	21.21	21.13			22	2			
5	HQAM	12	7	21.42	21.26	21.10							
5	HQAM	12	13	21.36	21.17	21.08							
5	HQAM	25	0	21.35	21.18	21.05							
5	HQAM	1	0	21.30	21.27	21.22			22	2			
5	HQAM	1	12	21.40	21.12	21.12							
5	HQAM	1	24	21.43	21.29	21.20							
5	HQAM	12	0	20.45	20.25	20.15			21	3			
5	HQAM	12	7	20.39	20.29	20.08							
5	HQAM	12	13	20.28	20.17	20.00							
5	HQAM	25	0	20.36	20.14	20.04							
5	HQAM	25	7	19.89	18.20	18.22			19	5			
5	HQAM	25	12	17.95	18.11	18.03							
5	HQAM	1	24	17.91	18.13	18.13							
5	HQAM	12	0	17.86	18.08	18.08			19	5			
5	HQAM	12	7	17.85	18.04	18.04							
5	HQAM	12	13	17.88	18.14	18.14							
5	HQAM	25	0	17.83	18.05	18.13							
Channel													
Frequency (MHz)													
3	QPSK	1	0	23.15	23.02	22.94			24	0			
3	QPSK	1	8	22.95	22.91	22.88							
3	QPSK	1	14	23.17	23.05	22.85							
3	QPSK	1	22	23.04	22.92	22.74							
3	QPSK	8	4	22.40	22.25	22.02			23	1			
3	QPSK	8	7	22.26	22.14	21.94							
3	QPSK	8	14	22.43	22.27	22.07							
3	HQAM	1	0	22.51	22.51	22.32			23	1			
3	HQAM	1	8	22.65	22.50	22.29							
3	HQAM	1	14	22.43	22.31	22.35							
3	HQAM	8	4	21.44	21.31	21.10			22	2			
3	HQAM	8	7	21.32	21.19	20.98							
3	HQAM	16											



Band 5 Ant1 DS12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Ch./F.Freq.	Power Ch./F.Freq.	Turn-up (dB)	MFR (dB)		
Channel										
Frequency (MHz)				820	836.5	844				
10	QPSK	1	0	22.82	22.70	22.82				
10	QPSK	1	24	22.84	22.82	22.73		24	0	
10	QPSK	25	0	21.88	21.94	21.89				
10	QPSK	25	24	21.90	21.92	21.83		23	1	
10	QPSK	25	24	21.89	21.92	21.92				
10	QPSK	50	0	21.82	21.93	21.84				
10	QPSK	50	24	22.27	22.23	22.13		23	1	
10	HQAM	1	0	22.28	22.21	22.15				
10	HQAM	1	48	22.25	22.18	22.14				
10	HQAM	25	0	21.90	21.98	21.92				
10	HQAM	25	12	21.98	21.97	21.93		22	2	
10	HQAM	25	24	21.94	21.98	21.91				
10	HQAM	50	0	21.88	21.92	21.88				
10	HQAM	50	24	21.84	21.92	21.92				
10	HQAM	1	0	21.84	21.92	21.92				
10	HQAM	1	24	21.86	21.92	21.94		22	2	
10	HQAM	25	0	21.86	21.92	21.94				
10	HQAM	25	12	21.90	21.99	21.92		21	3	
10	HQAM	25	24	21.92	21.96	21.93				
10	HQAM	50	0	21.86	21.93	21.89				
10	HQAM	50	24	21.82	21.91	21.87				
10	ZSSBAM	1	24	18.06	18.04	18.11		19	5	
10	ZSSBAM	1	48	18.03	18.00	18.07				
10	ZSSBAM	25	0	18.02	18.03	18.08				
10	ZSSBAM	25	12	18.02	17.98	18.09		19	5	
10	ZSSBAM	25	24	18.05	18.02	18.10				
10	ZSSBAM	50	0	18.04	18.01	18.09				
10	ZSSBAM	50	24	18.03	18.05	18.02				
Channel										
				838.5	836.5	848.5				
5	QPSK	1	0	22.75	22.80	22.74				
5	QPSK	1	24	22.83	22.88	22.77		24	0	
5	QPSK	12	0	22.02	21.92	21.86				
5	QPSK	12	24	22.07	22.04	21.96		23	1	
5	QPSK	12	12	22.01	21.95	21.86				
5	QPSK	25	0	22.02	21.99	21.89				
5	QPSK	25	24	22.02	22.02	22.08		23	1	
5	HQAM	1	12	22.28	22.25	22.08				
5	HQAM	1	48	22.24	22.14	22.08				
5	HQAM	12	0	21.04	20.96	20.84				
5	HQAM	12	7	21.05	20.92	20.82		22	2	
5	HQAM	12	14	21.02	21.06	21.00				
5	HQAM	25	0	21.04	20.90	20.82				
5	HQAM	1	0	21.10	21.13	21.03				
5	HQAM	1	24	21.12	21.14	21.03		22	2	
5	HQAM	12	0	20.94	19.94	19.90				
5	HQAM	12	7	20.93	19.95	19.87				
5	HQAM	12	14	20.93	19.98	19.94		21	3	
5	HQAM	25	0	20.90	19.98	19.80				
5	HQAM	25	24	20.92	20.99	20.88				
5	ZSSBAM	1	24	18.17	18.16	18.23		19	5	
5	ZSSBAM	1	48	18.12	18.11	18.14				
5	ZSSBAM	25	0	18.02	18.13	18.23				
5	ZSSBAM	25	12	18.02	18.08	18.20		19	5	
5	ZSSBAM	25	24	18.16	18.13	18.17				
5	ZSSBAM	50	0	18.04	18.04	18.17				
5	ZSSBAM	50	24	18.05	18.05	18.05				
Channel										
				847	836.5	847.5				
3	QPSK	1	0	22.81	22.81	22.81				
3	QPSK	1	8	22.82	22.87	22.79		24	0	
3	QPSK	1	14	22.87	22.83	22.81				
3	QPSK	8	0	22.84	22.84	22.84				
3	QPSK	8	4	22.81	21.88	21.89		23	1	
3	QPSK	8	7	21.87	21.93	21.84				
3	QPSK	16	0	22.82	22.82	22.82				
3	HQAM	1	0	22.27	22.19	22.08				
3	HQAM	1	8	22.26	22.22	22.22		23	1	
3	HQAM	1	14	22.28	22.20	22.20				
3	HQAM	8	0	21.03	20.89	20.90				
3	HQAM	8	4	21.07	20.94	20.94		22	2	
3	HQAM	8	7	20.92	20.97	20.90				
3	HQAM	16	0	21.00	20.90	20.89				
3	HQAM	1	0	21.16	21.11	21.03				
3	HQAM	1	8	21.25	21.20	21.08		22	2	
3	HQAM	1	14	21.12	21.07	20.95				
3	HQAM	8	0	20.94	19.91	19.90				
3	HQAM	8	4	19.87	19.86	19.87				
3	HQAM	8	7	20.02	20.00	19.87		21	3	
3	ZSSBAM	1	8	17.99	17.99	18.05		19	5	
3	ZSSBAM	1	14	17.97	17.96	18.03				
3	ZSSBAM	8	0	18.04	17.99	18.05				
3	ZSSBAM	8	4	17.97	17.95	18.04		19	5	
3	ZSSBAM	8	7	17.96	17.97	18.02				
3	ZSSBAM	16	0	17.90	17.81	17.84				
Channel										
				2607	2625	2643				
1.4	QPSK	1	0	22.81	22.74	22.62				
1.4	QPSK	1	3	22.87	22.85	22.76		24	0	
1.4	QPSK	1	5	22.89	22.74	22.63				
1.4	QPSK	3	0	22.83	22.75	22.70				
1.4	QPSK	3	1	22.88	22.81	22.71		23	1	
1.4	QPSK	3	3	22.82	22.77	22.68				
1.4	HQAM	1	0	21.84	21.76	21.62				
1.4	HQAM	1	3	22.10	22.03	21.99		23	1	
1.4	HQAM	1	5	22.11	22.07	21.99				
1.4	HQAM	3	0	21.88	21.82	21.73				
1.4	HQAM	3	1	22.02	21.88	21.78		23	1	
1.4	HQAM	3	3	21.84	21.85	21.75				
1.4	HQAM	6	0	20.84	20.83	20.83		22	2	
1.4	HQAM	6	3	21.06	20.97	20.89				
1.4	HQAM	1	0	21.01	20.96	20.82				
1.4	HQAM	1	3	21.07	20.97	20.88		22	2	
1.4	HQAM	3	0	20.96	20.94	20.88				
1.4	HQAM	3	1	21.01	20.98	20.82				
1.4	HQAM	3	3	20.94	20.89	20.82		21	3	
1.4	HQAM	6	0	19.82	19.81	19.78				
1.4	HQAM	6	3	19.83	19.81	19.82				
1.4	ZSSBAM	1	3	18.08	17.99	18.08		19	5	
1.4	ZSSBAM	1	5	18.04	18.00	18.09				
1.4	ZSSBAM	3	0	18.00	18.04	18.12				
1.4	ZSSBAM	3	1	17.97	17.96	18.07				
1.4	ZSSBAM	3	3	18.00	17.99	18.04		19	5	
1.4	ZSSBAM	6	0	17.86	17.86	17.89				

Band 5 Ant1 DS12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Ch./F.Freq.	Power Ch./F.Freq.	Turn-up (dB)	MFR (dB)		
Channel										
Frequency (MHz)				820	836.5	844				
10	QPSK	1	0	22.82	22.70	22.84				
10	QPSK	1	24	22.84	22.48	22.46		24	0	
10	QPSK	25	0	21.85	21.74	21.51				
10	QPSK	25	24	21.87	21.89	21.84		23	1	
10	QPSK	25	24	21.85	21.61	21.58				
10	QPSK	50	0	21.89	21.71	21.54				
10	QPSK	50	24	21.92	21.88	21.78		23	1	
10	HQAM	1	0	21.84	21.83	21.77				
10	HQAM	1	48	21.85	21.81	21.71				
10	HQAM	25	0	21.83	21.82	21.84				
10	HQAM	25	12	21.78	21.76	21.71		22	2	
10	HQAM	25	24	21.82	21.82	21.80				
10	HQAM	50	0	21.82	21.82	21.80				
10	HQAM	50	24	21.74	21.76	21.77		19	5	
10	HQAM	1	0	21.74	21.76	21.77				
10	HQAM	1	24	21.76	21.76	21.76		22	2	
10	HQAM	25	0	21.76	21.76	21.76				
10	HQAM	25	12	21.70	21.73	21.73		19	5	
10	HQAM	25	24	21.74	21.73	21.73				
10	HQAM	50	0	21.74	21.73	21.73				
10	HQAM	50	24	21.76	21.76	21.76		19	5	
Channel										
				2625	2625	2625				
5	QPSK	1	0	22.52	22.54	22.40				
5	QPSK	1	24	22.58	22.48	22.42		24	0	
5	QPSK	12	0	21.87	21.86	21.48				
5	QPSK	12	24	21.86	21.83	21.43		23	1	
5	QPSK	12	12	21.84	21.60	21.51				
5	QPSK	25	0	21.85	21.86	21.43				
5	QPSK	25	24	21.88	21.86	21.43		23	1	
5	HQAM	1	12	21.83	21.88	21.78				
5	HQAM	1	48	21.71	21.69	21.66		23	1	
5	HQAM	12	0	20.75	20.71	20.68				
5	HQAM	12	7	20.87	20.87	20.48		22	2	
5	HQAM	12	14	20.79	20.79	20.49				
5	HQAM	25	0	20.69	20.58	20.47				
5	HQAM	1	0	20.92	20.81	20.55				
5	HQAM	1	8	21.01	20.98	20.76		22	2	



Band 12 Ant1 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.87	22.99	22.78			
10	QPSK	1	25	22.88	22.99	22.81			
10	QPSK	1	49	22.82	22.84	22.88			
10	QPSK	25	0	22.07	22.18	22.08			
10	QPSK	25	12	22.09	22.11	22.09			
10	QPSK	25	25	22.17	22.08	22.09			
10	QPSK	50	0	22.14	22.16	22.14			
10	QPSK	50	12	22.42	22.41	22.14			
10	HQAM	1	25	22.41	22.40	22.41			
10	HQAM	1	49	22.43	22.49	22.43			
10	HQAM	25	0	21.26	21.12	21.19			
10	HQAM	25	12	21.21	21.21	21.17			
10	HQAM	25	25	21.16	21.20	21.26			
10	HQAM	50	0	21.15	21.20	21.14			
10	HQAM	50	12	21.26	21.29	21.26			
10	HQAM	50	25	21.21	21.24	21.23			
10	HQAM	50	49	21.27	21.31	21.25			
10	HQAM	25	0	20.08	20.11	20.16			
10	HQAM	25	12	20.20	20.23	20.14			
10	HQAM	25	25	20.18	20.22	20.29			
10	HQAM	50	0	20.19	20.19	20.15			
10	HQAM	50	12	20.24	20.26	20.23			
10	HQAM	50	25	18.22	18.22	18.19			
10	HQAM	50	49	18.10	18.12	18.08			
10	HQAM	25	0	18.24	18.26	18.23			
10	HQAM	25	12	17.94	17.99	17.96			
10	HQAM	25	25	17.82	17.96	17.83			
10	HQAM	50	0	17.93	17.96	17.83			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.81	22.80	22.83			
5	QPSK	1	25	22.80	22.87	22.80			
5	QPSK	1	24	22.87	22.84	22.84			
5	QPSK	12	0	22.14	22.11	22.12			
5	QPSK	12	7	22.14	22.12	22.13			
5	QPSK	12	13	22.13	22.15	22.14			
5	QPSK	25	0	22.12	22.21	22.08			
5	HQAM	1	25	22.32	22.34	22.42			
5	HQAM	1	12	22.30	22.42	22.38			
5	HQAM	1	49	22.31	22.31	22.31			
5	HQAM	25	0	21.18	21.14	21.13			
5	HQAM	25	12	21.18	21.22	21.14			
5	HQAM	25	25	21.15	21.20	21.11			
5	HQAM	50	0	21.27	21.28	21.31			
5	HQAM	50	12	21.24	21.25	21.27			
5	HQAM	50	25	21.34	21.30	21.29			
5	HQAM	50	49	20.18	20.15	20.17			
5	HQAM	12	0	20.13	20.19	20.17			
5	HQAM	12	13	20.14	20.17	20.19			
5	HQAM	25	0	20.12	20.14	20.19			
5	HQAM	25	12	18.19	18.19	18.15			
5	HQAM	25	25	18.07	18.07	18.04			
5	HQAM	50	0	17.88	17.95	17.91			
5	HQAM	50	12	17.88	17.91	17.88			
5	HQAM	50	25	17.84	17.88	17.84			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.87	22.84	22.84			
3	QPSK	1	8	22.88	22.82	22.89			
3	QPSK	1	14	22.88	22.81	22.85			
3	QPSK	8	0	22.10	22.10	22.10			
3	QPSK	8	4	22.18	22.18	22.22			
3	QPSK	8	7	22.08	22.14	22.12			
3	HQAM	1	0	22.38	22.29	22.35			
3	HQAM	1	8	22.42	22.37	22.43			
3	HQAM	8	0	21.20	21.13	21.15			
3	HQAM	8	4	21.21	21.25	21.27			
3	HQAM	8	7	21.16	21.15	21.16			
3	HQAM	16	0	21.15	21.18	21.14			
3	HQAM	1	0	21.32	21.27	21.29			
3	HQAM	8	0	21.35	21.37	21.37			
3	HQAM	1	14	21.28	21.23	21.24			
3	HQAM	8	0	20.21	20.17	20.14			
3	HQAM	8	7	20.16	20.21	20.19			
3	HQAM	16	0	20.14	20.16	20.20			
3	HQAM	1	8	18.31	18.27	18.26			
3	HQAM	1	14	18.14	18.18	18.13			
3	HQAM	8	0	18.09	18.11	18.08			
3	HQAM	8	4	17.88	18.04	17.99			
3	HQAM	8	7	17.99	17.99	18.00			
3	HQAM	16	0	18.01	18.10	18.06			
3	HQAM	1	8	18.01	18.10	18.06			
3	HQAM	1	14	18.25	18.24	18.14			
3	HQAM	1	14	18.02	18.13	18.02			
3	HQAM	8	0	18.06	18.04	17.90			
3	HQAM	8	4	17.89	17.97	17.97			
3	HQAM	8	7	17.86	17.97	17.97			
3	HQAM	16	0	17.96	17.99	17.96			

Band 12 Ant2 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.58	22.63	22.57			
10	QPSK	1	25	22.62	22.61	22.61			
10	QPSK	1	49	22.65	22.59	22.62			
10	QPSK	25	0	21.84	21.82	21.88			
10	QPSK	25	12	21.79	21.81	21.80			
10	QPSK	25	25	21.87	21.91	21.83			
10	QPSK	50	0	21.92	21.95	21.90			
10	QPSK	50	12	22.15	22.14	22.08			
10	HQAM	1	25	22.12	22.15	22.14			
10	HQAM	1	49	22.14	22.22	22.17			
10	HQAM	25	0	20.95	20.99	20.92			
10	HQAM	25	12	20.99	20.99	20.92			
10	HQAM	25	25	20.97	21.00	20.94			
10	HQAM	50	0	20.95	20.93	20.91			
10	HQAM	50	12	21.06	21.01	21.02			
10	HQAM	50	25	20.98	21.02	21.03			
10	HQAM	50	49	21.04	21.08	21.01			
10	HQAM	25	0	20.81	20.86	20.91			
10	HQAM	25	12	20.86	20.86	20.84			
10	HQAM	25	25	20.92	20.93	20.91			
10	HQAM	50	0	20.97	20.97	20.91			
10	HQAM	50	12	17.73	17.69	17.69			
10	HQAM	50	25	17.72	17.73	17.71			
10	HQAM	50	49	17.73	17.71	17.71			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.58	22.63	22.62			
5	QPSK	1	24	22.64	22.62	22.62			
5	QPSK	12	0	21.92	21.86	21.89			
5	QPSK	12	7	21.93	21.93	21.90			
5	QPSK	12	13	21.88	21.88	21.93			
5	QPSK	25	0	21.89	21.96	21.86			
5	HQAM	1	25	22.13	22.11	22.12			
5	HQAM	1	12	22.19	22.15	22.17			
5	HQAM	1	24	22.19	22.19	22.19			
5	HQAM	12	0	20.92	20.92	20.90			
5	HQAM	12	7	20.94	21.01	20.92			
5	HQAM	12	13	20.95	20.99	20.95			
5	HQAM	25	0	20.89	20.93	20.88			
5	HQAM	1	0	21.01	21.05	21.08			
5	HQAM	1	8	21.06	21.03	21.03			
5	HQAM	1	24	21.07	21.04	21.09			
5	HQAM	12	0	20.85	20.91	20.89			
5	HQAM	12	13	20.89	20.93	20.91			
5	HQAM	12	13	20.90	20.95	20.95			
5	HQAM	25	0	20.88	20.94	20.88			
5	HQAM	25	12	17.66	17.66	17.66			
5	HQAM	25	12	17.75	17.64	17.70			
5	HQAM	25	25	17.72	17.68	17.79			
5	HQAM	50	0	17.67	17.67	17.64			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.58	22.63	22.57			
3	QPSK	1	8	22.56	22.49	22.53			
3	QPSK	1	14	22.59	22.63	22.59			
3	QPSK	8	0	21.93	21.94	21.96			
3	QPSK	8	7	21.86	21.89	21.92			
3	HQAM	1							



Band 17 Ant2 DS2I									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Mid Ch./Freq.	Turnup time (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.60	22.63	22.67			
10	QPSK	1	24	22.60	22.63	22.67	24	0	
10	QPSK	1	48	22.60	22.63	22.67			
10	QPSK	25	0	21.86	21.87	21.88			
10	QPSK	25	12	21.86	21.87	21.88			
10	QPSK	25	24	21.86	21.87	21.88			
10	QPSK	50	0	21.83	21.84	21.85			
10	QPSK	50	6	21.83	21.84	21.85			
10	16QAM	1	24	22.15	22.17	22.15	23	1	
10	16QAM	1	48	22.17	22.16	22.16			
10	16QAM	1	72	22.17	22.16	22.16			
10	16QAM	25	12	20.97	20.91	20.91	22	2	
10	16QAM	25	24	20.92	20.91	20.95			
10	16QAM	50	0	20.95	20.95	20.99			
10	16QAM	1	0	20.95	20.95	20.99			
10	16QAM	1	24	21.02	20.97	21.01	22	2	
10	16QAM	1	48	21.03	21.00	20.99			
10	16QAM	25	0	20.30	20.18	20.29			
10	16QAM	25	12	20.28	20.24	20.30			
10	16QAM	25	24	20.30	20.31	20.31			
10	16QAM	50	0	20.40	20.31	20.28			
10	16QAM	1	0	17.72	17.73	17.68			
10	256QAM	1	24	17.68	17.71	17.68	19	5	
10	256QAM	1	48	17.71	17.68	17.67			
10	256QAM	25	0	17.70	17.69	17.61			
10	256QAM	25	12	17.62	17.70	17.67			
10	256QAM	25	24	17.68	17.68	17.69			
10	256QAM	50	0	17.71	17.73	17.71			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.52	22.56	22.48			
5	QPSK	1	24	22.50	22.56	22.50	24	0	
5	QPSK	1	48	22.60	22.58	22.58			
5	QPSK	12	0	21.83	21.86	21.89			
5	QPSK	12	7	21.95	21.93	21.92			
5	QPSK	12	13	21.88	21.87	21.84			
5	QPSK	25	0	21.84	21.87	21.88			
5	16QAM	1	4	22.18	22.22	22.20			
5	16QAM	1	12	22.14	22.16	22.16	23	1	
5	16QAM	1	24	22.10	22.13	22.07			
5	16QAM	12	0	20.91	20.93	20.93			
5	16QAM	12	7	20.93	20.97	20.95	22	2	
5	16QAM	12	13	20.96	20.95	20.91			
5	16QAM	25	0	20.93	20.93	20.95			
5	16QAM	1	0	21.10	21.09	21.12	22	2	
5	16QAM	1	24	21.04	20.97	20.99			
5	16QAM	1	48	21.01	21.05	20.95			
5	16QAM	12	0	20.34	20.36	20.28			
5	16QAM	12	7	20.36	20.35	20.41			
5	16QAM	12	13	20.32	20.31	20.33			
5	16QAM	25	0	20.27	20.26	20.27			
5	256QAM	1	0	17.72	17.71	17.63			
5	256QAM	1	24	17.73	17.77	17.70	19	5	
5	256QAM	1	48	17.76	17.74	17.70			
5	256QAM	12	0	17.70	17.73	17.63			
5	256QAM	12	7	17.64	17.70	17.69			
5	256QAM	12	13	17.67	17.71	17.70	19	5	
5	256QAM	25	0	17.72	17.78	17.68			

Band 26 Ant1 DS2I									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Mid Ch./Freq.	Turnup time (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.86	22.94	22.83			
15	QPSK	1	37	22.83	22.83	22.83	24	0	
15	QPSK	1	74	22.71	22.83	22.50			
15	QPSK	36	0	21.89	21.93	21.70			
15	QPSK	36	20	21.81	21.87	21.60			
15	QPSK	36	39	21.82	21.83	21.78	23	1	
15	QPSK	75	0	21.87	21.88	21.76			
15	QPSK	75	11	22.18	22.08	22.00			
15	16QAM	1	37	22.14	22.03	21.95	23	1	
15	16QAM	1	74	22.06	21.97	21.91			
15	16QAM	36	0	21.81	20.83	20.71			
15	16QAM	36	20	21.01	20.85	20.85	22	2	
15	16QAM	36	39	20.85	20.85	20.77			
15	16QAM	75	0	21.05	20.94	20.88			
15	16QAM	1	0	21.02	20.90	20.88	22	2	
15	16QAM	1	37	20.91	20.84	20.87			
15	16QAM	36	0	20.21	19.85	19.71			
15	16QAM	36	20	19.89	19.84	19.79	21	3	
15	16QAM	36	39	19.87	19.84	19.74			
15	16QAM	75	0	19.59	19.88	19.72			
15	16QAM	1	0	17.65	17.64	17.67			
15	256QAM	1	37	17.68	17.64	17.66	19	5	
15	256QAM	1	74	17.67	17.63	17.68			
15	256QAM	1	0	18.00	18.04	18.07			
15	256QAM	36	20	17.78	17.84	17.79	19	5	
15	256QAM	36	39	17.73	17.78	17.68			
15	256QAM	75	0	17.71	17.76	17.71			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.88	22.89	22.78			
10	QPSK	1	24	22.80	22.84	22.48	24	0	
10	QPSK	1	48	22.60	22.75	22.78			
10	QPSK	25	0	22.15	21.91	21.81			
10	QPSK	25	12	22.12	21.98	21.83			
10	QPSK	25	24	22.11	21.95	21.87	23	1	
10	QPSK	50	0	22.14	21.96	21.91			
10	QPSK	50	6	22.34	22.22	22.14			
10	16QAM	1	25	22.21	22.16	22.09	23	1	
10	16QAM	1	49	22.01	21.89	21.89			
10	16QAM	25	0	20.91	20.86	20.87			
10	16QAM	25	12	21.17	21.01	20.87	22	2	
10	16QAM	25	24	20.91	20.81	20.85			
10	16QAM	50	0	21.15	21.02	20.85			
10	16QAM	1	0	21.23	21.06	21.01	22	2	
10	16QAM	1	24	21.04	21.01	20.94			
10	16QAM	1	48	21.19	21.00	20.94			
10	16QAM	25	0	20.18	19.94	19.82			
10	16QAM	25	12	20.20	20.04	20.28			
10	16QAM	25	24	20.11	19.95	19.85	21	3	
10	16QAM	50	0	20.13	19.99	19.88			
10	16QAM	1	0	17.65	17.66	17.65			
10	256QAM	1	25	17.63	17.61	17.77	19	5	
10	256QAM	1	49	17.80	17.87	17.83			
10	256QAM	1	0	18.00	18.00	18.00			
10	256QAM	36	12	17.75	17.75	17.72	19	5	
10	256QAM	36	24	17.66	17.72	17.62			
10	256QAM	75	0	17.71	17.76	17.76			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.85	22.85	22.65			
5	QPSK	1	0	22.85	22.85	22.65			
5	QPSK	1	12	22.50	22.87	22.77	24	0	
5	QPSK	1	24	22.53	22.82	22.69			
5	QPSK	12	0	22.12	21.82	21.80			
5	QPSK	12	7	22.12	21.97	21.84	23	1	
5	QPSK	12	13	22.12	21.91	21.80			
5	QPSK	25	0	22.14	21.96	21.91			
5	16QAM	1	0	22.40	22.20	22.00			
5	16QAM	1	12	22.44	22.19	22.07	23	1	
5	16QAM	1	24	22.18	22.01	20.85			
5	16QAM	12	0	21.18	21.00	20.84	22	2	
5	16QAM	12	7	21.16	21.00	20.84			
5	16QAM	12	13	21.16	21.00	20.84			
5	16QAM	25	0	21.15	20.96	20.85			
5	16QAM	1	0	21.23	21.10	21.01	22	2	
5	16QAM	1	12	21.02	21.02	20.92			
5	16QAM	1	24	21.25	21.03	20.90			
5	16QAM	12	0	20.15	19.92	19.85			
5	16QAM	12	7	20.17	19.92	19.89			
5	16QAM	12	13	20.15	19.95	19.89	21	3	
5	16QAM	25	0	20.11	19.94	19.89			



Band 66 Ant1 DS12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.92	22.92	22.76			24	0
20	QPSK	1	49	22.76	22.77	22.76				
20	QPSK	1	99	22.76	22.81	22.78				
20	QPSK	50	0	21.96	22.04	21.72			23	1
20	QPSK	50	24	21.77	21.89	21.83				
20	QPSK	50	50	21.79	21.78	21.83				
20	QPSK	100	0	22.01	22.03	21.77				
20	16QAM	100	0	21.93	21.84	21.79				
20	16QAM	1	49	21.88	21.96	21.75			23	1
20	16QAM	1	99	21.89	21.86	21.83				
20	16QAM	50	0	20.88	20.92	20.90				
20	16QAM	50	24	20.84	20.95	20.83			22	2
20	16QAM	50	50	20.87	20.74	20.85				
20	16QAM	100	0	20.85	20.90	20.79				
20	84QAM	1	0	20.83	20.89	20.87				
20	84QAM	1	49	20.76	20.85	20.76			22	2
20	84QAM	1	99	20.73	20.85	20.87				
20	84QAM	50	0	19.89	20.12	19.72				
20	84QAM	50	24	19.75	19.77	19.76			21	3
20	84QAM	50	50	19.84	19.73	19.88				
20	84QAM	100	0	19.94	19.81	20.01				
20	256QAM	1	0	17.61	17.69	17.63				
20	256QAM	1	49	17.84	17.88	17.72			19	5
20	256QAM	1	99	17.83	17.83	17.83				
20	256QAM	50	0	17.85	17.85	17.75				
20	256QAM	50	24	17.88	17.83	17.69			19	5
20	256QAM	50	50	17.86	17.83	17.77				
20	256QAM	100	0	17.81	17.82	17.77				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.91	22.87	22.83			24	0
15	QPSK	1	37	22.90	22.90	22.86				
15	QPSK	1	74	22.87	22.83	22.84				
15	QPSK	36	0	21.71	21.84	21.80			23	1
15	QPSK	36	24	21.73	21.88	21.88				
15	QPSK	36	36	21.87	21.82	21.89				
15	QPSK	75	0	21.06	21.08	21.79				
15	16QAM	1	0	21.68	21.68	21.67			23	1
15	16QAM	1	37	21.68	21.90	21.87				
15	16QAM	1	74	21.78	21.97	21.71				
15	16QAM	36	0	20.87	21.03	20.80			22	2
15	16QAM	36	24	20.79	20.73	20.81				
15	16QAM	36	36	20.79	20.73	20.81				
15	16QAM	75	0	20.79	20.73	20.81				
15	84QAM	1	0	20.87	21.03	20.83			22	2
15	84QAM	1	37	20.79	20.77	20.79				
15	84QAM	1	74	20.78	20.85	20.53				
15	84QAM	36	0	19.95	20.07	19.70				
15	84QAM	36	24	19.79	19.87	19.78			21	3
15	84QAM	36	36	19.73	19.80	19.85				
15	84QAM	75	0	20.03	19.94	19.89				
15	256QAM	1	0	17.81	17.89	17.82				
15	256QAM	1	37	17.91	17.77	17.78			19	5
15	256QAM	1	74	17.85	17.77	17.73				
15	256QAM	36	0	17.85	17.85	17.85				
15	256QAM	36	24	17.73	17.93	17.73			19	5
15	256QAM	36	36	17.91	17.84	17.71				
15	256QAM	75	0	17.76	17.82	17.84				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.81	22.76	22.72			24	0
10	QPSK	1	25	22.78	22.81	22.72				
10	QPSK	1	49	22.80	22.86	22.81				
10	QPSK	25	0	21.85	21.92	21.85			23	1
10	QPSK	25	12	21.74	21.84	21.78				
10	QPSK	25	25	21.77	21.75	21.81				
10	16QAM	1	0	21.88	21.88	21.87			23	1
10	16QAM	1	25	21.84	21.90	21.80				
10	16QAM	1	49	21.81	21.88	21.80				
10	16QAM	25	0	21.00	21.01	20.90			22	2
10	16QAM	25	12	20.88	20.84	20.88				
10	16QAM	25	25	20.90	20.98	20.86				
10	16QAM	50	0	20.72	20.82	20.81				
10	84QAM	1	0	20.91	20.96	20.92			22	2
10	84QAM	1	25	20.84	20.74	20.82				
10	84QAM	1	49	20.87	20.85	20.91				
10	84QAM	25	0	19.86	20.10	19.77				
10	84QAM	25	12	19.72	19.88	19.71			21	3
10	84QAM	25	25	19.73	19.72	19.78				
10	84QAM	50	0	19.93	19.91	19.94				
10	256QAM	1	0	18.00	18.01	17.88				
10	256QAM	1	25	17.89	17.80	17.65			19	5
10	256QAM	1	49	17.83	17.94	17.76				
10	256QAM	25	0	17.88	17.92	17.75				
10	256QAM	25	12	17.76	17.78	17.78			19	5
10	256QAM	25	25	17.81	17.84	17.72				
10	256QAM	50	0	17.71	17.82	17.73				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.81	22.76	22.72			24	0
5	QPSK	1	12	22.78	22.82	22.72				
5	QPSK	1	24	22.85	22.87	22.79				
5	QPSK	12	0	21.85	21.92	21.85			23	1
5	QPSK	12	7	21.73	21.85	21.78				
5	QPSK	12	13	21.84	21.81	21.91				
5	16QAM	1	0	21.82	21.78	21.83			23	1
5	16QAM	1	12	21.88	21.99	21.89				
5	16QAM	1	24	21.89	21.86	21.82				
5	16QAM	12	0	20.90	21.09	20.83			22	2
5	16QAM	12	7	20.70	20.89	20.77				
5	16QAM	12	13	20.88	20.82	20.84				
5	84QAM	1	0	20.72	20.83	20.81			22	2
5	84QAM	1	12	20.78	20.84	20.88				
5	84QAM	1	24	20.85	20.72	20.90				
5	84QAM	12	0	20.00	19.97	19.86				
5	84QAM	12	7	19.92	19.85	19.89			21	3
5	84QAM	12	13	19.73	19.75	19.79				
5	84QAM	25	0	19.96	19.98	19.86				
5	256QAM	1	0	17.95	17.97	17.89				
5	256QAM	1	12	17.99	17.74	17.72			19	5
5	256QAM	1	24	17.83	17.92	17.74				
5	256QAM	12	0	17.87	18.04	17.81				
5	256QAM	12	7	17.86	17.81	17.69			19	5
5	256QAM	12	13	17.92	17.83	17.71				
5	256QAM	25	0	17.73	17.81	17.77				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.80	22.80	22.72			24	0
3	QPSK	1	8	22.77	22.78	22.72				
3	QPSK	1	14	22.81	22.84	22.79				
3	QPSK	8	0	21.88	21.95	21.82			23	1
3	QPSK	8	4	21.78	21.81	21.80				
3	QPSK	8	7	21.86	21.72	21.85				
3	QPSK	15	0	21.84	21.82	21.89				
3	16QAM	1	0	21.86	21.96	21.84			23	1
3	16QAM	1	8	21.77	21.81	21.79				
3	16QAM	1	14	21.87	21.75	21.86				
3	16QAM	8	0	21.03	21.04	20.86			22	2
3	16QAM	8	4	20.72	20.82	20.81				
3	16QAM	8	7	20.78	20.83	20.90				
3	16QAM	15	0	20.71	20.69	20.85			22	2
3	84QAM	1	0	20.85	20.86	20.86				
3	84QAM	1	8	20.69	20.90	20.84				
3	84QAM	1	14	20.85	20.69	20.81				
3	84QAM	8	0	19.89	20.18	19.74				
3	84QAM	8	4							



Band 38-PC3 Ant1 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Co. Freq.	Power Middle Co. Freq.	Power High Co. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37850	38000	38150			
20	QPSK	1	0	2580	2585	2610	24	0	
20	QPSK	1	49	2311	2314	2317			
20	QPSK	1	99	2302	2303	2306			
20	QPSK	50	0	2227	2231	2220	23	1	
20	QPSK	50	24	2225	2223	2217			
20	QPSK	50	50	2208	2212	2210			
20	QPSK	100	0	2220	2226	2217			
20	16QAM	1	0	2253	2257	2251	23	1	
20	16QAM	1	49	2240	2245	2243			
20	16QAM	1	99	2228	2231	2225			
20	16QAM	50	0	2128	2130	2129	22	2	
20	16QAM	50	24	2117	2121	2123			
20	16QAM	50	50	2114	2120	2113			
20	16QAM	100	0	2123	2125	2120			
20	64QAM	1	0	2126	2141	2126	22	2	
20	64QAM	1	49	2120	2128	2121			
20	64QAM	1	99	2112	2112	2110			
20	64QAM	50	0	2031	2029	2027	21	3	
20	64QAM	50	24	2020	2027	2022			
20	64QAM	50	50	2012	2019	2018			
20	64QAM	100	0	2023	2026	2022			
20	256QAM	1	0	1826	1826	1826	19	5	
20	256QAM	1	49	1821	1821	1818			
20	256QAM	1	99	1809	1808	1805			
20	256QAM	50	0	1826	1826	1826	19	5	
20	256QAM	50	24	1836	1837	1831			
20	256QAM	50	50	1824	1825	1819			
20	256QAM	100	0	1816	1824	1820			
Channel									
Frequency (MHz)				3577.5	3595	3612.5			
15	QPSK	1	0	2325	2325	2324	24	0	
15	QPSK	1	49	2308	2311	2306			
15	QPSK	1	74	2310	2301	2303			
15	QPSK	36	0	2221	2223	2216	23	1	
15	QPSK	36	20	2220	2219	2210			
15	QPSK	36	39	2207	2210	2208			
15	QPSK	75	0	2217	2218	2212	23	1	
15	16QAM	1	0	2247	2243	2247			
15	16QAM	1	37	2237	2241	2242			
15	16QAM	1	74	2222	2228	2223	22	2	
15	16QAM	36	0	2126	2128	2128			
15	16QAM	36	20	2113	2127	2119			
15	16QAM	36	39	2112	2113	2111			
15	16QAM	75	0	2117	2124	2116	22	2	
15	64QAM	1	0	2132	2138	2134			
15	64QAM	1	37	2136	2125	2115			
15	64QAM	1	74	2105	2110	2106	21	3	
15	64QAM	36	0	2028	2023	2020			
15	64QAM	36	20	2013	2021	2017			
15	64QAM	36	39	2010	2016	2012			
15	64QAM	75	0	2019	2020	2015	19	5	
15	256QAM	1	0	1825	1822	1822			
15	256QAM	1	37	1814	1817	1815			
15	256QAM	1	74	1803	1807	1805			
15	256QAM	36	0	1833	1833	1833	19	5	
15	256QAM	36	20	1830	1832	1824			
15	256QAM	36	39	1819	1823	1817			
15	256QAM	75	0	1813	1814	1814			
Channel									
Frequency (MHz)				37800	38000	38200			
10	QPSK	1	0	2575	2585	2615	24	0	
10	QPSK	1	49	2310	2310	2310			
10	QPSK	25	0	2220	2218	2214	23	1	
10	QPSK	25	25	2203	2205	2203			
10	QPSK	50	0	2214	2212	2212			
10	16QAM	1	0	2248	2252	2246	23	1	
10	16QAM	1	25	2237	2238	2237			
10	16QAM	1	49	2222	2226	2218			
10	16QAM	25	0	2123	2125	2123	22	2	
10	16QAM	25	12	2110	2117	2116			
10	16QAM	25	25	2109	2115	2108			
10	16QAM	50	0	2118	2118	2113	22	2	
10	64QAM	1	0	2131	2126	2133			
10	64QAM	1	25	2114	2122	2115			
10	64QAM	1	49	2106	2107	2105	21	3	
10	64QAM	25	0	2025	2023	2022			
10	64QAM	25	12	2013	2020	2016			
10	64QAM	25	25	2006	2014	2011			
10	64QAM	50	0	2017	2020	2017	19	5	
10	256QAM	1	0	1823	1824	1819			
10	256QAM	1	25	1815	1814	1813			
10	256QAM	1	49	1804	1802	1800			
10	256QAM	25	0	1820	1824	1821	19	5	
10	256QAM	25	12	1830	1831	1826			
10	256QAM	25	25	1818	1819	1812			
10	256QAM	50	0	1809	1813	1813			
Channel									
Frequency (MHz)				3777.5	3800	3822.5			
5	QPSK	1	0	2336	2333	2329	24	0	
5	QPSK	1	12	2319	2323	2317			
5	QPSK	1	24	2305	2307	2300			
5	QPSK	12	0	2229	2228	2224	23	1	
5	QPSK	12	7	2228	2226	2221			
5	QPSK	12	13	2212	2215	2213			
5	QPSK	25	0	2223	2222	2220	23	1	
5	16QAM	1	0	2235	2239	2234			
5	16QAM	1	12	2243	2247	2247			
5	16QAM	1	24	2231	2234	2228	22	2	
5	16QAM	12	0	2131	2133	2132			
5	16QAM	12	7	2119	2126	2126			
5	16QAM	12	13	2118	2123	2116	22	2	
5	16QAM	25	0	2127	2128	2123			
5	64QAM	1	0	2140	2144	2140	22	2	
5	64QAM	1	12	2124	2130	2124			
5	64QAM	1	24	2115	2114	2114	21	3	
5	64QAM	12	0	2034	2033	2030			
5	64QAM	12	7	2024	2030	2025			
5	64QAM	12	13	2016	2022	2021	19	5	
5	64QAM	25	0	2025	2029	2025			
5	256QAM	1	0	1832	1832	1829	19	5	
5	256QAM	1	12	1823	1823	1821			
5	256QAM	1	24	1813	1812	1809			
5	256QAM	12	0	1828	1841	1840	19	5	
5	256QAM	12	7	1830	1839	1830			
5	256QAM	12	13	1827	1827	1823			
5	256QAM	25	0	1818	1826	1824			

Band 38 -PC2 Ant1 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Co. Freq.	Power Middle Co. Freq.	Power High Co. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37850	38000	38150			
20	QPSK	1	0	2632	2639	2633	27	0	
20	QPSK	1	49	2624	2615	2626			
20	QPSK	1	99	2618	2633	2624			
20	QPSK	50	0	2528	2538	2537	26	1	
20	QPSK	50	24	2517	2535	2533			
20	QPSK	50	50	2511	2526	2518			
20	QPSK	100	0	2540	2547	2531			
20	16QAM	1	0	2536	2544	2536	26	1	
20	16QAM	1	49	2519	2545	2521			
20	16QAM	1	99	2515	2535	2526			
20	16QAM	50	0	2438	2445	2438	25	2	
20	16QAM	50	24	2426	2445	2427			
20	16QAM	50	50	2424	2428	2426			
20	16QAM	100	0	2424	2444	2442			
20	64QAM	1	0	2439	2450	2436	25	2	
20	64QAM	1	49	2421	2446	2433			
20	64QAM	1	99	2413	2432	2421			
20	64QAM	50	0	2328	2348	2341	24	3	
20	64QAM	50	24	2331	2333	2346			
20	64QAM	50	50	2327	2332	2327			
20	64QAM	100	0	2312	2325	2333			
20	256QAM	1	0	2141	2143	2136	22	5	
20	256QAM	1	49	2116	2138	2127			
20	256QAM	1	99	2123	2140	2128			
20	256QAM	50	0	2136	2146	2136	22	5	
20	256QAM	50	24	2130	2150	2143			
20	256QAM	50	50	2121	2136	2116			
20	256QAM								

**Band 41 -PC2 Ant1 DS12**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Co. (Frac)	Power Low Mid Co. (Frac)	Power Low High Co. (Frac)	Power High Mid Co. (Frac)	Power High High Co. (Frac)	Tune-up limit (dBm)	MPR (dB)
Channel										
				39750	40185	40620	41055	41490		
Frequency (MHz)										
30	QPSK	1	0	2536	2548.5	2561	2636.5	2650		
30	QPSK	1	0	2333	2330	2329	2328	2327	24	0
30	QPSK	1	49	2219	2217	2216	2215	2214		
30	QPSK	1	99	2306	2300	2306	2302	2301		
30	QPSK	50	0	2228	2222	2224	2227	2229		
30	QPSK	50	24	2227	2219	2224	2229	2227		
30	QPSK	50	50	2219	2213	2226	2226	2226		
30	QPSK	100	0	2221	2220	2226	2223	2222		
30	16QAM	1	0	2259	2254	2254	2331	2326		
30	16QAM	1	49	2248	2245	2242	2223	2221		
30	16QAM	1	99	2233	2228	2231	2230	2229		
30	16QAM	50	0	2132	2133	2132	2133	2132		
30	16QAM	50	24	2126	2127	2131	2133	2129		
30	16QAM	50	50	2123	2116	2112	2109	2120		
30	16QAM	100	0	2127	2123	2109	2111	2121		
30	64QAM	1	0	2144	2141	2137	2136	2143		
30	64QAM	1	49	2132	2134	2136	2136	2138		
30	64QAM	1	99	2115	2114	2103	2101	2106		
30	64QAM	50	0	2031	2031	2019	2015	2030		
30	64QAM	50	24	2030	2024	2013	2010	2024		
30	64QAM	50	50	2025	2022	2010	2007	2018		
30	64QAM	100	0	2029	2025	2008	2010	2026		
30	256QAM	1	0	1832	1823	1821	1810	1832		
30	256QAM	1	49	1824	1820	1822	1823	1824		
30	256QAM	1	99	1811	1807	1812	1804	1804		
30	256QAM	50	0	1843	1840	1839	1821	1843		
30	256QAM	50	24	1840	1833	1838	1817	1836		
30	256QAM	50	50	1829	1823	1821	1819	1825		
30	256QAM	100	0	1827	1823	1800	1805	1821		
Channel										
				39750	40185	40620	41055	41490		
Frequency (MHz)										
15	QPSK	1	0	2331	2331	2329	2327	2323		
15	QPSK	1	31	2319	2319	2317	2316	2316		
15	QPSK	1	74	2302	2305	2302	2302	2301		
15	QPSK	36	0	2225	2220	2208	2208	2225		
15	QPSK	36	24	2228	2217	2203	2203	2228		
15	QPSK	36	39	2215	2214	2204	2201	2225		
15	QPSK	75	0	2219	2221	2203	2210	2216		
15	16QAM	1	0	2226	2243	2223	2228	2235		
15	16QAM	1	31	2249	2242	2223	2221	2247		
15	16QAM	1	74	2230	2227	2215	2211	2227		
15	16QAM	36	0	2134	2134	2111	2111	2130		
15	16QAM	36	20	2123	2129	2107	2110	2124		
15	16QAM	36	39	2123	2115	2112	2111	2128		
15	16QAM	75	0	2127	2119	2105	2112	2127		
15	64QAM	1	0	2143	2143	2141	2142	2143		
15	64QAM	1	37	2131	2122	2116	2124	2126		
15	64QAM	1	74	2114	2110	2106	2123	2110		
15	64QAM	36	0	2020	2029	2018	2015	2029		
15	64QAM	36	20	2027	2021	2013	2011	2028		
15	64QAM	36	39	2020	2021	2009	2006	2013		
15	64QAM	75	0	2029	2024	2005	2011	2026		
15	256QAM	1	0	1831	1830	1826	1818	1831		
15	256QAM	1	37	1823	1819	1820	1824	1825		
15	256QAM	1	74	1809	1806	1822	1803	1801		
15	256QAM	36	0	1833	1830	1818	1818	1833		
15	256QAM	36	20	1839	1830	1818	1814	1831		
15	256QAM	36	39	1830	1824	1820	1818	1820		
15	256QAM	75	0	1828	1827	1807	1807	1828		
Channel										
				39750	40185	40620	41055	41490		
Frequency (MHz)										
10	QPSK	1	0	2329	2322	2321	2323	2326		
10	QPSK	1	24	2313	2319	2317	2316	2316		
10	QPSK	1	49	2304	2300	2300	2300	2301		
10	QPSK	25	0	2219	2219	2203	2206	2218		
10	QPSK	25	24	2219	2218	2203	2206	2218		
10	QPSK	25	26	2207	2207	2205	2202	2204		
10	QPSK	50	0	2218	2218	2219	2221	2214		
10	16QAM	1	0	2241	2249	2223	2224	2250		
10	16QAM	1	24	2244	2241	2218	2218	2250		
10	16QAM	1	49	2224	2227	2225	2212	2220		
10	16QAM	25	0	2125	2125	2111	2110	2128		
10	16QAM	25	24	2121	2124	2103	2103	2128		
10	16QAM	25	26	2122	2111	2107	2106	2121		
10	16QAM	50	0	2120	2116	2107	2110	2122		
10	16QAM	50	24	2111	2122	2103	2103	2124		
10	64QAM	1	25	2127	2120	2125	2116	2128		
10	64QAM	1	49	2112	2111	2112	2117	2131		
10	64QAM	25	0	2027	2030	2020	2006	2029		
10	64QAM	25	12	2030	2020	2010	2008	2022		
10	64QAM	25	26	2017	2016	2005	2001	2010		
10	64QAM	50	0	2022	2018	2002	2010	2020		
10	256QAM	1	0	1826	1822	1811	1809	1821		
10	256QAM	1	26	1821	1814	1827	1814	1818		
10	256QAM	1	49	1810	1802	1822	1816	1819		
10	256QAM	25	0	1833	1831	1816	1819	1836		
10	256QAM	25	12	1830	1831	1816	1814	1828		
10	256QAM	25	26	1826	1815	1820	1818	1816		
10	256QAM	50	0	1821	1820	1801	1800	1810		
Channel										
				39750	40185	40620	41055	41490		
Frequency (MHz)										
5	QPSK	1	0	2328	2324	2328	2322	2324		
5	QPSK	1	24	2303	2316	2303	2311	2317		
5	QPSK	12	0	2225	2219	2206	2204	2222		
5	QPSK	12	13	2222	2216	2210	2208	2216		
5	QPSK	25	0	2215	2218	2214	2220	2216		
5	16QAM	1	12	2245	2242	2217	2219	2216		
5	16QAM	1	24	2230	2224	2218	2226	2226		
5	16QAM	12	0	2130	2127	2110	2106	2126		
5	16QAM	12	7	2134	2122	2107	2110	2119		
5	16QAM	25	0	2119	2112	2107	2104	2121		
5	64QAM	1	21	2129	2119	2115	2118	2126		
5	64QAM	1	24	2111	2109	2117	2107	2103		
5	64QAM	12	0	2028	2025	2014	2009	2029		
5	64QAM	12	7	2025	2020	2008	2007	2019		
5	64QAM	12	13	2018	2018	2007	2003	2013		
5	64QAM	25	0	2024	2023	2006	2005	2021		
5	256QAM	1	0	1828	1822	1810	1806	1828		
5	256QAM	1	12	1821	1816	1812	1824	1819		
5	256QAM	1	24	1806	1803	1822	1823	1814		
5	256QAM	12	0	1828	1831	1816	1816	1828		
5	256QAM	12	7	1830	1829	1812	1812	1832		
5	256QAM	12	13	1825	1819	1817	1816	1821		
5	256QAM	25	0	1824	1819	1803	1800	1821		

Band 41 -PC2 Ant1 DS12

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Co. (Frac)	Power Low Mid Co. (Frac)	Power Low High Co. (Frac)	Power High Mid Co. (Frac)	Power High High Co. (Frac)	Tune-up limit (dBm)	MPR (dB)
Channel										
				39750	40185	40620	41055	41490		
Frequency (MHz)										
30	QPSK	1	0	2638	2634	2643	2634	2634		
30	QPSK	1	49	2532	2530	2531	2531	2531		
30	QPSK	1	99	2598	2599	2599	2599	2599		
30	QPSK	50	0	2533	2539	2531	2531	2539		
3										

	Ant1 DS13			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	Burst Average Power (dBm)				126	166	251	
GSM850	126	166	251		126	166	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	32.26	32.51	32.48	33.50	23.26	23.51	23.48	24.50
GSM 1 Tx slot	32.26	32.51	32.37	33.50	23.26	23.51	23.37	24.50
GPRS 1 Tx slots	30.07	30.12	30.04	31.50	24.07	24.12	24.04	25.50
GPRS 2 Tx slots	28.29	28.34	28.22	29.70	24.03	24.08	23.96	25.44
GPRS 3 Tx slots	27.22	27.16	27.36	28.00	24.22	24.16	24.36	25.00
GPRS 4 Tx slots	24.51	24.56	24.78	25.00	15.51	15.56	15.78	16.00
EDGE 1 Tx slot	22.63	22.59	22.90	23.00	16.63	16.59	16.90	17.00
EDGE 2 Tx slots	21.18	21.06	21.39	21.50	16.92	16.80	17.13	17.24
EDGE 3 Tx slots	19.65	19.71	19.85	20.00	16.65	16.71	16.85	17.00
EDGE 4 Tx slots								

	Ant1 DS13			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	Burst Average Power (dBm)				512	661	810	
GSM1900	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8	
Frequency (MHz)	26.75	25.88	25.87	26.30	16.75	16.88	16.87	17.30
GSM 1 Tx slot	25.74	26.02	26.03	26.30	16.74	17.02	17.03	17.30
GPRS 1 Tx slots	22.35	22.39	22.28	23.30	16.35	16.39	16.28	17.30
GPRS 2 Tx slots	21.29	21.25	21.28	21.50	17.03	16.99	17.02	17.24
GPRS 3 Tx slots	19.70	19.83	19.76	20.30	16.79	16.83	16.76	17.30
GPRS 4 Tx slots	24.95	25.34	25.29	26.30	15.95	16.34	16.29	17.30
EDGE 1 Tx slot	22.48	22.88	22.57	23.30	16.48	16.88	16.57	17.30
EDGE 2 Tx slots	20.96	21.22	20.87	21.50	16.70	16.96	16.61	17.24
EDGE 3 Tx slots	19.83	19.81	19.88	20.30	16.83	16.81	16.88	17.30
EDGE 4 Tx slots								

Band	Ant1 DS13			Tune-up Limit (dBm)	Ant1 DS13			Tune-up Limit (dBm)	
	WCDMA II				WCDMA IV				
TX Channel	9262	9400	9538		1312	1413	1513		
Rx Channel	9662	9600	9638		1537	1638	1738		
Frequency (MHz)	1852.4	1830	1907.6	17.50	17.64	17.26	17.53	18.10	
3GPP Rel 99	AMR 12.2kbps	16.04	16.23	15.99	17.46	17.60	17.68	18.10	
3GPP Rel 99	RMC 12.2kbps	16.11	16.23	16.15	17.61	17.77	17.75	18.10	
3GPP Rel 6	HSDPA Subtest-1	15.01	15.23	15.24	16.50	15.67	15.82	15.73	17.10
3GPP Rel 6	HSDPA Subtest-2	15.02	15.38	15.22	16.50	15.54	15.81	15.68	17.10
3GPP Rel 6	HSDPA Subtest-3	14.60	14.87	14.72	16.00	16.16	16.36	16.28	16.60
3GPP Rel 6	HSDPA Subtest-4	14.52	14.81	14.58	16.00	16.02	16.20	16.17	16.60
3GPP Rel 8	DC-HSDPA Subtest-1	15.11	15.22	15.15	16.50	15.65	15.71	15.73	17.10
3GPP Rel 8	DC-HSDPA Subtest-2	15.01	15.36	15.14	16.50	15.53	15.73	15.70	17.10
3GPP Rel 8	DC-HSDPA Subtest-3	14.57	14.77	14.61	16.00	16.05	16.27	16.25	16.60
3GPP Rel 8	DC-HSDPA Subtest-4	14.53	14.87	14.70	16.00	15.14	15.24	15.16	16.60
3GPP Rel 6	HSUPA Subtest-1	15.11	15.19	15.24	16.50	15.55	15.74	15.74	17.10
3GPP Rel 6	HSUPA Subtest-2	13.09	13.30	13.15	14.50	14.67	14.80	14.77	15.10
3GPP Rel 6	HSUPA Subtest-3	14.10	14.19	14.23	15.50	15.56	15.85	15.66	16.10
3GPP Rel 6	HSUPA Subtest-4	13.02	13.35	13.23	14.50	14.61	14.68	14.72	15.10
3GPP Rel 6	HSUPA Subtest-5	15.02	15.25	15.11	16.50	15.55	15.69	15.83	17.10



Band 7 Ant1 DS13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.71	19.77	19.87				
20	QPSK	1	49	19.84	19.90	19.98	21	0		
20	QPSK	1	99	19.98	20.04	20.08				
20	QPSK	50	0	19.98	19.75	19.63				
20	QPSK	50	24	19.98	19.75	19.63				
20	QPSK	50	50	19.98	19.67	19.61	21	0		
20	QPSK	100	0	19.99	19.73	19.61				
20	QPSK	100	24	19.99	19.73	19.65				
20	16QAM	1	49	19.84	19.72	19.86	21	0		
20	16QAM	1	99	19.98	19.86	19.84				
20	16QAM	50	0	19.99	19.70	19.63				
20	16QAM	50	24	19.97	19.68	19.65				
20	16QAM	100	0	19.84	19.70	19.59	21	0		
20	16QAM	100	24	19.81	19.76	19.58				
20	64QAM	1	49	19.81	19.76	19.58	21	0		
20	64QAM	1	99	19.99	19.70	19.57				
20	64QAM	50	0	19.70	19.70	19.57				
20	64QAM	50	24	19.84	19.69	19.61	21	0		
20	64QAM	100	0	19.67	19.67	19.59				
20	64QAM	100	24	19.83	19.73	19.65				
20	256QAM	1	49	19.23	18.13	18.18	19	2		
20	256QAM	1	99	18.09	18.20	18.28				
20	256QAM	50	0	19.63	18.49	18.58				
20	256QAM	50	24	18.10	18.30	18.21	19	2		
20	256QAM	100	0	18.21	18.24	18.17				
20	256QAM	100	24	18.14	18.20	18.11	19	2		
Channel										
Frequency (MHz)										
15	QPSK	1	0	19.07	19.08	19.01				
15	QPSK	1	49	19.07	19.07	19.01	21	0		
15	QPSK	1	74	19.08	19.08	19.05				
15	QPSK	36	0	19.01	19.21	19.03				
15	QPSK	36	20	19.08	19.42	19.04	21	0		
15	QPSK	36	39	19.01	19.27	19.02				
15	QPSK	75	0	19.07	19.07	19.05				
15	QPSK	75	20	19.07	19.07	19.05				
15	16QAM	1	37	19.04	19.20	19.08	21	0		
15	16QAM	1	74	19.07	19.07	19.05				
15	16QAM	36	0	19.02	19.00	19.01				
15	16QAM	36	20	19.06	19.08	19.05	21	0		
15	16QAM	75	0	19.03	19.03	19.05				
15	64QAM	1	0	19.04	19.00	19.05	21	0		
15	64QAM	1	20	19.05	19.03	19.04				
15	64QAM	1	74	19.04	19.03	19.08				
15	64QAM	36	0	19.05	19.21	19.04	21	0		
15	64QAM	36	20	19.07	19.07	19.05				
15	64QAM	36	39	19.02	19.03	19.02				
15	64QAM	75	0	19.09	19.08	19.09				
15	256QAM	1	37	18.07	18.20	18.14	19	2		
15	256QAM	1	74	18.07	18.12	18.19				
15	256QAM	36	0	19.02	19.02	19.05				
15	256QAM	36	20	18.02	18.20	18.20	19	2		
15	256QAM	36	39	18.14	18.20	18.11				
15	256QAM	75	0	18.14	18.20	18.11	19	2		
Channel										
Frequency (MHz)										
10	QPSK	1	0	19.09	19.09	19.01				
10	QPSK	1	26	19.09	19.73	19.01	21	0		
10	QPSK	1	49	19.04	19.04	19.03				
10	QPSK	12	0	19.08	19.72	19.06				
10	QPSK	12	13	19.03	19.42	19.06	21	0		
10	QPSK	25	0	19.03	19.03	19.05				
10	QPSK	25	26	19.00	19.09	19.01				
10	QPSK	25	49	19.02	19.07	19.05				
10	16QAM	1	0	19.03	19.07	19.05				
10	16QAM	1	26	19.03	19.09	19.02	21	0		
10	16QAM	25	0	19.02	19.01	19.05				
10	16QAM	25	12	19.05	19.03	19.02	21	0		
10	16QAM	25	19	19.03	19.06	19.06				
10	16QAM	50	0	19.02	19.04	19.08				
10	64QAM	1	0	19.00	19.01	19.09	21	0		
10	64QAM	1	26	19.02	19.07	19.02				
10	64QAM	1	49	19.04	19.71	19.04				
10	64QAM	25	0	19.09	19.07	19.03	21	0		
10	64QAM	25	12	19.02	19.00	19.09				
10	64QAM	50	0	19.01	19.05	19.09				
10	256QAM	1	0	19.02	18.14	18.08	19	2		
10	256QAM	1	26	18.21	18.07	18.15				
10	256QAM	1	49	18.08	18.16	18.18				
10	256QAM	25	0	19.07	18.12	18.15	19	2		
10	256QAM	25	12	18.03	18.26	18.15				
10	256QAM	25	25	18.15	18.17	18.10	19	2		
10	256QAM	50	0	18.07	18.11	18.09				
Channel										
Frequency (MHz)										
5	QPSK	1	0	19.05	19.09	19.02				
5	QPSK	1	12	19.01	19.07	19.07	21	0		
5	QPSK	1	24	19.04	19.01	19.03				
5	QPSK	12	0	19.08	19.72	19.06				
5	QPSK	12	7	19.03	19.42	19.06	21	0		
5	QPSK	12	13	19.03	19.07	19.06				
5	16QAM	1	0	19.08	19.73	19.06	21	0		
5	16QAM	1	12	19.02	19.04	19.03				
5	16QAM	12	13	19.09	19.07	19.03	21	0		
5	16QAM	12	7	19.01	19.00	19.08				
5	64QAM	1	0	19.01	19.03	19.03	21	0		
5	64QAM	1	12	19.08	19.00	19.04				
5	64QAM	1	24	19.01	19.09	19.00				
5	64QAM	12	0	19.09	19.06	19.01	21	0		
5	64QAM	12	7	19.08	19.03	19.02				
5	64QAM	12	13	19.09	19.09	19.03	21	0		
5	64QAM	25	0	19.03	19.71	19.08				
5	256QAM	1	0	18.08	18.10	18.10	19	2		
5	256QAM	1	12	18.17	18.09	18.17				
5	256QAM	1	24	18.09	18.16	18.20				
5	256QAM	12	0	19.05	18.14	18.15	19	2		
5	256QAM	12	7	18.02	18.27	18.17				
5	256QAM	12	10	18.13	18.16	18.15	19	2		
5	256QAM	25	0	19.08	18.05	18.05				

Band 66 Ant1 DS13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	16.56	16.76	16.61				
20	QPSK	1	49	16.64	16.56	16.43	18.3	0		
20	QPSK	50	0	16.49	16.72	16.41				
20	QPSK	50	24	16.49	16.72	16.41				
20	QPSK	50	50	16.51	16.65	16.43	18.3	0		
20	QPSK	100	0	16.44	16.55	16.43				
20	QPSK	100	24	16.47	16.74	16.43				
20	16QAM	1	49	16.45	16.68	16.45	18.3	0		
20	16QAM	1	99	16.50	16.66	16.50				
20	16QAM	50	0	16.47	16.72	16.42				
20	16QAM	50	24	16.48	16.49	16.42				
20	16QAM	100	0	16.54	16.73	16.45				
20	16QAM	100	24	16.48	16.73	16.45				
20	64QAM	1	49	16.46	16.73	16.41	18.3	0		
20	64QAM	1	99	16.52	16.73	16.41				
20	64QAM	50	0	16.48	16.74	16.45				
20	64QAM	50	24	16.45	16.67	16.48	18.3	0		
20	64QAM	100	0	16.52	16.74	16.48				
20	64QAM	100	24	16.47	16.64	16.51				
20	256QAM	1	49	16.54	16.73	16.59	18.3	0		
20	256QAM	1	99	16.52	16.75	16.58				
20	256QAM	50								



Band 38- Ant1 PC3 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							37850	38000	38150
Frequency (MHz)							2580	2595	2610
20	QPSK	1	0	22 51	23 06	22 70	23.4	0	
20	QPSK	1	49	22 51	23 06	22 74			
20	QPSK	1	99	22 87	22 88	22 79			
20	QPSK	50	0	22 59	22 73	22 42			
20	QPSK	50	24	22 60	22 71	22 43			
20	QPSK	50	50	22 87	22 72	22 52			
20	QPSK	100	0	22 58	22 59	22 41			
20	16QAM	1	0	22 70	22 58	22 42			
20	16QAM	1	49	22 80	22 58	22 52			
20	16QAM	1	99	22 58	22 65	22 44			
20	16QAM	50	0	21 61	21 64	21 32			
20	16QAM	50	24	21 57	21 57	21 34			
20	16QAM	50	50	21 60	21 69	21 43			
20	16QAM	100	0	21 53	21 56	21 33			
20	64QAM	1	0	21 72	21 59	21 36			
20	64QAM	1	49	21 66	21 68	21 47			
20	64QAM	1	99	21 52	21 73	21 53			
20	64QAM	50	0	20 60	20 67	20 35			
20	64QAM	50	24	20 61	20 73	20 34			
20	64QAM	50	50	20 64	20 63	20 48			
20	64QAM	100	0	20 65	20 58	20 37			
20	256QAM	1	0	18 53	18 63	18 48			
20	256QAM	1	49	18 52	18 62	18 36			
20	256QAM	1	99	18 60	18 71	18 48			
20	256QAM	50	0	18 59	18 68	18 48			
20	256QAM	50	24	18 76	18 55	18 36			
20	256QAM	50	50	18 63	18 73	18 48			
20	256QAM	100	0	18 53	18 65	18 52			
Channel							37715	38000	38115
Frequency (MHz)							2577.5	2595	2612.5
15	QPSK	1	0	22 76	22 80	22 56	23.4	0	
15	QPSK	1	74	22 69	22 74	22 63			
15	QPSK	36	0	22 43	22 68	22 28			
15	QPSK	36	20	22 45	22 72	22 44			
15	QPSK	36	39	22 45	22 87	22 37			
15	QPSK	75	0	22 46	22 44	22 37			
15	16QAM	1	0	22 43	22 46	22 29			
15	16QAM	1	37	22 47	22 46	22 46			
15	16QAM	1	74	22 39	22 50	22 31			
15	16QAM	36	0	21 57	21 46	21 22			
15	16QAM	36	20	21 59	21 64	21 56			
15	16QAM	36	39	21 40	21 54	21 31			
15	16QAM	75	0	21 48	21 53	21 20			
15	64QAM	1	0	21 61	21 64	21 21			
15	64QAM	1	37	21 40	21 61	21 29			
15	64QAM	1	74	21 32	21 56	21 38			
15	64QAM	36	0	20 41	20 56	20 25			
15	64QAM	36	20	20 47	20 64	20 26			
15	64QAM	36	39	20 45	20 58	20 30			
15	64QAM	75	0	20 50	20 55	20 33			
15	256QAM	1	0	18 53	18 63	18 37			
15	256QAM	1	37	18 38	18 47	18 35			
15	256QAM	1	74	18 58	18 61	18 28			
15	256QAM	36	0	18 37	18 38	18 38			
15	256QAM	36	20	18 58	18 44	18 36			
15	256QAM	36	39	18 60	18 55	18 34			
15	256QAM	75	0	18 58	18 61	18 45			
Channel							37600	38000	38000
Frequency (MHz)							2575	2595	2615
10	QPSK	1	0	22 80	23 03	22 62	23.4	0	
10	QPSK	1	49	22 86	22 87	22 69			
10	QPSK	25	0	22 44	22 70	22 24			
10	QPSK	25	25	22 45	22 88	22 48			
10	QPSK	25	25	22 54	22 52	22 51			
10	QPSK	50	0	22 42	22 40	22 40			
10	16QAM	1	0	22 70	22 38	22 35			
10	16QAM	1	25	22 81	22 55	22 39			
10	16QAM	1	49	22 52	22 59	22 41			
10	16QAM	25	0	21 59	21 52	21 30			
10	16QAM	25	25	21 62	21 53	21 21			
10	16QAM	25	25	21 41	21 68	21 24			
10	16QAM	50	0	21 48	21 62	21 32			
10	64QAM	1	0	21 56	21 59	21 38			
10	64QAM	1	25	21 51	21 60	21 32			
10	64QAM	1	49	21 42	21 68	21 41			
10	64QAM	25	0	20 45	20 54	20 25			
10	64QAM	25	12	20 42	20 52	20 34			
10	64QAM	25	25	20 58	20 45	20 39			
10	64QAM	50	0	20 59	20 48	20 35			
10	256QAM	1	0	18 53	18 59	18 42			
10	256QAM	1	25	18 36	18 53	18 31			
10	256QAM	1	49	18 50	18 60	18 46			
10	256QAM	25	0	18 37	18 59	18 26			
10	256QAM	25	12	18 69	18 45	18 25			
10	256QAM	25	25	18 48	18 58	18 31			
10	256QAM	50	0	18 39	18 62	18 42			
Channel							37715	38000	38025
Frequency (MHz)							2572.5	2595	2617.5
5	QPSK	1	0	22 73	23 02	22 60	23.4	0	
5	QPSK	1	24	22 78	22 58	22 67			
5	QPSK	12	0	22 54	22 56	22 26			
5	QPSK	12	7	22 41	22 58	22 32			
5	QPSK	12	13	22 49	22 59	22 49			
5	QPSK	25	0	22 39	22 54	22 28			
5	16QAM	1	0	22 81	22 47	22 34			
5	16QAM	1	12	22 53	22 51	22 43			
5	16QAM	1	24	22 58	22 58	22 32			
5	16QAM	12	0	21 61	21 57	21 12			
5	16QAM	12	7	21 44	21 58	21 15			
5	16QAM	12	13	21 52	21 49	21 31			
5	16QAM	25	0	21 47	21 64	21 33			
5	64QAM	1	0	21 59	21 65	21 33			
5	64QAM	1	12	21 41	21 57	21 46			
5	64QAM	1	24	21 35	21 54	21 36			
5	64QAM	12	0	20 41	20 58	20 21			
5	64QAM	12	7	20 43	20 51	20 21			
5	64QAM	12	13	20 35	20 63	20 33			
5	64QAM	25	0	20 44	20 57	20 21			
5	256QAM	1	0	18 42	18 73	18 45			
5	256QAM	1	12	18 50	18 59	18 33			
5	256QAM	1	24	18 54	18 55	18 37			
5	256QAM	12	0	18 48	18 67	18 44			
5	256QAM	12	7	18 72	18 50	18 31			
5	256QAM	12	13	18 57	18 57	18 28			
5	256QAM	25	0	18 38	18 48	18 40			

Band 38 - Ant1 PC2 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							37850	38000	38150
Frequency (MHz)							2580	2595	2610
20	QPSK	1	0	24 38	24 53	24 21	25	0	
20	QPSK	1	49	24 38	24 34	24 32			
20	QPSK	1	99	24 29	24 36	24 19			
20	QPSK	50	0	24 32	24 48	24 17			
20	QPSK	50	24	24 27	24 52	24 10			
20	QPSK	50	50	24 08	24 37	24 25			
20	QPSK	100	0	24 10	24 39	23 98			
20	16QAM	1	0	24 23	24 27	24 07			
20	16QAM	1	49	24 27	24 26	24 24			
20	16QAM	1	99	24 12	24 35	24 16			
20	16QAM	50	0	24 17	24 28	24 04			
20	16QAM	50	24	24 06	24 16	24 05			
20	16QAM	50	50	23 88	24 19	24 02			
20	16QAM	100	0	24 21	24 22	24 18			
20	64QAM	1	0	24 14	24 33	23 91			
20	64QAM	1	49	24 02	24 11	24 15			
20	64QAM	1	99	24 05	24 30	23 99			
20	64QAM	50	0	23 14	23 40	23 08			
20	64QAM	50	24	23 15	23 18	23 11			
20	64QAM	50	50	23 03	23 23	23 16			
20	64QAM	100	0	23 00	23 29	22 92			
20	256QAM	1	0	21 13	21 38	21 08			
20	256QAM	1	49	21 24	21 03	21 20			
20	256QAM	1	99	21 09	21 17	21 07			
20	256QAM	50	0	21 06	21 08	20 86			
20	256QAM	50	24	21 05	21 06	21 08			
20	256QAM	50	50	20 96	21 24	21 09			
20	256QAM	100	0	21 03	21 24	21 06			
Channel							37715	38000	38115
Frequency (MHz)							2577.5	2595	2612.5
15	QPSK	1	0	24 44	24 39	24 24	25	0	
15	QPSK	1	74	24 40	24 43	24 35			
15	QPSK	1	74	24 17	24 35	24 24			
15	QPSK	36	0	24 32	24 41	23 98			
15	QPSK	36	20	24 22	24 28	24 13			
15	QPSK	36	39	24 11	24 41	24 22			
15	QPSK	75	0	24 18	24 40	24 10			
15	16QAM	1	0	24 27	24 26	24 04			
15	16QAM	1	37	24 16	24 31	24 17			
15	16QAM	1	74	24 13	24 26	24 01			
15	16QAM	36	0	24 09	24 28	24 00			
15	16QAM	36	20	24 12	24 38	23 92			
15	16QAM	36	39	23 87	24 22	23 89			
15	16QAM	75	0	24 15	24 18	24 12			
15	64QAM	1	0	24 10	24 27	23 87			
15	64QAM	1	37	24 02	24 22	23 96			
15	64QAM</								

**Band 41 - Ant1 PC3 DS3**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Co. (Freq)	Power Low Mid Co. (Freq)	Power Middle Co. (Freq)	Power High Mid Co. (Freq)	Power High Co. (Freq)	Tune-up limit (dBm)	MPR (dB)
Channel										
				39750	40185	40620	41055	41490		
Frequency (MHz)										
30	QPSK	1	0	2506	2549.5	2593	2636.5	2680	23.4	0
30	QPSK	1	49	2301	2344.5	2387	2431	2474	23.4	0
30	QPSK	1	99	2252	2295.5	2339	2382.5	2426	23.4	0
30	QPSK	50	0	2212	2212	2212	2212	2212	23.4	0
30	QPSK	50	24	2211	2213	2215	2217	2219	23.4	0.4
30	QPSK	50	50	2206	2207	2208	2209	2210	23.4	0.4
30	QPSK	100	0	2216	2216	2216	2216	2216	23.4	0.4
30	16QAM	1	0	2206	2213	2221	2229	2237	23.4	0.4
30	16QAM	1	49	2213	2221	2229	2237	2245	23.4	0.4
30	16QAM	1	99	2202	2214	2224	2234	2244	23.4	0.4
30	16QAM	50	0	2120	2128	2136	2144	2152	23.4	1.4
30	16QAM	50	24	2125	2128	2131	2134	2137	23.4	1.4
30	16QAM	50	50	2121	2121	2121	2121	2121	23.4	1.4
30	16QAM	100	0	2124	2129	2134	2139	2144	23.4	1.4
30	16QAM	100	24	2130	2131	2132	2133	2134	23.4	1.4
30	16QAM	100	49	2135	2136	2137	2138	2139	23.4	1.4
30	16QAM	100	99	2133	2139	2145	2151	2157	23.4	1.4
30	64QAM	1	0	2020	2027	2034	2041	2048	21.4	2.4
30	64QAM	1	49	2003	2022	2041	2060	2079	21.4	2.4
30	64QAM	50	0	2003	2014	2024	2034	2044	21.4	2.4
30	64QAM	50	24	1999	2010	2020	2030	2040	21.4	2.4
30	256QAM	1	0	1811	1813	1815	1817	1819	19.4	4.4
30	256QAM	1	49	1806	1807	1808	1809	1810	19.4	4.4
30	256QAM	1	99	1797	1802	1806	1810	1814	19.4	4.4
30	256QAM	50	0	1813	1813	1813	1813	1813	19.4	4.4
30	256QAM	50	24	1813	1808	1810	1813	1818	19.4	4.4
30	256QAM	50	50	1808	1827	1821	1826	1831	19.4	4.4
30	256QAM	100	0	1727	1733	1740	1746	1753	19.4	4.4
Channel										
				39750	40185	40620	41055	41490		
Frequency (MHz)										
15	QPSK	1	0	2331	2331	2329	2327	2325	23.0	0
15	QPSK	1	31	2319	2319	2317	2315	2313	23.0	0
15	QPSK	1	74	2302	2305	2302	2302	2301	23.0	0
15	QPSK	36	0	2225	2220	2228	2238	2248	23.0	0
15	QPSK	36	24	2228	2217	2226	2235	2244	23.0	0
15	QPSK	36	39	2225	2214	2224	2233	2242	23.0	0
15	QPSK	75	0	2219	2221	2223	2223	2218	23.0	0.4
15	16QAM	1	0	2226	2223	2223	2228	2238	23.0	0.4
15	16QAM	1	31	2249	2242	2243	2241	2242	23.0	0.4
15	16QAM	1	74	2230	2227	2215	2211	2217	23.0	0.4
15	16QAM	36	0	2134	2134	2111	2111	2130	23.0	1.4
15	16QAM	36	20	2123	2129	2127	2110	2124	23.0	1.4
15	16QAM	36	39	2123	2115	2112	2111	2118	23.0	1.4
15	16QAM	75	0	2127	2119	2105	2112	2127	23.0	1.4
15	16QAM	75	20	2143	2143	2116	2116	2142	23.0	1.4
15	64QAM	1	37	2131	2122	2116	2124	2126	22.1	1.4
15	64QAM	1	74	2114	2110	2126	2123	2110	22.1	1.4
15	64QAM	36	0	2020	2029	2018	2015	2028	21.4	2.4
15	64QAM	36	20	2027	2021	2015	2023	2023	21.4	2.4
15	64QAM	36	39	2020	2021	2029	2026	2013	21.4	2.4
15	64QAM	75	0	2029	2024	2025	2011	2026	21.4	2.4
15	256QAM	1	37	1823	1819	1820	1824	1826	19.4	4.4
15	256QAM	1	74	1809	1806	1822	1818	1801	19.4	4.4
15	256QAM	36	0	1833	1830	1818	1820	1824	19.4	4.4
15	256QAM	36	20	1839	1830	1818	1814	1833	19.4	4.4
15	256QAM	36	39	1830	1824	1820	1818	1820	19.4	4.4
15	256QAM	75	0	1825	1825	1825	1825	1825	19.4	4.4
Channel										
				39750	40185	40620	41055	41490		
Frequency (MHz)										
10	QPSK	1	0	2286	2283	2285	2270	2285	23.0	0
10	QPSK	1	24	2291	2290	2292	2287	2291	23.0	0
10	QPSK	1	49	2275	2275	2281	2282	2278	23.0	0
10	QPSK	25	0	2185	2182	2215	2189	2196	23.0	0.4
10	QPSK	25	12	2189	2203	2203	2198	2203	23.0	0.4
10	QPSK	25	25	2192	2193	2206	2172	2188	23.0	0.4
10	QPSK	50	0	2200	2199	2201	2188	2192	23.0	0.4
10	16QAM	1	0	2191	2199	2199	2184	2192	23.0	0.4
10	16QAM	1	24	2206	2213	2209	2196	2203	23.0	0.4
10	16QAM	1	49	2187	2210	2191	2191	2196	23.0	0.4
10	16QAM	25	0	2105	2114	2110	2075	2100	23.0	1.4
10	16QAM	25	12	2109	2112	2111	2087	2108	23.0	1.4
10	16QAM	25	25	2117	2108	2098	2102	2094	23.0	1.4
10	16QAM	50	0	2122	2118	2115	2104	2102	23.0	1.4
10	16QAM	50	12	2125	2127	2124	2108	2109	23.0	1.4
10	16QAM	50	25	2106	2120	2120	2101	2106	23.0	1.4
10	64QAM	1	49	2113	2109	2120	2111	2115	23.0	1.4
10	64QAM	25	0	2012	1994	2012	1994	2006	21.4	2.4
10	64QAM	25	12	1995	2021	2011	1991	1999	21.4	2.4
10	64QAM	25	25	1995	2007	2016	1996	1991	21.4	2.4
10	64QAM	50	0	1994	1996	2011	1990	2015	21.4	2.4
10	256QAM	1	49	1809	1811	1819	1820	1826	19.4	4.4
10	256QAM	1	25	1806	1780	1817	1792	1789	19.4	4.4
10	256QAM	1	49	1788	1785	1797	1783	1791	19.4	4.4
10	256QAM	25	0	1814	1807	1809	1811	1788	19.4	4.4
10	256QAM	25	12	1810	1789	1802	1776	1800	19.4	4.4
10	256QAM	25	25	1798	1812	1808	1790	1812	19.4	4.4
10	256QAM	50	0	1725	1820	1815	1796	1791	19.4	4.4
Channel										
				39750	40185	40620	41055	41490		
Frequency (MHz)										
5	QPSK	1	0	2286	2286	2289	2275	2284	23.0	0
5	QPSK	1	24	2277	2284	2285	2285	2276	23.0	0
5	QPSK	12	0	2204	2199	2201	2172	2202	23.0	0.4
5	QPSK	12	13	2203	2195	2207	2175	2192	23.0	0.4
5	QPSK	25	0	2210	2206	2205	2201	2206	23.0	0.4
5	16QAM	1	12	2195	2217	2201	2194	2199	23.0	0.4
5	16QAM	1	24	2185	2199	2219	2199	2209	23.0	0.4
5	16QAM	12	0	2120	2116	2129	2076	2113	23.0	1.4
5	16QAM	12	13	2114	2109	2108	2090	2102	23.0	1.4
5	16QAM	25	0	2113	2117	2119	2107	2103	23.0	1.4
5	64QAM	1	12	2115	2118	2121	2088	2119	23.0	1.4
5	64QAM	1	24	2093	2113	2125	2103	2103	23.0	1.4
5	64QAM	12	0	2001	1995	2010	1996	2009	21.4	2.4
5	64QAM	12	13	1999	2019	2030	1995	1998	21.4	2.4
5	64QAM	25	0	1996	2000	2028	1995	2016	21.4	2.4
5	256QAM	1	12	1808	1814	1811	1779	1799	19.4	4.4
5	256QAM	1	24	1805	1785	1810	1788	1801	19.4	4.4
5	256QAM	1	49	1780	1782	1784	1789	1793	19.4	4.4
5	256QAM	12	0	1813	1787	1805	1813	1784	19.4	4.4
5	256QAM	12	13	1799	1817	1815	1802	1806	19.4	4.4
5	256QAM	25	0	1720	1796	1809	1794	1794	19.4	4.4

Band 41 - Ant1 PC2 DS3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Co. (Freq)	Power Low Mid Co. (Freq)	Power Middle Co. (Freq)	Power High Mid Co. (Freq)	Power High Co. (Freq)	Tune-up limit (dBm)	MPR (dB)
Channel										

CSM1800 TX Channel	Ant1 DS16			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	Burst Average Power (dBm)				Frame-Average Power (dBm)			
	512	861	810		512	861	810	
Frequency (MHz)	1850.2	1880	1909.8	30.00	1850.2	1880	1909.8	21.00
GSM 1 Tx slot	29.39	29.60	29.68	30.00	20.39	20.60	20.58	21.00
GPRS 1 Tx slot	29.51	29.64	29.65	30.00	20.51	20.64	20.65	21.00
GPRS 2 Tx slots	25.97	25.99	25.81	27.00	19.97	19.99	19.81	21.00
GPRS 3 Tx slots	24.83	24.69	24.76	25.20	20.57	20.43	20.50	20.94
GPRS 4 Tx slots	23.55	23.67	23.63	24.00	20.55	20.67	20.63	21.00
EDGE 1 Tx slot	26.18	25.47	25.51	26.50	16.18	16.47	16.51	17.50
EDGE 2 Tx slots	24.26	24.55	24.27	25.00	18.26	18.55	18.27	19.00
EDGE 3 Tx slots	22.83	23.06	22.85	23.50	18.57	18.80	18.59	19.24
EDGE 4 Tx slots	21.15	21.41	21.17	21.50	18.15	18.41	18.17	18.50

Band TX Channel	Ant1 DS16			Tune-up Limit (dBm)	Ant1 DS16			Tune-up Limit (dBm)
	WCDMA II				WCDMA IV			
	9262	9400	9538		1312	1413	1513	
Rx Channel	9662	9800	9938		1537	1638	1738	
Frequency (MHz)	1632.4	1680	1907.6	21.00	1712.4	1732.6	1732.6	20.70
3GPP Rel 99 AMR 12.2kpps	19.60	19.88	19.81	21.00	19.78	19.94	19.88	20.70
3GPP Rel 99 RMC 12.2kpps	19.71	19.79	19.67	21.00	19.91	19.99	19.94	20.70
3GPP Rel 6 HSDPA Subtest-1	18.70	18.82	18.68	20.00	18.89	19.04	19.03	19.70
3GPP Rel 6 HSDPA Subtest-2	18.66	18.88	18.70	20.00	18.90	19.06	18.94	19.70
3GPP Rel 6 HSDPA Subtest-3	18.21	18.37	18.22	19.50	18.32	18.55	18.52	19.20
3GPP Rel 6 HSDPA Subtest-4	18.23	18.20	18.18	19.50	18.38	18.52	18.46	19.20
3GPP Rel 8 DC-HSDPA Subtest-1	18.68	18.75	18.64	20.00	18.92	19.03	18.99	19.70
3GPP Rel 8 DC-HSDPA Subtest-2	18.68	18.86	18.61	20.00	18.89	19.06	18.87	19.70
3GPP Rel 8 DC-HSDPA Subtest-3	18.30	18.38	18.09	19.50	18.37	18.42	18.37	19.20
3GPP Rel 8 DC-HSDPA Subtest-4	18.28	18.34	18.26	19.50	18.38	18.58	18.41	19.20
3GPP Rel 6 HSUPA Subtest-1	16.78	16.83	16.83	20.00	16.98	19.06	19.88	19.70
3GPP Rel 6 HSUPA Subtest-2	16.62	16.75	16.61	18.00	16.61	17.01	16.89	17.70
3GPP Rel 6 HSUPA Subtest-3	17.81	17.75	17.67	19.00	17.83	17.98	18.02	18.70
3GPP Rel 6 HSUPA Subtest-4	16.76	16.77	16.71	18.00	16.88	16.96	16.84	17.70
3GPP Rel 6 HSUPA Subtest-5	18.75	18.75	18.71	20.00	18.95	18.89	18.87	19.70



Band 7 Ant1 DS16										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power Mid Ch. / Freq.	Turn-up (min)	MPE (dB)		
Channel										
20	QPSK	1	0	22.29	22.33	22.31				
20	QPSK	1	48	22.29	22.33	22.32	23.3	0		
20	QPSK	1	96	22.23	22.28	22.26				
20	QPSK	50	0	21.98	22.03	22.01				
20	QPSK	50	24	21.98	22.03	22.02	23	0.3		
20	QPSK	50	50	21.94	21.99	22.01				
20	QPSK	100	0	22.00	22.06	22.00				
20	QPSK	100	24	22.00	22.06	22.02	23	0.3		
20	QPSK	1	48	21.97	21.92	22.02				
20	16QAM	1	96	21.94	21.96	21.97				
20	16QAM	50	0	21.92	21.96	21.90	22	1.3		
20	16QAM	50	24	20.96	20.91	21.00				
20	16QAM	50	50	20.91	20.96	20.99				
20	16QAM	100	0	20.98	21.00	21.02				
20	16QAM	100	24	20.70	20.62	20.70				
20	16QAM	1	48	20.93	20.85	20.73	22	1.3		
20	16QAM	50	0	19.85	19.79	19.72				
20	16QAM	50	24	19.85	19.85	19.73	21	2.3		
20	16QAM	50	50	19.82	19.89	19.89				
20	16QAM	100	0	19.72	19.79	19.70				
20	256QAM	1	48	18.26	18.12	18.25	19	4.3		
20	256QAM	1	96	18.13	18.18	18.31				
20	256QAM	50	0	18.02	18.16	18.25				
20	256QAM	50	24	18.10	18.28	18.23	19	4.3		
20	256QAM	50	50	18.18	18.21	18.20				
20	256QAM	100	0	18.09	18.10	18.10				
Channel										
18	QPSK	1	0	22.24	22.30	22.24				
18	QPSK	1	32	22.14	22.18	22.20	23.3	0		
18	QPSK	1	74	22.14	22.21	22.24				
18	QPSK	36	0	21.90	22.01	21.93				
18	QPSK	36	24	21.80	21.86	21.90	23	0.3		
18	QPSK	36	39	21.85	21.89	21.94				
18	QPSK	75	0	21.96	21.99	21.99				
18	QPSK	75	24	21.11	21.07	21.03	23	0.3		
18	16QAM	1	37	21.91	21.80	21.97				
18	16QAM	1	74	21.11	21.07	21.03	22	1.3		
18	16QAM	36	0	20.89	20.98	20.91				
18	16QAM	36	20	20.89	20.84	20.95	22	1.3		
18	16QAM	36	39	20.82	20.84	20.92				
18	16QAM	75	0	20.58	20.78	20.65	21	2.3		
18	16QAM	75	24	20.58	20.74	20.81				
18	16QAM	36	0	19.59	19.75	19.88				
18	16QAM	36	20	19.52	19.68	19.85	21	2.3		
18	16QAM	36	39	19.56	19.57	19.63				
18	16QAM	75	0	19.65	19.69	19.63				
18	256QAM	1	37	18.17	18.04	18.10	19	4.3		
18	256QAM	1	74	18.04	18.10	18.22				
18	256QAM	36	0	18.06	18.20	18.06				
18	256QAM	36	20	18.06	18.20	18.13	19	4.3		
18	256QAM	36	39	18.10	18.14	18.13				
18	256QAM	75	0	18.00	18.10	18.14				
Channel										
10	QPSK	1	0	22.22	22.33	22.22				
10	QPSK	1	25	22.17	22.18	22.25	23.3	0		
10	QPSK	1	49	22.17	22.18	22.21				
10	QPSK	25	0	21.88	21.88	21.96				
10	QPSK	25	12	21.88	21.88	21.96	23	0.3		
10	QPSK	25	25	21.89	21.88	21.94				
10	QPSK	50	0	21.86	21.92	21.94				
10	QPSK	50	24	21.97	22.03	21.99	23	0.3		
10	16QAM	1	24	21.90	21.85	21.96				
10	16QAM	1	48	21.86	21.80	21.95	23	0.3		
10	16QAM	1	96	21.86	21.80	21.95				
10	16QAM	25	0	20.97	21.02	20.93				
10	16QAM	25	12	20.90	20.84	20.91	22	1.3		
10	16QAM	25	25	20.93	20.91	20.99				
10	16QAM	50	0	20.62	20.71	20.64				
10	16QAM	50	24	20.61	20.58	20.62	22	1.3		
10	16QAM	50	48	20.60	20.60	20.65				
10	16QAM	1	48	20.66	20.70	20.62				
10	16QAM	25	0	19.55	19.73	19.67				
10	16QAM	25	12	19.56	19.68	19.66	21	2.3		
10	16QAM	25	25	19.58	19.63	19.61				
10	16QAM	50	0	19.67	19.69	19.62				
10	256QAM	1	37	18.05	18.10	18.07	19	4.3		
10	256QAM	1	74	18.19	18.06	18.16				
10	256QAM	1	49	18.07	18.11	18.23				
10	256QAM	25	0	18.09	18.08	18.08				
10	256QAM	25	12	18.00	18.17	18.13	19	4.3		
10	256QAM	25	25	18.14	18.16	18.13				
10	256QAM	50	0	18.09	18.09	18.11				
Channel										
5	QPSK	1	0	22.22	22.33	22.22				
5	QPSK	1	12	22.19	22.19	22.23	23.3	0		
5	QPSK	1	24	22.14	22.22	22.26				
5	QPSK	12	0	21.91	22.02	21.93				
5	QPSK	12	7	21.93	21.84	21.99	23	0.3		
5	QPSK	12	13	21.88	21.88	21.92				
5	QPSK	25	0	21.94	22.02	21.93				
5	16QAM	1	0	21.94	22.04	21.92	23	0.3		
5	16QAM	1	24	21.88	21.88	21.99				
5	16QAM	12	0	20.89	20.96	20.96				
5	16QAM	12	7	20.88	20.84	20.91	22	1.3		
5	16QAM	12	13	20.96	20.91	21.03				
5	16QAM	25	0	20.62	20.78	20.65				
5	16QAM	25	0	20.60	20.67	20.63	22	1.3		
5	16QAM	25	12	20.62	20.60	20.64				
5	16QAM	25	24	20.64	20.76	20.82				
5	16QAM	12	0	19.60	19.72	19.62				
5	16QAM	12	7	19.56	19.67	19.66	21	2.3		
5	16QAM	12	13	19.54	19.61	19.63				
5	16QAM	25	0	18.68	18.69	18.62				
5	256QAM	1	0	18.04	18.21	18.08	19	4.3		
5	256QAM	1	12	18.18	18.07	18.16				
5	256QAM	1	24	18.04	18.09	18.22				
5	256QAM	12	0	18.10	18.09	18.09				
5	256QAM	12	7	18.10	18.16	18.16	19	4.3		
5	256QAM	12	13	18.14	18.12	18.12				
5	256QAM	25	0	18.10	18.10	18.11				

Band 66 Ant1 DS16										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power Mid Ch. / Freq.	Turn-up (min)	MPE (dB)		
Channel										
20	QPSK	1	0	20.99	20.10	20.16				
20	QPSK	1	48	20.99	20.10	20.14	21.1	0		
20	QPSK	1	96	20.05	20.17	20.10				
20	QPSK	50	0	20.05	20.12	20.11				
20	QPSK	50	24	20.05	20.09	20.08	21.1	0		
20	QPSK	50	50	20.01	20.07	20.01				
20	QPSK	100	0	19.99	20.11	20.09				
20	QPSK	100	24	19.98	20.14	20.12	21.1	0		
20	16QAM	1	48	20.00	20.09	20.11				
20	16QAM	1	96	20.02	20.13	20.07				
20	16QAM	50	0	19.92	20.08	20.05	21.1	0		
20	16QAM	50	24	19.95	20.03	20.02				
20	16QAM	50	50	19.96	20.01	20.01				
20	16QAM	100	0	19.95	20.00	20.00				
20	16QAM	100	24	19.94	20.17	20.10	21.1	0		
20	16QAM	1	48	19.99	20.09	20.10				
20	16QAM	50	0	19.97	20.00	20.02	21.1	0		
20	16QAM	50	24	19.93	19.99	19.96				



Band 38-PC3 Ant1 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Co. Freq.	Power Middle Co. Freq.	Power High Co. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel							37850	38000	38150
Frequency (MHz)							2580	2595	2610
20	QPSK	1	0	23.31	23.36	23.27	24	0	
20	QPSK	1	49	23.17	23.24	23.13			
20	QPSK	1	99	23.02	23.03	23.06			
20	QPSK	50	0	22.27	22.31	22.20			
20	QPSK	50	24	22.25	22.23	22.17			
20	QPSK	50	50	22.08	22.12	22.10			
20	QPSK	100	0	22.20	22.26	22.17			
20	16QAM	1	0	22.53	22.57	22.51			
20	16QAM	1	49	22.50	22.45	22.43			
20	16QAM	1	99	22.28	22.31	22.25			
20	16QAM	50	0	21.28	21.30	21.29			
20	16QAM	50	24	21.17	21.24	21.23			
20	16QAM	50	50	21.14	21.20	21.13			
20	16QAM	100	0	21.23	21.25	21.20			
20	64QAM	1	0	21.36	21.41	21.36			
20	64QAM	1	49	21.20	21.28	21.21			
20	64QAM	1	99	21.12	21.12	21.10			
20	64QAM	50	0	20.31	20.29	20.27			
20	64QAM	50	24	20.20	20.27	20.22			
20	64QAM	50	50	20.42	20.19	20.18			
20	64QAM	100	0	20.23	20.26	20.22			
20	256QAM	1	0	18.26	18.26	18.26			
20	256QAM	1	49	18.21	18.21	18.18			
20	256QAM	1	99	18.09	18.08	18.05			
20	256QAM	50	0	18.26	18.26	18.26			
20	256QAM	50	24	18.36	18.37	18.31			
20	256QAM	50	50	18.24	18.25	18.19			
20	256QAM	100	0	18.16	18.24	18.20			
Channel							37775	37925	38075
Frequency (MHz)							2577.5	2592.5	2612.5
15	QPSK	1	0	23.25	23.25	23.24	24	0	
15	QPSK	1	49	23.08	23.07	23.06			
15	QPSK	1	74	23.10	23.01	23.03			
15	QPSK	36	0	22.21	22.23	22.16			
15	QPSK	36	20	22.23	22.22	22.10			
15	QPSK	36	39	22.07	22.10	22.08			
15	QPSK	75	0	22.17	22.18	22.12			
15	16QAM	1	0	22.47	22.43	22.47			
15	16QAM	1	37	22.37	22.41	22.42			
15	16QAM	1	74	22.22	22.28	22.23			
15	16QAM	36	0	21.26	21.28	21.28			
15	16QAM	36	20	21.13	21.22	21.19			
15	16QAM	36	39	21.32	21.13	21.11			
15	16QAM	75	0	21.17	21.24	21.16			
15	64QAM	1	0	21.32	21.39	21.34			
15	64QAM	1	37	21.36	21.25	21.15			
15	64QAM	1	74	21.05	21.10	21.08			
15	64QAM	36	0	20.48	20.23	20.20			
15	64QAM	36	20	20.13	20.21	20.17			
15	64QAM	36	39	20.10	20.16	20.12			
15	64QAM	75	0	20.19	20.20	20.15			
15	256QAM	1	0	18.25	18.25	18.22			
15	256QAM	1	37	18.14	18.17	18.15			
15	256QAM	1	74	18.03	18.07	18.05			
15	256QAM	36	0	18.33	18.33	18.33			
15	256QAM	36	20	18.30	18.32	18.24			
15	256QAM	36	39	18.19	18.23	18.17			
15	256QAM	75	0	18.13	18.14	18.14			
Channel							37600	38000	38200
Frequency (MHz)							2575	2595	2615
10	QPSK	1	0	23.25	23.24	23.21	24	0	
10	QPSK	1	49	23.10	23.05	23.01			
10	QPSK	25	0	22.20	22.18	22.14			
10	QPSK	25	25	22.19	22.17	22.11			
10	QPSK	25	25	22.03	22.05	22.03			
10	QPSK	50	0	22.14	22.12	22.12			
10	16QAM	1	0	22.48	22.52	22.46			
10	16QAM	1	25	22.37	22.38	22.37			
10	16QAM	1	49	22.22	22.26	22.18			
10	16QAM	25	0	21.23	21.25	21.23			
10	16QAM	25	12	21.10	21.17	21.16			
10	16QAM	25	25	21.09	21.15	21.08			
10	16QAM	50	0	21.18	21.18	21.13			
10	64QAM	1	0	21.31	21.26	21.23			
10	64QAM	1	25	21.14	21.22	21.15			
10	64QAM	1	49	21.06	21.07	21.05			
10	64QAM	25	0	20.45	20.23	20.22			
10	64QAM	25	12	20.13	20.20	20.16			
10	64QAM	25	25	20.06	20.14	20.11			
10	64QAM	50	0	20.17	20.20	20.17			
10	256QAM	1	0	18.23	18.24	18.19			
10	256QAM	1	25	18.15	18.14	18.13			
10	256QAM	1	49	18.04	18.02	18.00			
10	256QAM	25	0	18.29	18.34	18.31			
10	256QAM	25	12	18.30	18.31	18.26			
10	256QAM	25	25	18.18	18.19	18.12			
10	256QAM	50	0	18.09	18.10	18.13			
Channel							37775	38000	38225
Frequency (MHz)							2572.5	2595	2617.5
5	QPSK	1	0	23.36	23.33	23.29	24	0	
5	QPSK	1	12	23.19	23.23	23.17			
5	QPSK	1	24	23.05	23.07	23.00			
5	QPSK	12	0	22.29	22.28	22.24			
5	QPSK	12	7	22.28	22.26	22.21			
5	QPSK	12	13	22.12	22.15	22.13			
5	QPSK	25	0	22.23	22.22	22.20			
5	16QAM	1	0	22.58	22.59	22.54			
5	16QAM	1	12	22.43	22.47	22.47			
5	16QAM	1	24	22.31	22.34	22.28			
5	16QAM	12	0	21.31	21.33	21.32			
5	16QAM	12	7	21.19	21.26	21.26			
5	16QAM	12	13	21.18	21.23	21.18			
5	16QAM	25	0	21.27	21.28	21.23			
5	64QAM	1	0	21.40	21.44	21.40			
5	64QAM	1	12	21.24	21.30	21.24			
5	64QAM	1	24	21.15	21.14	21.14			
5	64QAM	12	0	20.34	20.33	20.30			
5	64QAM	12	7	20.24	20.30	20.25			
5	64QAM	12	13	20.16	20.22	20.21			
5	64QAM	25	0	20.25	20.29	20.25			
5	256QAM	1	0	18.32	18.32	18.29			
5	256QAM	1	12	18.23	18.23	18.21			
5	256QAM	1	24	18.13	18.12	18.09			
5	256QAM	12	0	18.28	18.41	18.40			
5	256QAM	12	7	18.30	18.30	18.30			
5	256QAM	12	13	18.27	18.27	18.23			
5	256QAM	25	0	18.18	18.26	18.24			

Band 38 -PC2 Ant1 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Co. Freq.	Power Middle Co. Freq.	Power High Co. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel							37850	38000	38150
Frequency (MHz)							2580	2595	2610
20	QPSK	1	0	26.32	26.39	26.33	27	0	
20	QPSK	1	49	26.24	26.15	26.26			
20	QPSK	1	99	26.18	26.33	26.24			
20	QPSK	50	0	25.28	25.38	25.37			
20	QPSK	50	24	25.17	25.35	25.33			
20	QPSK	50	50	25.11	25.26	25.18			
20	QPSK	100	0	25.40	25.47	25.31			
20	16QAM	1	0	25.36	25.44	25.36			
20	16QAM	1	49	25.19	25.45	25.21			
20	16QAM	1	99	25.15	25.35	25.26			
20	16QAM	50	0	24.38	24.45	24.38			
20	16QAM	50	24	24.26	24.45	24.27			
20	16QAM	50	50	24.24	24.28	24.26			
20	16QAM	100	0	24.24	24.44	24.42			
20	64QAM	1	0	24.39	24.50	24.36			
20	64QAM	1	49	24.21	24.46	24.33			
20	64QAM	1	99	24.13	24.32	24.21			
20	64QAM	50	0	23.28	23.48	23.41			
20	64QAM	50	24	23.31	23.33	23.46			
20	64QAM	50	50	23.27	23.32	23.27			
20	64QAM	100	0	23.12	23.25	23.33			
20	256QAM	1	0	21.41	21.43	21.36			
20	256QAM	1	49	21.16	21.38	21.27			
20	256QAM	1	99	21.23	21.40	21.28			
20	256QAM	50	0	21.36	21.46	21.36			
20	256QAM	50	24	21.30	21.50	21.43			
20	256QAM	50	50	21.21	21.36	21.16			
20	256QAM	100	0	21.17	21.38	21.27			
Channel							37775	38000	38175
Frequency (MHz)							2577.5	2595	2612.5
15	QPSK	1	0	26.18	26.27	26.32	27	0	
15	QPSK	1	49	26.13	26.28	26.11			
15	QPSK	1	74	26.05	26.13	26.07			
15	QPSK	36	0	25.14	25.30	25.35			
15	QPSK	36	20	25.10	25.17	25.26			
15	QPSK	36	39	24.91	25.09	25.03			
15	QPSK	75	0	25.36	25.28	25.23			
15	16QAM	1	0	25.34	25.26	25.26			
15	16QAM	1	37	25.11	25.30	25.25			
15	16QAM	1	74	25.11	25.34	25.16			
15	16QAM	36	0	24.21	24.27	24.33			
15	16QAM	36	20	24.22	24.27	24.12			
15	16QAM	36	39	24.19	24.23	24.07			
15	16QAM	75	0	24.18	24.43	24.30			
15	64QAM	1	0	2					

**Band 41 - PC2 Ant1 DS16**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Co. (Frac)	Power Low Mid Co. (Frac)	Power Middle Co. (Frac)	Power High Mid Co. (Frac)	Power High Co. (Frac)	Tune-up limit (dBm)	MPR (dB)
Channel										
				39750	40185	40600	41065	41490		
Frequency (MHz)										
30	QPSK	1	0	2336	2349.5	2363	2376.5	2390	24	0
30	QPSK	1	49	2333	2330	2339	2328	2327	24	0
30	QPSK	1	99	2330	2300	2306	2302	2301	24	0
30	QPSK	50	0	2228	2222	2224	2227	2229	23	1
30	QPSK	50	24	2227	2219	2226	2229	2227	23	1
30	QPSK	50	49	2226	2213	2226	2226	2226	23	1
30	QPSK	100	0	2221	2220	2226	2223	2222	23	1
30	16QAM	1	0	2229	2224	2224	2231	2236	23	1
30	16QAM	1	49	2228	2225	2222	2223	2223	23	1
30	16QAM	1	99	2233	2228	2213	2210	2229	23	1
30	16QAM	50	0	2132	2133	2132	2133	2132	22	2
30	16QAM	50	24	2126	2127	2111	2113	2123	22	2
30	16QAM	50	49	2123	2116	2112	2109	2120	22	2
30	16QAM	100	0	2127	2123	2109	2111	2127	22	2
30	64QAM	1	0	2144	2141	2137	2136	2143	22	2
30	64QAM	1	49	2132	2134	2126	2126	2128	22	2
30	64QAM	1	99	2135	2134	2130	2130	2136	22	2
30	64QAM	50	0	2031	2031	2019	2015	2030	21	3
30	64QAM	50	24	2029	2024	2013	2010	2028	21	3
30	64QAM	50	49	2025	2022	2010	2007	2018	21	3
30	64QAM	100	0	2029	2025	2016	2010	2026	21	3
30	256QAM	1	0	1832	1833	1821	1810	1832	19	5
30	256QAM	1	49	1824	1820	1822	1823	1824	19	5
30	256QAM	1	99	1811	1807	1812	1804	1804	19	5
30	256QAM	50	0	1843	1840	1829	1821	1836	19	5
30	256QAM	50	24	1840	1833	1833	1817	1836	19	5
30	256QAM	50	49	1829	1823	1821	1819	1825	19	5
30	256QAM	100	0	1827	1823	1800	1805	1821	19	5
Channel										
				39750	40185	40600	41065	41490		
Frequency (MHz)										
15	QPSK	1	0	2331	2331	2329	2327	2323	24.00	0
15	QPSK	1	31	2319	2319	2317	2316	2316	24.00	0
15	QPSK	1	74	2302	2302	2302	2302	2301	24.00	0
15	QPSK	36	0	2225	2220	2228	2228	2225	23	1
15	QPSK	36	24	2228	2213	2226	2226	2226	23	1
15	QPSK	36	39	2225	2214	2224	2221	2225	23	1
15	QPSK	75	0	2219	2221	2223	2210	2216	23	1
15	16QAM	1	0	2226	2223	2223	2228	2225	23	1
15	16QAM	1	31	2249	2242	2223	2221	2247	23	1
15	16QAM	1	74	2230	2227	2215	2211	2227	23	1
15	16QAM	36	0	2134	2134	2111	2111	2130	22	2
15	16QAM	36	24	2123	2129	2107	2110	2124	22	2
15	16QAM	36	39	2123	2115	2112	2111	2128	22	2
15	16QAM	75	0	2127	2119	2105	2112	2127	22	2
15	64QAM	1	0	2143	2143	2142	2142	2143	22	2
15	64QAM	1	31	2131	2122	2116	2124	2126	22	2
15	64QAM	1	74	2114	2110	2102	2123	2110	22	2
15	64QAM	36	0	2020	2029	2018	2015	2025	21	3
15	64QAM	36	24	2027	2021	2013	2011	2025	21	3
15	64QAM	36	39	2020	2021	2019	2006	2013	21	3
15	64QAM	75	0	2029	2024	2005	2011	2026	21	3
15	256QAM	1	0	1831	1830	1820	1818	1831	19	5
15	256QAM	1	37	1823	1819	1820	1824	1825	19	5
15	256QAM	1	74	1809	1806	1822	1803	1801	19	5
15	256QAM	36	0	1843	1840	1830	1821	1836	19	5
15	256QAM	36	24	1839	1830	1818	1814	1833	19	5
15	256QAM	36	39	1830	1824	1820	1818	1820	19	5
15	256QAM	75	0	1821	1820	1801	1800	1810	19	5
Channel										
				39750	40185	40600	41065	41490		
Frequency (MHz)										
10	QPSK	1	0	2329	2322	2321	2323	2326	24.00	0
10	QPSK	1	24	2313	2319	2319	2319	2319	24.00	0
10	QPSK	1	49	2304	2300	2300	2300	2301	24.00	0
10	QPSK	25	0	2219	2219	2220	2226	2221	23	1
10	QPSK	25	24	2219	2218	2220	2226	2221	23	1
10	QPSK	25	49	2207	2207	2205	2202	2204	23	1
10	QPSK	50	0	2218	2218	2219	2221	2214	23	1
10	16QAM	1	0	2241	2240	2223	2224	2226	23	1
10	16QAM	1	24	2244	2241	2218	2218	2226	23	1
10	16QAM	1	49	2224	2227	2225	2212	2220	23	1
10	16QAM	25	0	2125	2125	2111	2110	2128	22	2
10	16QAM	25	24	2121	2124	2103	2103	2128	22	2
10	16QAM	25	49	2122	2111	2107	2106	2121	22	2
10	16QAM	50	0	2120	2116	2107	2110	2122	22	2
10	16QAM	50	24	2121	2122	2113	2111	2124	22	2
10	16QAM	50	49	2127	2120	2125	2116	2128	22	2
10	64QAM	1	0	2112	2111	2112	2117	2131	22	2
10	64QAM	25	0	2027	2030	2010	2006	2026	21	3
10	64QAM	25	12	2030	2020	2010	2008	2022	21	3
10	64QAM	25	25	2017	2016	2005	2001	2010	21	3
10	64QAM	50	0	2022	2018	2002	2010	2020	21	3
10	256QAM	1	0	1826	1822	1811	1809	1821	19	5
10	256QAM	1	25	1821	1814	1827	1814	1818	19	5
10	256QAM	1	49	1810	1802	1822	1816	1819	19	5
10	256QAM	25	0	1833	1831	1816	1810	1836	19	5
10	256QAM	25	12	1830	1831	1816	1814	1828	19	5
10	256QAM	25	25	1826	1815	1820	1818	1816	19	5
10	256QAM	50	0	1821	1820	1801	1800	1810	19	5
Channel										
				39750	40185	40600	41065	41490		
Frequency (MHz)										
5	QPSK	1	0	2328	2324	2328	2322	2324	24.00	0
5	QPSK	1	24	2303	2316	2303	2311	2317	24.00	0
5	QPSK	12	0	2225	2219	2226	2224	2222	23	1
5	QPSK	12	13	2221	2220	2221	2222	2222	23	1
5	QPSK	25	0	2215	2218	2214	2220	2216	23	1
5	16QAM	1	12	2245	2242	2217	2219	2218	23	1
5	16QAM	1	24	2230	2224	2218	2226	2226	23	1
5	16QAM	12	0	2130	2127	2110	2106	2126	22	2
5	16QAM	12	7	2124	2122	2107	2110	2119	22	2
5	16QAM	12	13	2119	2112	2107	2104	2121	22	2
5	16QAM	25	0	2122	2118	2104	2108	2121	22	2
5	64QAM	1	0	2129	2128	2115	2112	2136	22	2
5	64QAM	1	24	2111	2109	2117	2107	2103	22	2
5	64QAM	12	0	2028	2025	2014	2009	2026	21	3
5	64QAM	12	7	2025	2020	2008	2007	2013	21	3
5	64QAM	12	13	2018	2018	2007	2003	2019	21	3
5	64QAM	25	0	2024	2023	2006	2005	2021	21	3
5	256QAM	1	0	1828	1822	1810	1806	1828	19	5
5	256QAM	1	12	1821	1816	1812	1824	1819	19	5
5	256QAM	1	24	1806	1803	1822	1823	1814	19	5
5	256QAM	12	0	1828	1831	1816	1810	1836	19	5
5	256QAM	12	7	1830	1829	1812	1812	1832	19	5
5	256QAM	12	13	1825	1819	1817	1816	1821	19	5
5	256QAM	25	0	1824	1819	1803	1800	1821	19	5

Band 41 - PC2 Ant1 DS16

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Co. (Frac)	Power Low Mid Co. (Frac)	Power Middle Co. (Frac)	Power High Mid Co. (Frac)	Power High Co. (Frac)	Tune-up limit (dBm)	MPR
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		Ant2 DS12 Simultaneous			
Band		WCDMA V		Tune-up Limit (dBm)	
		4132	4482		4233
	TX Channel	4357	4407	4458	
	Rx Channel	826.4	836.4	846.6	
	Frequency (MHz)				
3GPP Rel 99	AMR 12.2Kbps	21.43	21.42	21.34	22.70
3GPP Rel 99	RMC 12.2Kbps	21.63	21.67	21.55	22.70
3GPP Rel 6	HSDPA Subtest-1	20.70	20.68	20.54	21.70
3GPP Rel 6	HSDPA Subtest-2	20.61	20.60	20.62	21.70
3GPP Rel 6	HSDPA Subtest-3	20.11	20.12	20.18	21.20
3GPP Rel 6	HSDPA Subtest-4	20.21	20.21	19.92	21.20
3GPP Rel 6	DC-HSDPA Subtest-1	20.59	20.60	20.53	21.70
3GPP Rel 6	DC-HSDPA Subtest-2	20.69	20.63	20.46	21.70
3GPP Rel 6	DC-HSDPA Subtest-3	20.13	20.13	20.16	21.20
3GPP Rel 6	DC-HSDPA Subtest-4	20.27	20.06	19.94	21.20
3GPP Rel 6	HSUPA Subtest-1	20.69	20.61	20.62	21.70
3GPP Rel 6	HSUPA Subtest-2	18.63	18.68	18.49	19.70
3GPP Rel 6	HSUPA Subtest-3	19.58	19.60	19.58	20.70
3GPP Rel 6	HSUPA Subtest-4	18.56	18.71	18.55	19.70
3GPP Rel 6	HSUPA Subtest-5	20.62	20.71	20.68	21.70



Band 4 Ant2 DS12 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	16.88	16.92	16.91				
20	QPSK	1	48	16.88	16.92	16.91	17.8	0		
20	QPSK	1	96	16.78	16.82	16.79				
20	QPSK	50	0	16.87	16.91	16.79				
20	QPSK	50	24	16.88	16.92	16.74				
20	QPSK	50	50	16.82	16.89	16.78	17.8	0		
20	QPSK	100	0	16.83	16.91	16.78				
20	16QAM	1	48	16.89	16.94	16.77	17.8	0		
20	16QAM	1	96	16.83	16.87	16.75				
20	16QAM	50	0	16.89	16.92	16.79				
20	16QAM	50	24	16.83	16.90	16.74	17.8	0		
20	16QAM	50	50	16.79	16.91	16.72				
20	16QAM	100	0	16.79	16.91	16.73				
20	16QAM	1	0	16.83	16.90	16.81				
20	16QAM	1	48	16.88	16.91	16.75	17.8	0		
20	16QAM	1	96	16.83	16.90	16.75				
20	16QAM	50	0	16.83	16.90	16.75				
20	16QAM	50	24	16.88	16.91	16.71	17.8	0		
20	16QAM	50	50	16.83	16.90	16.72				
20	16QAM	100	0	16.85	16.90	16.73				
20	256QAM	1	48	16.83	16.83	16.74	17.8	0		
20	256QAM	1	96	16.88	16.88	16.77				
20	256QAM	35	0	16.87	16.91	16.73				
20	256QAM	50	24	16.87	16.92	16.75	17.8	0		
20	256QAM	50	50	16.81	16.92	16.75				
20	256QAM	100	0	16.81	16.88	16.79				
20	256QAM	100	0	20.025	20.175	20.025				
Channel										
Frequency (MHz)										
15	QPSK	1	0	16.86	16.91	16.80				
15	QPSK	1	48	16.86	16.92	16.73	17.8	0		
15	QPSK	1	74	16.87	16.93	16.77				
15	QPSK	36	0	16.79	16.90	16.74				
15	QPSK	36	20	16.89	16.92	16.74				
15	QPSK	36	36	16.87	16.88	16.79	17.8	0		
15	16QAM	75	0	16.86	16.91	16.77				
15	16QAM	1	0	16.84	16.92	16.72				
15	16QAM	1	37	16.83	16.92	16.80	17.8	0		
15	16QAM	1	74	16.87	16.92	16.73				
15	16QAM	36	0	16.81	16.85	16.72				
15	16QAM	36	20	16.85	16.93	16.73				
15	16QAM	75	0	16.86	16.89	16.71				
15	16QAM	1	0	16.82	16.87	16.78				
15	16QAM	1	37	16.83	16.89	16.76	17.8	0		
15	16QAM	1	74	16.82	16.93	16.78				
15	16QAM	36	0	16.86	16.93	16.79				
15	16QAM	36	20	16.83	16.92	16.73	17.8	0		
15	16QAM	75	0	16.78	16.94	16.72				
15	16QAM	1	0	16.82	16.92	16.76				
15	16QAM	1	37	16.83	16.90	16.76	17.8	0		
15	16QAM	1	74	16.82	16.93	16.78				
15	16QAM	36	0	16.86	16.93	16.79				
15	16QAM	36	20	16.78	16.94	16.75	17.8	0		
15	16QAM	75	0	16.82	16.92	16.72				
15	256QAM	1	37	16.83	16.90	16.75	17.8	0		
15	256QAM	1	74	16.81	16.89	16.79				
15	256QAM	36	0	16.82	16.91	16.73				
15	256QAM	36	20	16.82	16.91	16.81	17.8	0		
15	256QAM	36	36	16.78	16.93	16.71				
15	256QAM	75	0	16.82	16.93	16.78				
Channel										
Frequency (MHz)										
10	QPSK	1	0	16.84	16.92	16.80				
10	QPSK	1	26	16.82	16.83	16.72	17.8	0		
10	QPSK	1	49	16.81	16.89	16.80				
10	QPSK	12	0	16.84	16.92	16.79				
10	QPSK	25	0	16.80	16.93	16.78				
10	QPSK	25	25	16.83	16.90	16.72	17.8	0		
10	16QAM	1	0	16.86	16.90	16.76				
10	16QAM	1	49	16.86	16.94	16.74	17.8	0		
10	16QAM	1	26	16.81	16.92	16.79				
10	16QAM	25	0	16.86	16.93	16.78				
10	16QAM	25	12	16.82	16.92	16.78	17.8	0		
10	16QAM	36	0	16.86	16.92	16.79				
10	16QAM	50	0	16.84	16.89	16.73				
10	16QAM	1	0	16.86	16.90	16.80				
10	16QAM	1	49	16.82	16.94	16.76	17.8	0		
10	16QAM	25	0	16.79	16.93	16.73				
10	16QAM	25	25	16.78	16.98	16.78	17.8	0		
10	16QAM	50	0	16.82	16.94	16.76				
10	16QAM	50	0	16.82	16.92	16.76				
10	256QAM	1	26	16.85	16.88	16.81	17.8	0		
10	256QAM	1	49	16.79	16.93	16.78				
10	256QAM	12	0	16.81	16.92	16.73				
10	256QAM	12	7	16.84	16.91	16.74	17.8	0		
10	256QAM	15	0	16.86	16.90	16.80				
10	256QAM	15	0	16.82	16.94	16.76	17.8	0		
10	256QAM	1	0	16.87	16.92	16.77				
10	256QAM	1	49	16.87	16.92	16.77	17.8	0		
10	256QAM	1	24	16.83	16.89	16.74				
10	256QAM	12	0	16.85	16.92	16.79				
10	256QAM	12	13	16.87	16.92	16.73	17.8	0		
10	256QAM	15	0	16.79	16.92	16.75				
10	256QAM	15	0	16.84	16.93	16.76	17.8	0		
10	256QAM	1	0	16.86	16.90	16.78				
10	256QAM	1	49	16.82	16.98	16.72	17.8	0		
10	256QAM	1	14	16.79	16.87	16.72				
10	256QAM	8	0	16.83	16.92	16.76				
10	256QAM	8	7	16.83	16.94	16.76	17.8	0		
10	256QAM	15	0	16.80	16.92	16.76				
10	256QAM	15	0	16.80	16.92	16.72	17.8	0		
10	256QAM	1	8	16.84	16.87	16.74				
10	256QAM	1	14	16.84	16.91	16.76	17.8	0		
10	256QAM	8	0	16.86	16.92	16.76				
10	256QAM	8	7	16.83	16.94	16.76	17.8	0		
10	256QAM	15	0	16.80	16.92	16.76				
10	256QAM	15	0	16.80	16.92	16.72	17.8	0		
10	256QAM	1	8	16.84	16.87	16.74				
10	256QAM	1	14	16.84	16.91	16.76	17.8	0		
10	256QAM	8	0	16.86	16.92	16.76				
10	256QAM	8	7	16.83	16.94	16.76	17.8	0		
10	256QAM	15	0	16.80	16.92	16.76				
10	256QAM	15	0	16.80	16.92	16.72	17.8	0		
10	256QAM	1	8	16.84	16.87	16.74				
10	256QAM	1	14	16.84	16.91	16.76	17.8	0		
10	256QAM	8	0	16.86	16.92	16.76				
10	256QAM	8	7	16.83	16.94	16.76	17.8	0		
10	256QAM	15	0	16.80	16.92	16.76				
10	256QAM	15	0	16.80	16.92	16.72	17.8	0		
10	256QAM	1	8	16.84	16.84	16.73				
10	256QAM	1	14	16.81	16.88	16.77	17.8	0		
10	256QAM	3	0	16.84	16.92	16.71				
10	256QAM	3	1	16.87	16.90	16.73	17.8	0		
10	256QAM	6	0	16.88	16.93	16.73	17.8	0		

Band 5 Ant2 DS12 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.31	21.30	21.25				
10	QPSK	1	25	21.22	21.29	21.23	22.7	0		
10	QPSK	1	49	21.31	21.31	21.17				
10	QPSK	25	0	21						



Band 12 Ant2 DS2 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. 1/Freq.	Power Ch. 2/Freq.	Power Ch. 3/Freq.	Turn-up Time (min)	MPE (dB)		
Channel										
Frequency (MHz)				700.5	701.5	711				
10	QPSK	1	0	22.39	22.51	22.41				
10	QPSK	1	25	22.39	22.51	22.50			22.9	0
10	QPSK	1	49	22.31	22.40	22.25				
10	QPSK	25	0	21.87	21.99	21.81			22.9	0
10	QPSK	25	12	22.24	22.63	22.24				
10	QPSK	25	25	21.81	21.88	21.76				
10	QPSK	50	0	21.80	21.82	21.77				
10	QPSK	50	12	22.24	22.63	22.24				
10	16QAM	1	25	22.20	22.31	22.20			22.9	0
10	16QAM	1	49	22.18	22.32	22.20				
10	16QAM	25	0	20.99	21.11	20.90				
10	16QAM	25	12	20.98	20.98	20.98			22	0.9
10	16QAM	25	25	20.99	20.98	20.99				
10	16QAM	50	0	20.99	20.99	20.99				
10	16QAM	50	12	21.48	21.82	21.54				
10	84QAM	1	25	21.26	21.60	21.42			22	0.9
10	84QAM	1	49	21.32	21.49	21.36				
10	84QAM	25	0	19.95	20.06	19.98				
10	84QAM	25	12	19.94	19.95	19.99			21	1.9
10	84QAM	25	25	19.99	19.97	19.98				
10	84QAM	50	0	19.90	19.91	19.90				
10	256QAM	1	0	17.66	17.65	17.64			19	3.9
10	256QAM	1	25	17.64	17.69	17.65				
10	256QAM	1	49	17.70	17.65	17.59				
10	256QAM	25	0	19.99	19.97	19.98				
10	256QAM	25	12	17.63	17.65	17.66			19	3.9
10	256QAM	25	25	17.68	17.69	17.66				
10	256QAM	50	0	17.63	17.63	17.63				
10	256QAM	50	12	17.63	17.69	17.65				
10	256QAM	50	25	17.63	17.69	17.65				
10	256QAM	50	49	17.63	17.69	17.65				
10	256QAM	50	74	17.63	17.69	17.65				
10	256QAM	50	99	17.63	17.69	17.65				
10	256QAM	50	124	17.63	17.69	17.65				
10	256QAM	50	149	17.63	17.69	17.65				
10	256QAM	50	174	17.63	17.69	17.65				
10	256QAM	50	199	17.63	17.69	17.65				
10	256QAM	50	224	17.63	17.69	17.65				
10	256QAM	50	249	17.63	17.69	17.65				
10	256QAM	50	274	17.63	17.69	17.65				
10	256QAM	50	299	17.63	17.69	17.65				
10	256QAM	50	324	17.63	17.69	17.65				
10	256QAM	50	349	17.63	17.69	17.65				
10	256QAM	50	374	17.63	17.69	17.65				
10	256QAM	50	399	17.63	17.69	17.65				
10	256QAM	50	424	17.63	17.69	17.65				
10	256QAM	50	449	17.63	17.69	17.65				
10	256QAM	50	474	17.63	17.69	17.65				
10	256QAM	50	499	17.63	17.69	17.65				
10	256QAM	50	524	17.63	17.69	17.65				
10	256QAM	50	549	17.63	17.69	17.65				
10	256QAM	50	574	17.63	17.69	17.65				
10	256QAM	50	599	17.63	17.69	17.65				
10	256QAM	50	624	17.63	17.69	17.65				
10	256QAM	50	649	17.63	17.69	17.65				
10	256QAM	50	674	17.63	17.69	17.65				
10	256QAM	50	699	17.63	17.69	17.65				
10	256QAM	50	724	17.63	17.69	17.65				
10	256QAM	50	749	17.63	17.69	17.65				
10	256QAM	50	774	17.63	17.69	17.65				
10	256QAM	50	799	17.63	17.69	17.65				
10	256QAM	50	824	17.63	17.69	17.65				
10	256QAM	50	849	17.63	17.69	17.65				
10	256QAM	50	874	17.63	17.69	17.65				
10	256QAM	50	899	17.63	17.69	17.65				
10	256QAM	50	924	17.63	17.69	17.65				
10	256QAM	50	949	17.63	17.69	17.65				
10	256QAM	50	974	17.63	17.69	17.65				
10	256QAM	50	999	17.63	17.69	17.65				
10	256QAM	50	1024	17.63	17.69	17.65				
10	256QAM	50	1049	17.63	17.69	17.65				
10	256QAM	50	1074	17.63	17.69	17.65				
10	256QAM	50	1099	17.63	17.69	17.65				
10	256QAM	50	1124	17.63	17.69	17.65				
10	256QAM	50	1149	17.63	17.69	17.65				
10	256QAM	50	1174	17.63	17.69	17.65				
10	256QAM	50	1199	17.63	17.69	17.65				
10	256QAM	50	1224	17.63	17.69	17.65				
10	256QAM	50	1249	17.63	17.69	17.65				
10	256QAM	50	1274	17.63	17.69	17.65				
10	256QAM	50	1299	17.63	17.69	17.65				
10	256QAM	50	1324	17.63	17.69	17.65				
10	256QAM	50	1349	17.63	17.69	17.65				
10	256QAM	50	1374	17.63	17.69	17.65				
10	256QAM	50	1399	17.63	17.69	17.65				
10	256QAM	50	1424	17.63	17.69	17.65				
10	256QAM	50	1449	17.63	17.69	17.65				
10	256QAM	50	1474	17.63	17.69	17.65				
10	256QAM	50	1499	17.63	17.69	17.65				
10	256QAM	50	1524	17.63	17.69	17.65				
10	256QAM	50	1549	17.63	17.69	17.65				
10	256QAM	50	1574	17.63	17.69	17.65				
10	256QAM	50	1599	17.63	17.69	17.65				
10	256QAM	50	1624	17.63	17.69	17.65				
10	256QAM	50	1649	17.63	17.69	17.65				
10	256QAM	50	1674	17.63	17.69	17.65				
10	256QAM	50	1699	17.63	17.69	17.65				
10	256QAM	50	1724	17.63	17.69	17.65				
10	256QAM	50	1749	17.63	17.69	17.65				
10	256QAM	50	1774	17.63	17.69	17.65				
10	256QAM	50	1799	17.63	17.69	17.65				
10	256QAM	50	1824	17.63	17.69	17.65				
10	256QAM	50	1849	17.63	17.69	17.65				
10	256QAM	50	1874	17.63	17.69	17.65				
10	256QAM	50	1899	17.63	17.69	17.65				
10	256QAM	50	1924	17.63	17.69	17.65				
10	256QAM	50	1949	17.63	17.69	17.65				
10	256QAM	50	1974	17.63	17.69	17.65				
10	256QAM	50	1999	17.63	17.69	17.65				
10	256QAM	50	2024	17.63	17.69	17.65				
10	256QAM	50	2049	17.63	17.69	17.65				
10	256QAM	50	2074	17.63	17.69	17.65				
10	256QAM	50	2099	17.63	17.69	17.65				
10	256QAM	50	2124	17.63	17.69	17.65				
10	256QAM	50	2149	17.63	17.69	17.65				
10	256QAM	50	2174	17.63	17.69	17.65				
10	256QAM	50	2199	17.63	17.69	17.65				
10	256QAM	50	2224	17.63	17.69	17.65				
10	256QAM	50	2249	17.63	17.69	17.65				
10	256QAM	50	2274	17.63	17.69	17.65				
10	256QAM	50	2299	17.63	17.69	17.65				
10	256QAM	50	2324	17.63	17.69	17.65				
10	256QAM	50	2349	17.63	17.69	17.65				
10	256QAM	50	2374	17.63	17.69	17.65				
10	256QAM	50	2399	17.63	17.69	17.65				
10	256QAM	50	2424	17.63	17.69	17.65				
10	256QAM	50	2449	17.63	17.69	17.65				
10	256QAM	50	2474	17.63	17.69	17.65				
10	256QAM	50	2499	17.63	17.69	17.65				
10	256QAM	50	2524	17.63	17.69	17.65				
10	256QAM	50	2549	17.63	17.69	17.65				
10	256QAM	50	2574	17.63	17.69	17.65				
10	256QAM	50	2599	17.63	17.69	17.65				
10	256QAM	50	2624	17.63	17.69	17.65				
10	256QAM	50	2649	17.63	17.69	17.65				
10	256QAM	50	2674	17.63	17.69	17.65				
10	256QAM	50	2699	17.63	17.69	17.65				
10	256QAM	50	2724	17.63	17.69	17.65				
10	256QAM	50	2749	17.63	17.69	17.65				
10	256QAM	50	2774	17.63	17.69	17.65				
10	256QAM	50	2799	17.63	17.69	17.65				
10	256QAM	50	2824	17.63	17.69	17.65				
10	256QAM	50	2849	17.63	17.69	17.65				
10	256QAM	50	2874	17.63	17.69	17.65				
10	256QAM	50	2899	17.63	17.69					



Band 42 FCC Ant4 DSI2 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	17.46	17.65	17.58	18.7	0	
20	QPSK	1	49	17.37	17.62	17.50			
20	QPSK	1	99	17.37	17.60	17.52			
20	QPSK	50	0	17.62	17.61	17.51	18.7	0	
20	QPSK	50	24	17.40	17.58	17.55			
20	QPSK	50	50	17.39	17.56	17.51			
20	QPSK	100	0	17.49	17.55	17.46	18.7	0	
20	16QAM	1	0	17.37	17.64	17.49			
20	16QAM	1	49	17.39	17.39	17.54			
20	16QAM	1	99	17.37	17.57	17.50	18.7	0	
20	16QAM	50	0	17.45	17.59	17.56			
20	16QAM	50	24	17.44	17.58	17.57			
20	16QAM	50	50	17.44	17.60	17.48	18.7	0	
20	16QAM	100	0	17.40	17.58	17.51			
20	64QAM	1	0	17.43	17.61	17.56			
20	64QAM	1	49	17.44	17.56	17.56	18.7	0	
20	64QAM	1	99	17.44	17.62	17.50			
20	64QAM	50	0	17.41	17.64	17.51			
20	64QAM	50	24	17.38	17.64	17.54	18.7	0	
20	64QAM	50	50	17.37	17.60	17.54			
20	64QAM	100	0	17.38	17.61	17.57			
20	256QAM	1	0	17.44	17.56	17.57	18.7	0	
20	256QAM	1	49	17.40	17.55	17.56			
20	256QAM	1	99	17.45	17.56	17.49			
20	256QAM	50	0	17.44	17.63	17.49	18.7	0	
20	256QAM	50	24	17.39	17.61	17.50			
20	256QAM	50	50	17.37	17.64	17.58			
20	256QAM	100	0	17.45	17.60	17.55			
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	17.40	17.56	17.53	18.7	0	
15	QPSK	1	37	17.33	17.52	17.41			
15	QPSK	1	74	17.29	17.51	17.42			
15	QPSK	36	0	17.43	17.52	17.47	18.7	0	
15	QPSK	36	20	17.35	17.49	17.50			
15	QPSK	36	39	17.30	17.48	17.42			
15	QPSK	75	0	17.41	17.50	17.38	18.7	0	
15	16QAM	1	0	17.29	17.56	17.41			
15	16QAM	1	37	17.30	17.32	17.45			
15	16QAM	1	74	17.28	17.52	17.41	18.7	0	
15	16QAM	36	0	17.38	17.51	17.46			
15	16QAM	36	20	17.38	17.54	17.50			
15	16QAM	36	39	17.39	17.53	17.43	18.7	0	
15	16QAM	75	0	17.34	17.51	17.46			
15	64QAM	1	0	17.35	17.56	17.52			
15	64QAM	1	37	17.37	17.47	17.47	18.7	0	
15	64QAM	1	74	17.35	17.52	17.41			
15	64QAM	36	0	17.33	17.58	17.44			
15	64QAM	36	20	17.32	17.58	17.46	18.7	0	
15	64QAM	36	39	17.32	17.54	17.49			
15	64QAM	75	0	17.31	17.52	17.52			
15	256QAM	1	0	17.40	17.52	17.51	18.7	0	
15	256QAM	1	37	17.36	17.46	17.50			
15	256QAM	1	74	17.39	17.46	17.44			
15	256QAM	36	0	17.34	17.59	17.41	18.7	0	
15	256QAM	36	20	17.35	17.52	17.40			
15	256QAM	36	39	17.31	17.58	17.51			
15	256QAM	75	0	17.37	17.56	17.47			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	17.41	17.60	17.51	18.7	0	
10	QPSK	1	25	17.29	17.54	17.44			
10	QPSK	1	49	17.30	17.54	17.46			
10	QPSK	25	0	17.45	17.53	17.47	18.7	0	
10	QPSK	25	12	17.31	17.49	17.48			
10	QPSK	25	25	17.34	17.50	17.46			
10	QPSK	50	0	17.40	17.47	17.37	18.7	0	
10	16QAM	1	0	17.32	17.58	17.39			
10	16QAM	1	25	17.32	17.32	17.49			
10	16QAM	1	49	17.28	17.51	17.44	18.7	0	
10	16QAM	25	0	17.40	17.55	17.48			
10	16QAM	25	12	17.35	17.49	17.51			
10	16QAM	25	25	17.38	17.55	17.42	18.7	0	
10	16QAM	50	0	17.33	17.49	17.42			
10	64QAM	1	0	17.35	17.55	17.49			
10	64QAM	1	25	17.38	17.50	17.48	18.7	0	
10	64QAM	1	49	17.35	17.52	17.43			
10	64QAM	25	0	17.33	17.55	17.44			
10	64QAM	25	12	17.34	17.60	17.44	18.7	0	
10	64QAM	25	25	17.30	17.56	17.44			
10	64QAM	50	0	17.34	17.57	17.47			
10	256QAM	1	0	17.34	17.48	17.48	18.7	0	
10	256QAM	1	25	17.35	17.50	17.51			
10	256QAM	1	49	17.36	17.51	17.42			
10	256QAM	25	0	17.40	17.55	17.40	18.7	0	
10	256QAM	25	12	17.34	17.53	17.45			
10	256QAM	25	25	17.29	17.58	17.50			
10	256QAM	50	0	17.39	17.55	17.47			
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	17.38	17.56	17.52	18.7	0	
5	QPSK	1	12	17.29	17.56	17.42			
5	QPSK	1	24	17.31	17.51	17.48			
5	QPSK	12	0	17.45	17.51	17.47	18.7	0	
5	QPSK	12	7	17.33	17.50	17.45			
5	QPSK	12	13	17.29	17.51	17.42			
5	QPSK	25	0	17.40	17.48	17.40	18.7	0	
5	16QAM	1	0	17.30	17.58	17.42			
5	16QAM	1	12	17.31	17.33	17.45			
5	16QAM	1	24	17.28	17.49	17.42	18.7	0	
5	16QAM	12	0	17.41	17.50	17.50			
5	16QAM	12	7	17.37	17.52	17.50			
5	16QAM	12	13	17.35	17.51	17.43	18.7	0	
5	16QAM	25	0	17.32	17.49	17.44			
5	64QAM	1	0	17.33	17.52	17.50			
5	64QAM	1	12	17.35	17.52	17.50	18.7	0	
5	64QAM	1	24	17.38	17.53	17.42			
5	64QAM	12	0	17.36	17.57	17.46			
5	64QAM	12	7	17.31	17.54	17.45	18.7	0	
5	64QAM	12	13	17.32	17.56	17.45			
5	64QAM	25	0	17.33	17.56	17.47			
5	256QAM	1	0	17.37	17.51	17.51	18.7	0	
5	256QAM	1	12	17.30	17.47	17.48			
5	256QAM	1	24	17.39	17.50	17.39			
5	256QAM	12	0	17.40	17.59	17.43	18.7	0	
5	256QAM	12	7	17.30	17.56	17.44			
5	256QAM	12	13	17.32	17.55	17.51			
5	256QAM	25	0	17.37	17.51	17.50			



GSM850	Ant1 DS13 Simultaneous			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	Burst Average Power (dBm)				128	189	251	
TX Channel	824.2	838.4	848.8	33.50	824.2	838.4	848.8	33.50
Frequency (MHz)	32.26	32.51	32.48	33.50	23.26	23.51	23.48	24.50
GSM 1 Tx slot	32.26	32.51	32.48	33.50	23.26	23.51	23.48	24.50
GPRS 1 Tx slot	29.40	29.61	29.51	30.70	23.40	23.61	23.51	24.70
GPRS 2 Tx slot	29.40	29.61	29.51	30.70	23.40	23.61	23.51	24.70
GPRS 3 Tx slot	27.61	27.77	27.46	28.90	23.35	23.51	23.20	24.64
GPRS 4 Tx slots	27.01	27.10	27.02	27.70	24.01	24.10	24.02	24.70
EDGE 1 Tx slot	24.51	24.56	24.78	25.00	15.51	15.56	15.78	16.00
EDGE 2 Tx slots	22.63	22.59	22.90	23.00	16.63	16.59	16.90	17.00
EDGE 3 Tx slots	21.18	21.06	21.39	21.50	16.92	16.80	17.13	17.24
EDGE 4 Tx slots	19.65	19.71	19.85	20.00	16.85	16.71	16.85	17.00

GSM1900	Ant1 DS13 Simultaneous			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	Burst Average Power (dBm)				512	661	810	
TX Channel	1850.2	1880	1909.8	23.20	1850.2	1880	1909.8	23.20
Frequency (MHz)	22.70	22.80	22.89	23.20	13.70	13.89	13.89	14.20
GSM 1 Tx slot	22.70	22.80	22.89	23.20	13.70	13.89	13.89	14.20
GPRS 1 Tx slot	22.75	23.06	23.02	23.20	13.75	14.06	14.02	14.20
GPRS 2 Tx slots	18.74	18.89	18.81	20.20	12.74	12.89	12.81	14.20
GPRS 3 Tx slots	18.06	17.93	18.19	18.40	13.80	13.64	13.33	14.14
GPRS 4 Tx slots	17.02	17.05	17.02	17.20	14.02	14.05	14.02	14.20
EDGE 1 Tx slot	21.95	22.21	22.28	23.20	12.95	13.21	13.28	14.20
EDGE 2 Tx slots	19.41	19.79	19.54	20.20	13.41	13.79	13.54	14.20
EDGE 3 Tx slots	17.69	17.94	17.67	18.40	13.43	13.68	13.41	14.14
EDGE 4 Tx slots	16.85	16.79	16.94	17.20	13.85	13.79	13.94	14.20

Band	Ant1 DS13 Simultaneous				Ant1 DS13 Simultaneous			Ant1 DS13 Simultaneous			Tune-up Limit (dBm)		
	WCDMA V				WCDMA V			WCDMA V					
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	13.12	13.21	13.12	14.00	14.27	14.31	14.42	15.20	21.77	21.72	21.74	22.40
3GPP Rel 99	RMC 12.2Kbps	13.21	13.29	13.25	14.00	14.38	14.49	14.45	15.20	21.81	21.89	21.85	22.40
3GPP Rel 6	HSDPA Subtest-1	12.18	12.25	12.26	13.00	13.46	13.51	13.25	14.20	20.87	20.86	20.89	21.40
3GPP Rel 6	HSDPA Subtest-2	12.12	12.28	12.25	13.00	13.34	13.57	13.54	14.20	20.76	20.88	20.94	21.40
3GPP Rel 6	HSDPA Subtest-3	11.63	11.80	11.84	12.50	12.84	12.94	13.02	13.70	20.31	20.49	20.31	20.90
3GPP Rel 6	HSDPA Subtest-4	11.62	11.71	11.74	12.50	12.96	12.98	13.00	13.70	20.41	20.36	20.35	20.90
3GPP Rel 8	DC-HSDPA Subtest-1	12.30	12.31	12.19	13.00	13.44	13.47	13.42	14.20	20.76	20.80	20.85	21.40
3GPP Rel 8	DC-HSDPA Subtest-2	12.14	12.38	12.27	13.00	13.39	13.56	13.43	14.20	20.80	20.86	20.77	21.40
3GPP Rel 8	DC-HSDPA Subtest-3	11.77	11.70	11.77	12.50	12.80	13.04	12.93	13.70	20.29	20.41	20.36	20.90
3GPP Rel 8	DC-HSDPA Subtest-4	11.62	11.71	11.65	12.50	12.82	13.01	12.85	13.70	20.24	20.30	20.36	20.90
3GPP Rel 6	HSUPA Subtest-1	10.21	10.32	10.20	11.00	11.39	11.41	11.37	12.20	18.81	18.81	18.81	19.40
3GPP Rel 6	HSUPA Subtest-2	10.25	10.37	10.24	11.00	11.31	11.33	11.32	12.20	18.74	18.82	18.86	19.40
3GPP Rel 6	HSUPA Subtest-3	11.19	11.25	11.17	12.00	12.32	12.50	12.38	13.20	19.84	19.82	19.80	20.40
3GPP Rel 6	HSUPA Subtest-4	10.21	10.34	10.16	11.00	11.47	11.47	11.50	12.20	18.71	18.93	18.92	19.40
3GPP Rel 6	HSUPA Subtest-5	12.25	12.33	12.31	13.00	13.38	13.44	13.52	14.20	20.81	20.92	20.79	21.40

Band	Ant2 DS13 Simultaneous				Tune-up Limit (dBm)
	WCDMA V				
TX Channel	4132	4182	4233		
Rx Channel	4357	4407	4458		
Frequency (MHz)	826.4	836.4	846.6		23.50
3GPP Rel 99	AMR 12.2Kbps	22.39	22.37	22.37	23.50
3GPP Rel 99	RMC 12.2Kbps	22.39	22.49	22.41	23.50
3GPP Rel 6	HSDPA Subtest-1	21.46	21.51	21.39	22.50
3GPP Rel 6	HSDPA Subtest-2	21.49	21.48	21.37	22.50
3GPP Rel 6	HSDPA Subtest-3	20.87	21.03	20.97	22.00
3GPP Rel 6	HSDPA Subtest-4	20.89	21.01	20.98	22.00
3GPP Rel 8	DC-HSDPA Subtest-1	21.30	21.42	21.39	22.50
3GPP Rel 8	DC-HSDPA Subtest-2	21.33	21.42	21.42	22.50
3GPP Rel 8	DC-HSDPA Subtest-3	20.83	21.08	20.98	22.00
3GPP Rel 8	DC-HSDPA Subtest-4	20.95	20.96	20.83	22.00
3GPP Rel 6	HSUPA Subtest-1	21.46	21.47	21.44	22.50
3GPP Rel 6	HSUPA Subtest-2	19.34	19.48	19.51	20.50
3GPP Rel 6	HSUPA Subtest-3	20.32	20.54	20.43	21.50
3GPP Rel 6	HSUPA Subtest-4	19.42	19.47	19.48	20.50
3GPP Rel 6	HSUPA Subtest-5	21.37	21.54	21.35	22.50



Band 2 Ant1 DS13 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Peak Ch./Freq.	Turn-up time (sec)	APR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	13.15	13.20	13.11				
20	QPSK	1	49	13.10	13.14	13.05		14.2	0	
20	QPSK	1	99	13.10	13.14	13.05				
20	QPSK	50	0	13.05	13.05	13.01				
20	QPSK	50	24	13.02	13.07	13.00		14.2	0	
20	QPSK	50	50	13.03	13.04	12.98				
20	QPSK	100	0	13.02	13.02	12.96				
20	16QAM	100	0	13.08	13.13	13.00				
20	16QAM	1	49	13.09	13.11	13.04		14.2	0	
20	16QAM	1	99	13.04	13.10	13.01				
20	16QAM	50	0	13.02	13.02	12.90				
20	16QAM	50	24	13.00	13.04	12.99		14.2	0	
20	16QAM	50	50	12.98	13.01	12.95				
20	16QAM	100	0	12.96	12.96	12.82				
20	16QAM	100	0	13.14	13.19	13.05				
20	84QAM	1	49	13.06	13.12	13.02		14.2	0	
20	84QAM	1	99	13.04	13.06	12.91				
20	84QAM	50	0	13.00	13.00	12.99				
20	84QAM	50	24	12.98	13.00	12.95		14.2	0	
20	84QAM	50	50	13.00	13.00	12.94				
20	84QAM	100	0	12.99	13.00	12.94				
20	84QAM	100	0	13.06	13.11	13.04				
20	256QAM	1	49	13.08	13.13	13.04		14.2	0	
20	256QAM	1	99	13.05	13.08	13.01				
20	256QAM	50	0	12.97	12.97	12.92				
20	256QAM	50	24	12.97	13.02	12.92		14.2	0	
20	256QAM	50	50	13.01	13.00	12.96				
20	256QAM	100	0	13.00	13.00	12.90				
Channel										
Frequency (MHz)										
15	QPSK	1	0	13.13	13.18	13.09				
15	QPSK	1	37	13.11	13.16	13.02		14.2	0	
15	QPSK	1	74	13.07	13.13	13.02				
15	QPSK	36	0	13.02	13.05	12.96				
15	QPSK	36	25	12.97	13.00	12.93		14.2	0	
15	QPSK	36	39	12.97	13.01	12.95				
15	16QAM	75	0	13.04	13.07	13.03				
15	16QAM	1	37	13.08	13.00	12.98		14.2	0	
15	16QAM	1	74	13.01	13.06	12.91				
15	16QAM	36	0	12.96	13.01	12.97				
15	16QAM	36	25	12.95	13.01	12.83		14.2	0	
15	16QAM	36	39	12.96	13.00	12.95				
15	16QAM	75	0	12.93	13.00	12.86				
15	84QAM	1	0	13.10	13.10	13.03				
15	84QAM	1	37	13.04	13.06	12.91		14.2	0	
15	84QAM	1	74	12.97	13.02	13.01				
15	84QAM	36	0	12.97	13.01	12.96				
15	84QAM	36	25	12.96	12.98	12.91		14.2	0	
15	84QAM	36	39	12.96	13.04	12.87				
15	84QAM	75	0	12.97	12.99	12.87				
15	256QAM	1	37	13.06	13.07	13.00				
15	256QAM	1	74	12.99	13.02	12.97		14.2	0	
15	256QAM	36	0	12.94	12.96	12.86				
15	256QAM	36	25	12.96	12.99	12.82		14.2	0	
15	256QAM	36	39	12.98	12.94	12.83				
15	256QAM	75	0	12.94	12.96	12.88				
Channel										
Frequency (MHz)										
10	QPSK	1	0	13.07	13.10	13.04				
10	QPSK	1	25	13.06	13.10	13.04		14.2	0	
10	QPSK	1	49	13.06	13.08	12.99				
10	QPSK	12	0	13.01	13.01	12.95				
10	QPSK	12	25	12.99	13.03	12.90		14.2	0	
10	QPSK	25	0	12.99	12.99	12.93				
10	QPSK	25	25	12.99	12.99	12.93				
10	16QAM	75	0	13.01	13.08	13.03				
10	16QAM	1	24	13.07	13.08	12.98		14.2	0	
10	16QAM	1	49	13.07	13.06	12.96				
10	16QAM	25	0	12.97	12.97	12.97				
10	16QAM	25	12	12.98	12.97	12.85		14.2	0	
10	16QAM	36	0	12.96	12.96	12.89				
10	16QAM	36	12	12.97	13.00	12.91				
10	84QAM	1	0	13.13	13.14	13.02				
10	84QAM	1	37	13.01	13.02	12.98		14.2	0	
10	84QAM	1	49	13.02	13.03	12.99				
10	84QAM	25	0	12.97	13.01	12.96				
10	84QAM	25	12	12.95	12.96	12.89		14.2	0	
10	84QAM	25	25	12.96	12.95	12.87				
10	84QAM	50	0	12.97	13.00	12.91				
10	84QAM	50	0	13.13	13.14	13.02				
10	84QAM	1	49	13.02	13.03	12.98		14.2	0	
10	84QAM	25	0	12.97	13.01	12.96				
10	84QAM	25	12	12.95	12.96	12.89		14.2	0	
10	84QAM	25	25	12.96	12.95	12.87				
10	84QAM	50	0	12.97	13.00	12.91				
10	84QAM	50	0	13.08	13.09	12.99				
10	256QAM	1	49	13.05	13.08	12.97		14.2	0	
10	256QAM	1	99	13.04	13.03	12.97				
10	256QAM	36	0	12.93	12.98	12.90				
10	256QAM	36	12	12.93	12.98	12.90		14.2	0	
10	256QAM	36	25	12.97	12.99	12.91				
10	256QAM	50	0	12.98	12.98	12.88				
Channel										
Frequency (MHz)										
5	QPSK	1	0	13.00	13.01	13.00				
5	QPSK	1	12	13.10	13.12	13.00		14.2	0	
5	QPSK	1	24	13.06	13.10	13.02				
5	QPSK	12	0	13.01	13.01	12.95				
5	QPSK	12	7	12.99	13.01	12.89		14.2	0	
5	QPSK	12	13	13.02	13.02	12.95				
5	16QAM	25	0	13.00	13.00	12.90				
5	16QAM	1	0	13.07	13.07	13.04				
5	16QAM	1	12	13.02	13.00	13.00		14.2	0	
5	16QAM	1	24	13.00	13.00	12.96				
5	16QAM	12	0	12.96	13.00	12.96				
5	16QAM	12	7	12.96	12.99	12.84		14.2	0	
5	16QAM	12	13	12.94	12.99	12.89				
5	84QAM	1	0	13.12	13.12	13.00				
5	84QAM	1	12	13.00	13.01	12.96		14.2	0	
5	84QAM	1	24	12.97	13.00	12.99				
5	84QAM	12	0	12.93	13.04	12.96				
5	84QAM	12	7	12.96	12.96	12.89		14.2	0	
5	84QAM	12	13	13.00	12.92	12.91				
5	84QAM	25	0	12.96	12.97	12.91				
5	84QAM	25	0	13.08	13.09	13.04				
5	84QAM	25	12	12.94	13.00	12.89		14.2	0	
5	84QAM	25	13	12.97	12.96	12.89				
5	84QAM	50	0	12.99	12.99	12.84				
Channel										
Frequency (MHz)										
3	QPSK	1	0	13.13	13.10	13.00				
3	QPSK	1	8	13.06	13.12	13.06		14.2	0	
3	QPSK	1	14	13.05	13.12	13.02				
3	QPSK	8	0	13.01	13.00	12.90				
3	QPSK	8	4	12.95	13.03	12.94		14.2	0	
3	QPSK	8	7	12.98	12.98	12.85				
3	QPSK	15	0	12.96	13.04	12.95				
3	16QAM	1	0	13.02	13.00	13.00				
3	16QAM	1	8	13.08	13.10	13.01		14.2	0	
3	16QAM	1	14	13.09	13.00	12.98				
3	16QAM	8	0	13.00	12.99	12.98				
3	16QAM	8	4	12.94	13.02	12.85		14.2	0	
3	16QAM	8	7	12.92	12.99	12.87				
3	16QAM	15	0	12.97	13.00	12.88				
3	84QAM	1	0	1						



Band 5 Ant1 DS13 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power Hsp. Ch. / Freq.	Power Freq. Ch. / Freq.	Turn-up (dB)	MPE (dB)		
Channel										
10	QPSK	1	0	22.56	22.62	22.49				
10	QPSK	1	25	22.48	22.41	22.25				
10	QPSK	1	49	22.52	22.58	22.44			23.7	0
10	QPSK	25	0	21.97	21.92	21.87				
10	QPSK	25	12	21.90	21.95	21.83				
10	QPSK	25	25	21.91	21.87	21.82			23	0.7
10	QPSK	50	0	21.88	21.85	21.77				
10	QPSK	50	12	21.82	21.87	21.87				
10	QPSK	50	25	21.85	21.89	21.85			23	0.7
10	16QAM	1	49	21.89	21.85	21.87				
10	16QAM	1	25	21.82	21.87	21.87				
10	16QAM	25	12	21.82	21.89	21.87			22	1.7
10	16QAM	25	25	21.82	21.87	21.87				
10	16QAM	50	0	21.80	21.87	21.87				
10	16QAM	50	12	21.80	21.87	21.87				
10	16QAM	50	25	21.80	21.87	21.87			22	1.5
10	16QAM	100	0	21.79	21.87	21.87				
10	16QAM	100	12	21.79	21.87	21.87				
10	16QAM	100	25	21.79	21.87	21.87			22	1.5
10	64QAM	1	49	21.82	21.87	21.87				
10	64QAM	1	25	21.82	21.87	21.87				
10	64QAM	25	12	21.82	21.87	21.87			22	1.5
10	64QAM	25	25	21.82	21.87	21.87				
10	64QAM	50	0	21.82	21.87	21.87				
10	64QAM	50	12	21.82	21.87	21.87				
10	64QAM	50	25	21.82	21.87	21.87			21	2.7
10	64QAM	100	0	21.82	21.87	21.87				
10	64QAM	100	12	21.82	21.87	21.87				
10	64QAM	100	25	21.82	21.87	21.87			19	4.7
10	256QAM	1	49	17.86	17.82	18.02				
10	256QAM	1	25	17.83	17.82	18.02				
10	256QAM	25	12	17.89	17.86	18.05			19	4.7
10	256QAM	25	25	17.89	17.86	18.04				
10	256QAM	50	0	17.83	17.82	17.99				
Channel										
10	QPSK	1	0	22.48	22.56	22.41				
10	QPSK	1	25	22.40	22.44	22.24			23.7	0
10	QPSK	1	49	22.44	22.51	22.37				
10	QPSK	12	0	21.93	21.96	21.80				
10	QPSK	12	12	21.86	21.91	21.84				
10	QPSK	12	13	21.83	21.93	21.73			23	0.7
10	QPSK	25	0	21.79	21.90	21.81				
10	QPSK	25	12	21.81	21.88	21.83				
10	16QAM	1	12	21.77	21.91	21.78			23	0.7
10	16QAM	1	25	21.75	21.92	21.75				
10	16QAM	12	7	20.27	20.39	20.18			22	1.7
10	16QAM	12	13	20.24	20.29	20.17				
10	16QAM	25	0	20.20	20.32	20.11				
10	16QAM	25	12	20.23	20.31	20.14			22	1.7
10	16QAM	25	25	20.23	20.31	20.14				
10	16QAM	50	0	19.32	19.33	19.26				
10	16QAM	50	12	19.32	19.33	19.14			21	2.7
10	16QAM	50	25	19.32	19.33	19.17				
10	16QAM	100	0	19.22	19.34	19.11				
10	16QAM	100	12	19.24	19.29	19.17				
10	16QAM	100	25	19.24	19.29	19.17			19	4.7
10	256QAM	1	12	17.92	17.97	17.97				
10	256QAM	1	24	17.88	17.88	17.98				
10	256QAM	12	7	17.91	17.92	17.98				
10	256QAM	12	13	17.91	17.92	17.99			19	4.7
10	256QAM	25	0	17.77	17.82	17.96				
Channel										
3	QPSK	1	0	22.01	22.06	22.03				
3	QPSK	1	25	22.00	22.00	21.84			23.7	0
3	QPSK	1	49	22.04	22.09	21.98				
3	QPSK	12	0	21.69	21.76	21.58				
3	QPSK	12	12	21.61	21.71	21.64				
3	QPSK	12	13	21.68	21.82	21.56			23	0.5
3	QPSK	25	0	21.70	21.79	21.61				
3	QPSK	25	12	21.66	21.84	21.61				
3	16QAM	1	12	21.60	21.87	21.49			23	0.5
3	16QAM	1	24	21.59	21.76	21.61				
3	16QAM	12	7	20.16	20.24	20.12			22	1.5
3	16QAM	12	13	20.13	20.13	20.07				
3	16QAM	25	0	20.14	20.21	20.10				
3	16QAM	25	12	20.15	20.23	20.03			22	1.5
3	16QAM	25	25	20.14	20.20	20.03				
3	16QAM	50	0	19.18	19.25	19.10				
3	16QAM	50	12	19.18	19.25	19.10			21	2.5
3	16QAM	50	25	19.18	19.25	19.10				
3	16QAM	100	0	19.14	19.22	19.09				
3	16QAM	100	12	19.16	19.22	19.08				
3	16QAM	100	25	19.14	19.22	19.08			19	4.5
3	256QAM	1	12	17.34	17.33	17.32				
3	256QAM	1	24	17.38	17.37	17.33				
3	256QAM	12	7	17.33	17.32	17.27				
3	256QAM	12	13	17.33	17.37	17.31			19	4.5
3	256QAM	25	0	17.28	17.48	17.28				
Channel										
3	QPSK	1	0	22.10	22.16	22.08				
3	QPSK	1	25	22.05	22.10	21.93			23.5	0
3	QPSK	1	49	22.00	22.09	21.98				
3	QPSK	12	0	21.69	21.76	21.58				
3	QPSK	12	12	21.61	21.71	21.64				
3	QPSK	12	13	21.68	21.82	21.56			23	0.5
3	QPSK	25	0	21.70	21.79	21.61				
3	QPSK	25	12	21.66	21.84	21.61				
3	16QAM	1	12	21.60	21.87	21.49			23	0.5
3	16QAM	1	24	21.59	21.76	21.61				
3	16QAM	12	7	20.16	20.24	20.12			22	1.5
3	16QAM	12	13	20.13	20.13	20.07				
3	16QAM	25	0	20.14	20.20	20.08				
3	16QAM	25	12	20.15	20.23	20.03			22	1.5
3	16QAM	25	25	20.14	20.20	20.08				
3	16QAM	50	0	19.13	19.25	19.09				
3	16QAM	50	12	19.16	19.22	19.03			21	2.5
3	16QAM	50	25	19.14	19.22	19.13				
3	16QAM	100	0	19.09	19.17	19.12				
3	16QAM	100	12	19.12	19.22	19.03				
3	16QAM	100	25	19.10	19.22	19.03			19	4.5
3	256QAM	1	12	17.37	17.36	17.32				
3	256QAM	1	24	17.37	17.36	17.32				
3	256QAM	12	7	17.37	17.36	17.32				
3	256QAM	12	13	17.37	17.36	17.32			19	4.5
3	256QAM	25	0	17.36	17.34	17.32				
3	256QAM	25	12	17.36	17.42	17.28				
3	256QAM	25	25	17.36	17.37	17.33			19	4.5
3	256QAM	50	0	17.28	17.44	17.28				

Band 5 Ant2 DS13 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power Hsp. Ch. / Freq.	Power Freq. Ch. / Freq.	Turn-up (dB)	MPE (dB)		
Channel										
10	QPSK	1	0	22.14	22.21	22.10				
10	QPSK	1	25	22.04	22.08	22.03			23.5	0
10	QPSK	1	49	22.10	22.16	22.04				
10	QPSK	25	0	21.76	21.83	21.65				
10	QPSK	25	12	21.70	21.72	21.67				
10	QPSK	25	25	21.73	21.71	21.61			23	0.5
10	QPSK	50	0	21.73	21.79	21.65				
10	QPSK	50	12	21.63	21.79	21.67				
10	16QAM	1	25	21.83	21.84	21.52			23	0.5
10	16QAM	1	49	21.86	21.87	21.49				



Band 26 Ant1 DS13 Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Time-up (min)	MPR (dB)
Channel				Ch. 1/Freq.	Ch. 2/Freq.	Ch. 3/Freq.		
15	QPSK	1	0	22.26	22.27	22.25	23.7	0
15	QPSK	1	37	22.94	22.95	22.93		
15	QPSK	1	74	22.50	22.48	22.32		
15	QPSK	36	0	21.86	21.69	21.52		
15	QPSK	36	20	21.59	21.51	21.58		
15	QPSK	36	39	21.59	21.61	21.59		
15	QPSK	75	0	21.58	21.65	21.59		
15	QPSK	75	20	21.57	21.67	21.58		
15	QPSK	1	37	21.55	21.81	21.76	23	0.7
15	QPSK	1	74	21.89	21.76	21.89		
15	QPSK	36	0	20.84	20.85	20.81		
15	QPSK	36	20	20.80	20.87	20.88		
15	QPSK	36	39	20.76	20.86	20.89		
15	QPSK	75	0	20.76	20.85	20.85		
15	QPSK	75	20	20.82	20.72	20.70		
15	QPSK	1	37	20.83	20.70	20.89		
15	QPSK	36	0	19.84	19.82	19.83		
15	QPSK	36	20	19.80	19.81	19.89		
15	QPSK	36	39	19.75	19.86	19.86		
15	QPSK	75	0	19.81	19.87	19.82		
15	QPSK	75	20	19.77	19.79	19.87		
15	QPSK	1	37	17.84	17.83	17.81	19	4.7
15	QPSK	1	74	17.84	17.80	17.86		
15	QPSK	36	0	17.80	17.82	17.80		
15	QPSK	36	20	17.74	17.80	17.72		
15	QPSK	36	39	17.71	17.73	17.64		
15	QPSK	75	0	17.82	17.81	17.80		
15	QPSK	75	20	17.80	17.82	17.80		

BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Time-up (min)	MPR (dB)
Channel				Ch. 1/Freq.	Ch. 2/Freq.	Ch. 3/Freq.		
15	QPSK	1	0	22.33	22.40	22.21	23.5	0
15	QPSK	1	37	22.30	22.32	22.39		
15	QPSK	1	74	22.25	22.32	22.21		
15	QPSK	36	0	21.91	21.92	21.83		
15	QPSK	36	20	21.93	21.94	21.97		
15	QPSK	36	39	21.90	21.91	21.79		
15	QPSK	75	0	21.93	21.90	21.79		
15	QPSK	75	20	21.81	21.88	21.83		
15	QPSK	1	37	21.83	21.80	21.70	23	0.5
15	QPSK	1	74	21.82	21.82	21.84		
15	QPSK	36	0	20.38	20.38	20.33		
15	QPSK	36	20	20.35	20.39	20.29		
15	QPSK	36	39	20.34	20.39	20.34		
15	QPSK	75	0	20.38	20.43	20.32		
15	QPSK	75	20	20.39	20.27	20.24		
15	QPSK	1	37	20.38	20.36	20.28		
15	QPSK	36	0	19.39	19.49	19.32		
15	QPSK	36	20	19.48	19.43	19.39		
15	QPSK	36	39	19.35	19.34	19.34		
15	QPSK	75	0	19.38	19.47	19.35		
15	QPSK	75	20	19.34	19.34	19.34		
15	QPSK	1	37	17.50	17.52	17.54	19	4.5
15	QPSK	1	74	17.50	17.52	17.52		
15	QPSK	36	0	17.52	17.51	17.52		
15	QPSK	36	20	17.62	17.59	17.55		
15	QPSK	36	39	17.53	17.59	17.55		
15	QPSK	75	0	17.53	17.59	17.55		

BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Time-up (min)	MPR (dB)
Channel				Ch. 1/Freq.	Ch. 2/Freq.	Ch. 3/Freq.		
15	QPSK	1	0	22.33	22.40	22.21	23.5	0
15	QPSK	1	37	22.30	22.32	22.39		
15	QPSK	1	74	22.25	22.32	22.21		
15	QPSK	36	0	21.91	21.92	21.83		
15	QPSK	36	20	21.93	21.94	21.97		
15	QPSK	36	39	21.90	21.91	21.79		
15	QPSK	75	0	21.93	21.90	21.79		
15	QPSK	75	20	21.81	21.88	21.83		
15	QPSK	1	37	21.83	21.80	21.70	23	0.5
15	QPSK	1	74	21.82	21.82	21.84		
15	QPSK	36	0	20.38	20.38	20.33		
15	QPSK	36	20	20.35	20.39	20.29		
15	QPSK	36	39	20.34	20.39	20.34		
15	QPSK	75	0	20.38	20.43	20.32		
15	QPSK	75	20	20.39	20.27	20.24		
15	QPSK	1	37	20.38	20.36	20.28		
15	QPSK	36	0	19.39	19.49	19.32		
15	QPSK	36	20	19.48	19.43	19.39		
15	QPSK	36	39	19.35	19.34	19.34		
15	QPSK	75	0	19.38	19.47	19.35		
15	QPSK	75	20	19.34	19.34	19.34		
15	QPSK	1	37	17.50	17.52	17.54	19	4.5
15	QPSK	1	74	17.50	17.52	17.52		
15	QPSK	36	0	17.52	17.51	17.52		
15	QPSK	36	20	17.62	17.59	17.55		
15	QPSK	36	39	17.53	17.59	17.55		
15	QPSK	75	0	17.53	17.59	17.55		

Band 26 Ant2 DS13 Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Time-up (min)	MPR (dB)
Channel				Ch. 1/Freq.	Ch. 2/Freq.	Ch. 3/Freq.		
15	QPSK	1	0	22.33	22.40	22.21	23.5	0
15	QPSK	1	37	22.30	22.32	22.39		
15	QPSK	1	74	22.25	22.32	22.21		
15	QPSK	36	0	21.91	21.92	21.83		
15	QPSK	36	20	21.93	21.94	21.97		
15	QPSK	36	39	21.90	21.91	21.79		
15	QPSK	75	0	21.93	21.90	21.79		
15	QPSK	75	20	21.81	21.88	21.83		
15	QPSK	1	37	21.83	21.80	21.70	23	0.5
15	QPSK	1	74	21.82	21.82	21.84		
15	QPSK	36	0	20.38	20.38	20.33		
15	QPSK	36	20	20.35	20.39	20.29		
15	QPSK	36	39	20.34	20.39	20.34		
15	QPSK	75	0	20.38	20.43	20.32		
15	QPSK	75	20	20.39	20.27	20.24		
15	QPSK	1	37	20.38	20.36	20.28		
15	QPSK	36	0	19.39	19.49	19.32		
15	QPSK	36	20	19.48	19.43	19.39		
15	QPSK	36	39	19.35	19.34	19.34		
15	QPSK	75	0	19.38	19.47	19.35		
15	QPSK	75	20	19.34	19.34	19.34		
15	QPSK	1	37	17.50	17.52	17.54	19	4.5
15	QPSK	1	74	17.50	17.52	17.52		
15	QPSK	36	0	17.52	17.51	17.52		
15	QPSK	36	20	17.62	17.59	17.55		
15	QPSK	36	39	17.53	17.59	17.55		
15	QPSK	75	0	17.53	17.59	17.55		

BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Time-up (min)	MPR (dB)
Channel				Ch. 1/Freq.	Ch. 2/Freq.	Ch. 3/Freq.		
15	QPSK	1	0	22.33	22.40	22.21	23.5	0
15	QPSK	1	37	22.30	22.32	22.39		
15	QPSK	1	74	22.25	22.32	22.21		
15	QPSK	36	0	21.91	21.92	21.83		
15	QPSK	36	20	21.93	21.94	21.97		
15	QPSK	36	39	21.90	21.91	21.79		
15	QPSK	75	0	21.93	21.90	21.79		
15	QPSK	75	20	21.81	21.88	21.83		
15	QPSK	1	37	21.83	21.80	21.70	23	0.5
15	QPSK	1	74	21.82	21.82	21.84		
15	QPSK	36	0	20.38	20.38	20.33		
15	QPSK	36	20	20.35	20.39	20.29		
15	QPSK	36	39	20.34	20.39	20.34		
15	QPSK	75	0	20.38	20.43	20.32		
15	QPSK	75	20	20.39	20.27	20.24		
15	QPSK	1	37	20.38	20.36	20.28		
15	QPSK	36	0	19.39	19.49	19.32		
15	QPSK	36	20	19.48	19.43	19.39		
15	QPSK	36	39	19.35	19.34	19.34		
15	QPSK	75	0	19.38	19.47	19.35		
15	QPSK	75	20	19.34	19.34	19.34		
15	QPSK	1	37	17.50	17.52	17.54	19	4.5
15	QPSK	1	74	17.50	17.52	17.52		
15	QPSK	36	0	17.52	17.51	17.52		
15	QPSK	36	20	17.62	17.59	17.55		
15	QPSK	36	39	17.53</				



Band 38 - Ant1 PC3 DS13 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	17.60	17.61	17.62			
20	QPSK	1	49	17.62	17.63	17.64	19.6	0	
20	QPSK	1	99	17.66	17.64	17.63			
20	QPSK	50	0	17.55	17.59	17.45			
20	QPSK	50	24	17.51	17.57	17.45	19.6	0	
20	QPSK	50	50	17.52	17.54	17.42			
20	QPSK	100	0	17.42	17.51	17.46			
20	16QAM	1	0	17.53	17.57	17.47			
20	16QAM	1	49	17.45	17.45	17.41	19.6	0	
20	16QAM	1	99	17.47	17.49	17.37			
20	16QAM	50	0	17.49	17.49	17.39			
20	16QAM	50	24	17.53	17.49	17.40	19.6	0	
20	16QAM	50	50	17.45	17.45	17.35			
20	16QAM	100	0	17.32	17.42	17.41			
20	64QAM	1	0	17.53	17.54	17.45	19.6	0	
20	64QAM	1	49	17.45	17.47	17.38			
20	64QAM	1	99	17.49	17.46	17.35			
20	64QAM	50	0	17.47	17.54	17.37			
20	64QAM	50	24	17.45	17.51	17.41	19.6	0	
20	64QAM	50	50	17.45	17.45	17.35			
20	64QAM	100	0	17.34	17.47	17.37			
20	256QAM	1	0	17.43	17.43	17.32			
20	256QAM	1	49	17.40	17.47	17.43	19	0.6	
20	256QAM	1	99	17.49	17.49	17.36			
20	256QAM	50	0	17.48	17.48	17.36			
20	256QAM	50	24	17.44	17.48	17.41	19	0.6	
20	256QAM	50	50	17.46	17.44	17.35			
20	256QAM	100	0	17.37	17.43	17.41			
Channel									
				2577.5	2595	2612.5			
Frequency (MHz)				1915	1915	1915			
15	QPSK	1	0	17.55	17.56	17.48			
15	QPSK	1	49	17.47	17.43	17.43	19.6	0	
15	QPSK	1	74	17.51	17.49	17.30			
15	QPSK	36	0	17.50	17.51	17.38			
15	QPSK	36	20	17.44	17.45	17.39	19.6	0	
15	QPSK	36	39	17.45	17.47	17.38			
15	QPSK	75	0	17.36	17.42	17.40			
15	16QAM	1	0	17.47	17.50	17.43	19.6	0	
15	16QAM	1	37	17.34	17.39	17.29			
15	16QAM	1	74	17.40	17.44	17.33			
15	16QAM	36	0	17.41	17.40	17.24	19.6	0	
15	16QAM	36	20	17.53	17.42	17.29			
15	16QAM	36	39	17.38	17.42	17.29			
15	16QAM	75	0	17.28	17.35	17.32			
15	64QAM	1	0	17.46	17.46	17.41	19.6	0	
15	64QAM	1	37	17.35	17.41	17.28			
15	64QAM	1	74	17.42	17.40	17.25			
15	64QAM	36	0	17.28	17.42	17.31	19.6	0	
15	64QAM	36	20	17.39	17.44	17.31			
15	64QAM	36	39	17.40	17.36	17.28			
15	64QAM	75	0	17.27	17.38	17.31			
15	256QAM	1	0	17.47	17.39	17.29	19	0.6	
15	256QAM	1	37	17.41	17.40	17.30			
15	256QAM	1	74	17.43	17.42	17.28			
15	256QAM	36	0	17.30	17.30	17.20	19	0.6	
15	256QAM	36	20	17.35	17.42	17.36			
15	256QAM	36	39	17.42	17.36	17.26			
15	256QAM	75	0	17.23	17.32	17.22			
Channel									
				37600	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	17.50	17.56	17.44			
10	QPSK	1	49	17.46	17.46	17.41	19.6	0	
10	QPSK	1	49	17.48	17.49	17.37			
10	QPSK	25	0	17.46	17.55	17.37			
10	QPSK	25	25	17.45	17.45	17.40	19.6	0	
10	QPSK	25	25	17.44	17.46	17.38			
10	QPSK	50	0	17.32	17.43	17.40			
10	16QAM	1	0	17.44	17.40	17.36	19.6	0	
10	16QAM	1	25	17.54	17.41	17.32			
10	16QAM	1	49	17.42	17.41	17.31			
10	16QAM	25	0	17.44	17.40	17.32	19.6	0	
10	16QAM	25	25	17.38	17.43	17.35			
10	16QAM	25	25	17.37	17.37	17.30			
10	16QAM	50	0	17.28	17.34	17.34			
10	64QAM	1	0	17.47	17.40	17.41	19.6	0	
10	64QAM	1	25	17.41	17.40	17.29			
10	64QAM	1	49	17.44	17.40	17.31			
10	64QAM	25	0	17.37	17.45	17.32	19.6	0	
10	64QAM	25	12	17.36	17.45	17.36			
10	64QAM	25	25	17.40	17.38	17.31			
10	64QAM	50	0	17.30	17.38	17.30			
10	256QAM	1	0	17.44	17.49	17.26	19	0.6	
10	256QAM	1	25	17.41	17.39	17.38			
10	256QAM	1	49	17.45	17.44	17.27			
10	256QAM	25	0	17.36	17.47	17.28	19	0.6	
10	256QAM	25	12	17.37	17.42	17.35			
10	256QAM	25	25	17.36	17.36	17.29			
10	256QAM	50	0	17.29	17.35	17.33			
Channel									
				2572.5	2595	2617.5			
Frequency (MHz)				1915	1915	1915			
5	QPSK	1	0	17.51	17.57	17.48			
5	QPSK	1	24	17.45	17.46	17.29	19.6	0	
5	QPSK	1	24	17.49	17.47	17.38			
5	QPSK	12	0	17.47	17.51	17.39			
5	QPSK	12	7	17.42	17.51	17.38	19.6	0	
5	QPSK	12	13	17.45	17.45	17.34			
5	QPSK	25	0	17.38	17.42	17.42			
5	16QAM	1	0	17.48	17.51	17.42	19.6	0	
5	16QAM	1	12	17.37	17.40	17.36			
5	16QAM	1	24	17.38	17.43	17.29			
5	16QAM	12	0	17.44	17.44	17.24	19.6	0	
5	16QAM	12	7	17.38	17.41	17.32			
5	16QAM	12	13	17.38	17.37	17.30			
5	16QAM	25	0	17.24	17.36	17.31	19.6	0	
5	64QAM	1	0	17.43	17.40	17.36			
5	64QAM	1	12	17.41	17.40	17.34			
5	64QAM	1	24	17.44	17.38	17.26	19.6	0	
5	64QAM	12	0	17.38	17.47	17.29			
5	64QAM	12	7	17.38	17.41	17.34			
5	64QAM	12	13	17.39	17.41	17.29	19.6	0	
5	64QAM	25	0	17.26	17.42	17.29			
5	256QAM	1	0	17.43	17.49	17.27	19	0.6	
5	256QAM	1	12	17.39	17.37	17.35			
5	256QAM	1	24	17.44	17.43	17.26			
5	256QAM	12	0	17.36	17.47	17.29	19	0.6	
5	256QAM	12	7	17.37	17.39	17.34			
5	256QAM	12	13	17.38	17.36	17.28			
5	256QAM	25	0	17.27	17.37	17.35			

Band 38 - Ant1 PC2 DS13 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	19.34	19.41	19.24			
20	QPSK	1	49	19.30	19.30	19.16	21.2	0	
20	QPSK	1	99	19.26	19.33	19.20			
20	QPSK	50	0	19.28	19.29	19.15			
20	QPSK	50	24	19.20	19.23	19.06	21.2	0	
20	QPSK	50	50	19.23	19.23	19.06			
20	QPSK	100	0	19.21	19.23	19.08			
20	16QAM	1	0	19.30	19.34	19.14			
20	16QAM	1	49	19.23	19.23	19.12	21.2	0	
20	16QAM	1	99	19.17	19.26	19.12			
20	16QAM	50	0	19.21	19.22	19.06			
20	16QAM	50	24	19.14	19.14	19.01	21.2	0	
20	16QAM	50	50	19.18	19.15	19.02			
20									



Band 41 - Ant1 PC3 DS3 Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac)	Power Low Middle Ch. (Frac)	Power Low High Ch. (Frac)	Power High Middle Ch. (Frac)	Power High High Ch. (Frac)	Tune-up limit (dBm)	MPR (dB)
Channel										
				39750	40185	40620	41055	41490		
Frequency (MHz)										
30	QPSK	1	0	18.56	18.54	18.61	18.38	18.47	19.6	0
30	QPSK	1	49	18.63	18.63	18.64	18.38	18.47	19.6	0
30	QPSK	1	99	18.61	18.48	18.52	18.33	18.38	19.6	0
30	QPSK	50	0	18.38	18.49	18.52	18.41	18.44	19.6	0
30	QPSK	50	24	18.32	18.43	18.46	18.32	18.36	19.6	0
30	QPSK	50	50	18.29	18.40	18.44	18.36	18.39	19.6	0
30	QPSK	100	0	18.29	18.41	18.46	18.32	18.36	19.6	0
30	16QAM	1	0	18.51	18.47	18.55	18.32	18.37	19.6	0
30	16QAM	1	49	18.48	18.45	18.44	18.24	18.21	19.6	0
30	16QAM	1	99	18.41	18.40	18.46	18.26	18.27	19.6	0
30	16QAM	50	0	18.33	18.43	18.44	18.37	18.36	19.6	0
30	16QAM	50	24	18.25	18.35	18.36	18.24	18.25	19.6	0
30	16QAM	50	50	18.23	18.33	18.37	18.20	18.20	19.6	0
30	16QAM	100	0	18.24	18.33	18.38	18.24	18.24	19.6	0
30	64QAM	1	0	18.60	18.46	18.54	18.31	18.40	19.6	0
30	64QAM	1	49	18.49	18.45	18.47	18.23	18.28	19.6	0
30	64QAM	1	99	18.44	18.42	18.46	18.27	18.28	19.6	0
30	64QAM	50	0	18.29	18.40	18.43	18.34	18.34	19.6	0
30	64QAM	50	24	18.27	18.36	18.39	18.24	18.25	19.6	0
30	64QAM	50	50	18.24	18.35	18.38	18.28	18.30	19.6	0
30	64QAM	100	0	18.19	18.37	18.41	18.27	18.32	19.6	0
30	256QAM	1	0	18.60	18.48	18.56	18.31	18.37	19.6	0
30	256QAM	1	49	18.43	18.41	18.43	18.21	18.27	19.6	0.6
30	256QAM	1	99	18.45	18.40	18.43	18.25	18.33	19.6	0.6
30	256QAM	50	0	18.27	18.36	18.40	18.30	18.30	19.6	0.6
30	256QAM	50	24	18.23	18.35	18.43	18.24	18.28	19.6	0.6
30	256QAM	50	50	18.20	18.32	18.36	18.29	18.30	19.6	0.6
30	256QAM	100	0	18.23	18.31	18.36	18.24	18.24	19.6	0.6
Channel										
				39750	40185	40620	41055	41490		
Frequency (MHz)										
15	QPSK	1	0	18.69	18.50	18.54	18.28	18.39	19.6	0
15	QPSK	1	31	18.66	18.45	18.46	18.26	18.36	19.6	0
15	QPSK	1	74	18.42	18.39	18.45	18.20	18.33	19.6	0
15	QPSK	36	0	18.29	18.44	18.45	18.35	18.38	19.6	0
15	QPSK	36	20	18.23	18.46	18.46	18.26	18.26	19.6	0
15	QPSK	36	39	18.22	18.32	18.39	18.31	18.31	19.6	0
15	QPSK	75	0	18.21	18.35	18.44	18.22	18.29	19.6	0
15	16QAM	1	0	18.27	18.40	18.50	18.26	18.28	19.6	0
15	16QAM	1	31	18.41	18.41	18.35	18.21	18.29	19.6	0
15	16QAM	1	74	18.33	18.30	18.40	18.18	18.25	19.6	0
15	16QAM	36	0	18.26	18.36	18.38	18.29	18.29	19.6	0
15	16QAM	36	20	18.15	18.27	18.31	18.19	18.23	19.6	0
15	16QAM	36	39	18.18	18.28	18.30	18.21	18.23	19.6	0
15	16QAM	75	0	18.20	18.29	18.30	18.19	18.24	19.6	0
15	64QAM	1	0	18.43	18.41	18.49	18.23	18.33	19.6	0
15	64QAM	1	31	18.42	18.38	18.42	18.17	18.30	19.6	0
15	64QAM	1	74	18.34	18.37	18.36	18.22	18.22	19.6	0
15	64QAM	36	0	18.27	18.35	18.37	18.26	18.26	19.6	0
15	64QAM	36	20	18.18	18.27	18.31	18.16	18.22	19.6	0
15	64QAM	36	39	18.18	18.28	18.32	18.18	18.25	19.6	0
15	64QAM	75	0	18.12	18.28	18.34	18.21	18.25	19.6	0
15	256QAM	1	0	18.40	18.43	18.43	18.18	18.26	19.6	0.6
15	256QAM	1	31	18.33	18.33	18.36	18.15	18.32	19.6	0.6
15	256QAM	1	74	18.39	18.32	18.37	18.17	18.26	19.6	0.6
15	256QAM	36	0	18.27	18.38	18.39	18.26	18.26	19.6	0.6
15	256QAM	36	20	18.18	18.31	18.35	18.19	18.22	19.6	0.6
15	256QAM	36	39	18.13	18.24	18.27	18.22	18.25	19.6	0.6
15	256QAM	75	0	18.12	18.26	18.32	18.18	18.20	19.6	0.6
Channel										
				39750	40185	40620	41055	41490		
Frequency (MHz)										
10	QPSK	1	0	18.48	18.46	18.52	18.28	18.38	19.6	0
10	QPSK	1	49	18.47	18.43	18.48	18.26	18.29	19.6	0
10	QPSK	25	0	18.29	18.45	18.42	18.35	18.35	19.6	0
10	QPSK	25	12	18.24	18.43	18.43	18.26	18.26	19.6	0
10	QPSK	25	25	18.25	18.34	18.35	18.22	18.27	19.6	0
10	QPSK	50	0	18.24	18.35	18.41	18.25	18.29	19.6	0
10	16QAM	1	0	18.45	18.37	18.50	18.25	18.28	19.6	0
10	16QAM	1	24	18.42	18.39	18.42	18.20	18.23	19.6	0
10	16QAM	1	49	18.34	18.36	18.38	18.16	18.23	19.6	0
10	16QAM	25	0	18.27	18.35	18.37	18.22	18.26	19.6	0
10	16QAM	25	12	18.15	18.27	18.31	18.22	18.24	19.6	0
10	16QAM	25	25	18.15	18.24	18.31	18.22	18.24	19.6	0
10	16QAM	50	0	18.20	18.27	18.29	18.15	18.18	19.6	0
10	64QAM	1	0	18.46	18.40	18.46	18.25	18.31	19.6	0
10	64QAM	1	24	18.40	18.41	18.38	18.16	18.31	19.6	0
10	64QAM	1	49	18.38	18.37	18.41	18.23	18.19	19.6	0
10	64QAM	25	0	18.25	18.34	18.36	18.26	18.26	19.6	0
10	64QAM	25	12	18.23	18.30	18.31	18.19	18.26	19.6	0
10	64QAM	25	25	18.16	18.29	18.31	18.22	18.22	19.6	0
10	64QAM	50	0	18.12	18.31	18.36	18.17	18.25	19.6	0
10	256QAM	1	0	18.44	18.39	18.49	18.22	18.31	19.6	0.6
10	256QAM	1	24	18.36	18.31	18.41	18.11	18.32	19.6	0.6
10	256QAM	1	49	18.37	18.35	18.37	18.20	18.26	19.6	0.6
10	256QAM	25	0	18.28	18.36	18.43	18.20	18.21	19.6	0.6
10	256QAM	25	12	18.19	18.28	18.33	18.17	18.19	19.6	0.6
10	256QAM	25	25	18.11	18.23	18.27	18.22	18.26	19.6	0.6
10	256QAM	50	0	18.14	18.24	18.32	18.16	18.20	19.6	0.6
Channel										
				24915	25453	2593	26430	26885		
Frequency (MHz)										
5	QPSK	1	0	18.52	18.44	18.51	18.31	18.41	19.6	0
5	QPSK	1	24	18.45	18.42	18.43	18.28	18.34	19.6	0
5	QPSK	12	0	18.31	18.45	18.46	18.33	18.34	19.6	0
5	QPSK	12	7	18.25	18.35	18.42	18.27	18.29	19.6	0
5	QPSK	12	13	18.24	18.33	18.39	18.32	18.32	19.6	0
5	QPSK	25	0	18.20	18.36	18.39	18.26	18.33	19.6	0
5	16QAM	1	0	18.43	18.42	18.46	18.23	18.31	19.6	0
5	16QAM	1	12	18.41	18.37	18.40	18.15	18.25	19.6	0
5	16QAM	1	24	18.36	18.34	18.37	18.20	18.27	19.6	0
5	16QAM	12	0	18.28	18.37	18.39	18.26	18.31	19.6	0
5	16QAM	12	7	18.19	18.24	18.33	18.19	18.26	19.6	0
5	16QAM	12	13	18.17	18.27	18.30	18.21	18.21	19.6	0
5	16QAM	25	0	18.20	18.28	18.34	18.17	18.21	19.6	0
5	64QAM	1	0	18.44	18.41	18.45	18.22	18.30	19.6	0
5	64QAM	1	12	18.45	18.41	18.40	18.18	18.29	19.6	0
5	64QAM	1	24	18.37	18.34	18.39	18.22	18.24	19.6	0
5	64QAM	12	0	18.25	18.33	18.35	18.28	18.27	19.6	0
5	64QAM	12	7	18.19	18.30	18.32	18.16	18.26	19.6	0
5	64QAM	12	13	18.19	18.28	18.34	18.18	18.28	19.6	0
5	64QAM	25	0	18.10	18.30	18.33	18.16	18.24	19.6	0
5	256QAM	1	0	1						



Ant1 DS16 Simultaneous									
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	128	189	251		128	189	251		
TX Channel	824.2	836.4	848.8	824.2	836.4	848.8			
Frequency (MHz)	32.26	32.51	32.48	33.50	23.26	23.51	23.48	24.50	
GSM 1 Tx slot	32.34	32.64	32.66	33.50	23.34	23.64	23.66	24.50	
GPRS 1 Tx slots	29.44	29.52	29.49	31.10	23.44	23.52	23.49	25.10	
GPRS 2 Tx slots	27.81	27.85	27.69	29.30	23.55	23.59	23.43	25.04	
GPRS 3 Tx slots	27.52	27.43	27.60	28.00	24.52	24.43	24.60	25.00	
GPRS 4 Tx slots	24.51	24.56	24.78	25.00	15.51	15.56	15.78	16.00	
EDGE 1 Tx slot	22.63	22.59	22.90	23.00	16.63	16.59	16.90	17.00	
EDGE 2 Tx slots	21.18	21.06	21.39	21.50	16.92	16.80	17.13	17.24	
EDGE 3 Tx slots	19.65	19.71	19.85	20.00	16.65	16.71	16.85	17.00	
EDGE 4 Tx slots									

Ant1 DS16 Simultaneous									
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	512	661	810		512	661	810		
TX Channel	1850.2	1880	1909.8	1850.2	1880	1909.8			
Frequency (MHz)	28.15	28.18	28.30	28.50	19.15	19.18	19.30	19.50	
GSM 1 Tx slot	28.22	28.29	28.36	28.50	19.22	19.29	19.36	19.50	
GPRS 1 Tx slots	24.35	24.59	24.51	25.50	18.55	18.59	18.51	19.50	
GPRS 2 Tx slots	23.44	23.35	23.45	23.70	19.18	19.09	19.19	19.44	
GPRS 3 Tx slots	22.21	22.26	22.17	22.50	19.21	19.26	19.17	19.50	
GPRS 4 Tx slots	25.18	25.47	25.51	26.50	16.18	16.47	16.51	17.50	
EDGE 1 Tx slot	24.26	24.55	24.27	25.00	18.26	18.55	18.27	19.00	
EDGE 2 Tx slots	22.83	23.06	22.85	23.50	18.57	18.80	18.59	19.24	
EDGE 3 Tx slots	21.15	21.41	21.17	21.50	18.15	18.41	18.17	18.50	
EDGE 4 Tx slots									

Band	Ant1 DS16 Simultaneous			Tune-up Limit (dBm)	Ant1 DS16 Simultaneous			Tune-up Limit (dBm)	Ant1 DS16 Simultaneous			Tune-up Limit (dBm)	
	WCDMA II				WCDMA IV				WCDMA V				
TX Channel	9682	9460	9538	1312	1413	1513	4132	4162	4233				
Rx Channel	9682	9800	9938	1537	1638	1738	4357	4407	4468				
Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1759.6	836.4	836.4	846.6				
3GPP Rel 99	AMR 12.2Kbps	18.15	18.26	18.12	19.50	18.27	18.35	18.28	19.20	22.35	22.28	22.13	22.70
3GPP Rel 99	RMC 12.2Kbps	18.24	18.29	18.19	19.50	18.39	18.49	18.47	19.20	22.39	22.42	22.27	22.70
3GPP Rel 6	HSDPA Subtest-1	17.28	17.20	17.12	18.50	17.36	17.54	17.38	18.20	21.38	21.44	21.26	21.70
3GPP Rel 6	HSDPA Subtest-2	17.24	17.22	17.24	18.50	17.44	17.51	17.55	18.20	21.32	21.35	21.27	21.70
3GPP Rel 6	HSDPA Subtest-3	16.88	16.83	16.66	18.00	16.80	16.90	16.90	17.70	20.99	20.94	20.67	21.20
3GPP Rel 6	HSDPA Subtest-4	16.84	16.78	16.67	18.00	16.98	16.94	16.98	17.70	20.86	20.95	20.69	21.20
3GPP Rel 8	DC-HSDPA Subtest-1	17.25	17.39	17.10	18.50	17.40	17.49	17.39	18.20	21.42	21.35	21.21	21.70
3GPP Rel 8	DC-HSDPA Subtest-2	17.25	17.38	17.28	18.50	17.31	17.58	17.54	18.20	21.38	21.52	21.26	21.70
3GPP Rel 8	DC-HSDPA Subtest-3	16.71	16.81	16.67	18.00	16.95	16.90	17.03	17.70	20.90	20.82	20.82	21.20
3GPP Rel 8	DC-HSDPA Subtest-4	16.75	16.85	16.74	18.00	16.82	17.06	16.99	17.70	20.80	20.87	20.88	21.20
3GPP Rel 6	HSUPA Subtest-1	17.33	17.28	17.29	18.50	17.39	17.40	17.55	18.20	21.45	21.51	21.29	21.70
3GPP Rel 6	HSUPA Subtest-2	15.20	15.29	15.12	16.50	15.29	15.52	15.52	16.20	19.44	19.51	19.22	19.70
3GPP Rel 6	HSUPA Subtest-3	16.28	16.33	16.12	17.50	16.42	16.52	16.39	17.20	20.39	20.38	20.20	20.70
3GPP Rel 6	HSUPA Subtest-4	15.17	15.37	15.27	16.50	15.46	15.54	15.47	16.20	19.29	19.49	19.22	19.70
3GPP Rel 6	HSUPA Subtest-5	17.28	17.34	17.12	18.50	17.40	17.54	17.57	18.20	21.34	21.40	21.23	21.70



Band 2 Ant1 DS16 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. 1 (W)	Power Ch. 2 (W)	Power Ch. 3 (W)	Time-up (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.33	18.33	18.22				
20	QPSK	1	49	18.27	18.27	18.27	20	0		
20	QPSK	1	99	18.29	18.36	18.17				
20	QPSK	50	0	18.31	18.34	18.21				
20	QPSK	50	24	18.31	18.31	18.37				
20	QPSK	50	50	18.30	18.33	18.18				
20	QPSK	100	0	18.31	18.35	18.11				
20	QPSK	100	0	18.28	18.29	18.20				
20	16QAM	1	49	18.24	18.30	18.15				
20	16QAM	1	99	18.27	18.31	18.14				
20	16QAM	50	0	18.26	18.29	18.18				
20	16QAM	50	24	18.25	18.31	18.12				
20	16QAM	50	50	18.26	18.30	18.16				
20	16QAM	100	0	18.29	18.32	18.07				
20	16QAM	100	0	18.29	18.34	18.19				
20	64QAM	1	49	18.24	18.31	18.12				
20	64QAM	1	99	18.24	18.31	18.13				
20	64QAM	50	0	18.26	18.30	18.19				
20	64QAM	50	24	18.27	18.30	18.13				
20	64QAM	50	50	18.26	18.29	18.14				
20	64QAM	100	0	18.28	18.29	18.28				
20	256QAM	1	49	17.92	18.04	17.82				
20	256QAM	1	99	17.96	17.98	17.84				
20	256QAM	50	0	17.96	17.96	17.88				
20	256QAM	50	24	17.95	18.02	17.85				
20	256QAM	50	50	17.96	17.96	17.81				
20	256QAM	100	0	17.94	18.00	17.82				
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.30	18.37	18.21				
15	QPSK	1	37	18.24	18.31	18.15				
15	QPSK	1	74	18.25	18.31	18.11				
15	QPSK	36	0	18.30	18.30	18.20				
15	QPSK	36	25	18.27	18.31	18.12				
15	QPSK	36	39	18.24	18.29	18.14				
15	QPSK	75	0	18.28	18.31	18.15				
15	QPSK	75	0	18.23	18.31	18.15				
15	16QAM	1	37	18.23	18.30	18.13				
15	16QAM	1	74	18.23	18.29	18.12				
15	16QAM	36	25	18.20	18.31	18.09				
15	16QAM	36	39	18.21	18.28	18.12				
15	16QAM	75	0	18.24	18.31	18.08				
15	16QAM	75	0	18.24	18.31	18.15				
15	64QAM	1	37	18.24	18.31	18.15				
15	64QAM	1	74	18.23	18.29	18.11				
15	64QAM	36	0	18.23	18.27	18.19				
15	64QAM	36	25	18.26	18.28	18.08				
15	64QAM	36	39	18.21	18.25	18.10				
15	64QAM	75	0	18.25	18.24	18.06				
15	64QAM	75	0	18.25	18.24	18.06				
15	256QAM	1	37	17.91	17.92	17.81				
15	256QAM	1	74	17.92	17.97	17.78				
15	256QAM	36	25	17.96	17.96	17.88				
15	256QAM	36	39	17.90	17.90	17.84				
15	256QAM	75	0	17.96	17.93	17.78				
15	256QAM	75	0	17.96	17.93	17.74				
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.31	18.34	18.19				
10	QPSK	1	25	18.24	18.29	18.16				
10	QPSK	1	49	18.27	18.29	18.15				
10	QPSK	12	0	18.27	18.30	18.21				
10	QPSK	25	12	18.26	18.33	18.12				
10	QPSK	25	25	18.27	18.31	18.12				
10	QPSK	75	0	18.26	18.31	18.15				
10	16QAM	1	0	18.26	18.33	18.15				
10	16QAM	1	24	18.20	18.28	18.15				
10	16QAM	1	49	18.26	18.29	18.09				
10	16QAM	25	0	18.22	18.24	18.19				
10	16QAM	25	12	18.23	18.29	18.12				
10	16QAM	36	0	18.26	18.29	18.10				
10	16QAM	36	0	18.26	18.25	18.05				
10	256QAM	1	0	17.92	17.95	17.87				
10	256QAM	1	24	17.92	17.96	17.77				
10	256QAM	1	49	17.94	17.94	17.78				
10	256QAM	12	0	17.97	17.94	17.81				
10	256QAM	25	12	17.95	17.96	17.84				
10	256QAM	25	25	17.96	17.91	17.78				
10	256QAM	75	0	17.96	17.91	17.74				
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.33	18.36	18.13				
5	QPSK	1	12	18.24	18.30	18.13				
5	QPSK	1	24	18.25	18.33	18.13				
5	QPSK	12	0	18.27	18.30	18.21				
5	QPSK	12	7	18.28	18.32	18.17				
5	QPSK	12	13	18.27	18.31	18.15				
5	QPSK	25	0	18.26	18.31	18.10				
5	16QAM	1	0	18.23	18.30	18.14				
5	16QAM	1	12	18.24	18.24	18.18				
5	16QAM	12	24	18.27	18.30	18.08				
5	16QAM	12	0	18.22	18.28	18.15				
5	16QAM	12	7	18.25	18.26	18.11				
5	16QAM	12	14	18.21	18.29	18.14				
5	16QAM	25	0	18.26	18.27	18.04				
5	64QAM	1	0	18.25	18.30	18.15				
5	64QAM	1	12	18.23	18.29	18.11				
5	64QAM	1	24	18.22	18.30	18.14				
5	64QAM	12	0	18.25	18.26	18.14				
5	64QAM	12	7	18.25	18.30	18.11				
5	64QAM	12	13	18.22	18.28	18.09				
5	64QAM	25	0	18.26	18.26	18.09				
5	256QAM	1	0	17.98	17.98	17.84				
5	256QAM	1	12	17.99	17.98	17.77				
5	256QAM	1	24	17.91	17.91	17.83				
5	256QAM	12	0	17.98	17.96	17.82				
5	256QAM	12	7	17.95	17.97	17.81				
5	256QAM	12	13	17.93	17.96	17.78				
5	256QAM	25	0	17.91	17.99	17.71				
Channel										
Frequency (MHz)										
3	QPSK	1	0	18.32	18.35	18.19				
3	QPSK	1	8	18.22	18.30	18.14				
3	QPSK	1	14	18.29	18.33	18.16				
3	QPSK	8	0	18.25	18.31	18.13				
3	QPSK	8	4	18.31	18.32	18.16				
3	QPSK	8	7	18.24	18.29	18.12				
3	QPSK	15	0	18.28	18.30	18.07				
3	16QAM	1	0	18.23	18.32	18.19				
3	16QAM	1	8	18.24	18.29	18.10				
3	16QAM	1	14	18.22	18.29	18.14				
3	16QAM	8	4	18.21	18.31	18.08				
3	16QAM	8	7	18.25	18.29	18.14				
3	16QAM	15	0	18.29	18.29	18.04				
3	64QAM	1	0	18.26	18.29	18.14				
3	64QAM	1	8	18.23	18.29	18.07				
3	64QAM	1	14	18.21	18.28	18.09				
3	64QAM	8	0	18.24	18.24	18.07				
3	64QAM	8	4	18.25	18.26	18.10				
3	64QAM	8	7	18.23	18.29	18.08				
3	256QAM	1	0	17.99	18.00	17.88				
3	256QAM	1	8	17.91	18.01	17.82				
3	256QAM	1	14	17.94	17.99	17.80				
3	256QAM	8	0	17.96	17.94	17.79				
3	256QAM	8	4	17.92	18.00	17.82				
3	256QAM	8	7	17.90	17.99	17.78				
3	256QAM	15	0	17.89	17.94	17.70				
Channel										
Frequency (MHz										



Band 7 Ant1 DS16 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.66	20.70	20.71			21.8	0
20	QPSK	1	49	20.61	20.76	20.87				
20	QPSK	50	0	20.59	20.60	20.61			21.8	0
20	QPSK	50	24	20.59	20.60	20.61				
20	QPSK	50	50	20.54	20.64	20.86				
20	QPSK	100	0	20.51	20.55	20.56			21.8	0
20	QPSK	100	0	20.59	20.70	20.87				
20	16QAM	1	49	20.59	20.70	20.86			21.8	0
20	16QAM	1	99	20.57	20.74	20.82				
20	16QAM	50	0	20.56	20.56	20.56			21.8	0
20	16QAM	50	24	20.49	20.58	20.54				
20	16QAM	50	50	20.48	20.59	20.50				
20	16QAM	100	0	20.49	20.59	20.50			21.8	0
20	16QAM	100	0	20.59	20.70	20.87				
20	64QAM	1	0	20.63	20.70	20.66			21.8	0
20	64QAM	1	49	20.59	20.71	20.62				
20	64QAM	50	0	19.89	19.96	19.91			21	0.8
20	64QAM	50	24	19.81	19.90	19.86				
20	64QAM	50	50	19.82	19.94	19.85				
20	64QAM	100	0	19.80	19.87	19.87			21	0.8
20	64QAM	100	0	19.87	19.97	19.83				
20	256QAM	1	49	17.83	17.91	17.87			19	2.8
20	256QAM	1	99	17.83	17.86	17.87				
20	256QAM	50	0	17.86	17.86	17.86			19	2.8
20	256QAM	50	24	17.83	17.89	17.86				
20	256QAM	50	50	17.86	17.83	17.84			19	2.8
20	256QAM	100	0	17.79	17.82	17.85				
Channel										
Frequency (MHz)										
19	QPSK	1	0	20.61	20.70	20.68			21.8	0
19	QPSK	1	37	20.59	20.72	20.86				
19	QPSK	1	74	20.57	20.72	20.86				
19	QPSK	36	0	20.56	20.65	20.60			21.8	0
19	QPSK	36	20	20.49	20.59	20.50				
19	QPSK	36	39	20.49	20.61	20.54				
19	QPSK	75	0	20.47	20.56	20.50			21.8	0
19	16QAM	1	37	20.54	20.54	20.54				
19	16QAM	1	37	20.58	20.60	20.62			21.8	0
19	16QAM	1	74	20.56	20.70	20.86				
19	16QAM	36	0	20.54	20.58	20.63			21.8	0
19	16QAM	36	20	20.48	20.54	20.51				
19	16QAM	36	39	20.55	20.59	20.53				
19	16QAM	75	0	20.44	20.49	20.47			21.8	0
19	64QAM	1	0	20.62	20.71	20.64			21.8	0
19	64QAM	1	49	20.59	20.71	20.62				
19	64QAM	1	74	20.55	20.71	20.60				
19	64QAM	36	0	19.88	19.84	19.88			21	0.8
19	64QAM	36	20	19.86	19.88	19.81				
19	64QAM	36	39	19.81	19.90	19.81				
19	64QAM	75	0	19.77	19.85	19.82			19	2.8
19	256QAM	1	37	17.79	17.80	17.87			19	2.8
19	256QAM	1	74	17.77	17.82	17.87				
19	256QAM	36	0	17.80	17.80	17.80			19	2.8
19	256QAM	36	20	17.80	17.81	17.81			19	2.8
19	256QAM	36	39	17.80	17.88	17.82				
19	256QAM	75	0	17.79	17.82	17.81				
Channel										
Frequency (MHz)										
19	QPSK	1	0	20.62	20.70	20.69			21.8	0
19	QPSK	1	25	20.56	20.70	20.82				
19	QPSK	1	49	20.58	20.74	20.85				
19	QPSK	12	0	20.56	20.60	20.59			21.8	0
19	QPSK	12	24	20.49	20.54	20.56				
19	QPSK	25	0	20.48	20.56	20.50			21.8	0
19	QPSK	25	25	20.49	20.58	20.52				
19	QPSK	25	49	20.43	20.50	20.45				
19	16QAM	1	0	20.56	20.74	20.81			21.8	0
19	16QAM	1	26	20.59	20.66	20.60				
19	16QAM	1	49	20.57	20.68	20.69			21.8	0
19	16QAM	25	0	20.48	20.58	20.52				
19	16QAM	25	12	20.49	20.56	20.50			21.8	0
19	16QAM	25	25	20.47	20.55	20.50				
19	16QAM	50	0	20.49	20.49	20.49			21.8	0
19	64QAM	1	0	20.61	20.73	20.64			21.8	0
19	64QAM	1	26	20.57	20.68	20.59				
19	64QAM	1	49	20.49	20.69	20.65				
19	64QAM	25	0	19.85	19.92	19.88			21	0.8
19	64QAM	25	12	19.76	19.91	19.82				
19	64QAM	50	0	19.78	19.85	19.84				
19	256QAM	1	26	17.85	17.85	17.85			19	2.8
19	256QAM	1	49	17.86	17.82	17.83				
19	256QAM	25	0	17.85	17.85	17.85			19	2.8
19	256QAM	25	12	17.82	17.82	17.82				
19	256QAM	25	25	17.83	17.88	17.78			19	2.8
19	256QAM	50	0	17.79	17.82	17.81				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.62	20.71	20.69			21.8	0
5	QPSK	1	12	20.60	20.71	20.64				
5	QPSK	1	24	20.67	20.72	20.63				
5	QPSK	12	0	20.56	20.60	20.59			21.8	0
5	QPSK	12	7	20.52	20.57	20.53				
5	QPSK	12	13	20.49	20.58	20.52				
5	QPSK	25	0	20.48	20.56	20.50			21.8	0
5	16QAM	1	0	20.55	20.71	20.67				
5	16QAM	1	12	20.58	20.69	20.62			21.8	0
5	16QAM	1	24	20.51	20.72	20.60				
5	16QAM	12	0	20.51	20.61	20.51			21.8	0
5	16QAM	12	7	20.45	20.52	20.50				
5	16QAM	12	13	20.48	20.58	20.50			21.8	0
5	16QAM	25	0	20.47	20.54	20.45				
5	64QAM	1	0	20.61	20.70	20.63			21.8	0
5	64QAM	1	12	20.57	20.68	20.59				
5	64QAM	1	24	20.54	20.69	20.62				
5	64QAM	12	0	19.89	19.96	19.87			21	0.8
5	64QAM	12	7	19.80	19.84	19.82				
5	64QAM	12	13	19.78	19.90	19.81				
5	64QAM	25	0	19.78	19.87	19.86				
5	256QAM	1	0	17.82	17.82	17.82			19	2.8
5	256QAM	1	12	17.80	17.80	17.84				
5	256QAM	12	0	17.81	17.80	17.84			19	2.8
5	256QAM	12	7	17.84	17.83	17.81				
5	256QAM	12	13	17.83	17.87	17.85			19	2.8
5	256QAM	25	0	17.79	17.82	17.82				

Band 66 Ant1 DS16 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.52	18.60	18.61			19.6	0
20	QPSK	1	49	18.47	18.63	18.35				
20	QPSK	50	0	18.49	18.62	18.56			19.6	0
20	QPSK	50	24	18.48	18.62	18.56				
20	QPSK	50	50	18.49	18.59	18.37				
20	QPSK	100	0	18.53	18.61	18.56			19.6	0
20	QPSK	100	0	18.47	18.67	18.37				
20	16QAM	1	49	18.41	18.59	18.54			19.6	0
20	16QAM	1	99	18.43	18.58	18.52				
20	16QAM	50	0	18.45	18.60	18.51			19.6	0
20	16QAM	50	24	18.45	18.60	18.51				
20	16QAM	50	50	18.44	18.55	18.54				
20	16QAM	100	0	18.52	18.56	18.52			19.6	0
20	16QAM	100	0	18.48	18.65	18.55				
20	64QAM	1	0	18.48	18.65	18.55				



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Band 38 - PC2 Ant1 DS16 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Channel Frequency (MHz)				37850	38000	38150				
20	QPSK	1	0	24.55	24.71	24.46				
20	QPSK	1	49	24.54	24.48	24.32	25.7	0		
20	QPSK	1	99	24.49	24.70	24.36				
20	QPSK	50	0	24.43	24.56	24.14				
20	QPSK	50	24	24.48	24.39	24.31				
20	QPSK	50	50	24.51	24.58	24.28	25.7	0		
20	QPSK	100	0	24.43	24.56	24.14				
20	16QAM	1	49	24.54	24.44	24.18	25.7	0		
20	16QAM	1	99	24.55	24.58	24.25				
20	16QAM	50	24	23.20	23.39	23.26				
20	16QAM	50	50	23.38	23.58	23.11	25	0.7		
20	16QAM	100	0	23.37	23.38	23.10				
20	64QAM	1	49	23.34	23.56	23.34	25	0.7		
20	64QAM	1	99	23.36	23.46	23.22				
20	64QAM	50	0	22.75	22.86	22.57				
20	64QAM	50	24	22.76	22.72	22.52				
20	64QAM	50	50	22.79	22.71	22.54	24	1.7		
20	64QAM	100	0	22.51	22.79	22.30				
20	256QAM	1	0	20.72	20.77	20.50				
20	256QAM	1	49	20.78	20.81	20.57	22	3.7		
20	256QAM	1	99	20.59	20.77	20.42				
20	256QAM	50	0	20.61	20.69	20.57				
20	256QAM	50	24	20.52	20.64	20.55				
20	256QAM	50	50	20.64	20.65	20.44	22	3.7		
20	256QAM	100	0	20.53	20.81	20.48				
Channel										
Channel Frequency (MHz)				37825	38000	38175				
15	QPSK	1	0	24.70	24.73	24.48				
15	QPSK	1	37	24.54	24.62	24.27	25.7	0		
15	QPSK	1	74	24.63	24.65	24.49				
15	QPSK	36	0	24.44	24.54	24.15				
15	QPSK	36	20	24.53	24.50	24.32				
15	QPSK	36	39	24.55	24.44	24.23	25.7	0		
15	QPSK	75	0	24.48	24.47	24.29				
15	16QAM	1	37	24.58	24.49	24.18	25.7	0		
15	16QAM	1	74	24.59	24.45	24.23				
15	16QAM	36	0	23.32	23.44	23.07				
15	16QAM	36	20	23.23	23.35	23.08				
15	16QAM	36	39	23.24	23.46	23.13	25	0.7		
15	16QAM	75	0	23.33	23.46	23.03				
15	64QAM	1	0	23.39	23.27	23.13				
15	64QAM	1	37	23.29	23.56	23.19	25	0.7		
15	64QAM	1	74	23.34	23.44	23.12				
15	64QAM	36	0	22.79	22.85	22.47				
15	64QAM	36	20	22.53	22.66	22.44				
15	64QAM	36	39	22.72	22.69	22.49	24	1.7		
15	64QAM	75	0	22.50	22.81	22.32				
15	256QAM	1	0	20.59	20.80	20.55				
15	256QAM	1	49	20.65	20.76	20.52	22	3.7		
15	256QAM	1	99	20.50	20.64	20.36				
15	256QAM	50	0	20.57	20.80	20.42				
15	256QAM	50	20	20.69	20.69	20.49	22	3.7		
15	256QAM	50	39	20.68	20.76	20.55				
15	256QAM	75	0	20.70	20.86	20.51				
Channel										
Channel Frequency (MHz)				37800	38000	38200				
10	QPSK	1	0	24.57	24.73	24.11				
10	QPSK	1	25	24.54	24.50	24.38	25.7	0		
10	QPSK	1	49	24.61	24.70	24.47				
10	QPSK	25	0	24.60	24.53	24.14				
10	QPSK	25	0	24.59	24.47	24.24				
10	QPSK	25	25	24.43	24.55	24.24	25.7	0		
10	QPSK	50	0	24.51	24.44	24.27				
10	16QAM	1	25	24.39	24.52	24.23	25.7	0		
10	16QAM	1	49	24.55	24.47	24.28				
10	16QAM	1	49	24.46	24.47	24.38				
10	16QAM	25	0	23.44	23.48	23.15				
10	16QAM	25	12	23.35	23.32	23.16				
10	16QAM	25	25	23.26	23.56	23.24	25	0.7		
10	16QAM	50	0	23.38	23.34	23.12				
10	64QAM	1	0	23.47	23.38	23.29				
10	64QAM	1	25	23.35	23.45	23.13	25	0.7		
10	64QAM	1	49	23.32	23.27	23.14				
10	64QAM	25	0	22.65	22.75	22.47				
10	64QAM	25	12	22.65	22.63	22.71	24	1.7		
10	64QAM	25	25	22.75	22.79	22.44				
10	64QAM	50	0	22.85	22.83	22.80				
10	256QAM	1	0	20.70	20.71	20.55				
10	256QAM	1	25	20.62	20.78	20.52	22	3.7		
10	256QAM	1	49	20.70	20.52	20.77				
10	256QAM	25	0	20.67	20.51	20.72				
10	256QAM	25	12	20.56	20.68	20.74	22	3.7		
10	256QAM	25	25	20.79	20.58	20.69				
10	256QAM	50	0	20.68	20.55	20.60	22	3.7		
Channel										
Channel Frequency (MHz)				37775	38000	38225				
5	QPSK	1	0	24.71	24.68	24.44				
5	QPSK	1	12	24.53	24.63	24.30	25.7	0		
5	QPSK	1	24	24.49	24.73	24.39				
5	QPSK	12	0	24.57	24.59	24.24				
5	QPSK	12	7	24.48	24.42	24.23				
5	QPSK	12	13	24.44	24.48	24.27	25.7	0		
5	QPSK	25	0	24.47	24.47	24.19				
5	16QAM	1	0	24.54	24.53	24.36				
5	16QAM	1	12	24.60	24.50	24.25	25.7	0		
5	16QAM	1	24	24.50	24.56	24.20				
5	16QAM	12	0	23.30	23.49	23.06				
5	16QAM	12	7	23.39	23.49	23.14				
5	16QAM	12	13	23.30	23.47	23.21	25	0.7		
5	16QAM	25	0	23.31	23.37	23.00				
5	64QAM	1	0	23.44	23.35	23.30				
5	64QAM	1	12	23.45	23.50	23.34	25	0.7		
5	64QAM	1	24	23.23	23.57	23.15				
5	64QAM	12	0	22.80	22.88	22.42				
5	64QAM	12	7	22.69	22.63	22.45				
5	64QAM	12	13	22.76	22.61	22.58	24	1.7		
5	64QAM	25	0	22.53	22.79	22.40				
5	256QAM	1	0	20.76	20.63	20.40				
5	256QAM	1	12	20.61	20.63	20.51	22	3.7		
5	256QAM	1	24	20.50	20.72	20.42				
5	256QAM	12	0	20.53	20.78	20.52				
5	256QAM	12	7	20.59	20.62	20.60	22	3.7		
5	256QAM	12	13	20.64	20.76	20.51				
5	256QAM	25	0	20.63	20.78	20.48				

Band 41 - PC2 Ant1 DS16 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Channel Frequency (MHz)				39750	40188	40626	41065	41460		
20	QPSK	1	0	24.81	24.74	24.63	24.58	24.73		
20	QPSK	1	49	24.70	24.67	24.65	24.44	24.69	25.7	0
20	QPSK	1	99	24.78	24.65	24.75	24.54	24.66		
20	QPSK	50	0	24.67	24.60	24.61	24.32	24.61		
20	QPSK	50	24	24.61	24.63	24.55	24.39	24.60		
20	QPSK	50	50	24.63	24.61	24.60	24.36	24.56	25.7	0
20	QPSK	100	0	24.64	24.66	24.61	24.33	24.47		
20	16QAM	1	49	24.59	24.55	24.56	24.35	24.56		
20	16QAM	1	99	24.85	24.82	24.80	24.31	24.53	25.7	0
20	16QAM	1	99	24.64	24.64	24.62	24.39	24.55		
20	16QAM	50	24	23.99	23.45	23.56	23.24	23.59		
20	16QAM	50								



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CA_7C Ant 1 Full Power 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	23.07	24.00
21100	20902	QPSK	1	0	1	99	23.14	24.00
21350	21152	QPSK	1	0	1	99	23.02	24.00

CA_7C Ant 2 Full Power 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	22.22	24.00
21100	20902	QPSK	1	0	1	99	22.29	24.00
21350	21152	QPSK	1	0	1	99	22.24	24.00

CA_41C Ant 1 Full Power Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.18	24.00
40185	39987	QPSK	1	0	1	99	23.32	24.00
40620	40422	QPSK	1	0	1	99	23.37	24.00
41055	41253	QPSK	1	99	1	0	23.15	24.00
41490	41292	QPSK	1	0	1	99	23.13	24.00

CA_7C Ant 1 DSI2 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	23.07	24.00
21100	20902	QPSK	1	0	1	99	23.14	24.00
21350	21152	QPSK	1	0	1	99	23.02	24.00

CA_7C Ant 2 DSI2 Standalone 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	19.21	20.40
21100	20902	QPSK	1	0	1	99	19.29	20.40
21350	21152	QPSK	1	0	1	99	19.23	20.40

CA_41C Ant 1 DSI2 Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.18	24.00
40185	39987	QPSK	1	0	1	99	23.32	24.00
40620	40422	QPSK	1	0	1	99	23.37	24.00
41055	41253	QPSK	1	99	1	0	23.15	24.00
41490	41292	QPSK	1	0	1	99	23.13	24.00

CA_7C Ant 1 DSI3 Standalone 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	19.66	21.00
21100	20902	QPSK	1	0	1	99	19.71	21.00
21350	21152	QPSK	1	0	1	99	19.67	21.00

CA_7C Ant 2 DSI2 Simultaneous 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	17.67	19.10
21100	20902	QPSK	1	0	1	99	17.71	19.10
21350	21152	QPSK	1	0	1	99	17.74	19.10

CA_41C Ant 1 DSI3 Standalone Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.84	23.40
40185	39987	QPSK	1	0	1	99	22.82	23.40
40620	40422	QPSK	1	0	1	99	22.92	23.40
41055	41253	QPSK	1	99	1	0	22.79	23.40
41490	41292	QPSK	1	0	1	99	22.86	23.40

CA_7C Ant 1 DSI3 Simultaneous 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	15.03	16.80
21100	20902	QPSK	1	0	1	99	15.07	16.80
21350	21152	QPSK	1	0	1	99	15.01	16.80

CA_7C Ant 2 DSI3 Simultaneous 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	21.55	22.60
21100	20902	QPSK	1	0	1	99	21.67	22.60
21350	21152	QPSK	1	0	1	99	21.65	22.60

CA_41C Ant 1 DSI3 Simultaneous Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	18.41	19.60
40185	39987	QPSK	1	0	1	99	18.43	19.60
40620	40422	QPSK	1	0	1	99	18.48	19.60
41055	41253	QPSK	1	99	1	0	18.32	19.60
41490	41292	QPSK	1	0	1	99	18.28	19.60

CA_7C Ant 1 DSI6 Standalone 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	22.16	23.30
21100	20902	QPSK	1	0	1	99	22.17	23.30
21350	21152	QPSK	1	0	1	99	22.14	23.30

CA_41C Ant 1 DSI6 Simultaneous Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.06	23.30
40185	39987	QPSK	1	0	1	99	22.92	23.30
40620	40422	QPSK	1	0	1	99	23.08	23.30
41055	41253	QPSK	1	99	1	0	22.86	23.30
41490	41292	QPSK	1	0	1	99	22.83	23.30

CA_7C Ant 1 DSI6 Simultaneous 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	20.66	21.80
21100	20902	QPSK	1	0	1	99	20.73	21.80
21350	21152	QPSK	1	0	1	99	20.56	21.80



Downlink CA Power

2CA DL

CA List	PCC							SCC				Power		
	LTE		BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	With CA	Without CA
	Band	Ant	(MHz)	Freq.	Channel		RB	RB	Band	(MHz)	Freq.	Channel	Tx. Power	Tx. Power
				(MHz)			Offset			(MHz)			(dBm)	(dBm)
CA_4A-17A	Band 4	1	10M	1715	20000	QPSK	1	0	Band 17	10M	740	5790	22.62	22.75
	Band 4	2	10M	1715	20000	QPSK	1	49	Band 17	10M	740	5790	22.63	22.64
	Band 17	1	10M	710	23790	QPSK	1	0	Band 4	10M	2132.5	2175	22.83	22.96
	Band 17	2	10M	710	23790	QPSK	1	0	Band 4	10M	2132.5	2175	22.59	22.63
CA_7B	Band 7	1	15M	2562.5	21375	QPSK	1	37	Band 7	5M	2636.8	2918	23.08	23.23
	Band 7	2	15M	2535	21100	QPSK	1	0	Band 7	5M	2636.8	2918	22.26	22.42
CA_38C	Band 38	1	20M	2595	37901	QPSK	1	0	Band 38	20M	2614.8	38099	23.44	23.36
CA_2A-17A	Band 2	1	10M	1880	18900	QPSK	1	0	Band 17	10M	740	5790	22.98	23.15
	Band 17	1	10M	710	23790	QPSK	1	0	Band 2	10M	1960	900	22.89	22.96
	Band 17	2	10M	710	23790	QPSK	1	0	Band 2	10M	1960	900	22.59	22.63
CA_41C	Band 41	1	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	23.23	23.39
CA_66B	Band 66	1	15M	1717.5	132047	QPSK	1	0	Band 66	5M	2164.3	66979	22.74	22.91
CA_66C	Band 66	1	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	22.69	22.92
CA_7A-26A	Band 7	1	15M	2562.5	21375	QPSK	1	37	Band 26	15M	876.5	8865	23.01	23.23
	Band 7	2	15M	2535	21100	QPSK	1	0	Band 26	15M	876.5	8865	22.36	22.42
	Band 26	1	15M	831.5	26865	QPSK	1	0	Band 7	5M	2636.8	2918	22.71	22.94
	Band 26	2	15M	831.5	26865	QPSK	1	0	Band 7	5M	2636.8	2918	22.82	22.89

3CA DL

3CA List	PCC										SCC1				SCC2				Power	
	LTE		BW	UL	UL		UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA		
	Band	Ant	(MHz)	Freq	Channel	Mod.	RB	RB	Band	(MHz)	Freq	Channel	Band	(MHz)	Freq	Channel	Tx. Power	Tx. Power		
				(MHz)				Offset			(MHz)				(MHz)		(dBm)	(dBm)		
CA_4A-7C	Band 4	1	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.63	22.85		
	Band 4	2	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.68	22.75		
	Band 7	1	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 4	20M	2132.5	2175	23.08	23.31		
CA_2A-7A-7A	Band 2	2	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 4	20M	2132.5	2175	22.32	22.44		
	Band 2	1	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	23.1	23.19		
	Band 7	1	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 2	20M	1960	900	23.17	23.31		
CA_2A-7C	Band 7	2	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 2	20M	1960	900	22.28	22.44		
	Band 2	1	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	23.07	23.19		
	Band 7	1	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	23.16	23.31		
CA_41A-41A-41A	Band 41	1	20M	2593	40620	QPSK	1	0	Band 41	5M	2687.5	41565	Band 41	20M	1960	900	22.24	22.44		
CA_2A-4A-5A	Band 41	1	20M	2593	40620	QPSK	1	0	Band 41	5M	2687.5	41565	Band 41	20M	1960	900	23.25	23.39		
	Band 2	1	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	23.06	23.19		
	Band 4	1	20M	1732.5	20175	QPSK	1	0	Band 5	10M	881.5	2525	Band 2	20M	1960	900	22.63	22.85		
	Band 4	2	20M	1732.5	20175	QPSK	1	0	Band 5	10M	881.5	2525	Band 2	20M	1960	900	22.57	22.75		
	Band 5	1	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	22.73	22.9		
CA_2A-4A-7A	Band 5	2	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	22.68	22.79		
	Band 2	1	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 7	5M	2687.5	3425	23.17	23.19		
	Band 4	1	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	Band 2	20M	1960	900	22.69	22.85		
	Band 4	2	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	Band 2	20M	1960	900	22.57	22.75		
	Band 7	1	20M	2535	21100	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	23.27	23.31		
CA_5A-7A-66A	Band 7	2	20M	2535	21100	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	22.27	22.44		
	Band 5	1	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 66	5M	2197.5	67311	22.78	22.9		
	Band 5	2	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 66	5M	2197.5	67311	22.76	22.79		
	Band 7	1	20M	2535	21100	QPSK	1	0	Band 5	10M	881.5	2525	Band 66	5M	2197.5	67311	23.14	23.31		
	Band 7	2	20M	2535	21100	QPSK	1	0	Band 5	10M	881.5	2525	Band 66	5M	2197.5	67311	22.31	22.44		
CA_7A-66A-66A	Band 66	1	20M	1745	132322	QPSK	1	0	Band 5	10M	881.5	2525	Band 7	10M	2655	3100	22.77	22.92		
	Band 7	1	20M	2535	21100	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	23.25	23.31		
	Band 7	2	20M	2535	21100	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.36	22.44		
CA_41D	Band 66	1	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 7	5M	2687.5	3425	22.78	22.92		
	Band 41	1	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 41	20M	2632.6	41016	23.17	23.39		
CA_41A-41C	Band 41	1	20M	2593	40620	QPSK	1	0	Band 41	5M	2687.5	41565	Band 41	20M	2675.8	41448	23.29	23.39		
	Band 41	1	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 41	5M	2498.5	39675	22.79	23.39		



4CA DL

Configure	PCC							SCC1				SCC2				SCC3				Power		
	LTE		BW	UL	UL	Mod.	ULF	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	RB Offset	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)
CA_5A-7C-66A	Band 5	1	10M	836.5	20525	QPSK	1	0	Band 66	20M	2155	66886	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.83	22.9
	Band 5	2	10M	836.5	20525	QPSK	1	0	Band 66	20M	2155	66886	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.65	22.79
	Band 7	1	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 5	10M	881.5	2525	Band 66	20M	2155	66886	23.12	23.31
	Band 7	2	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 5	10M	881.5	2525	Band 66	20M	2155	66886	22.35	22.44
CA_7C-66A-66A	Band 66	1	20M	1745	132322	QPSK	1	0	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.78	22.92
	Band 7	1	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	23.26	23.31
	Band 7	2	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.36	22.44
	Band 66	1	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.79	22.92



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

n5 Ant1 Full 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	PI2 BPSK	1	1	23.35	23.40	23.32	24.0	0.0	
20	PI2 BPSK	1	53	23.28	23.36	23.30			
20	PI2 BPSK	1	104	23.09	23.14	23.03			
20	PI2 BPSK	50	0	22.50	22.58	22.52	23.5	0.5	
20	PI2 BPSK	50	28	23.04	23.11	23.05	24.0	0.0	
20	PI2 BPSK	50	56	21.52	21.61	21.54	23.5	0.5	
20	PI2 BPSK	100	0	22.51	22.57	22.51	24.0	0.0	
20	QPSK	1	1	23.38	23.42	23.33			
20	QPSK	1	53	23.16	23.23	23.17			
20	QPSK	1	104	22.99	23.05	22.96			
20	QPSK	50	0	22.06	22.14	22.05	23.0	1.0	
20	QPSK	50	28	23.12	23.18	23.11	24.0	0.0	
20	QPSK	50	56	21.87	21.94	21.84	23.0	1.0	
20	QPSK	100	0	22.00	22.07	21.97	23.0	1.0	
20	16QAM	1	1	22.10	22.17	22.08	23.0	1.0	
20	64QAM	1	1	20.83	20.70	20.61	21.5	2.5	
20	256QAM	1	1	18.41	18.48	18.41	19.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.27	23.37	23.29	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.30	23.33	23.26	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.23	23.34	23.27	24.0	0.0	

n5 Ant2 Full 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	PI2 BPSK	1	1	22.80	22.89	22.79	24.0	0.0	
20	PI2 BPSK	1	53	22.76	22.77	22.87			
20	PI2 BPSK	1	104	22.57	22.64	22.56			
20	PI2 BPSK	50	0	21.85	21.99	21.85	23.5	0.5	
20	PI2 BPSK	50	28	22.86	22.72	22.82	24.0	0.0	
20	PI2 BPSK	50	56	21.72	21.82	21.75	23.5	0.5	
20	PI2 BPSK	100	0	21.86	21.96	21.87	24.0	0.0	
20	QPSK	1	1	23.05	23.10	23.02			
20	QPSK	1	53	22.76	22.81	22.75			
20	QPSK	1	104	22.61	22.68	22.60			
20	QPSK	50	0	21.49	21.58	21.47	23.0	1.0	
20	QPSK	50	28	22.77	22.83	22.76	24.0	0.0	
20	QPSK	50	56	21.29	21.35	21.25	23.0	1.0	
20	QPSK	100	0	21.43	21.50	21.44	23.0	1.0	
20	16QAM	1	1	21.56	21.65	21.58	23.0	1.0	
20	64QAM	1	1	20.03	20.11	20.02	21.5	2.5	
20	256QAM	1	1	17.86	17.97	17.91	19.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.08	22.92	23.00	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.10	22.94	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.04	22.94	22.96	24.0	0.0	

n7 Ant1 Full 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)									
50	PI2 BPSK	1	1	23.49	23.56	23.46	24.0	0.0	
50	PI2 BPSK	1	135	23.28	23.35	23.30			
50	PI2 BPSK	1	268	23.27	23.38	23.33			
50	PI2 BPSK	135	0	22.83	22.91	22.84	23.5	0.5	
50	PI2 BPSK	135	68	23.24	23.33	23.28	24.0	0.0	
50	PI2 BPSK	135	135	22.83	22.94	22.84	23.5	0.5	
50	PI2 BPSK	270	0	22.76	22.87	22.81	24.0	0.0	
50	QPSK	1	1	23.05	23.12	23.06			
50	QPSK	1	135	23.44	23.51	23.44			
50	QPSK	1	268	23.44	23.54	23.47			
50	QPSK	135	0	22.34	22.41	22.33	23.0	1.0	
50	QPSK	135	68	23.31	23.41	23.32	24.0	0.0	
50	QPSK	135	135	22.42	22.47	22.39	23.0	1.0	
50	QPSK	270	0	22.34	22.43	22.36	23.0	1.0	
50	16QAM	1	1	22.61	22.70	22.60	23.0	1.0	
50	64QAM	1	1	21.27	21.33	21.27	21.5	2.5	
50	256QAM	1	1	18.56	18.66	18.57	19.5	4.5	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.54	23.65	23.49	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.58	23.63	23.49	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.59	23.62	23.45	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.55	23.61	23.43	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.46	23.52	23.34	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.42	23.50	23.33	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.45	23.51	23.36	24.0	0.0	



n7 Ant2 Full Power										
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										
Frequency (MHz)										
50	PI2 BPSK	1	1	22.69	22.86	22.69	24.0	0.0		
50	PI2 BPSK	1	135	22.84	22.84	22.84				
50	PI2 BPSK	1	268	22.71	22.83	22.71				
50	PI2 BPSK	135	0	22.52	22.70	22.52	23.5	0.5		
50	PI2 BPSK	135	68	22.64	22.81	22.64	24.0	0.0		
50	PI2 BPSK	135	135	22.67	22.84	22.67	23.5	0.5		
50	PI2 BPSK	270	0	22.68	22.73	22.69				
50	QPSK	1	1	22.80	22.98	22.80	24.0	0.0		
50	QPSK	1	135	22.72	22.81	22.72				
50	QPSK	1	268	22.79	22.82	22.79				
50	QPSK	135	0	22.11	22.21	22.11	23.0	1.0		
50	QPSK	135	68	22.82	22.95	22.82	24.0	0.0		
50	QPSK	135	135	22.22	22.33	22.22	23.0	1.0		
50	QPSK	270	0	22.24	22.25	22.24				
50	16QAM	1	1	20.51	20.51	20.51	23.0	1.0		
50	64QAM	1	1	20.50	20.77	20.50	21.5	2.5		
50	256QAM	1	1	18.03	18.09	18.03	19.5	4.5		
Channel										
Frequency (MHz)										
40	QPSK	1	1	22.86	22.71	22.63	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	22.66	22.66	22.59	24.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	22.87	22.89	22.82	24.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	22.61	22.59	22.62	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.54	22.75	22.60	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.50	22.85	22.67	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.53	22.82	22.60	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.58	22.76	22.50	24.0	0.0		

n66 Ant1 Full Power										
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										
Frequency (MHz)										
40	PI2 BPSK	1	1	23.05	23.11	23.04	24.0	0.0		
40	PI2 BPSK	1	108	23.06	23.17	23.08				
40	PI2 BPSK	1	216	23.16	23.24	23.18				
40	PI2 BPSK	108	0	22.53	22.61	22.55	23.5	0.5		
40	PI2 BPSK	108	54	22.99	23.07	22.99	24.0	0.0		
40	PI2 BPSK	108	108	22.68	22.77	22.69	23.5	0.5		
40	PI2 BPSK	216	0	22.50	22.59	22.52				
40	QPSK	1	1	23.08	23.30	23.21	24.0	0.0		
40	QPSK	1	108	23.02	23.12	23.05				
40	QPSK	1	216	23.09	23.20	23.15				
40	QPSK	108	0	22.04	22.12	22.08	23.0	1.0		
40	QPSK	108	54	23.12	23.21	23.14	24.0	0.0		
40	QPSK	108	108	22.24	22.34	22.25	23.0	1.0		
40	QPSK	216	0	22.02	22.10	22.02				
40	16QAM	1	1	21.80	21.99	21.90	23.0	1.0		
40	64QAM	1	1	20.78	20.91	20.84	21.5	2.5		
40	256QAM	1	1	18.39	18.48	18.40	19.5	4.5		
Channel										
Frequency (MHz)										
30	QPSK	1	1	23.00	23.20	23.14	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.96	23.22	23.13	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.87	23.13	23.05	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.87	23.11	23.05	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.89	23.12	23.05	24.0	0.0		

n66 Ant2 Full Power										
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										
Frequency (MHz)										
40	PI2 BPSK	1	1	21.97	22.05	21.98	23.0	0.0		
40	PI2 BPSK	1	108	22.03	22.08	22.10				
40	PI2 BPSK	1	216	21.98	22.07	21.98				
40	PI2 BPSK	108	0	20.81	20.98	20.83	22.5	0.5		
40	PI2 BPSK	108	54	22.04	22.07	22.13	23.0	0.0		
40	PI2 BPSK	108	108	20.72	20.85	20.68	22.5	0.5		
40	PI2 BPSK	216	0	20.72	20.83	20.82				
40	QPSK	1	1	22.09	22.28	22.15	23.0	0.0		
40	QPSK	1	108	22.09	22.01	21.92				
40	QPSK	1	216	22.05	22.04	22.05				
40	QPSK	108	0	20.65	20.84	20.72	22.0	1.0		
40	QPSK	108	54	22.02	22.14	21.94	23.0	0.0		
40	QPSK	108	108	20.17	20.22	20.22	22.0	1.0		
40	QPSK	216	0	20.09	20.11	20.10				
40	16QAM	1	1	20.17	20.01	20.13	22.0	1.0		
40	64QAM	1	1	18.74	18.87	18.74	20.5	2.5		
40	256QAM	1	1	16.53	16.62	16.65	18.5	4.5		
Channel										
Frequency (MHz)										
30	QPSK	1	1	21.96	22.05	22.17	23.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.15	21.98	22.21	23.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.02	22.19	21.95	23.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	21.84	22.21	22.14	23.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.12	22.17	22.05	23.0	0.0		

18.09



n38 Ant1 Full 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				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	Pl/2 BPSK	1	1	23.54	23.65	23.55		
40	Pl/2 BPSK	1	53	23.54	23.61	23.52	24.0	0.0
40	Pl/2 BPSK	1	104	23.43	23.54	23.47		
40	Pl/2 BPSK	50	0	23.00	23.06	22.98	23.5	0.5
40	Pl/2 BPSK	50	28	23.43	23.50	23.42	24.0	0.0
40	Pl/2 BPSK	50	56	22.87	22.95	22.87		
40	Pl/2 BPSK	100	0	22.93	22.99	22.93	23.5	0.5
40	QPSK	1	1	23.65	23.75	23.74		
40	QPSK	1	53	23.44	23.54	23.43	24.0	0.0
40	QPSK	1	104	23.45	23.53	23.43		
40	QPSK	50	0	22.54	22.62	22.51	23.0	1.0
40	QPSK	50	28	23.49	23.55	23.45	24.0	0.0
40	QPSK	50	56	22.42	22.52	22.45		
40	QPSK	100	0	22.53	22.59	22.53	23.0	1.0
40	16QAM	1	1	22.54	22.62	22.56	23.0	1.0
40	64QAM	1	1	21.29	21.40	21.33	21.5	2.5
40	256QAM	1	1	18.80	18.95	18.89	19.5	4.5
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	23.59	23.60	23.63	24.0	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	23.53	23.56	23.63	24.0	0.0

n38 Ant2 Full 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				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	Pl/2 BPSK	1	1	22.59	22.61	22.60		
40	Pl/2 BPSK	1	53	22.37	22.55	22.51	24.0	0.0
40	Pl/2 BPSK	1	104	22.43	22.45	22.39		
40	Pl/2 BPSK	50	0	22.03	22.04	21.93	23.5	0.5
40	Pl/2 BPSK	50	28	22.35	22.53	22.51	24.0	0.0
40	Pl/2 BPSK	50	56	21.95	22.02	22.02		
40	Pl/2 BPSK	100	0	21.81	21.98	21.87	23.5	0.5
40	QPSK	1	1	22.54	22.69	22.54		
40	QPSK	1	53	22.45	22.58	22.39	24.0	0.0
40	QPSK	1	104	22.34	22.53	22.39		
40	QPSK	50	0	21.56	21.60	21.41	23.0	1.0
40	QPSK	50	28	22.37	22.50	22.36	24.0	0.0
40	QPSK	50	56	21.44	21.50	21.35		
40	QPSK	100	0	21.35	21.49	21.32	23.0	1.0
40	16QAM	1	1	21.70	21.84	21.68	23.0	1.0
40	64QAM	1	1	20.22	20.25	20.16	21.5	2.5
40	256QAM	1	1	17.64	17.87	17.80	19.5	4.5
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	22.43	22.37	22.37	24.0	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	22.25	22.36	22.43	24.0	0.0



Part 270 n77 Ant4 Full 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				656000				
Frequency (MHz)				3540				
100	PI/2 BPSK	1	1	22.64			24.0	0.0
100	PI/2 BPSK	1	137	22.65				
100	PI/2 BPSK	1	271	22.57				
100	PI/2 BPSK	135	0	22.11			23.5	0.5
100	PI/2 BPSK	135	69	22.58			24.0	0.0
100	PI/2 BPSK	135	138	22.06				
100	PI/2 BPSK	270	0	22.05			23.5	0.5
100	QPSK	1	1	22.69				
100	QPSK	1	137	22.66			24.0	0.0
100	QPSK	1	271	22.68				
100	QPSK	135	0	21.66			23.0	1.0
100	QPSK	135	69	22.53			24.0	0.0
100	QPSK	135	138	21.56			23.0	1.0
100	QPSK	270	0	21.57				
100	16QAM	1	1	21.52			23.0	1.0
100	64QAM	1	1	20.09			21.5	2.5
100	256QAM	1	1	18.22			19.5	4.5
Channel				649668	656000	662334		
Frequency (MHz)				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	22.39	22.46	22.41	24.0	0.0
Channel				648334	656000	662668		
Frequency (MHz)				3740.01	3840	3940.02	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.21	22.43	22.25	24.0	0.0
Channel				648000	656000	663000		
Frequency (MHz)				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.34	22.29	22.39	24.0	0.0
Channel				648668	656000	663334		
Frequency (MHz)				3730.02	3840	3950.01	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.33	22.46	22.27	24.0	0.0
Channel				648334	656000	663668		
Frequency (MHz)				3725.01	3840	3955.02	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.38	22.35	22.40	24.0	0.0
Channel				648000	656000	664000		
Frequency (MHz)				3720	3840	3950	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	22.21	22.37	22.32	24.0	0.0
Channel				647668	656000	664334		
Frequency (MHz)				3715.02	3840	3965.01	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.38	22.39	22.23	24.0	0.0
Channel				647334	656000	664668		
Frequency (MHz)				3710.01	3840	3970.02	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.32	22.41	22.33	24.0	0.0

Part27Q n77 Ant4 Full 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				
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1	22.64			24.0	0.0
100	PI/2 BPSK	1	137	22.77				
100	PI/2 BPSK	1	271	22.72				
100	PI/2 BPSK	135	0	22.16			23.5	0.5
100	PI/2 BPSK	135	69	22.75			24.0	0.0
100	PI/2 BPSK	135	138	22.34				
100	PI/2 BPSK	270	0	22.28			23.5	0.5
100	QPSK	1	1	22.79				
100	QPSK	1	137	22.78			24.0	0.0
100	QPSK	1	271	22.69				
100	QPSK	135	0	21.76			23.0	1.0
100	QPSK	135	69	22.75			24.0	0.0
100	QPSK	135	138	21.83			23.0	1.0
100	QPSK	270	0	21.84				
100	16QAM	1	1	21.63			23.0	1.0
100	64QAM	1	1	20.12			21.5	2.5
100	256QAM	1	1	18.47			19.5	4.5
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	22.58	22.61	22.70	24.0	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.57	22.42	22.58	24.0	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.68	22.58	22.62	24.0	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.45	22.59	22.51	24.0	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.48	22.42	22.55	24.0	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	22.55	22.45	22.60	24.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.57	22.52	22.52	24.0	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.42	22.60	22.68	24.0	0.0



Part 270 n78 Ant4 Full 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				
100	PI/2 BPSK	1	1	23.17			24.0	0.0
100	PI/2 BPSK	1	137	23.29				
100	PI/2 BPSK	1	271	23.21				
100	PI/2 BPSK	135	0	22.66		23.5		
100	PI/2 BPSK	135	69	23.20		24.0		
100	PI/2 BPSK	135	138	22.65		23.5		
100	PI/2 BPSK	270	0	22.66				
100	QPSK	1	1	23.36				
100	QPSK	1	137	23.34				
100	QPSK	1	271	23.33				
100	QPSK	135	0	22.22		23.0		
100	QPSK	135	69	23.21		24.0		
100	QPSK	135	138	22.13		23.0		
100	QPSK	270	0	22.28				
100	16QAM	1	1	22.10		23.0		
100	64QAM	1	1	20.68		21.5		
100	256QAM	1	1	18.72		19.5		
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	23.16	23.24	23.18	24.0	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	23.20	23.21	23.26	24.0	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	23.18	23.22	23.30	24.0	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	23.07	23.11	23.20	24.0	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	23.22	23.10	23.16	24.0	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	23.08	23.24	23.23	24.0	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	23.16	23.08	23.15	24.0	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	23.20	23.01	23.26	24.0	0.0

Part27Q n78 Ant4 Full 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				
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1	23.08			24.0	0.0
100	PI/2 BPSK	1	137	23.34				
100	PI/2 BPSK	1	271	23.21				
100	PI/2 BPSK	135	0	22.70		23.5		
100	PI/2 BPSK	135	69	23.28		24.0		
100	PI/2 BPSK	135	138	22.84		23.5		
100	PI/2 BPSK	270	0	22.79				
100	QPSK	1	1	23.49				
100	QPSK	1	137	23.41				
100	QPSK	1	271	23.34				
100	QPSK	135	0	22.19		23.0		
100	QPSK	135	69	23.35		24.0		
100	QPSK	135	138	22.41		23.0		
100	QPSK	270	0	22.34				
100	16QAM	1	1	21.36		23.0		
100	64QAM	1	1	20.85		21.5		
100	256QAM	1	1	18.38		19.5		
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	23.16	23.11	23.28	24.0	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	23.08	23.28	23.15	24.0	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	23.21	23.33	23.09	24.0	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	23.17	23.18	23.22	24.0	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	23.18	23.25	23.09	24.0	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	23.19	23.14	23.39	24.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	23.25	23.17	23.33	24.0	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	23.16	23.22	23.12	24.0	0.0



Reduced Power Mode for 5G NR

n5 Ant1 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F (Freq)	Power Middle Ch. F (Freq)	Power High Ch. F (Freq)	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	Pl2 BPSK	1	1	23.30	23.40	23.32			
20	Pl2 BPSK	1	53	23.28	23.38	23.30	24.0	0.0	
20	Pl2 BPSK	1	104	23.09	23.14	23.03			
20	Pl2 BPSK	50	0	22.50	22.58	22.52	23.5	0.5	
20	Pl2 BPSK	50	28	23.04	23.11	23.05	24.0	0.0	
20	Pl2 BPSK	50	56	21.52	21.61	21.54			
20	Pl2 BPSK	100	0	22.51	22.57	22.51	23.5	0.5	
20	QPSK	1	1	23.38	23.42	23.33			
20	QPSK	1	53	23.16	23.23	23.17	24.0	0.0	
20	QPSK	1	104	22.99	23.05	22.96			
20	QPSK	50	0	22.09	22.14	22.05	23.0	1.0	
20	QPSK	50	28	23.12	23.19	23.11	24.0	0.0	
20	QPSK	50	56	21.87	21.94	21.84			
20	QPSK	100	0	22.00	22.07	21.97	23.0	1.0	
20	16QAM	1	1	22.10	22.17	22.08	23.0	1.0	
20	64QAM	1	1	20.63	20.70	20.61	21.5	2.5	
20	256QAM	1	1	18.41	18.48	18.41	19.5	4.5	
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	23.27	23.37	23.29	24.0	0.0	
Channel				169300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				839	836.5	844			
10	QPSK	1	1	23.30	23.33	23.26	24.0	0.0	
Channel				169300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				836.5	836.5	846.5			
5	QPSK	1	1	23.28	23.34	23.27	24.0	0.0	

n5 Ant2 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F (Freq)	Power Middle Ch. F (Freq)	Power High Ch. F (Freq)	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	Pl2 BPSK	1	1	21.91	21.95	21.89			
20	Pl2 BPSK	1	53	21.81	21.85	21.80	23.4	0.0	
20	Pl2 BPSK	1	104	21.90	21.94	21.88			
20	Pl2 BPSK	50	0	21.62	21.67	21.62	23.4	0.0	
20	Pl2 BPSK	50	28	21.96	21.98	21.95	23.4	0.0	
20	Pl2 BPSK	50	56	21.61	21.65	21.65			
20	Pl2 BPSK	100	0	21.63	21.67	21.54	23.4	0.0	
20	QPSK	1	1	22.02	22.04	21.97			
20	QPSK	1	53	21.91	21.85	21.92	23.4	0.0	
20	QPSK	1	104	21.80	21.73	21.83			
20	QPSK	50	0	21.49	21.57	21.58	23.0	0.4	
20	QPSK	50	28	21.86	21.92	21.91	23.4	0.0	
20	QPSK	50	56	21.83	21.80	21.91			
20	QPSK	100	0	21.62	21.77	21.63	23.0	0.4	
20	16QAM	1	1	21.86	21.79	21.82	23.0	0.4	
20	64QAM	1	1	20.33	20.27	20.39	21.5	1.9	
20	256QAM	1	1	18.22	18.25	18.31	19.5	3.9	
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	21.93	21.81	21.86	23.4	0.0	
Channel				169300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				839	836.5	844			
10	QPSK	1	1	21.90	21.83	21.88	23.4	0.0	
Channel				169300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				836.5	836.5	846.5			
5	QPSK	1	1	21.84	21.81	21.91	23.4	0.0	

n5 Ant2 DS12 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F (Freq)	Power Middle Ch. F (Freq)	Power High Ch. F (Freq)	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	Pl2 BPSK	1	1	20.13	20.15	20.13			
20	Pl2 BPSK	1	53	19.90	19.94	19.92	22.1	0.0	
20	Pl2 BPSK	1	104	19.79	19.81	19.78			
20	Pl2 BPSK	50	0	20.08	20.09	20.04	22.1	0.0	
20	Pl2 BPSK	50	28	19.96	19.98	19.95	22.1	0.0	
20	Pl2 BPSK	50	56	19.76	19.83	19.77			
20	Pl2 BPSK	100	0	19.98	20.01	19.97	22.1	0.0	
20	QPSK	1	1	20.13	20.24	20.13			
20	QPSK	1	53	19.92	20.16	20.10	22.1	0.0	
20	QPSK	1	104	19.76	19.88	19.86			
20	QPSK	50	0	20.04	20.01	19.97	22.1	0.0	
20	QPSK	50	28	20.01	20.11	20.08	22.1	0.0	
20	QPSK	50	56	19.77	19.86	19.82			
20	QPSK	100	0	19.97	19.95	19.95	22.1	0.0	
20	16QAM	1	1	20.09	20.12	20.11	22.1	0.0	
20	64QAM	1	1	19.87	19.85	19.85	21.5	0.6	
20	256QAM	1	1	17.71	17.98	17.79	19.5	2.6	
Channel				20	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				20.1	836.5	841.5			
15	QPSK	1	1	20.10	20.23	20.11	22.1	0.0	
Channel				20	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				839	836.5	844			
10	QPSK	1	1	20.11	20.19	20.11	22.1	0.0	
Channel				20	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				836.5	836.5	846.5			
5	QPSK	1	1	20.10	20.19	20.09	22.1	0.0	



n7 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										
Frequency (MHz)										
50	PI2 BPSK	1	1	23.45	23.56	23.46				
50	PI2 BPSK	1	135	23.28	23.35	23.30	24.0	0.0		
50	PI2 BPSK	1	268	23.27	23.38	23.33				
50	PI2 BPSK	135	0	22.83	22.91	22.84	24.0	0.0		
50	PI2 BPSK	135	88	22.74	22.39	22.26	24.0	0.0		
50	PI2 BPSK	135	135	22.83	22.84	22.84	24.0	0.0		
50	PI2 BPSK	270	0	22.78	22.87	22.81				
50	QPSK	1	1	23.65	23.72	23.58				
50	QPSK	1	135	23.44	23.81	23.44	24.0	0.0		
50	QPSK	1	268	23.44	23.54	23.47				
50	QPSK	135	0	22.34	22.41	22.33	23.0	1.0		
50	QPSK	135	88	23.31	23.41	23.32	24.0	0.0		
50	QPSK	135	135	22.42	22.47	22.38	23.0	1.0		
50	QPSK	270	0	22.34	22.43	22.35				
50	16QAM	1	1	22.61	22.70	22.60	24.0	0.0		
50	64QAM	1	1	21.27	21.33	21.27	24.0	0.0		
50	256QAM	1	1	18.56	18.66	18.57	24.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	23.54	23.65	23.40	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	23.58	23.63	23.49	24.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	23.59	23.62	23.45	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	23.55	23.61	23.43	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	23.43	23.52	23.34	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.42	23.50	23.33	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	23.45	23.51	23.38	24.0	0.0		

n7 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										
Frequency (MHz)										
50	PI2 BPSK	1	1	19.70	19.71	19.70				
50	PI2 BPSK	1	135	19.67	19.69	19.62	21.0	0.0		
50	PI2 BPSK	1	268	19.60	19.66	19.60				
50	PI2 BPSK	135	0	19.46	19.51	19.44	21.0	0.0		
50	PI2 BPSK	135	88	19.65	19.66	19.62	21.0	0.0		
50	PI2 BPSK	135	135	19.61	19.66	19.63				
50	PI2 BPSK	270	0	19.54	19.61	19.57	21.0	0.0		
50	QPSK	1	1	19.69	19.72	19.70				
50	QPSK	1	135	19.61	19.68	19.64	21.0	0.0		
50	QPSK	1	268	19.54	19.61	19.55				
50	QPSK	135	0	19.61	19.62	19.61	21.0	0.0		
50	QPSK	135	88	19.60	19.63	19.58	21.0	0.0		
50	QPSK	135	135	19.61	19.63	19.61	21.0	0.0		
50	QPSK	270	0	19.56	19.62	19.59	21.0	0.0		
50	16QAM	1	1	19.51	19.55	19.50	21.0	0.0		
50	64QAM	1	1	19.64	19.68	19.64	21.0	0.0		
50	256QAM	1	1	18.58	18.64	18.61	19.5	1.5		
Channel										
Frequency (MHz)										
40	QPSK	1	1	19.63	19.63	19.62	21.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.65	19.66	19.62	21.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	19.61	19.68	19.65	21.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.59	19.68	19.64	21.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	19.60	19.62	19.65	21.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	19.61	19.64	19.64	21.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	19.61	19.66	19.63	21.0	0.0		

n7 Ant 2 DSI2 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
50	PI2 BPSK	1	1	18.16	18.16	18.16				
50	PI2 BPSK	1	135	18.18	18.16	18.08	19.7	0.0		
50	PI2 BPSK	1	268	18.15	18.16	18.13				
50	PI2 BPSK	135	0	17.94	17.97	17.89	19.7	0.0		
50	PI2 BPSK	135	88	18.12	18.12	18.15	19.7	0.0		
50	PI2 BPSK	135	135	18.12	18.16	18.11	19.7	0.0		
50	PI2 BPSK	270	0	18.08	18.08	18.08				
50	QPSK	1	1	18.15	18.38	18.12				
50	QPSK	1	135	18.09	18.11	18.17	19.7	0.0		
50	QPSK	1	268	18.04	18.08	18.10				
50	QPSK	135	0	18.11	18.15	18.09	19.7	0.0		
50	QPSK	135	88	18.12	18.27	18.04	19.7	0.0		
50	QPSK	135	135	18.16	18.03	18.12	19.7	0.0		
50	QPSK	270	0	18.07	18.12	18.04				
50	16QAM	1	1	18.06	18.07	17.97	19.7	0.0		
50	64QAM	1	1	18.11	18.15	18.13	19.7	0.0		
50	256QAM	1	1	17.85	18.01	17.99	19.5	0.2		
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.07	18.31	18.06	19.7	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.07	18.33	18.07	19.7	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	18.08	18.30	18.07	19.7	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.10	18.29	18.08	19.7	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.09	18.32	18.05	19.7	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.09	18.32	18.05	19.7	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	18.06	18.30	18.02	19.7	0.0		



n66 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)				346000	349000	352000				
1730 1745 1760										
40	PV2 BPSK	1	1	23.05	23.11	23.04	24.0	0.0		
40	PV2 BPSK	1	108	23.09	23.17	23.08				
40	PV2 BPSK	1	214	23.16	23.24	23.18				
40	PV2 BPSK	108	0	22.53	22.61	22.55	24.0	0.0		
40	PV2 BPSK	108	54	22.59	22.67	22.59				
40	PV2 BPSK	108	108	22.66	22.77	22.69				
40	PV2 BPSK	216	0	22.50	22.59	22.52	24.0	0.0		
40	QPSK	1	1	23.08	23.30	23.21				
40	QPSK	1	108	23.02	23.12	23.05				
40	QPSK	1	214	23.09	23.20	23.15				
40	QPSK	108	0	22.84	22.12	22.06	24.0	0.0		
40	QPSK	108	54	23.12	23.21	23.14				
40	QPSK	108	108	22.24	22.34	22.25				
40	QPSK	216	0	22.02	22.10	22.02	24.0	0.0		
40	16QAM	1	1	21.90	21.99	21.90	24.0	0.0		
40	16QAM	1	1	20.78	20.91	20.84	24.0	0.0		
40	256QAM	1	1	18.39	18.48	18.40	24.0	0.0		
Channel										
Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)		
1725 1745 1765										
30	QPSK	1	1	23.00	23.20	23.14	24.0	0.0		
Channel										
Frequency (MHz)				345000	349000	352000	Tune-up limit (dBm)	MPR (dB)		
1720 1745 1770										
20	QPSK	1	1	22.96	23.22	23.13	24.0	0.0		
Channel										
Frequency (MHz)				345000	349000	352000	Tune-up limit (dBm)	MPR (dB)		
1720 1745 1770										
15	QPSK	1	1	22.87	23.13	23.05	5.9	0.0		
Channel										
Frequency (MHz)				349000	349000	350000	Tune-up limit (dBm)	MPR (dB)		
1715 1745 1715										
10	QPSK	1	1	22.87	23.11	23.05	5.9	0.0		
Channel										
Frequency (MHz)				342000	349000	350000	Tune-up limit (dBm)	MPR (dB)		
1712.5 1745 1777.5										
5	QPSK	1	1	22.89	23.12	23.05	5.9	0.0		

n66 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)				346000	349000	352000				
1730 1745 1760										
40	PV2 BPSK	1	1	19.28	19.29	19.23				
40	PV2 BPSK	1	108	19.29	19.32	19.30	20.3	0.0		
40	PV2 BPSK	1	214	19.34	19.36	19.30				
40	PV2 BPSK	108	0	19.31	19.34	19.29	20.3	0.0		
40	PV2 BPSK	108	54	19.34	19.35	19.29				
40	PV2 BPSK	108	108	19.26	19.31	19.24				
40	PV2 BPSK	216	0	19.31	19.37	19.33	20.3	0.0		
40	QPSK	1	1	19.47	19.51	19.43				
40	QPSK	1	108	19.47	19.57	19.53				
40	QPSK	1	214	19.41	19.35	19.43				
40	QPSK	108	0	19.33	19.39	19.35	20.3	0.0		
40	QPSK	108	54	19.44	19.49	19.39				
40	QPSK	108	108	19.42	19.37	19.43				
40	QPSK	216	0	19.24	19.30	19.23	20.3	0.0		
40	16QAM	1	1	19.23	19.23	19.25	20.3	0.0		
40	16QAM	1	1	19.28	19.34	19.22	20.3	0.0		
40	256QAM	1	1	17.09	17.63	17.61	19.0	1.3		
Channel										
Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)		
1725 1745 1765										
30	QPSK	1	1	19.24	19.38	19.31	20.3	0.0		
Channel										
Frequency (MHz)				345000	349000	352000	Tune-up limit (dBm)	MPR (dB)		
1720 1745 1770										
20	QPSK	1	1	19.27	19.28	19.29	20.3	0.0		
Channel										
Frequency (MHz)				345000	349000	352000	Tune-up limit (dBm)	MPR (dB)		
1717.5 1745 1772.5										
15	QPSK	1	1	19.34	19.32	19.34	20.3	0.0		
Channel										
Frequency (MHz)				349000	349000	350000	Tune-up limit (dBm)	MPR (dB)		
1715 1745 1715										
10	QPSK	1	1	19.29	19.25	19.26	20.3	0.0		
Channel										
Frequency (MHz)				342000	349000	350000	Tune-up limit (dBm)	MPR (dB)		
1712.5 1745 1777.5										
5	QPSK	1	1	19.31	19.33	19.33	20.3	0.0		

n66 Ant2 DS12 Simultaneous										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq]	Power Middle Ch. [Freq]	Power High Ch. [Freq]	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				346000	349000	352000				
1730 1745 1760										
40	PV2 BPSK	1	1	18.24	18.34	18.27				
40	PV2 BPSK	1	108	18.16	18.25	18.18	19.0	0.0		
40	PV2 BPSK	1	214	18.28	18.35	18.29				
40	PV2 BPSK	108	0	18.17	18.25	18.21	19.0	0.0		
40	PV2 BPSK	108	54	18.17	18.25	18.19				
40	PV2 BPSK	108	108	18.30	18.40	18.35				
40	PV2 BPSK	216	0	18.30	18.36	18.31	19.0	0.0		
40	QPSK	1	1	18.42	18.51	18.41				
40	QPSK	1	108	18.24	18.32	18.26				
40	QPSK	1	214	18.31	18.38	18.30				
40	QPSK	108	0	18.21	18.29	18.25	19.0	0.0		
40	QPSK	108	54	18.38	18.44	18.41				
40	QPSK	108	108	18.39	18.36	18.36				
40	QPSK	216	0	18.32	18.38	18.30	19.0	0.0		
40	16QAM	1	1	18.13	18.19	18.09	19.0	0.0		
40	16QAM	1	1	18.31	18.39	18.34	19.0	0.0		
40	256QAM	1	1	17.70	17.76	17.70	19.0	0.0		
Channel										
Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)		
1725 1745 1765										
30	QPSK	1	1	18.38	18.46	18.35	19.0	0.0		
Channel										
Frequency (MHz)				345000	349000	352000	Tune-up limit (dBm)	MPR (dB)		
1720 1745 1770										
20	QPSK	1	1	18.37	18.44	18.36	19.0	0.0		
Channel										
Frequency (MHz)				345000	349000	352000	Tune-up limit (dBm)	MPR (dB)		
1717.5 1745 1772.5										
15	QPSK	1	1	18.33	18.41	18.38	19.0	0.0		
Channel										
Frequency (MHz)				349000	349000	350000	Tune-up limit (dBm)	MPR (dB)		
1715 1745 1715										
10	QPSK	1	1	18.33	18.42	18.39	19.0	0.0		
Channel										
Frequency (MHz)				342000	349000	350000	Tune-up limit (dBm)	MPR (dB)		
1712.5 1745 1777.5										
5	QPSK	1	1	18.33	18.44	18.33	19.0	0.0		



n38 Ant1 DS12									
BV (MHz)	Modulation	RF Size	RF Offset	Power Low Ch. (Freq.)	Power Middle Ch. (Freq.)	Power High Ch. (Freq.)	Turn-up time (dB)	MPE (dB)	
Channel									
Frequency (MHz)				51602	51600	51608			
40	Pro DS12	1	1	23.24	23.25	23.26	24.0	0.0	
40	Pro DS12	1	30	23.24	23.25	23.26	24.0	0.0	
40	Pro DS12	1	104	23.43	23.54	23.47			
40	Pro DS12	0	0	23.25	23.26	23.27	23.0	0.0	
40	Pro DS12	50	26	23.23	23.25	23.27	23.0	0.0	
40	Pro DS12	100	0	23.25	23.26	23.27	23.0	0.0	
40	DS12	1	1	23.26	23.25	23.24			
40	DS12	1	30	23.24	23.24	23.24	24.0	0.0	
40	DS12	1	104	23.45	23.53	23.43			
40	DS12	0	0	23.24	23.25	23.25	23.0	0.0	
40	DS12	50	26	23.49	23.55	23.45	24.0	0.0	
40	DS12	100	0	23.23	23.23	23.23	23.0	0.0	
40	DS12	1	1	23.24	23.25	23.26	23.0	0.0	
40	DS12	1	1	21.42	21.42	21.42	21.5	2.5	
40	DS12	1	1	18.40	18.40	18.40	18.5	0.0	
Channel									
Frequency (MHz)				51702	51600	51608	Turn-up time (dB)	MPE (dB)	
30	DS12	1	1	21.50	21.48	21.50	23.0	0.0	
Channel									
Frequency (MHz)				51800	51600	52000	Turn-up time (dB)	MPE (dB)	
20	DS12	1	1	21.53	21.56	21.55	24.0	0.0	

n38 Ant2 DS12									
BV (MHz)	Modulation	RF Size	RF Offset	Power Low Ch. (Freq.)	Power Middle Ch. (Freq.)	Power High Ch. (Freq.)	Turn-up time (dB)	MPE (dB)	
Channel									
Frequency (MHz)				51602	51600	51608			
40	Pro DS12	1	1	19.44	19.34	19.40			
40	Pro DS12	1	30	19.46	19.40	19.41	20.2	0.0	
40	Pro DS12	1	104	19.44	19.38	19.44			
40	Pro DS12	0	0	19.24	19.26	19.25	20.2	0.0	
40	Pro DS12	50	26	19.54	19.42	19.37	20.2	0.0	
40	Pro DS12	100	0	19.36	19.36	19.36	20.2	0.0	
40	DS12	1	1	19.46	19.35	19.41			
40	DS12	1	104	19.48	19.50	19.40	20.2	0.0	
40	DS12	0	0	19.24	19.26	19.27	20.2	0.0	
40	DS12	50	26	19.43	19.44	19.36	20.2	0.0	
40	DS12	100	0	19.41	19.23	19.40			
40	DS12	100	0	19.30	19.41	19.30	20.0	0.0	
40	DS12	1	1	19.27	19.26	19.27	20.0	0.0	
40	DS12	1	1	19.42	19.24	19.29	20.2	0.0	
40	DS12	1	1	19.40	19.40	19.40	19.0	0.0	
Channel									
Frequency (MHz)				51702	51600	52000	Turn-up time (dB)	MPE (dB)	
30	DS12	1	1	19.43	19.40	19.51	20.0	0.0	
Channel									
Frequency (MHz)				51800	51600	52000	Turn-up time (dB)	MPE (dB)	
20	DS12	1	1	19.40	19.40	19.37	20.0	0.0	

n38 Ant2 DS12 Simultaneous									
BV (MHz)	Modulation	RF Size	RF Offset	Power Low Ch. (Freq.)	Power Middle Ch. (Freq.)	Power High Ch. (Freq.)	Turn-up time (dB)	MPE (dB)	
Channel									
Frequency (MHz)				51602	51600	51608			
40	Pro DS12	1	1	17.28	17.28	17.28			
40	Pro DS12	1	30	17.30	17.28	17.28	18.0	0.0	
40	Pro DS12	1	104	17.30	17.28	17.31			
40	Pro DS12	0	0	17.20	17.28	17.28	18.0	0.0	
40	Pro DS12	50	26	17.29	17.28	17.31	18.0	0.0	
40	Pro DS12	100	0	17.28	17.28	17.28	18.0	0.0	
40	DS12	1	1	17.28	17.28	17.28			
40	DS12	1	30	17.29	17.28	17.28	18.0	0.0	
40	DS12	1	104	17.29	17.28	17.30			
40	DS12	0	0	17.20	17.28	17.28	18.0	0.0	
40	DS12	50	26	17.24	17.28	17.29	18.0	0.0	
40	DS12	100	0	17.27	17.27	17.24			
40	DS12	100	0	17.25	17.28	17.25	18.0	0.0	
40	DS12	1	1	17.30	17.24	17.25	18.0	0.0	
40	DS12	1	1	17.24	17.28	17.28	18.0	0.0	
40	DS12	1	1	17.20	17.28	17.24	18.0	0.0	
Channel									
Frequency (MHz)				51702	51600	52000	Turn-up time (dB)	MPE (dB)	
30	DS12	1	1	17.02	18.00	17.00	18.0	0.0	
Channel									
Frequency (MHz)				51800	51600	52000	Turn-up time (dB)	MPE (dB)	
20	DS12	1	1	17.85	19.50	17.74	18.0	0.0	



Part 270 n77 Ant4 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac.)	Power Media Ch. (Frac.)	Power High Ch. (Frac.)	Turn-up time (Sec)	MFR (dB)	
Channel									
Frequency (MHz)									
100	P25 BPSK	1	1		15.81				
100	P25 BPSK	1	139		15.82				
100	P25 BPSK	1	271		15.83				
100	P25 BPSK	135	2		15.84			17.6	0.0
100	P25 BPSK	135	38		15.85			17.6	0.0
100	P25 BPSK	135	74		15.86			17.6	0.0
100	P25 BPSK	270	0		15.87			17.6	0.0
100	QPSK	1	1		15.88				
100	QPSK	1	139		15.89				
100	QPSK	1	271		15.90				
100	QPSK	135	2		15.91			17.6	0.0
100	QPSK	135	38		15.92			17.6	0.0
100	QPSK	135	74		15.93			17.6	0.0
100	QPSK	270	0		15.94			17.6	0.0
100	SSB AM	1	1		15.95				
100	SSB AM	1	1		15.96				
Channel									
Frequency (MHz)									
80	QPSK	1	1	80.000	80.000	80.000	Turn-up time (Sec)	MFR (dB)	
80	QPSK	1	1	16.10	16.21	16.15	17.6	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.13	16.25	16.14	17.6	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.11	16.23	16.15	17.6	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.14	16.26	16.13	17.6	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.17	16.29	16.16	17.6	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.20	16.32	16.15	17.6	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.23	16.35	16.22	17.6	0.0	

Part 270 n77 Ant4 DS12 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac.)	Power Media Ch. (Frac.)	Power High Ch. (Frac.)	Turn-up time (Sec)	MFR (dB)	
Channel									
Frequency (MHz)									
100	P25 BPSK	1	1		15.82				
100	P25 BPSK	1	139		15.83			16.3	0.0
100	P25 BPSK	1	271		15.84			16.3	0.0
100	P25 BPSK	135	2		15.85			16.3	0.0
100	P25 BPSK	135	38		15.86			16.3	0.0
100	P25 BPSK	135	74		15.87			16.3	0.0
100	P25 BPSK	270	0		15.88			16.3	0.0
100	QPSK	1	1		15.89				
100	QPSK	1	139		15.90				
100	QPSK	1	271		15.91				
100	QPSK	135	2		15.92			16.3	0.0
100	QPSK	135	38		15.93			16.3	0.0
100	QPSK	135	74		15.94			16.3	0.0
100	QPSK	270	0		15.95			16.3	0.0
100	SSB AM	1	1		15.96				
100	SSB AM	1	1		15.97				
Channel									
Frequency (MHz)									
80	QPSK	1	1	80.000	80.000	80.000	Turn-up time (Sec)	MFR (dB)	
80	QPSK	1	1	16.40	16.43	16.43	16.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.40	16.46	16.43	16.3	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.25	16.45	16.43	16.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.40	16.44	16.38	16.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.43	16.47	16.43	16.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.46	16.49	16.46	16.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.49	16.52	16.50	16.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.52	16.55	16.52	16.3	0.0	

Part270Q n77 Ant4 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac.)	Power Media Ch. (Frac.)	Power High Ch. (Frac.)	Turn-up time (Sec)	MFR (dB)	
Channel									
Frequency (MHz)									
100	P25 BPSK	1	1		16.20				
100	P25 BPSK	1	139		16.21			17.6	0.0
100	P25 BPSK	1	271		16.22			17.6	0.0
100	P25 BPSK	135	2		16.23			17.6	0.0
100	P25 BPSK	135	38		16.24			17.6	0.0
100	P25 BPSK	135	74		16.25			17.6	0.0
100	P25 BPSK	270	0		16.26			17.6	0.0
100	QPSK	1	1		16.27				
100	QPSK	1	139		16.28				
100	QPSK	1	271		16.29				
100	QPSK	135	2		16.30			17.6	0.0
100	QPSK	135	38		16.31			17.6	0.0
100	QPSK	135	74		16.32			17.6	0.0
100	QPSK	270	0		16.33			17.6	0.0
100	SSB AM	1	1		16.34				
100	SSB AM	1	1		16.35				
Channel									
Frequency (MHz)									
80	QPSK	1	1	80.000	80.000	80.000	Turn-up time (Sec)	MFR (dB)	
80	QPSK	1	1	16.30	16.31	16.25	17.6	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.30	16.33	16.25	17.6	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.22	16.33	16.18	17.6	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.30	16.33	16.23	17.6	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.33	16.34	16.25	17.6	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.36	16.37	16.30	17.6	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.39	16.40	16.32	17.6	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.42	16.43	16.35	17.6	0.0	

Part270Q n77 Ant4 DS12 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac.)	Power Media Ch. (Frac.)	Power High Ch. (Frac.)	Turn-up time (Sec)	MFR (dB)	
Channel									
Frequency (MHz)									
100	P25 BPSK	1	1		16.23				
100	P25 BPSK	1	139		16.24			16.3	0.0
100	P25 BPSK	1	271		16.25			16.3	0.0
100	P25 BPSK	135	2		16.26			16.3	0.0
100	P25 BPSK	135	38		16.27			16.3	0.0
100	P25 BPSK	135	74		16.28			16.3	0.0
100	P25 BPSK	270	0		16.29			16.3	0.0
100	QPSK	1	1		16.30				
100	QPSK	1	139		16.31				
100	QPSK	1	271		16.32				
100	QPSK	135	2		16.33			16.3	0.0
100	QPSK	135	38		16.34			16.3	0.0
100	QPSK	135	74		16.35			16.3	0.0
100	QPSK	270	0		16.36			16.3	0.0
100	SSB AM	1	1		16.37				
100	SSB AM	1	1		16.38				
Channel									
Frequency (MHz)									
80	QPSK	1	1	80.000	80.000	80.000	Turn-up time (Sec)	MFR (dB)	
80	QPSK	1	1	16.30	16.32	16.25	17.6	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.30	16.33	16.25	17.6	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.22	16.33	16.18	17.6	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.30	16.34	16.25	17.6	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.33	16.34	16.25	17.6	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.36	16.37	16.30	17.6	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.39	16.40	16.32	17.6	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.42	16.43	16.35	17.6	0.0	



n5 Ant1 DS13 Simultaneous								
BV (MHz)	Modulation	RS Size	RS Offset	Power Low Ch. Freq.	Power Midle Ch. Freq.	Power High Ch. Freq.	Time-up Int. (min)	APR3 (dB)
Channel								
Frequency (MHz)				164	165.5	166		
30	PSK-BPSK	1	1	22.41	22.42	22.43		
30	PSK-BPSK	1	104	22.31	22.32	22.33	13.4	0.0
30	PSK-BPSK	1	104	22.30	22.30	22.30		
30	PSK-BPSK	50	0	22.30	22.34	22.37	23.4	0.1
30	PSK-BPSK	50	28	22.30	22.35	22.35	23.8	0.0
30	PSK-BPSK	50	28	22.30	22.35	22.35		
30	PSK-BPSK	100	0	22.30	22.40	22.50	23.5	0.1
30	QPSK	1	1	22.51	22.51	22.51		
30	QPSK	1	104	22.30	22.30	22.30	23.6	0.0
30	QPSK	1	104	22.30	22.44	22.57		
30	QPSK	50	0	22.31	22.36	22.36	23.0	0.8
30	QPSK	50	28	22.21	22.41	22.28	23.6	0.0
30	QPSK	50	28	22.21	22.41	22.28		
30	QPSK	100	0	22.28	22.31	22.31	23.0	0.8
30	16QAM	1	1	22.01	22.04	22.05	23.0	0.8
30	16QAM	1	1	22.00	22.05	22.07	21.5	2.1
30	16QAM	1	1	18.00	18.09	18.01	19.4	4.1
Channel								
Frequency (MHz)				165.5	167.0	167.5		
15	QPSK	1	1	22.40	22.41	22.42	23.6	0.0
Channel								
Frequency (MHz)				167.0	167.50	168.00		
10	QPSK	1	1	22.44	22.50	22.55	23.6	0.0
Channel								
Frequency (MHz)				167.5	168.0	168.5		
5	QPSK	1	1	22.44	22.57	22.55	23.4	0.0

n5 Ant2 DS13 Simultaneous								
BV (MHz)	Modulation	RS Size	RS Offset	Power Low Ch. Freq.	Power Midle Ch. Freq.	Power High Ch. Freq.	Time-up Int. (min)	APR3 (dB)
Channel								
Frequency (MHz)				164	165.5	166		
30	PSK-BPSK	1	1	22.31	22.31	22.31		
30	PSK-BPSK	1	104	22.40	22.40	22.40	23.7	0.0
30	PSK-BPSK	1	104	22.30	22.30	22.30		
30	PSK-BPSK	50	0	22.31	22.35	22.35	23.6	0.0
30	PSK-BPSK	50	28	22.40	22.51	22.43	23.7	0.0
30	PSK-BPSK	50	28	22.40	22.50	22.50		
30	PSK-BPSK	100	0	22.30	22.35	22.35	23.5	0.2
30	QPSK	1	1	22.50	22.51	22.51		
30	QPSK	1	104	22.42	22.46	22.41	23.7	0.0
30	QPSK	1	104	22.42	22.46	22.41		
30	QPSK	50	0	22.44	22.51	22.46	23.0	0.1
30	QPSK	50	28	22.45	22.50	22.49	23.7	0.0
30	QPSK	50	28	22.30	22.30	22.30		
30	QPSK	100	0	22.37	22.48	22.38	23.0	0.7
30	16QAM	1	1	22.01	22.15	22.05	23.0	0.7
30	16QAM	1	1	22.17	22.20	22.19	21.5	2.2
30	16QAM	1	1	18.00	18.00	18.00	19.4	4.2
Channel								
Frequency (MHz)				165.5	167.0	167.5		
15	QPSK	1	1	22.48	22.50	22.54	23.4	0.0
Channel								
Frequency (MHz)				167.0	167.50	168.00		
10	QPSK	1	1	22.50	22.57	22.55	23.0	0.0
Channel								
Frequency (MHz)				167.5	168.0	168.5		
5	QPSK	1	1	22.48	22.58	22.51	23.4	0.0



n38 Ant1 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (W)	Power High Ch. 1 (W)	Power Low Ch. 2 (W)	Power High Ch. 2 (W)	Turn-up time (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
40	PB2 BPSK	1	1	20.17	20.24	20.18	20.18	21.4	0.0
40	PB2 BPSK	1	53	20.15	20.21	20.18	20.18	21.4	0.0
40	PB2 BPSK	1	104	20.20	20.31	20.25	20.25	21.4	0.0
40	PB2 BPSK	50	0	20.20	20.32	20.22	20.22	21.4	0.0
40	PB2 BPSK	50	26	20.20	20.31	20.25	20.25	21.4	0.0
40	PB2 BPSK	50	56	20.27	20.35	20.28	20.28	21.4	0.0
40	PB2 BPSK	100	0	20.17	20.24	20.18	20.18	21.4	0.0
40	QPSK	1	53	20.17	20.25	20.18	20.18	21.4	0.0
40	QPSK	1	104	20.13	20.32	20.13	20.13	21.4	0.0
40	QPSK	50	0	20.22	20.30	20.23	20.23	21.4	0.0
40	QPSK	50	26	20.22	20.34	20.24	20.24	21.4	0.0
40	QPSK	50	56	20.24	20.32	20.25	20.25	21.4	0.0
40	QPSK	100	0	20.17	20.25	20.17	20.17	21.4	0.0
40	HQAM	1	1	20.20	20.25	20.17	20.17	21.4	0.0
40	HQAM	1	1	18.18	18.90	18.40	18.5	17.6	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.24	20.30	20.24	20.24	21.4	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.20	20.31	20.26	20.26	21.4	0.0

n38 Ant1 DSI3 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (W)	Power High Ch. 1 (W)	Power Low Ch. 2 (W)	Power High Ch. 2 (W)	Turn-up time (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
40	PB2 BPSK	1	1	18.15	18.21	18.15	18.15	17.6	0.0
40	PB2 BPSK	1	53	18.01	18.08	18.01	18.01	17.6	0.0
40	PB2 BPSK	1	104	18.04	18.14	18.05	18.05	17.6	0.0
40	PB2 BPSK	50	0	18.01	18.08	18.01	18.01	17.6	0.0
40	PB2 BPSK	50	26	18.01	18.04	18.01	18.01	17.6	0.0
40	PB2 BPSK	50	56	18.02	18.11	18.02	18.02	17.6	0.0
40	PB2 BPSK	100	0	18.01	18.08	18.01	18.01	17.6	0.0
40	QPSK	1	53	18.08	18.09	18.02	18.02	17.6	0.0
40	QPSK	1	104	18.00	18.14	18.00	18.00	17.6	0.0
40	QPSK	50	0	18.07	18.13	18.05	18.05	17.6	0.0
40	QPSK	50	26	18.11	18.08	18.01	18.01	17.6	0.0
40	QPSK	50	56	18.09	18.08	18.05	18.05	17.6	0.0
40	QPSK	100	0	18.02	18.11	18.01	18.01	17.6	0.0
40	HQAM	1	1	18.02	18.09	18.11	18.11	17.6	0.0
40	HQAM	1	1	18.10	18.14	18.09	18.09	17.6	0.0
40	HQAM	1	1	18.10	18.16	18.14	18.14	17.6	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.12	18.17	18.05	18.05	17.6	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.08	18.16	18.05	18.05	17.6	0.0

n38 Ant2 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (W)	Power High Ch. 1 (W)	Power Low Ch. 2 (W)	Power High Ch. 2 (W)	Turn-up time (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
40	PB2 BPSK	1	1	21.09	21.44	21.05	21.05	22.8	0.0
40	PB2 BPSK	1	53	21.21	21.29	21.19	21.19	22.8	0.0
40	PB2 BPSK	1	104	21.22	21.29	21.21	21.21	22.8	0.0
40	PB2 BPSK	50	0	21.20	21.24	21.20	21.20	22.8	0.0
40	PB2 BPSK	50	26	21.24	21.29	21.21	21.21	22.8	0.0
40	PB2 BPSK	50	56	21.14	21.22	21.14	21.14	22.8	0.0
40	PB2 BPSK	100	0	21.20	21.27	21.20	21.20	22.8	0.0
40	QPSK	1	53	21.27	21.27	21.27	21.27	22.8	0.0
40	QPSK	1	104	21.42	21.29	21.44	21.44	22.8	0.0
40	QPSK	50	0	21.03	21.13	21.08	21.08	22.8	0.0
40	QPSK	50	26	21.14	21.08	21.08	21.08	22.8	0.0
40	QPSK	50	56	21.09	21.18	21.11	21.11	22.8	0.0
40	QPSK	100	0	21.21	21.20	21.20	21.20	22.8	0.0
40	HQAM	1	1	21.10	21.26	21.18	21.18	22.8	0.0
40	HQAM	1	1	19.85	19.85	19.85	19.85	21.5	1.5
40	HQAM	1	1	19.80	19.69	19.69	19.69	19.5	1.5
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.40	21.40	21.39	21.39	22.8	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.40	21.40	21.39	21.39	22.8	0.0

n38 Ant2 DSI3 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (W)	Power High Ch. 1 (W)	Power Low Ch. 2 (W)	Power High Ch. 2 (W)	Turn-up time (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
40	PB2 BPSK	1	1	20.86	20.81	20.83	20.83	22.0	0.0
40	PB2 BPSK	1	53	20.71	20.82	20.84	20.84	22.0	0.0
40	PB2 BPSK	1	104	20.71	20.80	20.85	20.85	22.0	0.0
40	PB2 BPSK	50	0	20.87	20.80	20.83	20.83	22.0	0.0
40	PB2 BPSK	50	26	20.86	20.80	20.86	20.86	22.0	0.0
40	PB2 BPSK	50	56	20.47	20.81	20.84	20.84	22.0	0.0
40	PB2 BPSK	100	0	20.81	20.81	20.86	20.86	22.0	0.0
40	QPSK	1	53	20.77	20.80	20.71	20.71	22.0	0.0
40	QPSK	1	104	20.70	20.81	20.86	20.86	22.0	0.0
40	QPSK	50	0	20.46	20.58	20.52	20.52	22.0	0.0
40	QPSK	50	26	20.56	20.60	20.61	20.61	22.0	0.0
40	QPSK	50	56	20.52	20.54	20.55	20.55	22.0	0.0
40	QPSK	100	0	20.50	20.50	20.53	20.53	22.0	0.0
40	HQAM	1	1	20.77	20.84	20.73	20.73	22.0	0.0
40	HQAM	1	1	20.33	20.40	20.41	20.41	21.5	0.5
40	HQAM	1	1	18.51	18.51	18.11	18.11	18.5	2.5
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.84	20.70	20.83	20.83	22.0	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.71	20.81	20.84	20.84	22.0	0.0



Part 270 n77 Ant4 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 Freq.	Power Med. Ch.1 Freq.	Power High Ch.1 Freq.	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.85					
100	PI2 BPSK	1	137	18.79					
100	PI2 BPSK	1	271	18.73			20.2	0.0	
100	PI2 BPSK	135	0	18.73			20.2	0.0	
100	PI2 BPSK	135	138	18.88			20.2	0.0	
100	PI2 BPSK	270	0	18.77			20.2	0.0	
100	QPSK	1	1	18.85					
100	QPSK	1	137	18.89			20.2	0.0	
100	QPSK	1	271	18.82			20.2	0.0	
100	QPSK	135	0	18.79			20.2	0.0	
100	QPSK	135	138	18.86			20.2	0.0	
100	QPSK	270	0	18.81			20.2	0.0	
100	16QAM	1	1	18.74			20.2	0.0	
100	16QAM	1	1	18.59			20.2	0.0	
100	16QAM	1	1	17.96			15.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	84968	85000	85234	Turn-up time (dBm)	MPR (dB)	
80	QPSK	1	1	1642	18.86	18.51	20.2	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	1843	18.86	18.49	20.2	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	1842	18.84	18.49	20.2	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	1842	18.84	18.51	20.2	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	1843	18.87	18.51	20.2	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	1843	18.87	18.47	20.2	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	1842	18.86	18.52	20.2	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	1843	18.86	18.51	20.2	0.0	

Part 270 n77 Ant4 DSI3 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 Freq.	Power Med. Ch.1 Freq.	Power High Ch.1 Freq.	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.81					
100	PI2 BPSK	1	137	18.79			15.9	0.0	
100	PI2 BPSK	1	271	18.73			15.9	0.0	
100	PI2 BPSK	135	0	18.73			15.9	0.0	
100	PI2 BPSK	135	138	18.84			15.9	0.0	
100	PI2 BPSK	270	0	18.77			15.9	0.0	
100	QPSK	1	1	18.85					
100	QPSK	1	137	18.89			15.9	0.0	
100	QPSK	1	271	18.82			15.9	0.0	
100	QPSK	135	0	18.79			15.9	0.0	
100	QPSK	135	138	18.87			15.9	0.0	
100	QPSK	270	0	18.81			15.9	0.0	
100	16QAM	1	1	18.55			15.9	0.0	
100	16QAM	1	1	18.40			15.9	0.0	
100	16QAM	1	1	18.43			15.9	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	84968	85000	85234	Turn-up time (dBm)	MPR (dB)	
80	QPSK	1	1	1476	14.85	14.50	15.9	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	1479	14.91	14.58	15.9	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	1478	14.91	14.50	15.9	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	1479	14.90	14.50	15.9	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	1479	14.90	14.52	15.9	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	1478	14.89	14.58	15.9	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	1479	14.90	14.58	15.9	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	1478	14.89	14.58	15.9	0.0	

Part270Q n77 Ant4 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 Freq.	Power Med. Ch.1 Freq.	Power High Ch.1 Freq.	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.77					
100	PI2 BPSK	1	137	18.81			20.2	0.0	
100	PI2 BPSK	1	271	18.80			20.2	0.0	
100	PI2 BPSK	135	0	18.82			20.2	0.0	
100	PI2 BPSK	135	138	18.86			20.2	0.0	
100	PI2 BPSK	135	138	18.51			20.2	0.0	
100	PI2 BPSK	270	0	18.87			20.2	0.0	
100	QPSK	1	1	18.85					
100	QPSK	1	137	18.89			20.2	0.0	
100	QPSK	1	271	18.71			20.2	0.0	
100	QPSK	135	0	18.81			20.2	0.0	
100	QPSK	135	138	18.87			20.2	0.0	
100	QPSK	270	0	18.81			20.2	0.0	
100	16QAM	1	1	18.81			20.2	0.0	
100	16QAM	1	1	18.40			20.2	0.0	
100	16QAM	1	1	17.72			15.9	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	84968	85334	85668	Turn-up time (dBm)	MPR (dB)	
80	QPSK	1	1	1841	18.55	18.48	20.2	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	1842	18.63	18.48	20.2	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	1841	18.63	18.52	20.2	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	1842	18.63	18.48	20.2	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	1841	18.63	18.52	20.2	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	1842	18.63	18.48	20.2	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	1841	18.63	18.52	20.2	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	1842	18.63	18.48	20.2	0.0	

Part270Q n77 Ant4 DSI3 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 Freq.	Power Med. Ch.1 Freq.	Power High Ch.1 Freq.	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.77					
100	PI2 BPSK	1	137	18.81			15.9	0.0	
100	PI2 BPSK	1	271	18.81			15.9	0.0	
100	PI2 BPSK	135	0	18.84			15.9	0.0	
100	PI2 BPSK	135	138	18.86			15.9	0.0	
100	PI2 BPSK	135	138	18.48			15.9	0.0	
100	PI2 BPSK	270	0	18.86			15.9	0.0	
100	QPSK	1	1	18.85					
100	QPSK	1	137	18.81			15.9	0.0	
100	QPSK	1	271	18.82			15.9	0.0	
100	QPSK	135	0	18.87			15.9	0.0	
100	QPSK	135	138	18.88			15.9	0.0	
100	QPSK	270	0	18.86			15.9	0.0	
100	16QAM	1	1	18.55			15.9	0.0	
100	16QAM	1	1	18.48			15.9	0.0	
100	16QAM	1	1	18.48			15.9	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	84968	85334	85668	Turn-up time (dBm)	MPR (dB)	
80	QPSK	1	1	1474	14.55	14.83	15.9	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	1475	14.63	14.58	15.9	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	1474	14.63	14.80	15.9	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	1475	14.63	14.58	15.9	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	1474	14.63	14.58	15.9	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	1475	14.63	14.58	15.9	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	1474	14.63	14.58	15.9	0.0	



n7 Ant1 DS16 Simultaneous									
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				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI2 BPSK	1	1	21.63	21.69	21.60			
50	PI2 BPSK	1	135	21.72	21.76	21.66	23.3	0.0	
50	PI2 BPSK	1	268	21.76	21.82	21.76			
50	PI2 BPSK	135	0	21.68	21.72	21.63	22.8	0.5	
50	PI2 BPSK	135	68	21.64	21.71	21.67	23.3	0.0	
50	PI2 BPSK	135	135	21.71	21.75	21.71			
50	PI2 BPSK	270	0	21.57	21.68	21.57	22.8	0.5	
50	QPSK	1	1	21.83	21.84	21.75			
50	QPSK	1	135	21.68	21.77	21.72	23.3	0.0	
50	QPSK	1	268	21.65	21.74	21.70			
50	QPSK	135	0	21.85	21.70	21.64	23.3	0.0	
50	QPSK	135	68	21.66	21.74	21.63	23.3	0.0	
50	QPSK	135	135	21.55	21.61	21.53			
50	QPSK	270	0	21.58	21.65	21.57	23.3	0.0	
50	16QAM	1	1	21.52	21.62	21.57	23.0	0.3	
50	64QAM	1	1	20.76	20.84	20.76	21.5	1.8	
50	256QAM	1	1	18.67	18.75	18.66	19.5	3.8	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	21.62	21.65	21.48	23.3	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	21.45	21.57	21.52	23.3	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
25	QPSK	1	1	21.50	21.56	21.49	23.3	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
20	QPSK	1	1	21.49	21.58	21.51	23.3	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	21.52	21.56	21.48	23.3	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	21.53	21.61	21.50	23.3	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	21.53	21.56	21.50	23.3	0.0	

n66 Ant1 DS16									
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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	19.96	20.05	19.89			
40	PI2 BPSK	1	108	19.88	19.92	19.87	21.0	0.0	
40	PI2 BPSK	1	214	19.97	20.05	19.98			
40	PI2 BPSK	108	0	19.85	19.92	19.85	21.0	0.0	
40	PI2 BPSK	108	54	19.93	20.01	19.96	21.0	0.0	
40	PI2 BPSK	108	108	20.04	20.09	20.00	21.0	0.0	
40	PI2 BPSK	216	0	19.96	20.06	20.00			
40	QPSK	1	1	20.04	20.17	20.08			
40	QPSK	1	108	19.90	19.98	19.85	21.0	0.0	
40	QPSK	1	214	20.01	20.07	19.93			
40	QPSK	108	0	19.86	19.95	19.88	21.0	0.0	
40	QPSK	108	54	20.01	20.03	19.99	21.0	0.0	
40	QPSK	108	108	19.81	19.89	19.84			
40	QPSK	216	0	20.01	20.05	19.99	21.0	0.0	
40	16QAM	1	1	19.90	19.97	19.88	21.0	0.0	
40	64QAM	1	1	20.07	20.13	20.05	21.0	0.0	
40	256QAM	1	1	18.45	18.51	18.47	19.5	1.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	19.82	19.81	19.78	21.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	19.80	19.88	19.84	21.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
15	QPSK	1	1	19.76	19.89	19.81	21.0	0.0	
Channel				342000	349000	356000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1710	1745	1780			
10	QPSK	1	1	19.76	19.91	19.81	21.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	19.77	19.89	19.83	21.0	0.0	

n66 Ant1 DS16 Simultaneous									
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				346000	349000	352000			
Frequency (MHz)				1725	1745	1760			
40	PI2 BPSK	1	1	18.41	18.51	18.42			
40	PI2 BPSK	1	108	18.38	18.43	18.34	19.5	0.0	
40	PI2 BPSK	1	214	18.47	18.52	18.47			
40	PI2 BPSK	108	0	18.33	18.42	18.36	19.5	0.0	
40	PI2 BPSK	108	54	18.30	18.39	18.34	19.5	0.0	
40	PI2 BPSK	108	108	18.50	18.59	18.52	19.5	0.0	
40	PI2 BPSK	216	0	18.37	18.47	18.37			
40	QPSK	1	1	18.27	18.01	18.52			
40	QPSK	1	108	18.41	18.49	18.41	19.5	0.0	
40	QPSK	1	214	18.45	18.51	18.47			
40	QPSK	108	0	18.36	18.42	18.32	19.5	0.0	
40	QPSK	108	54	18.49	18.54	18.41	19.5	0.0	
40	QPSK	108	108	18.35	18.44	18.38			
40	QPSK	216	0	18.32	18.39	18.34	19.5	0.0	
40	16QAM	1	1	18.44	18.48	18.42	19.5	0.0	
40	64QAM	1	1	18.47	18.54	18.49	19.5	0.0	
40	256QAM	1	1	18.36	18.45	18.37	19.5	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1765			
30	QPSK	1	1	18.26	18.33	18.24	19.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1770			
20	QPSK	1	1	18.24	18.32	18.29	19.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1710	1745	1775			
15	QPSK	1	1	18.23	18.33	18.28	19.5	0.0	
Channel				342000	349000	356000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1705	1745	1780			
10	QPSK	1	1	18.25	18.30	18.24	19.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	18.26	18.34	18.25	19.5	0.0	



n66 Ant2 DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Main Ch. Freq.	High Ch. Freq.			
Channel				345000	349000	352000			
Frequency (MHz)				1725	1745	1760			
40	PI2 BPSK	1	1	21.34	21.39	21.32			
40	PI2 BPSK	1	108	21.24	21.33	21.24	22.4	0.0	
40	PI2 BPSK	1	214	21.36	21.41	21.36			
40	PI2 BPSK	108	0	21.23	21.29	21.20	22.4	0.0	
40	PI2 BPSK	108	54	21.08	21.17	21.12	22.4	0.0	
40	PI2 BPSK	108	108	21.02	21.11	21.01			
40	PI2 BPSK	216	0	21.04	21.09	21.00	22.4	0.0	
40	QPSK	1	1	21.44	21.47	21.42			
40	QPSK	1	108	21.28	21.33	21.24	22.4	0.0	
40	QPSK	1	214	21.23	21.29	21.21			
40	QPSK	108	0	21.12	21.19	21.13	22.4	0.0	
40	QPSK	108	54	21.11	21.20	21.06	22.4	0.0	
40	QPSK	108	108	21.08	21.17	21.00			
40	QPSK	216	0	21.02	21.11	21.01	22.4	0.0	
40	16QAM	1	1	21.08	21.15	21.07	22.4	0.0	
40	16QAM	1	1	20.16	20.22	20.16	21.5	0.9	
40	256QAM	1	1	18.21	18.29	18.23	18.5	3.8	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	20.55	21.05	20.94	22.4	0.0	
Channel				342000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	20.97	21.00	20.96	22.4	0.0	
Channel				343000	349000	351000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	20.98	21.05	20.93	22.4	0.0	
Channel				343000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	21.00	21.00	20.91	22.4	0.0	
Channel				342500	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	20.98	21.04	20.91	22.4	0.0	

n66 DSI6 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Main Ch. Freq.	High Ch. Freq.			
Channel				345000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	19.52	19.57	19.50			
40	PI2 BPSK	1	108	19.73	19.77	19.68	20.9	0.0	
40	PI2 BPSK	1	214	19.76	19.86	19.76			
40	PI2 BPSK	108	0	19.87	19.73	19.88	20.9	0.0	
40	PI2 BPSK	108	54	19.86	19.90	19.84	20.9	0.0	
40	PI2 BPSK	108	108	19.76	19.82	19.74			
40	PI2 BPSK	216	0	19.74	19.82	19.74	20.9	0.0	
40	QPSK	1	1	19.83	19.91	19.81			
40	QPSK	1	108	19.92	19.89	19.93	20.9	0.0	
40	QPSK	1	214	19.74	19.84	19.76			
40	QPSK	108	0	19.89	19.75	19.86	20.9	0.0	
40	QPSK	108	54	19.79	19.83	19.77	20.9	0.0	
40	QPSK	108	108	19.81	19.71	19.87			
40	QPSK	216	0	19.82	19.88	19.83	20.9	0.0	
40	16QAM	1	1	19.74	19.81	19.73	20.9	0.0	
40	16QAM	1	1	19.44	19.66	19.62	20.9	0.0	
40	256QAM	1	1	18.18	18.20	18.21	18.5	2.4	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	19.09	19.78	19.73	20.9	0.0	
Channel				342000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	19.74	19.76	19.72	20.9	0.0	
Channel				343000	349000	351000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	19.74	19.78	19.73	20.9	0.0	
Channel				343000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	19.70	19.79	19.73	20.9	0.0	
Channel				342500	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	19.72	19.76	19.67	20.9	0.0	



n38 Ant1 DS16									
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch. (Frac.)	Power Med. Ch. (Frac.)	Power High Ch. (Frac.)	Turn-up time (dB)	MPE (dB)	
Channel									
Frequency (MHz)				51602	51600	51608			
40	Pro DS16	1	1	22.45	22.51	22.45			
40	Pro DS16	1	30	22.43	22.52	22.43	23.5	0.0	
40	Pro DS16	1	104	22.40	22.55	22.50			
40	Pro DS16	0	0	22.47	22.49	22.50	23.5	0.0	
40	Pro DS16	50	36	22.45	22.53	22.45	23.5	0.0	
40	Pro DS16	50	36	22.45	22.49	22.50			
40	Pro DS16	100	0	22.55	22.40	22.52	23.5	0.0	
40	QPSK	1	1	22.46	22.50	22.54			
40	QPSK	1	30	22.47	22.56	22.54	23.5	0.0	
40	QPSK	1	104	22.40	22.48	22.41			
40	QPSK	0	0	22.47	22.47	22.51	23.5	0.0	
40	QPSK	50	36	22.44	22.54	22.50	23.5	0.0	
40	QPSK	50	36	22.44	22.47	22.48			
40	QPSK	100	0	22.50	22.51	22.50	23.5	0.0	
40	SSB-W	1	1	20.48	20.44	20.50	21.5	2.0	
40	SSB-W	1	1	19.20	19.20	19.20	19.5	0.0	
Channel									
Frequency (MHz)				51702	51600	51608	Turn-up time (dB)	MPE (dB)	
30	QPSK	1	1	21.51	21.75	21.75	23.5	0.0	
Channel									
Frequency (MHz)				51800	51600	52000	Turn-up time (dB)	MPE (dB)	
20	QPSK	1	1	21.01	21.75	21.71	23.5	0.0	

n38 Ant1 DS16 Simultaneous									
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch. (Frac.)	Power Med. Ch. (Frac.)	Power High Ch. (Frac.)	Turn-up time (dB)	MPE (dB)	
Channel									
Frequency (MHz)				51600	51600	51608			
40	Pro DS16	1	1	21.27	21.32	21.21			
40	Pro DS16	1	30	21.16	21.20	21.21	22.0	0.0	
40	Pro DS16	1	104	21.27	21.33	21.25			
40	Pro DS16	0	0	21.14	21.24	21.21	23.0	0.0	
40	Pro DS16	50	36	21.17	21.27	21.25	22.0	0.0	
40	Pro DS16	50	36	21.27	21.25	21.25			
40	Pro DS16	100	0	21.23	21.25	21.25	22.0	0.0	
40	QPSK	1	1	21.33	21.35	21.31			
40	QPSK	1	30	21.28	21.25	21.21	22.0	0.0	
40	QPSK	1	104	21.21	21.28	21.22			
40	QPSK	0	0	21.09	21.10	21.13	21.5	0.0	
40	QPSK	50	36	21.18	21.25	21.19	22.0	0.0	
40	QPSK	50	36	21.08	21.17	21.08			
40	QPSK	100	0	21.22	21.20	21.21	21.5	0.0	
40	SSB-W	1	1	21.11	21.16	21.14	21.0	0.0	
40	SSB-W	1	1	20.78	20.85	20.82	21.5	0.0	
40	SSB-W	1	1	19.57	19.73	19.67	19.0	2.0	
Channel									
Frequency (MHz)				51702	51600	52008	Turn-up time (dB)	MPE (dB)	
30	QPSK	1	1	21.29	21.30	21.32	22.0	0.0	
Channel									
Frequency (MHz)				51800	51800	52000	Turn-up time (dB)	MPE (dB)	
20	QPSK	1	1	21.24	21.28	21.26	22.0	0.0	

n38 Ant2 DS16									
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch. (Frac.)	Power Med. Ch. (Frac.)	Power High Ch. (Frac.)	Turn-up time (dB)	MPE (dB)	
Channel									
Frequency (MHz)				51802	51600	51608			
40	Pro DS16	1	1	22.59	22.61	22.60			
40	Pro DS16	1	30	22.57	22.70	22.61	24.0	0.0	
40	Pro DS16	1	104	22.43	22.45	22.59			
40	Pro DS16	0	0	22.61	22.64	22.64	23.0	0.0	
40	Pro DS16	50	36	22.58	22.52	22.51	24.0	0.0	
40	Pro DS16	50	36	22.58	22.56	22.56			
40	Pro DS16	100	0	22.61	22.55	22.57	23.5	0.0	
40	QPSK	1	1	22.54	22.58	22.54			
40	QPSK	1	30	22.45	22.55	22.59	24.0	0.0	
40	QPSK	1	104	22.34	22.53	22.59			
40	QPSK	0	0	22.50	22.50	22.51	23.5	0.0	
40	QPSK	50	36	22.37	22.50	22.56	24.0	0.0	
40	QPSK	50	36	22.44	22.48	22.48			
40	QPSK	100	0	22.50	22.48	22.52	23.0	0.0	
40	SSB-W	1	1	21.70	21.84	21.85	21.0	1.0	
40	SSB-W	1	1	20.22	20.28	20.18	21.5	2.0	
40	SSB-W	1	1	19.44	19.60	19.50	19.0	4.0	
Channel									
Frequency (MHz)				51902	51600	52008	Turn-up time (dB)	MPE (dB)	
30	QPSK	1	1	22.43	22.57	22.57	24.0	0.0	
Channel									
Frequency (MHz)				52000	51800	52000	Turn-up time (dB)	MPE (dB)	
20	QPSK	1	1	22.25	22.38	22.43	24.0	0.0	



Part 270 n77 Ant4 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac.)	Power Media Ch. (Frac.)	Power High Ch. (Frac.)	Time-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
100	P2D BPSK	1	1	18.27			18.5	0.0	
100	P2D BPSK	1	131	18.27			18.5	0.0	
100	P2D BPSK	1	271	18.27			18.5	0.0	
100	P2D BPSK	1	411	18.27			18.5	0.0	
100	P2D BPSK	1	551	18.27			18.5	0.0	
100	P2D BPSK	1	691	18.27			18.5	0.0	
100	P2D BPSK	1	831	18.27			18.5	0.0	
100	P2D BPSK	1	971	18.27			18.5	0.0	
100	QPSK	1	1	18.32			18.5	0.0	
100	QPSK	1	131	18.32			18.5	0.0	
100	QPSK	1	271	18.32			18.5	0.0	
100	QPSK	1	411	18.32			18.5	0.0	
100	QPSK	1	551	18.32			18.5	0.0	
100	QPSK	1	691	18.32			18.5	0.0	
100	QPSK	1	831	18.32			18.5	0.0	
100	QPSK	1	971	18.32			18.5	0.0	
100	16QAM	1	1	18.37			18.5	0.0	
100	16QAM	1	131	18.37			18.5	0.0	
100	16QAM	1	271	18.37			18.5	0.0	
100	16QAM	1	411	18.37			18.5	0.0	
100	16QAM	1	551	18.37			18.5	0.0	
100	16QAM	1	691	18.37			18.5	0.0	
100	16QAM	1	831	18.37			18.5	0.0	
100	16QAM	1	971	18.37			18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.40	18.57	18.58	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.43	18.58	18.59	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.46	18.59	18.60	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.44	18.55	18.59	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.45	18.53	18.60	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.44	18.55	18.59	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.43	18.54	18.59	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.42	18.54	18.59	18.5	0.0	

Part 270 n77 Ant4 DS16 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac.)	Power Media Ch. (Frac.)	Power High Ch. (Frac.)	Time-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
100	P2D BPSK	1	1	17.18			18.0	0.0	
100	P2D BPSK	1	131	17.18			18.0	0.0	
100	P2D BPSK	1	271	17.11			18.0	0.0	
100	P2D BPSK	1	411	17.05			18.0	0.0	
100	P2D BPSK	1	551	17.02			18.0	0.0	
100	P2D BPSK	1	691	17.00			18.0	0.0	
100	P2D BPSK	1	831	17.00			18.0	0.0	
100	P2D BPSK	1	971	17.00			18.0	0.0	
100	QPSK	1	1	17.22			18.0	0.0	
100	QPSK	1	131	17.14			18.0	0.0	
100	QPSK	1	271	17.05			17.2	1.0	
100	QPSK	1	411	17.00			18.0	0.0	
100	QPSK	1	551	17.00			18.0	0.0	
100	QPSK	1	691	17.00			18.0	0.0	
100	QPSK	1	831	17.00			18.0	0.0	
100	QPSK	1	971	17.00			18.0	0.0	
100	16QAM	1	1	17.26			18.0	0.0	
100	16QAM	1	131	17.18			18.0	0.0	
100	16QAM	1	271	17.11			18.0	0.0	
100	16QAM	1	411	17.05			18.0	0.0	
100	16QAM	1	551	17.02			18.0	0.0	
100	16QAM	1	691	17.00			18.0	0.0	
100	16QAM	1	831	17.00			18.0	0.0	
100	16QAM	1	971	17.00			18.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.24	17.13	17.05	18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.25	17.16	17.09	18.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.26	17.19	17.09	18.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.24	17.18	17.09	18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.22	17.16	17.05	18.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.24	17.13	17.05	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.25	17.16	17.10	18.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.24	17.16	17.10	18.0	0.0	

Part270Q n77 Ant4 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac.)	Power Media Ch. (Frac.)	Power High Ch. (Frac.)	Time-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
100	P2D BPSK	1	1	18.27			18.5	0.0	
100	P2D BPSK	1	131	18.27			18.5	0.0	
100	P2D BPSK	1	271	18.27			18.5	0.0	
100	P2D BPSK	1	411	18.27			18.5	0.0	
100	P2D BPSK	1	551	18.27			18.5	0.0	
100	P2D BPSK	1	691	18.27			18.5	0.0	
100	P2D BPSK	1	831	18.27			18.5	0.0	
100	P2D BPSK	1	971	18.27			18.5	0.0	
100	QPSK	1	1	18.32			18.5	0.0	
100	QPSK	1	131	18.32			18.5	0.0	
100	QPSK	1	271	18.32			18.5	0.0	
100	QPSK	1	411	18.32			18.5	0.0	
100	QPSK	1	551	18.32			18.5	0.0	
100	QPSK	1	691	18.32			18.5	0.0	
100	QPSK	1	831	18.32			18.5	0.0	
100	QPSK	1	971	18.32			18.5	0.0	
100	16QAM	1	1	18.37			18.5	0.0	
100	16QAM	1	131	18.37			18.5	0.0	
100	16QAM	1	271	18.37			18.5	0.0	
100	16QAM	1	411	18.37			18.5	0.0	
100	16QAM	1	551	18.37			18.5	0.0	
100	16QAM	1	691	18.37			18.5	0.0	
100	16QAM	1	831	18.37			18.5	0.0	
100	16QAM	1	971	18.37			18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.47	18.54	18.58	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.46	18.55	18.59	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.45	18.56	18.57	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.48	18.54	18.59	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.47	18.54	18.60	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.46	18.53	18.58	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.48	18.55	18.60	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.44	18.56	18.59	18.5	0.0	

Part270Q n77 Ant4 DS16 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac.)	Power Media Ch. (Frac.)	Power High Ch. (Frac.)	Time-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
100	P2D BPSK	1	1	17.21			18.0	0.0	
100	P2D BPSK	1	131	17.11			18.0	0.0	
100	P2D BPSK	1	271	17.11			18.0	0.0	
100	P2D BPSK	1	411	17.07			18.0	0.0	
100	P2D BPSK	1	551	17.05			18.0	0.0	
100	P2D BPSK	1	691	17.05			18.0	0.0	
100	P2D BPSK	1	831	17.05			18.0	0.0	
100	P2D BPSK	1	971	17.05			18.0	0.0	
100	QPSK	1	1	17.25			18.0	0.0	
100	QPSK	1	131	17.17			18.0	0.0	
100	QPSK	1	271	17.17			17.0	1.0	
100	QPSK	1	411	17.07			18.0	0.0	
100	QPSK	1	551	17.05			18.0	0.0	
100	QPSK	1	691	17.05			18.0	0.0	
100	QPSK	1	831	17.05			18.0	0.0	
100	QPSK	1	971	17.05			18.0	0.0	
100	16QAM	1	1	17.29			18.0	0.0	
100	16QAM	1	131	17.21			18.0	0.0	
100	16QAM	1	271	17.17			18.0	0.0	
100	16QAM	1	411	17.07			18.0	0.0	
100	16QAM	1	551	17.05			18.0	0.0	
100	16QAM	1	691	17.05			18.0	0.0	
100	16QAM	1	831	17.05			18.0	0.0	
100	16QAM	1	971	17.05			18.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.28	17.14	17.11	18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.28	17.16	17.09	18.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.29	17.17	17.09	18.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.28	17.13	17.05	18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.26	17.11	17.05	18.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.28	17.14	17.05	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.28	17.16	17.09	18.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.26	17.13	17.05	18.0	0.0	



WLAN/Bluetooth Power

Mode	Channel	Frequency (MHz)	Ant 3+6		Ant 3+6		Ant 3+6		Ant 3+6		Ant 3+6		Ant 3+6		Duty Cycle %	
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
<p>2.4GHz WLAN</p> <p>Default Max Power Table Power Table 1: Simultaneous WLAN+WWAN Power Table 2: Simultaneous WLAN DBS+WWAN Extremity Power Table3 : Standalone WLAN Extremity Power Table 4: Standalone DBS WLAN Extremity Power Table 5: Simultaneous WLAN+WWAN Extremity Power Table 6: Simultaneous WLAN DBS+WWAN at Head Power Table 9: Standalone WLAN Hotspot Power Table (Standalone) Hotspot Power Table (Standalone WLAN DBS) Body-worn Power Table 13: Standalone WLAN Body-worn Power Table 14: Standalone DBS WLAN Body-worn Power Table 15: Simultaneous WLAN+WWAN</p> <p>at Head Power Table 10: Standalone DBS WLAN</p> <p>Hotspot Power Table 8: Simultaneous WLAN DBS+WWAN</p> <p>at Head Power Table 11: Simultaneous WLAN+WWAN</p> <p>at Head Power Table 12: Simultaneous WLAN DBS+WWAN</p> <p>Body-worn Power Table 16: Simultaneous WLAN DBS+WWAN</p> <p>Hotspot Power Table 7: Simultaneous WLAN+WWAN</p>																
2.4GHz WLAN	802.11b 1Mbps	1	2412	20.84	22.50	18.06	19.50	17.00	18.50	14.35	15.50	19.00	20.50	20.30	22.00	97.86
		6	2437	21.09	23.00	18.11	19.50	17.05	18.50	14.48	15.50	19.05	21.00	20.47	22.00	
		11	2462	20.74	22.50	18.00	19.50	16.99	18.50	14.32	15.50	18.99	20.50	20.19	22.00	
	802.11g 6Mbps	1	2412	20.01	22.00		19.50		18.50		15.50		20.50		22.00	99.27
		6	2437	19.85	21.50		19.50		18.50		15.50		20.50		21.50	
		11	2462	19.83	21.50		19.50		18.50		15.50		20.50		21.50	
	802.11n-HT20 MCS0	1	2412	18.99	20.50		19.50		18.50		15.50		20.50		20.50	100.00
		6	2437	19.22	21.00		19.50		18.50		15.50		20.50		21.00	
		11	2462	19.19	21.00		19.50		18.50		15.50		20.50		21.00	
	802.11n-HT40 MCS0	3	2422	17.96	19.50		19.50		18.50		15.50		19.50		19.50	100.00
		6	2437	17.93	19.50	Not Required	19.50	Not Required	18.50	Not Required	15.50	Not Required	19.50	Not Required	19.50	
		9	2452	18.18	20.00		19.50		18.50		15.50		20.00		20.00	
	802.11ax-HE20 MCS0	1	2412	19.10	21.00		19.50		18.50		15.50		20.50		21.00	100.00
		6	2437	19.38	21.00		19.50		18.50		15.50		20.50		21.00	
		11	2462	19.24	21.00		19.50		18.50		15.50		20.50		21.00	
	802.11ax-HE40 MCS0	3	2422	17.97	19.50		19.50		18.50		15.50		19.50		19.50	100.00
		6	2437	17.95	19.50		19.50		18.50		15.50		19.50		19.50	
		9	2452	18.22	20.00		19.50		18.50		15.50		20.00		20.00	

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

Mode	Channel	Frequency (MHz)	Ant 6+7		Ant 6+7		Ant 6+7		Ant 6+7		Ant 6+7		Ant 6+7		Duty Cycle %			
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit				
<p>5GHz WLAN</p> <p>Default Max Power Table Power Table 1: Simultaneous WLAN+WWAN Power Table 2: Simultaneous WLAN DBS+WWAN Extremity Power Table3 : Standalone WLAN Extremity Power Table 4: Standalone DBS WLAN at Head Power Table 9: Standalone WLAN at Head Power Table 10: Standalone DBS WLAN at Head Power Table 11: Simultaneous WLAN+WWAN at Head Power Table 12: Simultaneous WLAN DBS+WWAN</p> <p>Body-worn Power Table 13: Standalone WLAN</p> <p>Extremity Power Table 6: Simultaneous WLAN DBS+WWAN</p> <p>Hotspot Power Table (Standalone)</p> <p>Body-worn Power Table 14: Standalone DBS WLAN</p> <p>Hotspot Power Table (Standalone WLAN DBS)</p> <p>Body-worn Power Table 15: Simultaneous WLAN+WWAN</p> <p>Hotspot Power Table 7: Simultaneous WLAN+WWAN</p> <p>Body-worn Power Table 16: Simultaneous WLAN DBS+WWAN</p> <p>Hotspot Power Table 8: Simultaneous WLAN DBS+WWAN</p> <p>Extremity Power Table 4: Standalone DBS WLAN</p> <p>Extremity Power Table 5: Simultaneous WLAN+WWAN</p>																		
5.2GHz WLAN	802.11a 6Mbps	36	5180	19.41	21.00		17.50		15.50		14.00		10.50		19.50	99.27		
		40	5200	19.99	21.50		17.50		15.50		14.00		10.50		19.50			
		44	5220	20.31	22.00		17.50		15.50		14.00		10.50		19.50			
	802.11n-HT20 MCS0	36	5180	18.53	20.50		17.50		15.50		14.00		10.50		19.50	100.00		
		40	5200	18.58	20.50		17.50		15.50		14.00		10.50		19.50			
		44	5220	18.81	20.50		17.50		15.50		14.00		10.50		19.50			
	802.11n-HT40 MCS0	48	5240	18.78	20.50	Not Required	17.50	Not Required	15.50	Not Required	14.00	Not Required	10.50	18.68	20.50	Not Required	19.50	
		38	5190	18.68	20.50		17.50		15.50		14.00		10.50		19.50	100.00		
		46	5230	18.87	20.50		17.50		15.50		14.00		10.50		19.50			
	802.11ac-VHT20 MCS0	36	5180	18.56	20.50		17.50		15.50		14.00		10.50		19.50	100.00		
		40	5200	18.60	20.50		17.50		15.50		14.00		10.50		19.50			
		44	5220	18.87	20.50		17.50		15.50		14.00		10.50		19.50			
	802.11ac-VHT40 MCS0	48	5240	18.83	20.50		17.50		15.50		14.00		10.50		19.50	100.00		
		38	5190	18.81	20.50		17.50		15.50		14.00		10.50		19.50			
		46	5230	18.89	20.50		17.50		15.50		14.00		10.50		19.50			
	802.11ac-VHT80 MCS0	42	5210	17.80	19.50	16.00	17.50	14.44	15.50	12.93	14.00	9.07	10.50		19.50	17.80	19.50	100.00
		36	5180	18.59	20.50		17.50		15.50		14.00		10.50		19.50		19.50	
		40	5200	18.66	20.50		17.50		15.50		14.00		10.50		19.50		19.50	
802.11ax-HE20 MCS0	44	5220	18.97	20.50		17.50		15.50		14.00		10.50		19.50	100.00			
	48	5240	18.98	20.50	Not Required	17.50	Not Required	15.50	Not Required	14.00	Not Required	10.50		19.50		Not Required		
	38	5190	18.84	20.50		17.50		15.50		14.00		10.50		19.50				
802.11ax-HE40 MCS0	46	5230	18.91	20.50		17.50		15.50		14.00		10.50		19.50	100.00			
	42	5210	17.93	19.50		17.50		15.50		14.00		10.50		19.50				
	42	5210	17.93	19.50		17.50		15.50		14.00		10.50		19.50				

Note: The 5GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.

Mode	Channel	Frequency (MHz)	Ant 6+7		Ant 6+7		Ant 6+7		Ant 6+7		Ant 6+7		Ant 6+7		Duty Cycle %	
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
<p>5GHz WLAN</p> <p>Default Max Power Table Power Table 1: Simultaneous WLAN+WWAN Power Table 2: Simultaneous WLAN DBS+WWAN Extremity Power Table3 : Standalone WLAN Extremity Power Table 4: Standalone DBS WLAN at Head Power Table 9: Standalone WLAN at Head Power Table 10: Standalone DBS WLAN at Head Power Table 11: Simultaneous WLAN+WWAN at Head Power Table 12: Simultaneous WLAN DBS+WWAN</p> <p>Body-worn Power Table 13: Standalone WLAN</p> <p>Extremity Power Table 6: Simultaneous WLAN DBS+WWAN</p> <p>Body-worn Power Table 14: Standalone DBS WLAN</p> <p>Body-worn Power Table 15: Simultaneous WLAN+WWAN</p> <p>Body-worn Power Table 16: Simultaneous WLAN DBS+WWAN</p> <p>Extremity Power Table 4: Standalone DBS WLAN</p> <p>Extremity Power Table 5: Simultaneous WLAN+WWAN</p>																
5.3GHz WLAN	802.11a 6Mbps	52	5260	19.97	21.50		17.50		15.50		14.00		10.50	19.38	21.00	99.27
		56	5280	20.08	22.00		17.50		15.50		14.00		10.50	19.44	21.00	
		60	5300	20.01	22.00		17.50		15.50		14.00		10.50	19.32	21.00	
	802.11n-HT20 MCS0	64	5320	19.79	21.00		17.50		15.50		14.00		10.50	18.80	20.50	100.00
		52	5260	18.67	20.50		17.50		15.50		14.00		10.50		20.50	
		56	5280	18.71	20.50		17.50		15.50		14.00		10.50		20.50	
	802.11n-HT40 MCS0	60	5300	18.72	20.50		17.50		15.50		14.00		10.50		20.50	100.00
		64	5320	18.74	20.50		17.50		15.50		14.00		10.50		20.50	
		54	5270	18.87	20.50	Not Required	17.50	Not Required	15.50	Not Required	14.00	Not Required	10.50		20.50	
	802.11ac-VHT20 MCS0	62	5310	18.66	20.50		17.50		15.50		14.00		10.50		20.50	100.00
		52	5260	18.69	20.50		17.50		15.50		14.00		10.50		20.50	
		56	5280	18.79	20.50		17.50		15.50		14.00		10.50		20.50	
	802.11ac-VHT40 MCS0	60	5300	18.76	20.50		17.50		15.50		14.00		10.50		20.50	100.00
		64	5320	18.80	20.50		17.50		15.50		14.00		10.50		20.50	
		54	5270	18.90	20.50		17.50		15.50		14.00		10.50		20.50	
	802.11ac-VHT80 MCS0	62	5310	18.88	20.50		17.50		15.50		14.00		10.50		20.50	100.00
		58	5290	18.05	20.00	16.40	17.50	13.95	15.50	12.19	14.00	8.55	10.50		20.00	
		50	5250	17.06	19.50		17.50		15.50		14.00		10.50		19.50	
802.11ax-HE20 MCS0	52	5260	18.80	20.50		17.50		15.50		14.00		10.50		20.50	99.33	
	56	5280	18.86	20.50		17.50		15.50		14.00		10.50		20.50		
	60	5300	18.79	20.50		17.50		15.50		14.00		10.50		20.50		
802.11ax-HE40 MCS0	64	5320	18.87	20.50	Not Required	17.50	Not Required	15.50	Not Required	14.00	Not Required	10.50		20.50	100.00	
	54	5270	18.77	20.50		17.50		15.50		14.00		10.50		20.50		
	62	5310	18.93	20.50		17.50		15.50		14.00		10.50		20.50		
802.11ax-HE80 MCS0	58	5290	18.17	20.00		17.50		15.50		14.00		10.50		20.00	100.00	
	50	5250	17.19	19.50		17.50		15.50		14.00		10.50		19.50		
	50	5250	17.19	19.50		17.50		15.50		14.00		10.50		19.50		

Note: The 5GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.



5GHz WLAN	Ant 6+7					Ant 6+7		Ant 6+7		Ant 6+7		Ant 6+7		Ant 6+7		Duty Cycle %	
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
5.5GHz WLAN	802.11a 6Mbps	100	5500	19.70	21.50	15.00	15.00	12.50	11.50	9.00	9.00	20.50	20.50	17.00	17.00	99.27	
		116	5580	19.81	21.50												
		132	5660	19.93	21.50												
		140	5700	20.33	22.00												
	802.11n-HT20 MCS0	100	5500	18.02	20.00	15.00	15.00	12.50	11.50	9.00	9.00	20.00	20.00	17.00	17.00	100.00	
		116	5580	18.65	20.50												
		132	5660	18.83	20.50												
		140	5700	19.11	21.00												
	802.11n-HT40 MCS0	102	5510	18.16	20.00	Not Required	Not Required	12.50	11.50	9.00	9.00	18.16	20.00	Not Required	17.00	100.00	
		110	5550	18.42	20.00												
	802.11ac-VHT20 MCS0	100	5500	18.04	20.00	15.00	15.00	12.50	11.50	9.00	9.00	18.92	20.50	20.50	17.00	17.00	100.00
		116	5580	18.67	20.50												
		132	5660	18.87	20.50												
		140	5700	19.19	21.00												
	802.11ac-VHT40 MCS0	102	5510	18.19	20.00	15.00	15.00	12.50	11.50	9.00	9.00	20.00	20.00	17.00	17.00	100.00	
		110	5550	18.44	20.00												
		134	5670	19.26	21.00												
		106	5530	17.30	19.00												13.38
	100	5500	18.11	20.00													
	116	5580	18.79	20.50													
132	5660	18.94	20.50														
802.11ax-HE20 MCS0	102	5510	18.21	20.00	Not Required	Not Required	12.50	11.50	9.00	9.00	20.00	20.00	17.00	17.00	100.00		
	110	5550	18.34	20.00													
	134	5670	19.28	21.00													
	106	5530	17.40	19.00												15.00	15.00
100	5500	18.11	20.00														
116	5580	18.79	20.50														
132	5660	18.94	20.50														
802.11ax-HE40 MCS0	102	5510	18.21	20.00	Not Required	Not Required	12.50	11.50	9.00	9.00	20.00	20.00	17.00	17.00	100.00		
	110	5550	18.34	20.00													
	134	5670	19.28	21.00													
	106	5530	17.40	19.00													

Note: The 5GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.

5GHz WLAN	Ant 6+7					Ant 6+7		Ant 6+7		Ant 6+7		Ant 6+7		Duty Cycle %		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit			
5.8GHz WLAN	802.11a 6Mbps	149	5745	20.07	22.00	16.50	16.50	15.00	13.50	10.50	10.50	19.00	19.00	99.27		
		157	5785	20.37	22.00											
		165	5825	20.17	22.00											
		149	5745	18.94	20.50											
	802.11n-HT20 MCS0	157	5785	19.25	21.00	16.50	16.50	15.00	13.50	10.50	10.50	19.00	19.00	100.00		
		165	5825	18.98	20.50											
	802.11n-HT40 MCS0	151	5755	18.97	20.50	Not Required	Not Required	15.00	13.50	10.50	10.50	19.00	19.00	100.00		
		159	5795	18.92	20.50											
	802.11ac-VHT20 MCS0	149	5745	18.97	20.50	16.50	16.50	15.00	13.50	10.50	10.50	19.00	19.00	100.00		
		157	5785	19.33	21.00											
	802.11ac-VHT40 MCS0	151	5755	19.08	21.00	16.50	16.50	15.00	13.50	10.50	10.50	19.00	19.00	100.00		
		159	5795	19.08	21.00											
	802.11ac-VHT80 MCS0	155	5775	18.22	20.00	14.82	16.50	13.16	15.00	12.00	13.50	8.58	10.50	17.20	19.00	100.00
		149	5745	19.09	21.00											
	802.11ax-HE20 MCS0	157	5785	19.42	21.00	Not Required	Not Required	15.00	13.50	10.50	10.50	19.00	19.00	100.00		
		165	5825	19.15	21.00											
	802.11ax-HE40 MCS0	151	5755	19.12	21.00	Not Required	Not Required	15.00	13.50	10.50	10.50	19.00	19.00	100.00		
		159	5795	19.10	21.00											
	802.11ax-HE80 MCS0	155	5775	18.36	20.00	16.50	16.50	15.00	13.50	10.50	10.50	19.00	19.00	99.35		

Note: The 5GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.

Ant 6+7						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WIFI 6E	802.11a 6Mbps	1	5955	12.32	14.00	99.27
		57	6235	12.03	14.00	
		113	6515	12.35	14.00	
		173	6815	12.54	14.50	
		233	7115	12.72	14.50	
	802.11ax-HE20 MCS0	1	5955	12.66	14.50	100.00
		57	6235	12.44	14.00	
		113	6515	13.21	15.00	
		173	6815	13.43	15.00	
		233	7115	12.79	14.50	
	802.11ax-HE40 MCS0	3	5965	15.59	17.50	100.00
		59	6245	15.32	17.00	
		107	6485	16.01	18.00	
		171	6805	16.41	18.00	
		227	7085	16.11	18.00	
	802.11ax-HE80 MCS0	7	5985	16.65	18.50	99.03
		71	6305	15.99	17.50	
		119	6545	16.90	18.50	
		167	6785	15.90	17.50	
		215	7025	15.70	17.00	
802.11ax-HE160 MCS0	15	6025	16.75	18.50	100.00	
	47	6185	16.09	18.00		
	111	6505	16.86	18.50		
	175	6825	15.61	17.50		
		207	6985	15.40	17.00	

Note: The 6GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.

**ANT3
BT BR/EDR**

Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	14.20	12.68	12.43	16.00
	CH 39	2441	14.73	13.59	13.56	16.50
	CH 78	2480	15.30	13.84	13.84	17.00

BLE_1M/2M

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	4.21	4.44
	CH 19	2440	4.56	4.71
	CH 39	2480	4.16	4.15
Tune-up Limit			6.50	

**ANT6
BT BR/EDR**

Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	12.07	10.95	10.94	14.00
	CH 39	2441	14.90	13.70	13.68	16.50
	CH 78	2480	14.05	12.77	12.78	16.00

BLE_1M/2M

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	2.78	2.94
	CH 19	2440	4.42	4.45
	CH 39	2480	3.26	3.29
Tune-up Limit			6.00	



Appendix F. Supplemental Tuner Head & Body SAR Results

The results are shown as follows.



Ant 1

For Head

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune																			
										0	16	32	48	64	80	96	112	128	144	160	176	192	208					
GSM 850	GPRS (2 Tx slots)	189	836.4	-	-	Right Cheek	0mm	0.236	0.312	0.026	0.067	0.254	0.025	0.085	0.035	0.157	0.142	0.076	0.283	0.137	0.009	0.089	0.034					
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune																			
GSM 1900	GPRS (2 Tx slots)	661	1880	-	-	Left Cheek	0mm	0.055	0.073	1	17	33	49	65	81	97	113	129	145	161	177	193	209					
										0.058	0.063	0.054	0.053	0.059	0.054	0.070	0.072	0.051	0.069	0.070	0.072	0.068	0.063					
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune																			
WCDMA II	RMC 12.2Kbps	9538	1907.6	-	-	Left Cheek	0mm	0.15	0.201	2	18	34	50	66	82	98	114	130	146	162	178	194	210					
										0.132	0.155	0.112	0.128	0.125	0.152	0.136	0.145	0.149	0.110	0.129	0.122	0.142	0.128					
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune																			
WCDMA IV	RMC 12.2Kbps	1312	1712.4	-	-	Left Cheek	0mm	0.138	0.183	3	19	35	51	67	83	99	115	131	147	163	179	195	211					
										0.048	0.041	0.109	0.032	0.080	0.038	0.069	0.060	0.042	0.095	0.014	0.013	0.041	0.068					
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune																			
WCDMA V	RMC 12.2Kbps	4233	846.6	-	-	Right Cheek	0mm	0.307	0.401	4	20	36	52	68	84	100	116	132	148	164	180	196	212					
										0.070	0.080	0.219	0.035	0.115	0.222	0.206	0.166	0.159	0.262	0.032	0.062	0.116	0.087					
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune																			
LTE Band 2	QPSK	18900	1880	1	0	Left Cheek	0mm	0.139	0.183	5	21	37	53	69	85	101	117	133	149	165	181	197	213					
										0.167	0.066	0.134	0.135	0.158	0.133	0.165	0.169	0.156	0.147	0.137	0.111	0.168	0.144					
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune																			
LTE Band 7	QPSK	21100	2535	1	0	Right Cheek	0mm	0.139	0.218	6	22	38	54	70	86	102	118	134	150	166	182	198	214					
										0.175	0.213	0.203	0.114	0.214	0.087	0.201	0.197	0.145	0.202	0.206	0.176	0.117	0.126					
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune																			
LTE Band 12	QPSK	23095	707.5	1	0	Right Cheek	0mm	0.082	0.107	7	23	39	55	71	87	103	119	135	151	167	183	199	215					
										0.086	0.003	0.045	0.026	0.052	0.015	0.008	0.000	0.000	0.018	0.006	0	0.005	0.01					
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune																			
LTE Band 13	QPSK	23230	782	1	0	Right Cheek	0mm	0.147	0.191	8	24	40	56	72	88	104	120	136	152	168	184	200						
										0.090	0.091	0.140	0.083	0.070	0.000	0.042	0.000	0.003	0.072	0.077	0.009	0.023						
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune																			
LTE Band 26	QPSK	26865	831.5	1	0	Right Cheek	0mm	0.218	0.282	9	25	41	57	73	89	105	121	137	153	169	185	201						
										0.077	0.267	0.226	0.045	0.116	0.012	0.132	0.005	0.077	0.123	0.233	0.054	0.069						
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune																			
LTE Band 66	QPSK	132322	1745	1	0	Left Cheek	0mm	0.148	0.195	10	26	42	58	74	90	106	122	138	154	170	186	202						
										0.074	0.137	0.136	0.034	0.095	0.029	0.086	0.036	0.141	0.059	0.066	0.051	0.031						
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune																			
LTE Band 41	QPSK	40620	2593	1	0	Right Cheek	0mm	0.097	0.148	11	27	43	59	75	91	107	123	139	155	171	187	203						
										0.102	0.070	0.078	0.072	0.062	0.122	0.102	0.140	0.079	0.075	0.094	0.103	0.097						
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune																			
FR1 N5	QPSK	167300	836.5	1	1	Right Cheek	0mm	0.218	0.287	12	28	44	60	76	92	108	124	140	156	172	188	204						
										0.058	0.149	0.165	0.031	0.097	0.075	0.132	0.162	0.192	0.027	0.060	0.063	0.054						
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune																			
FR1 N7	QPSK	507000	2535	1	1	Right Cheek	0mm	0.09	0.141	13	29	45	61	77	93	109	125	141	157	173	189	205						
										0.070	0.076	0.073	0.046	0.083	0.091	0.082	0.069	0.076	0.046	0.056	0.075	0.038						
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune																			
FR1 N8	QPSK	519000	2595	1	1	Right Cheek	0mm	0.07	0.165	14	30	46	62	78	94	110	126	142	158	174	190	206						
										0.058	0.054	0.050	0.042	0.069	0.065	0.058	0.052	0.053	0.041	0.050	0.057	0.031						
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune																			
FR1 N66	QPSK	349000	1745	1	1	Left Cheek	0mm	0.102	0.138	15	31	47	63	79	95	111	127	143	159	175	191	207						
										0.045	0.116	0.044	0.123	0.061	0.070	0.069	0.035	0.108	0.028	0.054	0.045	0.039						



For Body

Ant 1																									
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune																
GSM850	GPRS (2 Tx slots)	189	836.4	-	-	Back	5mm	0.913	1.320	0	16	32	48	64	80	96	112	128	144	160	176	192	208		
										0.086	0.372	1.083	0.096	0.299	0.168	0.885	0.770	0.420	1.090	0.410	0.068	0.524	0.226		
GSM1900	GPRS (4 Tx slots)	512	1850.2	-	-	Back	5mm	1.000	1.580	1	17	33	49	65	81	97	113	129	145	161	177	193	209		
										0.996	1.035	1.000	0.852	0.762	0.787	0.972	1.056	1.047	0.757	0.932	0.783	0.928	1.057	0.886	
WCDMA II	RMC 12.2Kbps	9400	1880	-	-	Back	5mm	0.935	1.420	2	18	34	50	66	82	98	114	130	146	162	178	194	210		
										0.921	0.977	0.981	0.728	1.042	0.854	1.095	1.088	0.932	1.045	0.640	0.583	1.014	1.004		
WCDMA IV	RMC 12.2Kbps	1513	1752.6	-	-	Back	5mm	1.140	1.680	3	19	35	51	67	83	99	115	131	147	163	179	195	211		
										0.740	0.645	1.270	0.474	0.958	0.509	0.808	0.749	0.578	1.057	0.302	0.273	0.588	0.758		
WCDMA V	RMC 12.2Kbps	4182	836.4	-	-	Back	5mm	1.010	1.600	4	20	36	52	68	84	100	116	132	148	164	180	196	212		
										0.229	0.249	0.624	0.118	0.355	0.526	0.549	0.443	0.451	0.706	0.063	0.228	0.357	0.286		
LTE Band 2	QPSK	18700	1860	1	0	Back	5mm	1.050	1.650	5	21	37	53	69	85	101	117	133	149	165	181	197	213		
										0.996	0.651	1.052	0.683	1.165	0.622	1.130	1.115	0.807	1.189	1.138	0.498	0.982	0.713		
LTE Band 7	QPSK	21350	2560	1	0	Back	5mm	0.919	1.450	6	22	38	54	70	86	102	118	134	150	166	182	198	214		
										0.951	0.934	0.911	0.702	1.047	0.587	1.072	1.048	0.867	1.033	1.061	1.046	0.996	0.802		
LTE Band 12	QPSK	23095	707.5	1	0	Back	5mm	0.394	0.647	7	23	39	55	71	87	103	119	135	151	167	183	199	215		
										0.614	0.052	0.425	0.328	0.465	0.146	0.065	0.001	0.002	0.162	0.094	0.001	0.066	0.103		
LTE Band 13	QPSK	23230	782	1	0	Back	5mm	0.614	1.027	8	24	40	56	72	88	104	120	136	152	168	184	200			
										0.546	0.728	0.934	0.458	0.520	0.013	0.363	0.000	0.065	0.604	0.635	0.117	0.226			
LTE Band 26	QPSK	26865	831.5	1	0	Back	5mm	0.966	1.500	9	25	41	57	73	89	105	121	137	153	169	185	201			
										0.571	1.204	1.181	0.338	0.841	0.161	0.994	0.072	0.612	0.960	1.129	0.587	0.693			
LTE Band 66	QPSK	132322	1745	1	0	Back	5mm	0.863	1.330	10	26	42	58	74	90	106	122	138	154	170	186	202			
										0.491	1.036	0.988	0.330	0.700	0.720	0.640	0.371	1.023	0.825	0.620	0.518	0.471			
LTE Band 41	QPSK	41055	2636.5	1	0	Back	5mm	1.080	2.050	11	27	43	59	75	91	107	123	139	155	171	187	203			
										1.025	0.805	0.812	0.810	0.971	1.178	1.031	1.295	0.832	0.829	0.972	1.052	0.999			
FR1 N5	QPSK	167300	836.5	1	1	Back	5mm	0.870	1.640	12	28	44	60	76	92	108	124	140	156	172	188	204			
										0.515	1.023	1.169	0.301	0.876	0.677	1.085	1.162	1.064	0.187	0.604	0.728	0.584			
FR1 N7	QPSK	507000	2535	1	1	Back	5mm	0.824	1.580	13	29	45	61	77	93	109	125	141	157	173	189	205			
										0.852	0.815	0.798	0.617	0.931	1.040	0.926	0.832	0.854	0.631	0.764	0.893	0.539			
FR1 N38	QPSK	519000	2595	1	1	Back	5mm	0.974	1.610	14	30	46	62	78	94	110	126	142	158	174	190	206			
										0.758	0.732	0.660	0.565	0.801	0.881	0.826	0.739	0.749	0.567	0.640	0.799	0.445			
FR1 N66	QPSK	346000	1730	1	1	Back	5mm	1.080	1.680	15	31	47	63	79	95	111	127	143	159	175	191	207			
										0.338	0.822	0.586	1.023	0.646	0.514	0.452	0.293	0.704	0.324	0.591	0.356	0.498			



Mode	Service Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured Ig SAR (mW/kg)	Auto-Tune	Average Value of Time Sweep (W/kg)																									
										0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20					
LTE Band 7	QPSK	2100	2080	1	0	Back	3mm	0.910	1.400	0.267	0.325	0.384	0.572	0.574	0.576	0.951	0.569	0.567	0.571	0.584	0.579	0.646	0.699	0.698	0.695	0.699	0.700	0.704	0.705	0.762					
										21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	
										46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71
										72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97
										98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123
										125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
										151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176
										178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203
										206	207	208	209	210	211	212	213	214	215																
										0.526	0.491	0.587	0.486	0.811	0.852	0.836	0.816	0.808	0.797	0.786	0.776	0.778	0.771	0.765	0.760	0.757	0.752	0.751	0.752	0.751	0.752	0.751	0.752	0.751	0.752
										0.653	0.684	0.693	0.699	0.701	0.703	0.704	0.707	0.707	0.708	0.707	0.711	0.706	0.709	0.715	0.722	0.603	0.576	0.538	0.539	0.533					
										0.426	0.606	0.608	0.631	0.596	0.583	0.574	0.514	0.503	0.563	0.563	0.568	0.565	0.568	0.511	0.495	0.496	0.494	0.494	0.494	0.494					
										0.526	0.491	0.587	0.486	0.811	0.852	0.836	0.816	0.808	0.797	0.786	0.776	0.778	0.771	0.765	0.760	0.757	0.752	0.751	0.752	0.751	0.752	0.751	0.752	0.751	0.752
										0.505	0.506	0.507	0.508	0.509	0.510	0.511	0.512	0.513	0.514	0.515	0.516	0.517	0.518	0.519	0.520	0.521	0.522	0.523	0.524	0.525	0.526	0.527	0.528	0.529	0.530
										0.760	0.758	0.755	0.757	0.753	0.758	0.757	0.753	0.751	0.747	0.749	0.746	0.742	0.748	0.747	0.743	0.748	0.747	0.743	0.748	0.747	0.743	0.748	0.747	0.743	0.748
										0.691	0.690	0.689	0.679	0.663	0.658	0.661	0.646	0.667	0.672	0.660	0.667	0.672	0.661	0.662	0.652	0.618	0.622	0.624	0.627	0.628	0.627	0.628	0.627	0.628	0.627
										0.642	0.648	0.649	0.643	0.641	0.639	0.641	0.601	0.577	0.586	0.586	0.589	0.587	0.589	0.516	0.511	0.495	0.496	0.494	0.494	0.494					
										0.526	0.491	0.587	0.486	0.811	0.852	0.836	0.816	0.808	0.797	0.786	0.776	0.778	0.771	0.765	0.760	0.757	0.752	0.751	0.752	0.751	0.752	0.751	0.752	0.751	0.752
										0.653	0.684	0.693	0.699	0.701	0.703	0.704	0.707	0.707	0.708	0.707	0.711	0.706	0.709	0.715	0.722	0.603	0.576	0.538	0.539	0.533					
										0.426	0.606	0.608	0.631	0.596	0.583	0.574	0.514	0.503	0.563	0.563	0.568	0.565	0.568	0.511	0.495	0.496	0.494	0.494	0.494	0.494					
0.526	0.491	0.587	0.486	0.811	0.852	0.836	0.816	0.808	0.797	0.786	0.776	0.778	0.771	0.765	0.760	0.757	0.752	0.751	0.752	0.751	0.752	0.751	0.752	0.751	0.752										
0.505	0.506	0.507	0.508	0.509	0.510	0.511	0.512	0.513	0.514	0.515	0.516	0.517	0.518	0.519	0.520	0.521	0.522	0.523	0.524	0.525	0.526	0.527	0.528	0.529	0.530										
0.760	0.758	0.755	0.757	0.753	0.758	0.757	0.753	0.751	0.747	0.749	0.746	0.742	0.748	0.747	0.743	0.748	0.747	0.743	0.748	0.747	0.743	0.748	0.747	0.743	0.748										
0.691	0.690	0.689	0.679	0.663	0.658	0.661	0.646	0.667	0.672	0.660	0.667	0.672	0.661	0.662	0.652	0.618	0.622	0.624	0.627	0.628	0.627	0.628	0.627	0.628	0.627										
0.642	0.648	0.649	0.643	0.641	0.639	0.641	0.601	0.577	0.586	0.586	0.589	0.587	0.589	0.516	0.511	0.495	0.496	0.494	0.494	0.494															
0.526	0.491	0.587	0.486	0.811	0.852	0.836	0.816	0.808	0.797	0.786	0.776	0.778	0.771	0.765	0.760	0.757	0.752	0.751	0.752	0.751	0.752	0.751	0.752	0.751	0.752										
0.653	0.684	0.693	0.699	0.701	0.703	0.704	0.707	0.707	0.708	0.707	0.711	0.706	0.709	0.715	0.722	0.603	0.576	0.538	0.539	0.533															
0.426	0.606	0.608	0.631	0.596	0.583	0.574	0.514	0.503	0.563	0.563	0.568	0.565	0.568	0.511	0.495	0.496	0.494	0.494	0.494	0.494															
0.526	0.491	0.587	0.486	0.811	0.852	0.836	0.816	0.808	0.797	0.786	0.776	0.778	0.771	0.765	0.760	0.757	0.752	0.751	0.752	0.751	0.752	0.751	0.752	0.751	0.752										
0.505	0.506	0.507	0.508	0.509	0.510	0.511	0.512	0.513	0.514	0.515	0.516	0.517	0.518	0.519	0.520	0.521	0.522	0.523	0.524	0.525	0.526	0.527	0.528	0.529	0.530										
0.760	0.758	0.755	0.757	0.753	0.758	0.757	0.753	0.751	0.747	0.749	0.746	0.742	0.748	0.747	0.743	0.748	0.747	0.743	0.748	0.747	0.743	0.748	0.747	0.743	0.748										
0.691	0.690	0.689	0.679	0.663	0.658	0.661	0.646	0.667	0.672	0.660	0.667	0.672	0.661	0.662	0.652	0.618	0.622	0.624	0.627	0.628	0.627	0.628	0.627	0.628	0.627										
0.642	0.648	0.649	0.643	0.641	0.639	0.641	0.601	0.577	0.586	0.586	0.589	0.587	0.589	0.516	0.511	0.495	0.496	0.494	0.494	0.494															
0.526	0.491	0.587	0.486	0.811	0.852	0.836	0.816	0.808	0.797	0.786	0.776	0.778	0.771	0.765	0.760	0.757	0.752	0.751	0.752	0.751	0.752	0.751	0.752	0.751	0.752										
0.653	0.684	0.693	0.699	0.701	0.703	0.704	0.707	0.707	0.708	0.707	0.711	0.706	0.709	0.715	0.722	0.603	0.576	0.538	0.539	0.533															
0.426	0.606	0.608	0.631	0.596	0.583	0.574	0.514	0.503	0.563	0.563	0.568	0.565	0.568	0.511	0.495	0.496	0.494	0.494	0.494	0.494															
0.526	0.491	0.587	0.486	0.811	0.852	0.836	0.816	0.808	0.797	0.786	0.776	0.778	0.771	0.765	0.760	0.757	0.752	0.751	0.752	0.751	0.752	0.751	0.752	0.751	0.752										
0.505	0.506	0.507	0.508	0.509	0.510	0.511	0.512	0.513	0.514	0.515	0.516	0.517	0.518	0.519	0.520	0.521	0.522	0.523	0.524	0.525	0.526	0.527	0.528	0.529	0.530										
0.760	0.758	0.755	0.757	0.753	0.758	0.757	0.753	0.751	0.747	0.749	0.746	0.742	0.748	0.747	0.743	0.748	0.747	0.743	0.748	0.747	0.743	0.748	0.747	0.743	0.748										
0.691	0.690	0.689	0.679	0.663	0.658	0.661	0.646	0.667	0.672	0.660	0.667	0.672	0.661	0.662	0.652	0.618	0.622	0.624	0.627	0.628	0.627	0.628	0.627	0.628	0.627										
0.642	0.648	0.649	0.643	0.641	0.639	0.641	0.601	0.577	0.586	0.586	0.589	0.587	0.589	0.516	0.511	0.495	0.496	0.494	0.494	0.494															
0.526	0.491	0.587	0.486	0.811	0.852	0.836	0.816	0.808	0.797	0.786	0.776	0.778	0.771	0.765	0.760	0.757	0.752	0.751	0.752	0.751	0.752	0.751	0.752	0.751	0.752										
0.653	0.684	0.693	0.699	0.701	0.703	0.704	0.707	0.707	0.708	0.707	0.711	0.706	0.709	0.715	0.722	0.603	0.576	0.538	0.539	0.533															
0.426	0.606	0.608	0.631	0.596	0.583	0.574	0.514	0.503	0.563	0.563	0.568	0.565	0.568	0.511	0.495	0.496	0.494	0.494	0.494	0.494															
0.526	0.491	0.587	0.486	0.811	0.852	0.836	0.816	0.808	0.797	0.786	0.776	0.778	0.771	0.765	0.760	0.757	0.752	0.751	0.752	0.751	0.752	0.751	0.752	0.751	0.752										
0.505	0.506	0.507	0.508	0.509	0.510	0.511	0.512	0.513	0.514	0.515	0.516	0.517	0.518	0.519	0.520	0.521	0.522	0.523	0.524	0.525	0.526	0.527	0.528	0.529	0.530										
0.760	0.758	0.755	0.757	0.753	0.758	0.757	0.753	0.751	0.747	0.749	0.746	0.742	0.748	0.747	0.743	0.748	0.747	0.743	0.748	0.747	0.743	0.748	0.747	0.743	0.748										
0.691	0.690	0.689	0.679	0.663	0.658	0.661	0.646	0.667	0.672	0.660	0.667	0.672	0.661	0.662	0.652	0.618	0.622	0.624	0.627	0.628	0.627	0.628	0.627	0.628	0.627										
0.642	0.648	0.649	0.643	0.641	0.6																														