

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7592

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 ms.V ⁻²	T2 ms.V ⁻¹	T3 ms	T4 V ⁻²	T5 V ⁻¹	T6
X	50.2	372.49	35.00	18.44	0.06	5.10	1.55	0.19	1.01
Y	58.2	434.14	35.52	23.57	0.33	5.10	1.00	0.32	1.01
Z	46.8	350.57	35.76	12.03	0.37	5.09	0.94	0.20	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	9.2
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

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Calibration Parameter Determined in Head Tissue Simulating Media

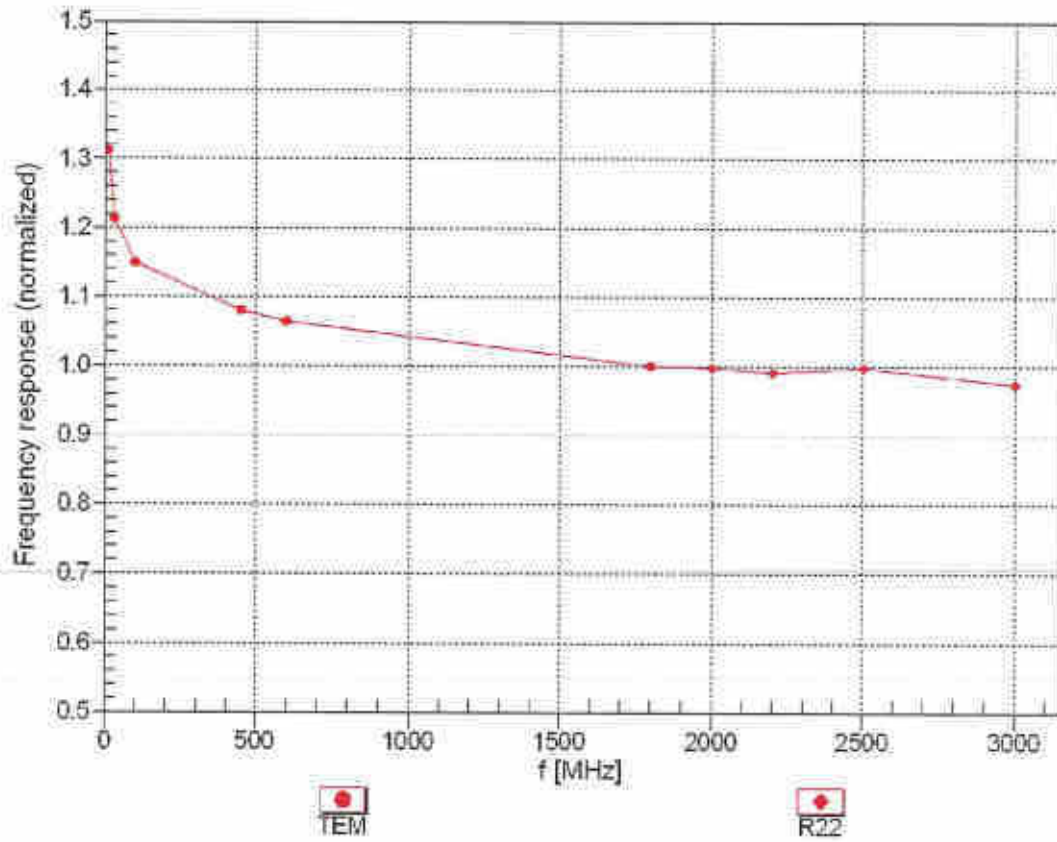
f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^D (mm)	Unc (k=2)
750	41.9	0.89	10.31	10.31	10.31	0.49	0.80	± 12.0 %
835	41.5	0.90	10.05	10.05	10.05	0.45	0.85	± 12.0 %
900	41.5	0.97	9.90	9.90	9.90	0.44	0.80	± 12.0 %
1750	40.1	1.37	8.41	8.41	8.41	0.27	0.80	± 12.0 %
1900	40.0	1.40	8.22	8.22	8.22	0.34	0.81	± 12.0 %
2000	40.0	1.40	8.11	8.11	8.11	0.31	0.80	± 12.0 %
2300	39.5	1.67	7.81	7.81	7.81	0.29	0.90	± 12.0 %
2450	39.2	1.80	7.57	7.57	7.57	0.34	0.90	± 12.0 %
2600	39.0	1.96	7.31	7.31	7.31	0.26	1.10	± 12.0 %
3500	37.9	2.91	6.66	6.66	6.66	0.40	1.35	± 14.0 %
3700	37.7	3.12	6.58	6.58	6.58	0.40	1.35	± 14.0 %
3900	37.5	3.32	6.43	6.43	6.43	0.40	1.60	± 14.0 %
4100	37.2	3.53	6.15	6.15	6.15	0.40	1.60	± 14.0 %
4400	36.9	3.84	6.13	6.13	6.13	0.35	1.80	± 14.0 %
4600	36.7	4.04	5.87	5.87	5.87	0.35	1.80	± 14.0 %
4800	36.4	4.25	5.71	5.71	5.71	0.40	1.80	± 14.0 %
4950	36.3	4.40	5.47	5.47	5.47	0.40	1.80	± 14.0 %
5250	35.9	4.71	5.24	5.24	5.24	0.40	1.80	± 14.0 %
5600	35.5	5.07	4.65	4.65	4.65	0.40	1.80	± 14.0 %
5750	35.4	5.22	4.69	4.69	4.69	0.40	1.80	± 14.0 %

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

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

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

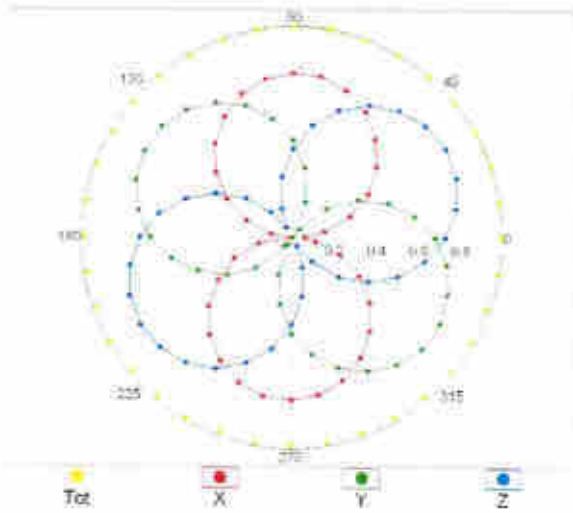
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



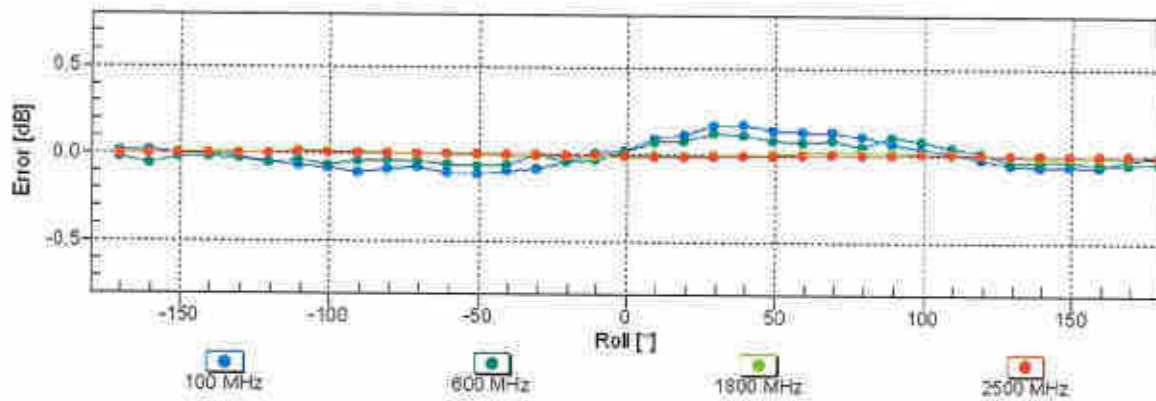
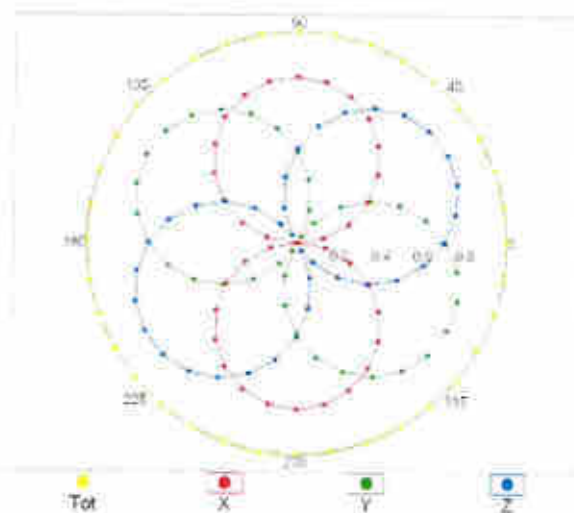
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ (k=2)

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

f=600 MHz,TEM

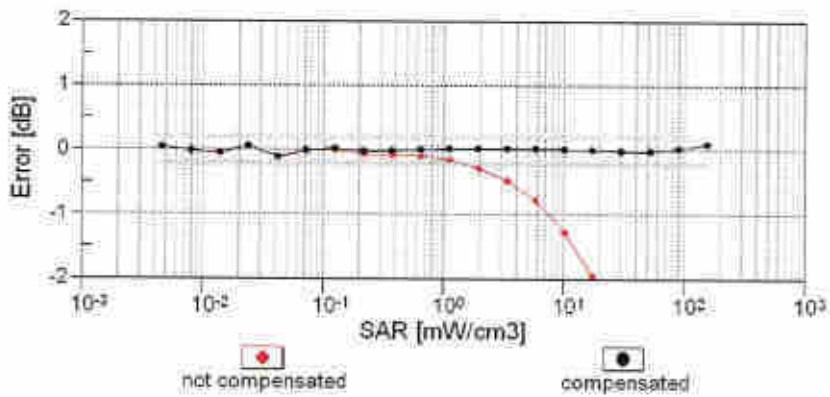
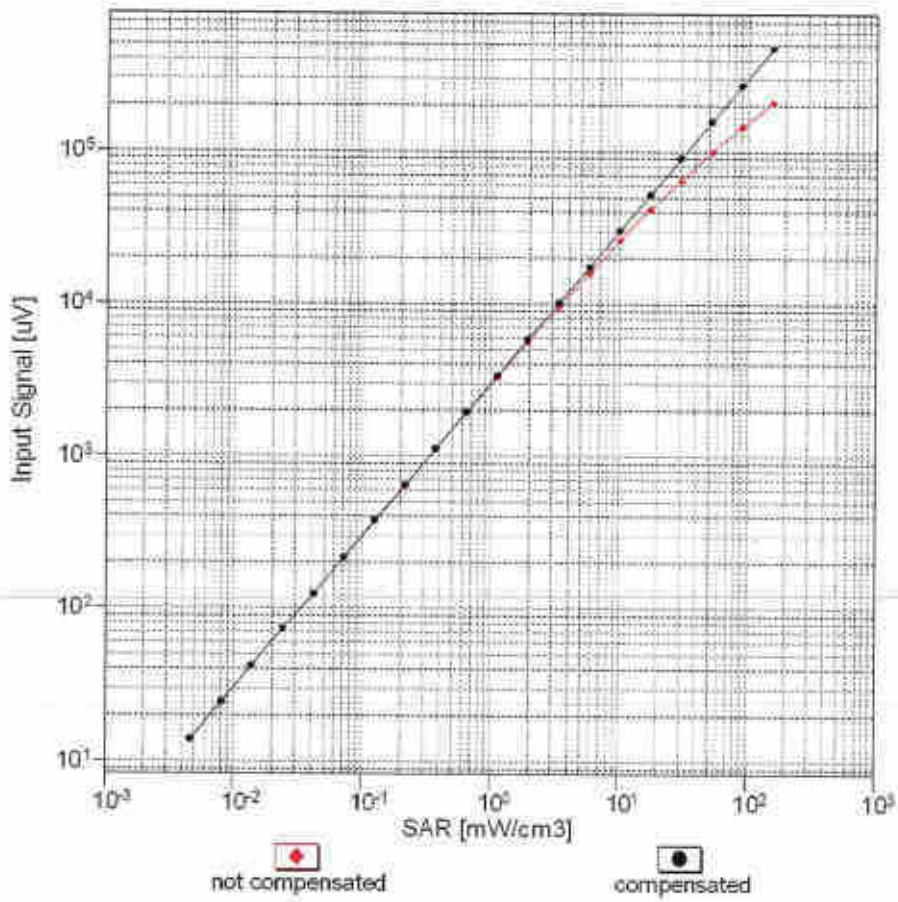


f=1800 MHz,R22



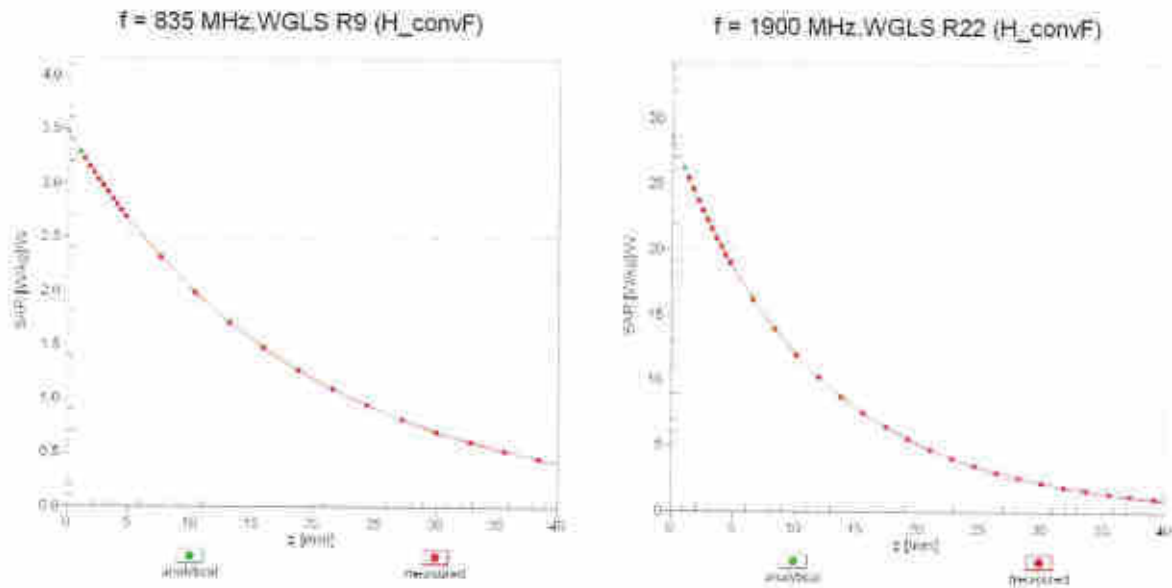
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ (k=2)

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

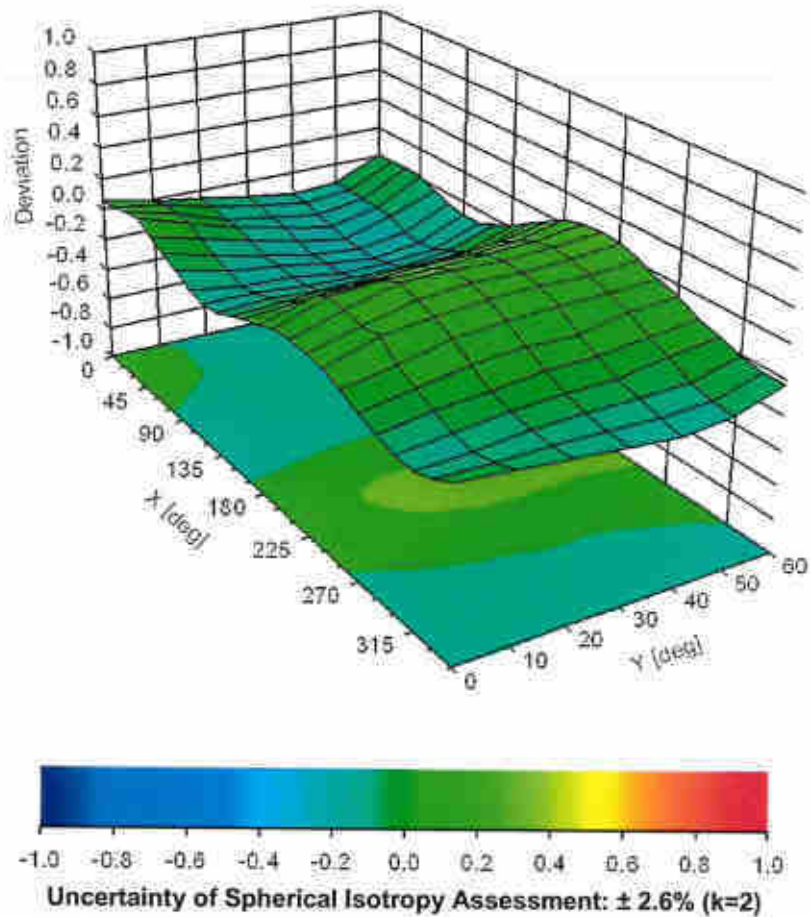


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

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 ^L (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	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10063	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	± 9.6 %
10064	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10065	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	± 9.6 %
10066	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	± 9.6 %
10067	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10069	CAC	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	CAB	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
10098	CAB	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	± 9.6 %
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	± 9.6 %
10100	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10101	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10102	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10103	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10104	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
10105	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %
10108	CAG	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	CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6%
10115	CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	±9.6%
10116	CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	±9.6%
10117	CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.6%
10118	CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	±9.6%
10119	CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	±9.6%
10140	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	±9.6%
10141	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	±9.6%
10142	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6%
10143	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	±9.6%
10144	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6%
10145	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9.6%
10146	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6%
10147	CAF	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	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	±9.6%
10152	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6%
10153	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	±9.6%
10154	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6%
10155	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6%
10156	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9.6%
10157	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	±9.6%
10158	CAG	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	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6%
10161	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6%
10162	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6%
10166	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	±9.6%
10167	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	±9.6%
10168	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9.6%
10169	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	±9.6%
10170	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6%
10171	AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	±9.6%
10172	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	±9.6%
10173	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	±9.6%
10174	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	±9.6%
10175	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	±9.6%
10176	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	±9.6%
10177	CAI	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	±9.6%
10178	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	±9.6%
10179	CAG	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	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	±9.6%
10182	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	±9.6%
10183	AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	±9.6%
10184	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6%
10185	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	±9.6%
10186	AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	±9.6%
10187	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6%
10188	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	±9.6%
10189	AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	±9.6%
10193	CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9.6%
10194	CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	±9.6%
10195	CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	±9.6%
10196	CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	±9.6%
10197	CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	±9.6%
10198	CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	±9.6%
10219	CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	±9.6%

10220	CAC	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	CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	± 9.6 %
10224	CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	± 9.6 %
10225	CAB	UMTS-FDD (HSPA+)	WCDMA	5.97	± 9.6 %
10226	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	± 9.6 %
10227	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	± 9.6 %
10228	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	± 9.6 %
10229	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10230	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10231	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	± 9.6 %
10232	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10233	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10234	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10235	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10236	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10237	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10238	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10239	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10240	CAF	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	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	± 9.6 %
10243	CAB	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	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	± 9.6 %
10246	CAD	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	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	± 9.6 %
10252	CAG	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	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	± 9.6 %
10255	CAF	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	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	± 9.6 %
10258	CAB	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	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	± 9.6 %
10261	CAD	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	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	± 9.6 %
10267	CAG	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	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	± 9.6 %
10270	CAF	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	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	± 9.6 %
10277	CAA	PHS (QPSK)	PHS	11.81	± 9.6 %
10278	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS	11.81	± 9.6 %
10279	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	PHS	12.18	± 9.6 %
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	± 9.6 %
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	± 9.6 %
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	± 9.6 %
10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	± 9.6 %
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	± 9.6 %
10297	AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	± 9.6 %
10298	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10299	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	± 9.6 %

10300	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10301	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WiMAX	12.03	± 9.6 %
10302	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL)	WiMAX	12.57	± 9.6 %
10303	AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	12.52	± 9.6 %
10304	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	11.86	± 9.6 %
10305	AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC)	WiMAX	15.24	± 9.6 %
10306	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC)	WiMAX	14.67	± 9.6 %
10307	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC)	WiMAX	14.49	± 9.6 %
10308	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WiMAX	14.46	± 9.6 %
10309	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3)	WiMAX	14.58	± 9.6 %
10310	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3)	WiMAX	14.57	± 9.6 %
10311	AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	± 9.6 %
10313	AAA	IDEN 1:3	IDEN	10.51	± 9.6 %
10314	AAA	IDEN 1:6	IDEN	13.48	± 9.6 %
10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc)	WLAN	1.71	± 9.6 %
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	± 9.6 %
10317	AAC	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	AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc dc)	WLAN	8.60	± 9.6 %
10402	AAD	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	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	± 9.6 %
10410	AAG	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 GDF, 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	AAB	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	AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
10424	AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10425	AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAB	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	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10431	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAC	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	AAA	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10435	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10447	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
10448	AAD	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	AAC	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	AAD	Validation (Square, 10ms, 1ms)	Test	10.00	± 9.6 %
10456	AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc dc)	WLAN	8.63	± 9.6 %
10457	AAA	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	± 9.6 %
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	± 9.6 %
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	± 9.6 %
10460	AAA	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	± 9.6 %
10461	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10462	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.30	± 9.6 %

10463	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	±9.6%
10464	AAC	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	AAF	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	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	±9.6%
10470	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.82	±9.6%
10471	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	±9.6%
10472	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	±9.6%
10473	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.82	±9.6%
10474	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	±9.6%
10475	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	±9.6%
10477	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	±9.6%
10478	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	±9.6%
10479	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.74	±9.6%
10480	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.18	±9.6%
10481	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	±9.6%
10482	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.71	±9.6%
10483	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub)	LTE-TDD	8.39	±9.6%
10484	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.47	±9.6%
10485	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.59	±9.6%
10486	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.38	±9.6%
10487	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.60	±9.6%
10488	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.70	±9.6%
10489	AAF	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	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.74	±9.6%
10492	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.41	±9.6%
10493	AAE	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	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	±9.6%
10497	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.67	±9.6%
10498	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.40	±9.6%
10499	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.68	±9.6%
10500	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.67	±9.6%
10501	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.44	±9.6%
10502	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.52	±9.6%
10503	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.72	±9.6%
10504	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	±9.6%
10505	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	±9.6%
10506	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.74	±9.6%
10507	AAF	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	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.99	±9.6%
10510	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.49	±9.6%
10511	AAE	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	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	±9.6%
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc)	WLAN	1.58	±9.6%
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc)	WLAN	1.57	±9.6%
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc)	WLAN	1.58	±9.6%
10518	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc)	WLAN	8.23	±9.6%
10519	AAB	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	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc dc)	WLAN	8.08	±9.6%
10524	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc dc)	WLAN	8.27	±9.6%
10525	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc dc)	WLAN	8.36	±9.6%
10526	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc dc)	WLAN	8.42	±9.6%
10527	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc dc)	WLAN	8.21	±9.6%

10528	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc dc)	WLAN	8.36	±9.6%
10529	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc dc)	WLAN	8.36	±9.6%
10531	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc dc)	WLAN	8.43	±9.6%
10532	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc dc)	WLAN	8.29	±9.6%
10533	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc dc)	WLAN	8.38	±9.6%
10534	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc)	WLAN	8.45	±9.6%
10535	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc)	WLAN	8.45	±9.6%
10536	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc dc)	WLAN	8.32	±9.6%
10537	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc dc)	WLAN	8.44	±9.6%
10538	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc)	WLAN	8.54	±9.6%
10540	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc dc)	WLAN	8.39	±9.6%
10541	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc dc)	WLAN	8.46	±9.6%
10542	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc dc)	WLAN	8.65	±9.6%
10543	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc dc)	WLAN	8.65	±9.6%
10544	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc dc)	WLAN	8.47	±9.6%
10545	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc dc)	WLAN	8.55	±9.6%
10546	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc dc)	WLAN	8.35	±9.6%
10547	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc dc)	WLAN	8.49	±9.6%
10548	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc dc)	WLAN	8.37	±9.6%
10550	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc dc)	WLAN	8.38	±9.6%
10551	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc dc)	WLAN	8.50	±9.6%
10552	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc dc)	WLAN	8.42	±9.6%
10553	AAB	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	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)	WLAN	8.25	±9.6%
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc)	WLAN	8.45	±9.6%
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)	WLAN	8.13	±9.6%
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc)	WLAN	8.00	±9.6%
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc)	WLAN	8.37	±9.6%
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc)	WLAN	8.10	±9.6%
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc)	WLAN	8.30	±9.6%
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc)	WLAN	1.99	±9.6%
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)	WLAN	1.99	±9.6%
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc)	WLAN	1.98	±9.6%
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc)	WLAN	1.98	±9.6%
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	±9.6%
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	±9.6%
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	±9.6%
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	±9.6%
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	±9.6%
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	±9.6%
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	±9.6%
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	±9.6%
10583	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	±9.6%
10584	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	±9.6%
10585	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	±9.6%
10586	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	±9.6%
10587	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	±9.6%
10588	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	±9.6%
10589	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	±9.6%
10590	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	±9.6%
10591	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc)	WLAN	8.63	±9.6%
10592	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc)	WLAN	8.79	±9.6%
10593	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc)	WLAN	8.64	±9.6%
10594	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc)	WLAN	8.74	±9.6%
10595	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc)	WLAN	8.74	±9.6%

10596	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc)	WLAN	8.71	± 9.6 %
10597	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc)	WLAN	8.72	± 9.6 %
10598	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc)	WLAN	8.50	± 9.6 %
10599	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc)	WLAN	8.79	± 9.6 %
10600	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10601	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc)	WLAN	8.82	± 9.6 %
10602	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc)	WLAN	8.94	± 9.6 %
10603	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc)	WLAN	9.03	± 9.6 %
10604	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc)	WLAN	8.76	± 9.6 %
10605	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc)	WLAN	8.97	± 9.6 %
10606	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10607	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc dc)	WLAN	8.64	± 9.6 %
10608	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc dc)	WLAN	8.77	± 9.6 %
10609	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc dc)	WLAN	8.57	± 9.6 %
10610	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc dc)	WLAN	8.78	± 9.6 %
10611	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10612	AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10613	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc dc)	WLAN	8.94	± 9.6 %
10614	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc dc)	WLAN	8.59	± 9.6 %
10615	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10616	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc dc)	WLAN	8.82	± 9.6 %
10617	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc dc)	WLAN	8.81	± 9.6 %
10618	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc dc)	WLAN	8.58	± 9.6 %
10619	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc dc)	WLAN	8.86	± 9.6 %
10620	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc dc)	WLAN	8.87	± 9.6 %
10621	AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10622	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc dc)	WLAN	8.68	± 9.6 %
10623	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10624	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc dc)	WLAN	8.96	± 9.6 %
10625	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc dc)	WLAN	8.96	± 9.6 %
10626	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10627	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10628	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc dc)	WLAN	8.71	± 9.6 %
10629	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10630	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc dc)	WLAN	8.72	± 9.6 %
10631	AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc dc)	WLAN	8.81	± 9.6 %
10632	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
10633	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc dc)	WLAN	8.83	± 9.6 %
10634	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc dc)	WLAN	8.80	± 9.6 %
10635	AAB	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	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10647	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	± 9.6 %
10652	AAE	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10653	AAE	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %
10654	AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	± 9.6 %
10655	AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	± 9.6 %
10658	AAA	Pulse Waveform (200Hz, 10%)	Test	10.00	± 9.6 %
10659	AAA	Pulse Waveform (200Hz, 20%)	Test	6.99	± 9.6 %
10660	AAA	Pulse Waveform (200Hz, 40%)	Test	3.98	± 9.6 %
10661	AAA	Pulse Waveform (200Hz, 60%)	Test	2.22	± 9.6 %
10662	AAA	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	± 9.6 %
10671	AAA	IEEE 802.11ax (20MHz, MCS0, 90pc dc)	WLAN	9.09	± 9.6 %

10672	AAA	IEEE 802.11ax (20MHz, MCS1, 90pc dc)	WLAN	8.57	±9.6 %
10673	AAA	IEEE 802.11ax (20MHz, MCS2, 90pc dc)	WLAN	8.78	±9.6 %
10674	AAA	IEEE 802.11ax (20MHz, MCS3, 90pc dc)	WLAN	8.74	±9.6 %
10675	AAA	IEEE 802.11ax (20MHz, MCS4, 90pc dc)	WLAN	8.90	±9.6 %
10676	AAA	IEEE 802.11ax (20MHz, MCS5, 90pc dc)	WLAN	8.77	±9.6 %
10677	AAA	IEEE 802.11ax (20MHz, MCS6, 90pc dc)	WLAN	8.73	±9.6 %
10678	AAA	IEEE 802.11ax (20MHz, MCS7, 90pc dc)	WLAN	8.78	±9.6 %
10679	AAA	IEEE 802.11ax (20MHz, MCS8, 90pc dc)	WLAN	8.89	±9.6 %
10680	AAA	IEEE 802.11ax (20MHz, MCS9, 90pc dc)	WLAN	8.80	±9.6 %
10681	AAA	IEEE 802.11ax (20MHz, MCS10, 90pc dc)	WLAN	8.62	±9.6 %
10682	AAA	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	AAA	IEEE 802.11ax (20MHz, MCS1, 99pc dc)	WLAN	8.26	±9.6 %
10685	AAA	IEEE 802.11ax (20MHz, MCS2, 99pc dc)	WLAN	8.33	±9.6 %
10686	AAA	IEEE 802.11ax (20MHz, MCS3, 99pc dc)	WLAN	8.28	±9.6 %
10687	AAA	IEEE 802.11ax (20MHz, MCS4, 99pc dc)	WLAN	8.45	±9.6 %
10688	AAA	IEEE 802.11ax (20MHz, MCS5, 99pc dc)	WLAN	8.29	±9.6 %
10689	AAA	IEEE 802.11ax (20MHz, MCS6, 99pc dc)	WLAN	8.55	±9.6 %
10690	AAA	IEEE 802.11ax (20MHz, MCS7, 99pc dc)	WLAN	8.29	±9.6 %
10691	AAA	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	AAA	IEEE 802.11ax (40MHz, MCS11, 90pc dc)	WLAN	8.66	±9.6 %
10707	AAA	IEEE 802.11ax (40MHz, MCS0, 99pc dc)	WLAN	8.32	±9.6 %
10708	AAA	IEEE 802.11ax (40MHz, MCS1, 99pc dc)	WLAN	8.55	±9.6 %
10709	AAA	IEEE 802.11ax (40MHz, MCS2, 99pc dc)	WLAN	8.33	±9.6 %
10710	AAA	IEEE 802.11ax (40MHz, MCS3, 99pc dc)	WLAN	8.29	±9.6 %
10711	AAA	IEEE 802.11ax (40MHz, MCS4, 99pc dc)	WLAN	8.39	±9.6 %
10712	AAA	IEEE 802.11ax (40MHz, MCS5, 99pc dc)	WLAN	8.67	±9.6 %
10713	AAA	IEEE 802.11ax (40MHz, MCS6, 99pc dc)	WLAN	8.33	±9.6 %
10714	AAA	IEEE 802.11ax (40MHz, MCS7, 99pc dc)	WLAN	8.26	±9.6 %
10715	AAA	IEEE 802.11ax (40MHz, MCS8, 99pc dc)	WLAN	8.45	±9.6 %
10716	AAA	IEEE 802.11ax (40MHz, MCS9, 99pc dc)	WLAN	8.30	±9.6 %
10717	AAA	IEEE 802.11ax (40MHz, MCS10, 99pc dc)	WLAN	8.48	±9.6 %
10718	AAA	IEEE 802.11ax (40MHz, MCS11, 99pc dc)	WLAN	8.24	±9.6 %
10719	AAA	IEEE 802.11ax (80MHz, MCS0, 90pc dc)	WLAN	8.81	±9.6 %
10720	AAA	IEEE 802.11ax (80MHz, MCS1, 90pc dc)	WLAN	8.87	±9.6 %
10721	AAA	IEEE 802.11ax (80MHz, MCS2, 90pc dc)	WLAN	8.76	±9.6 %
10722	AAA	IEEE 802.11ax (80MHz, MCS3, 90pc dc)	WLAN	8.55	±9.6 %
10723	AAA	IEEE 802.11ax (80MHz, MCS4, 90pc dc)	WLAN	8.70	±9.6 %
10724	AAA	IEEE 802.11ax (80MHz, MCS5, 90pc dc)	WLAN	8.90	±9.6 %
10725	AAA	IEEE 802.11ax (80MHz, MCS6, 90pc dc)	WLAN	8.74	±9.6 %
10726	AAA	IEEE 802.11ax (80MHz, MCS7, 90pc dc)	WLAN	8.72	±9.6 %
10727	AAA	IEEE 802.11ax (80MHz, MCS8, 90pc dc)	WLAN	8.66	±9.6 %
10728	AAA	IEEE 802.11ax (80MHz, MCS9, 90pc dc)	WLAN	8.65	±9.6 %
10729	AAA	IEEE 802.11ax (80MHz, MCS10, 90pc dc)	WLAN	8.64	±9.6 %
10730	AAA	IEEE 802.11ax (80MHz, MCS11, 90pc dc)	WLAN	8.67	±9.6 %
10731	AAA	IEEE 802.11ax (80MHz, MCS0, 99pc dc)	WLAN	8.42	±9.6 %
10732	AAA	IEEE 802.11ax (80MHz, MCS1, 99pc dc)	WLAN	8.46	±9.6 %
10733	AAA	IEEE 802.11ax (80MHz, MCS2, 99pc dc)	WLAN	8.40	±9.6 %
10734	AAA	IEEE 802.11ax (80MHz, MCS3, 99pc dc)	WLAN	8.25	±9.6 %
10735	AAA	IEEE 802.11ax (80MHz, MCS4, 99pc dc)	WLAN	8.33	±9.6 %

10736	AAA	IEEE 802.11ax (80MHz, MCS5, 99pc dc)	WLAN	8.27	±9.6%
10737	AAA	IEEE 802.11ax (80MHz, MCS6, 99pc dc)	WLAN	8.36	±9.6%
10738	AAA	IEEE 802.11ax (80MHz, MCS7, 99pc dc)	WLAN	8.42	±9.6%
10739	AAA	IEEE 802.11ax (80MHz, MCS8, 99pc dc)	WLAN	8.29	±9.6%
10740	AAA	IEEE 802.11ax (80MHz, MCS9, 99pc dc)	WLAN	8.48	±9.6%
10741	AAA	IEEE 802.11ax (80MHz, MCS10, 99pc dc)	WLAN	8.40	±9.6%
10742	AAA	IEEE 802.11ax (80MHz, MCS11, 99pc dc)	WLAN	8.43	±9.6%
10743	AAA	IEEE 802.11ax (160MHz, MCS0, 90pc dc)	WLAN	8.94	±9.6%
10744	AAA	IEEE 802.11ax (160MHz, MCS1, 90pc dc)	WLAN	9.16	±9.6%
10745	AAA	IEEE 802.11ax (160MHz, MCS2, 90pc dc)	WLAN	8.93	±9.6%
10746	AAA	IEEE 802.11ax (160MHz, MCS3, 90pc dc)	WLAN	9.11	±9.6%
10747	AAA	IEEE 802.11ax (160MHz, MCS4, 90pc dc)	WLAN	9.04	±9.6%
10748	AAA	IEEE 802.11ax (160MHz, MCS5, 90pc dc)	WLAN	8.93	±9.6%
10749	AAA	IEEE 802.11ax (160MHz, MCS6, 90pc dc)	WLAN	8.90	±9.6%
10750	AAA	IEEE 802.11ax (160MHz, MCS7, 90pc dc)	WLAN	8.79	±9.6%
10751	AAA	IEEE 802.11ax (160MHz, MCS8, 90pc dc)	WLAN	8.82	±9.6%
10752	AAA	IEEE 802.11ax (160MHz, MCS9, 90pc dc)	WLAN	8.81	±9.6%
10753	AAA	IEEE 802.11ax (160MHz, MCS10, 90pc dc)	WLAN	9.00	±9.6%
10754	AAA	IEEE 802.11ax (160MHz, MCS11, 90pc dc)	WLAN	8.94	±9.6%
10755	AAA	IEEE 802.11ax (160MHz, MCS0, 99pc dc)	WLAN	8.64	±9.6%
10756	AAA	IEEE 802.11ax (160MHz, MCS1, 99pc dc)	WLAN	8.77	±9.6%
10757	AAA	IEEE 802.11ax (160MHz, MCS2, 99pc dc)	WLAN	8.77	±9.6%
10758	AAA	IEEE 802.11ax (160MHz, MCS3, 99pc dc)	WLAN	8.69	±9.6%
10759	AAA	IEEE 802.11ax (160MHz, MCS4, 99pc dc)	WLAN	8.58	±9.6%
10760	AAA	IEEE 802.11ax (160MHz, MCS5, 99pc dc)	WLAN	8.49	±9.6%
10761	AAA	IEEE 802.11ax (160MHz, MCS6, 99pc dc)	WLAN	8.58	±9.6%
10762	AAA	IEEE 802.11ax (160MHz, MCS7, 99pc dc)	WLAN	8.49	±9.6%
10763	AAA	IEEE 802.11ax (160MHz, MCS8, 99pc dc)	WLAN	8.53	±9.6%
10764	AAA	IEEE 802.11ax (160MHz, MCS9, 99pc dc)	WLAN	8.54	±9.6%
10765	AAA	IEEE 802.11ax (160MHz, MCS10, 99pc dc)	WLAN	8.54	±9.6%
10766	AAA	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	AAB	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	AAB	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	AAB	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	AAC	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10805	AAC	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10806	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10809	AAC	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10810	AAC	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10812	AAC	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10817	AAC	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10818	AAC	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10819	AAC	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	± 9.6 %
10820	AAC	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	AAC	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	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10825	AAC	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10827	AAC	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10828	AAC	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10829	AAC	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10830	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	± 9.6 %
10831	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	± 9.6 %
10832	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	± 9.6 %
10833	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10834	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	± 9.6 %
10835	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10836	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	± 9.6 %
10837	AAC	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	± 9.6 %
10839	AAC	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10840	AAC	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	± 9.6 %
10841	AAC	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	± 9.6 %
10843	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	± 9.6 %
10844	AAC	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10846	AAC	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10854	AAC	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10855	AAC	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10856	AAC	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10857	AAC	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10858	AAC	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10859	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10860	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10861	AAC	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10863	AAC	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10864	AAC	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10865	AAC	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10866	AAC	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10868	AAC	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	6.39	± 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	AAA	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	± 9.6 %
10898	AAA	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10899	AAA	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10900	AAA	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10901	AAA	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10902	AAA	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10903	AAA	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10904	AAA	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10905	AAA	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10906	AAA	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10907	AAA	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	± 9.6 %
10908	AAA	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10909	AAA	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	± 9.6 %
10910	AAA	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10911	AAA	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10912	AAA	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10913	AAA	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10914	AAA	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	± 9.6 %
10915	AAA	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10916	AAA	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10917	AAA	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10918	AAA	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10919	AAA	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10920	AAA	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10921	AAA	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10922	AAA	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	± 9.6 %
10923	AAA	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10924	AAA	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10925	AAA	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	± 9.6 %
10926	AAA	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10927	AAA	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10928	AAA	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10929	AAA	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10930	AAA	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10931	AAA	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10932	AAA	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	AAA	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10937	AAA	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	± 9.6 %
10938	AAA	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10939	AAA	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	± 9.6 %
10940	AAA	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	± 9.6 %
10941	AAA	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10942	AAA	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10943	AAA	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	± 9.6 %
10944	AAA	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	± 9.6 %
10945	AAA	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10946	AAA	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10947	AAA	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10948	AAA	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10949	AAA	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10950	AAA	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10951	AAA	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	± 9.6 %
10952	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	± 9.6 %
10953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	± 9.6 %

10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	± 9.6 %
10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	± 9.6 %
10956	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	± 9.6 %
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	± 9.6 %
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	± 9.6 %
10959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	± 9.6 %
10960	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	± 9.6 %
10961	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	± 9.6 %
10962	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	± 9.6 %
10963	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10964	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	± 9.6 %
10965	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	± 9.6 %
10966	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10967	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	± 9.6 %
10968	AAA	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	± 9.6 %

[‡] 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

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	188	251		128	188	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.16	32.29	32.32	33.50	23.16	23.29	23.32	24.50
GPRS 1 Tx slot	32.15	32.27	32.31	33.50	23.15	23.27	23.31	24.50
GPRS 2 Tx slots	30.32	30.40	30.02	31.50	24.32	24.40	24.02	25.50
GPRS 3 Tx slots	27.98	28.03	27.81	29.00	23.70	23.77	23.55	24.74
GPRS 4 Tx slots	25.72	25.73	25.55	26.50	22.72	22.73	22.55	23.50
EDGE 1 Tx slot	28.51	28.34	28.24	27.50	17.51	17.34	17.24	18.50
EDGE 2 Tx slots	24.38	24.31	24.22	25.50	18.38	18.31	18.22	19.50
EDGE 3 Tx slots	22.14	22.13	22.07	23.00	17.88	17.87	17.81	18.74
EDGE 4 Tx slots	20.03	20.09	19.94	21.00	17.03	17.09	16.94	18.00

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1552.2	1620	1622.8		1552.2	1620	1622.8	
GSM 1 Tx slot	29.75	29.77	29.53	30.50	20.75	20.77	20.53	21.50
GPRS 1 Tx slot	28.74	28.72	28.47	30.50	20.74	20.72	20.47	21.50
GPRS 2 Tx slots	27.75	27.82	27.71	29.00	21.75	21.82	21.71	23.00
GPRS 3 Tx slots	25.44	25.41	25.53	26.50	21.18	21.15	21.27	22.24
GPRS 4 Tx slots	23.44	23.47	23.42	24.50	20.44	20.47	20.42	21.50
EDGE 1 Tx slot	25.46	25.58	25.32	26.50	16.46	16.58	16.32	17.50
EDGE 2 Tx slots	23.29	23.52	23.38	24.50	17.29	17.52	17.38	18.50
EDGE 3 Tx slots	21.24	21.18	21.13	22.00	16.98	16.92	16.87	17.74
EDGE 4 Tx slots	19.81	19.71	19.68	21.00	16.81	16.71	16.68	18.00

Band TX Channel	WCDMA I			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
	900	960	958		1512	1413	1513		4132	4182	4233	
Rx Channel	9682	9800	9938		1537	1638	1738		4367	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.8		826.4	836.4	846.8	
3GPP Rel 99 AMR 12.2Kbps	23.00	23.04	22.98	24.00	22.84	22.96	22.73	24.00	23.01	23.00	23.22	24.00
3GPP Rel 99 AMR 12.2Kbps	23.01	23.05	22.99	24.00	22.75	22.58	22.70	24.00	23.02	23.03	23.29	24.00
3GPP Rel 6 HSDPA Subtest-1	22.08	22.04	21.97	23.00	22.02	21.90	22.10	23.00	22.09	22.07	22.26	23.00
3GPP Rel 6 HSDPA Subtest-2	22.06	22.06	22.02	23.00	22.05	22.06	22.18	23.00	22.08	22.12	22.29	23.00
3GPP Rel 6 HSDPA Subtest-3	21.21	21.55	21.47	22.50	21.57	21.52	21.78	22.50	21.60	21.58	21.82	22.50
3GPP Rel 6 HSDPA Subtest-4	21.54	21.57	21.52	22.50	21.48	21.56	21.21	22.50	21.56	21.61	21.38	22.50
3GPP Rel 6 DC-HSDPA Subtest-1	21.92	21.97	21.80	23.00	21.94	21.99	22.09	23.00	22.02	21.87	22.13	23.00
3GPP Rel 6 DC-HSDPA Subtest-2	21.99	21.87	21.99	23.00	21.99	22.03	22.08	23.00	21.99	21.93	22.26	23.00
3GPP Rel 6 DC-HSDPA Subtest-3	21.08	21.47	21.43	22.50	21.57	21.40	21.74	22.50	21.57	21.42	21.76	22.50
3GPP Rel 6 DC-HSDPA Subtest-4	21.53	21.53	21.42	22.50	21.26	21.51	21.20	22.50	21.36	21.47	21.20	22.50
3GPP Rel 6 HSUPA Subtest-1	22.08	22.07	22.02	23.00	21.99	22.03	21.84	23.00	22.03	22.03	22.17	23.00
3GPP Rel 6 HSUPA Subtest-2	20.05	20.06	20.05	21.00	19.87	19.86	19.89	21.00	19.87	20.02	20.13	21.00
3GPP Rel 6 HSUPA Subtest-3	21.07	21.04	20.99	22.00	20.96	20.99	20.99	22.00	21.01	21.01	21.20	23.00
3GPP Rel 6 HSUPA Subtest-4	20.08	20.03	19.98	21.00	19.98	20.00	19.89	21.00	19.99	20.00	20.18	21.00
3GPP Rel 6 HSUPA Subtest-5	22.10	22.10	22.00	23.00	22.00	22.00	22.10	23.00	22.00	22.00	22.20	23.00

Band TX Channel	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
	1013	384	777		25	800	1175		476	580	684	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1860	1808.75		817.9	820.5	823.1	
RC1 S055	24.13	24.23	24.54	25.00	24.32	24.55	24.38	25.00	23.90	24.28	24.22	25.00
RC3 S055	24.10	24.19	24.50	25.00	24.23	24.44	24.26	25.00	23.85	24.11	24.02	25.00
RC3 S032 (F-SCH)	24.14	24.24	24.53	25.00	24.44	24.52	24.35	25.00	24.25	24.27	24.18	25.00
RC3 S032 (H-SCH)	24.08	24.15	24.47	25.00	24.42	24.39	24.22	25.00	24.01	24.24	24.11	25.00
RTAP 150.8Kbps	23.85	23.94	24.25	25.00	23.72	23.81	23.69	25.00	24.72	24.14	24.08	25.00
RTAP 400.8Kbps	23.79	23.86	24.11	25.00	23.74	23.74	23.62	25.00	24.01	24.11	24.07	25.00



Band 2 (1900MHz Band) Part 24E										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				1870	1880	1900				
Frequency (MHz)				1860	1880	1900				
20	QPSK	1	0	22.94	22.91	22.84	24	0		
20	QPSK	1	49	22.57	22.59	22.64				
20	QPSK	1	99	22.47	22.55	22.48				
20	QPSK	50	0	21.96	21.95	21.90	23	1		
20	QPSK	50	24	21.87	21.84	21.82				
20	QPSK	50	50	21.64	21.77	21.73				
20	QPSK	100	0	21.84	21.81	21.82				
20	16QAM	1	0	22.12	22.11	22.12				
20	16QAM	1	49	22.03	22.11	22.08	23	1		
20	16QAM	1	99	21.78	21.88	21.79				
20	16QAM	50	0	20.94	20.90	20.88				
20	16QAM	50	24	20.83	20.85	20.87				
20	16QAM	50	50	20.60	20.76	20.74	22	2		
20	16QAM	100	0	20.75	20.79	20.80				
20	84QAM	1	0	21.10	20.99	20.94				
20	84QAM	1	49	20.98	20.94	20.85	22	2		
20	84QAM	1	99	20.74	20.76	20.69				
20	84QAM	50	0	19.92	19.94	19.86				
20	84QAM	50	24	19.79	19.85	19.85				
20	84QAM	50	50	19.59	19.74	19.70	21	3		
20	84QAM	100	0	19.74	19.79	19.80				
Channel				1867.5	1890	1912.5	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1875	1890	1902.5				
15	QPSK	1	0	22.24	22.88	22.84	24	0		
15	QPSK	1	37	22.51	22.71	22.44				
15	QPSK	1	74	22.39	22.47	22.48				
15	QPSK	36	0	21.92	21.80	21.90				
15	QPSK	36	20	21.75	21.64	21.83				
15	QPSK	36	39	21.64	21.66	21.71	23	1		
15	QPSK	75	0	21.71	21.69	21.68				
15	16QAM	1	0	22.01	22.01	22.02				
15	16QAM	1	37	21.93	22.02	21.96	23	1		
15	16QAM	1	74	21.70	21.77	21.77				
15	16QAM	36	0	20.85	20.92	20.70				
15	16QAM	36	20	20.70	20.73	20.87				
15	16QAM	36	39	20.51	20.70	20.79	22	2		
15	16QAM	75	0	20.55	20.80	20.79				
15	84QAM	1	0	20.98	20.82	20.76				
15	84QAM	1	37	20.94	20.79	20.84	22	2		
15	84QAM	1	74	20.66	20.72	20.57				
15	84QAM	36	0	19.81	19.89	19.85				
15	84QAM	36	20	19.75	19.85	19.76	21	3		
15	84QAM	36	39	19.59	19.60	19.52				
15	84QAM	75	0	19.59	19.72	19.64				
Channel				1865	1880	19150	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1855	1880	1905				
10	QPSK	1	0	22.81	22.76	22.69	24	0		
10	QPSK	1	25	22.38	22.47	22.57				
10	QPSK	1	49	22.40	22.52	22.39				
10	QPSK	25	0	21.79	21.96	21.86				
10	QPSK	25	12	21.63	21.71	21.69	23	1		
10	QPSK	25	25	21.57	21.74	21.53				
10	QPSK	50	0	21.76	21.63	21.73				
10	16QAM	1	0	21.96	22.05	22.01				
10	16QAM	1	25	21.97	22.08	21.92	23	1		
10	16QAM	1	49	21.70	21.75	21.72				
10	16QAM	25	0	20.91	20.94	20.78				
10	16QAM	25	12	20.81	20.73	20.79	22	2		
10	16QAM	25	25	20.42	20.67	20.85				
10	16QAM	50	0	20.82	20.86	20.71				
10	84QAM	1	0	20.95	20.98	20.90				
10	84QAM	1	25	20.79	20.86	20.67	22	2		
10	84QAM	1	49	20.73	20.67	20.59				
10	84QAM	25	0	19.92	19.91	19.76				
10	84QAM	25	12	19.82	19.77	19.81	21	3		
10	84QAM	25	25	19.49	19.68	19.66				
10	84QAM	50	0	19.60	19.61	19.80				
Channel				1862.5	1890	1917.5	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1872.5	1890	1907.5				
5	QPSK	1	0	22.78	22.83	22.74	24	0		
5	QPSK	1	12	22.37	22.41	22.58				
5	QPSK	1	24	22.46	22.35	22.33				
5	QPSK	12	0	21.76	21.80	21.84				
5	QPSK	12	7	21.80	21.64	21.75	23	1		
5	QPSK	12	13	21.58	21.72	21.73				
5	QPSK	25	0	21.73	21.81	21.85				
5	16QAM	1	0	22.03	21.97	22.12				
5	16QAM	1	12	22.03	22.11	22.04	23	1		
5	16QAM	1	24	21.71	21.86	21.79				
5	16QAM	12	0	20.92	20.95	20.73				
5	16QAM	12	7	20.63	20.79	20.80	22	2		
5	16QAM	12	13	20.60	20.60	20.60				
5	16QAM	25	0	20.85	20.89	20.85				
5	84QAM	1	0	21.02	20.94	20.87				
5	84QAM	1	12	20.87	20.75	20.83	22	2		
5	84QAM	1	24	20.61	20.61	20.53				
5	84QAM	12	0	19.90	19.88	19.68				
5	84QAM	12	7	19.76	19.85	19.85	21	3		
5	84QAM	12	13	19.57	19.55	19.56				
5	84QAM	25	0	19.66	19.73	19.70				
Channel				1861.5	1890	1918.5	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1871.5	1890	1908.5				
3	QPSK	1	0	22.91	22.91	22.81	24	0		
3	QPSK	1	8	22.49	22.47	22.64				
3	QPSK	1	14	22.37	22.45	22.44				
3	QPSK	8	0	21.92	21.87	21.84				
3	QPSK	8	4	21.64	21.68	21.67	23	1		
3	QPSK	8	7	21.45	21.70	21.73				
3	QPSK	15	0	21.71	21.81	21.69				
3	16QAM	1	0	22.06	21.91	22.00				
3	16QAM	1	8	21.93	22.08	22.07	23	1		
3	16QAM	1	14	21.75	21.77	21.62				
3	16QAM	8	0	20.80	20.81	20.85				
3	16QAM	8	4	20.82	20.78	20.78	22	2		
3	16QAM	8	7	20.46	20.74	20.55				
3	16QAM	15	0	20.85	20.70	20.77				
3	84QAM	1	0	21.02	20.91	20.85				
3	84QAM	1	8	20.96	20.87	20.65	22	2		
3	84QAM	1	14	20.59	20.56	20.58				
3	84QAM	8	0	19.80	19.78	19.80				
3	84QAM	8	4	19.71	19.76	19.77	21	3		
3	84QAM	8	7	19.58	19.63	19.60				
3	84QAM	15	0	19.60	19.79	19.74				
Channel				1857	1890	1909.3	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1867	1890	1904.3				
1.4	QPSK	1	0	22.90	22.72	22.67	24	0		
1.4	QPSK	1	3	22.54	22.40	22.56				
1.4	QPSK	1	5	22.41	22.44	22.28				
1.4	QPSK	3	0	22.77	22.84	22.74				
1.4	QPSK	3	1	22.51	22.54	22.73				
1.4	QPSK	3	3	22.49	22.85	22.45	23	1		
1.4	QPSK	6	0	21.80	21.89	21.82				
1.4	16QAM	1	0	21.98	22.02	21.98				
1.4	16QAM	1	3	21.93	21.92	22.00	23	1		
1.4	16QAM	1	5	21.64	21.69	21.67				
1.4	16QAM	3	0	21.80	21.67	21.61				
1.4	16QAM	3	1	21.52	21.71	21.57				
1.4	16QAM	3	1	21.47	21.60	21.58				
1.4	16QAM	6	0	20.74	20.70	20.78	22	2		
1.4	84QAM	1	0	21.09	20.90	20.88				
1.4	84QAM	1	3	20.79	20.83	20.72				
1.4	84QAM	1	5	20.63	20.64	20.61	22	2		
1.4	84QAM	3	0	20.72	20.74	20.72				
1.4	84QAM	3	1	20.85	20.54	20.64				
1.4	84QAM	3	1	20.33	20.50	20.51				
1.4	84QAM	6	0	19.70	19.61	19.80	21	3		

Band 4 (AWS Band) Part 27L (Only on channel required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				1720	1732.5	1745				
Frequency (MHz)				1720	1732.5	1745				
20	QPSK	1	0	22.99	22.95	22.98	24	0		
20	QPSK	1	49	23.07	22.97	23.26				
20	QPSK	1	99	22.97	22.96	23.33				
20	QPSK	50	0	22.11	21.95	22.05	23	1		
20	QPSK	50	24	22.16	21.98	22.03				
20	QPSK	50	50	22.01	21.96	22.29				
20	QPSK	100	0	22.16	22.03	22.09				
20	16QAM	1	0	22.37	22.28	22.35				
20	16QAM	1	49	22.52	22.34	22.39	23	1		
20	16QAM	1	99	22.29	22.31	22.70				
20	16QAM	50	0	21.03	20.86	21.11				



Band 7 (2600MHz Band)												
Part 27												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel				2050	2100	2150						
Frequency (MHz)				2510	2535	2550						
20	QPSK	1	0	22.97	23.21	23.25	24	0				
20	QPSK	1	49	22.89	23.24	23.30						
20	QPSK	1	99	23.06	23.25	23.46						
20	QPSK	50	0	21.91	22.21	22.34	23	1				
20	QPSK	50	24	21.91	22.31	22.30						
20	QPSK	50	50	22.04	22.39	22.42						
20	QPSK	100	0	22.01	22.22	22.32	23	1				
20	16QAM	1	0	22.40	22.58	22.18						
20	16QAM	1	49	22.31	22.62	22.59						
20	16QAM	50	0	22.39	22.39	22.75	22	2				
20	16QAM	50	24	20.52	21.26	21.37						
20	16QAM	50	50	20.94	21.26	21.44						
20	16QAM	100	0	20.99	21.29	21.32	22	2				
20	64QAM	1	0	21.31	21.67	21.58						
20	64QAM	1	49	21.12	21.40	21.55						
20	64QAM	50	0	19.91	20.21	20.29	21	3				
20	64QAM	50	24	19.95	20.38	20.38						
20	64QAM	50	50	19.96	20.33	20.27						
20	64QAM	100	0	20.00	20.24	20.34	24	0				
Channel				20825	21100	21375						
Frequency (MHz)				2507.5	2535	2562.5						
15	QPSK	1	0	22.71	22.85	22.87	24	0				
15	QPSK	1	37	22.72	22.83	22.88						
15	QPSK	1	74	23.05	23.40	23.43						
15	QPSK	36	0	22.06	22.44	22.36	23	1				
15	QPSK	36	20	22.10	22.43	22.43						
15	QPSK	36	39	22.03	22.37	22.42						
15	QPSK	75	0	22.07	22.42	22.43	23	1				
15	16QAM	1	0	22.38	22.79	22.89						
15	16QAM	1	37	22.37	22.79	22.80						
15	16QAM	1	74	22.38	22.81	22.85	22	2				
15	16QAM	36	0	21.09	21.51	21.42						
15	16QAM	36	20	21.12	21.47	21.41						
15	16QAM	36	39	21.02	21.37	21.47	22	2				
15	16QAM	75	0	21.05	21.42	21.43						
15	64QAM	1	0	21.30	21.60	21.78						
15	64QAM	1	37	21.18	21.61	21.49	22	2				
15	64QAM	1	74	21.33	21.57	21.68						
15	64QAM	36	0	20.08	20.47	20.41						
15	64QAM	36	20	20.14	20.45	20.43	21	3				
15	64QAM	36	39	20.01	20.31	20.47						
15	64QAM	75	0	20.02	20.44	20.41						
Channel				20800	21100	21400						
Frequency (MHz)				2505	2535	2565						
10	QPSK	1	0	22.86	22.97	22.84	24	0				
10	QPSK	1	25	23.06	23.16	22.99						
10	QPSK	1	49	23.16	23.23	23.28						
10	QPSK	25	0	21.99	22.45	22.51	23	1				
10	QPSK	25	12	22.00	22.45	22.50						
10	QPSK	25	25	22.02	22.44	22.49						
10	QPSK	50	0	22.04	22.47	22.55	23	1				
10	16QAM	1	0	22.58	22.88	22.99						
10	16QAM	1	25	22.31	22.73	22.87						
10	16QAM	1	49	22.52	22.85	22.92	22	2				
10	16QAM	25	0	21.02	21.46	21.50						
10	16QAM	25	12	21.03	21.47	21.49						
10	16QAM	25	25	21.02	21.46	21.44	22	2				
10	16QAM	50	0	21.08	21.49	21.49						
10	64QAM	1	0	21.51	21.75	21.88						
10	64QAM	1	25	21.15	21.63	21.59	22	2				
10	64QAM	1	49	21.37	21.81	21.82						
10	64QAM	25	0	19.99	20.46	20.43						
10	64QAM	25	12	19.99	20.44	20.46	21	3				
10	64QAM	25	25	20.06	20.46	20.52						
10	64QAM	50	0	20.06	20.48	20.52						
Channel				20775	21100	21425						
Frequency (MHz)				2502.5	2535	2567.5						
5	QPSK	1	0	22.80	22.86	22.86	24	0				
5	QPSK	1	12	22.87	22.97	23.15						
5	QPSK	1	24	22.94	23.38	23.39						
5	QPSK	12	0	21.96	22.47	22.53	23	1				
5	QPSK	12	7	22.00	22.48	22.48						
5	QPSK	12	13	21.93	22.37	22.46						
5	QPSK	25	0	21.91	22.44	22.51	23	1				
5	16QAM	1	0	22.34	22.74	22.87						
5	16QAM	1	12	22.22	22.71	22.73						
5	16QAM	1	24	22.20	22.76	22.71	22	2				
5	16QAM	12	0	21.01	21.49	21.53						
5	16QAM	12	7	21.05	21.50	21.52						
5	16QAM	12	13	20.95	21.46	21.49	22	2				
5	16QAM	25	0	20.94	21.51	21.49						
5	64QAM	1	0	21.22	21.65	21.67						
5	64QAM	1	12	21.20	21.58	21.68	22	2				
5	64QAM	1	24	21.15	21.64	21.61						
5	64QAM	12	0	20.00	20.49	20.51						
5	64QAM	12	7	20.09	20.51	20.50	21	3				
5	64QAM	12	13	19.95	20.43	20.47						
5	64QAM	25	0	19.90	20.49	20.49						

Band 12 (700MHz Low Band)										
Part 27F (only on channel required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				2090	2095	2135				
Frequency (MHz)				704	707.5	711				
10	QPSK	1	0	22.87	22.90	22.93	24	0		
10	QPSK	1	25	22.56	22.59	22.46				
10	QPSK	1	49	22.86	22.82	22.89				
10	QPSK	25	0	21.77	21.89	21.80	23	1		
10	QPSK	25	12	21.75	21.87	21.56				
10	QPSK	25	25	21.58	21.61	21.66				
10	QPSK	50	0	21.78	21.51	21.72	23	1		
10	16QAM	1	0	22.12	22.10	22.03				
10	16QAM	1	25	21.83	21.78	21.81				
10	16QAM	1	49	22.02	22.05	22.04	22	2		
10	16QAM	25	0	20.79	20.54	20.59				
10	16QAM	25	12	20.70	20.64	20.59				
10	16QAM	25	25	20.58	20.64	20.66	22	2		
10	16QAM	50	0	20.78	20.55	20.73				
10	64QAM	1	0	20.94	20.94	20.97				
10	64QAM	1	25	20.69	20.69	20.79	22	2		
10	64QAM	1	49	20.96	20.99	20.99				
10	64QAM	25	0	19.77	19.55	19.56				
10	64QAM	25	12	19.71	19.62	19.56	21	3		
10	64QAM	25	25	19.60	19.58	19.65				
10	64QAM	50	0	19.73	19.54	19.64				
Channel				23035	23095	23155				
Frequency (MHz)				701.5	707.5	713.5				
5	QPSK	1	0	22.70	22.72	22.91	24	0		
5	QPSK	1	12	22.87	22.81	22.37				
5	QPSK	1	24	22.71	22.75	22.77				
5	QPSK	12	0	21.62	21.47	21.48	23	1		
5	QPSK	12	7	21.58	21.58	21.37				
5	QPSK	12	13	21.55	21.51	21.48				
5	QPSK	25	0	21.70	21.36	21.55	23	1		
5	16QAM	1	0	22.06	22.05	22.03				
5	16QAM	1	12	21.65	21.66	21.62				
5	16QAM	1	24	21.95	21.93	21.87	22	2		
5	16QAM	12	0	20.64	20.39	20.46				
5	16QAM	12	7	20.66	20.53	20.50				
5	16QAM	12	13	20.48	20.51	20.47	22	2		
5	16QAM	25	0	20.71	20.37	20.65				
5	64QAM	1	0	20.84	20.94	20.89				
5	64QAM	1	12	20.57	20.53	20.77	22	2		
5	64QAM	1	24	20.78	20.84	20.89				
5	64QAM	12	0	19.60	19.43	19.53				
5	64QAM	12	7	19.57	19.52	19.43	21	3		
5	64QAM	12	13	19.40	19.45					
5	64QAM	25	0	19.56	19.46	19.51				
Channel				23025	23095	23165				
Frequency (MHz)				700.5	707.5	714.5				
3	QPSK	1	0	22.86	22.74	22.89	24	0		
3	QPSK	1	8	22.44	22.41					



Band 14 (700MHz Band)									
BW (MHz)	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)									
793									
10	QPSK	1	0	22.65					
10	QPSK	1	25	22.57			24	0	
10	QPSK	1	49	22.72					
10	QPSK	25	0	21.46					
10	QPSK	25	12	21.47			23	1	
10	QPSK	25	25	21.42					
10	QPSK	50	0	21.54					
10	16QAM	1	0	21.86					
10	16QAM	1	25	21.76			23	1	
10	16QAM	1	49	21.90					
10	16QAM	25	0	20.47					
10	16QAM	25	12	20.52			22	2	
10	16QAM	25	25	20.41					
10	16QAM	50	0	20.55					
10	16QAM	1	0	20.70					
10	64QAM	1	25	20.71			22	2	
10	64QAM	1	49	20.87					
10	64QAM	25	0	19.46					
10	64QAM	25	12	19.50			21	3	
10	64QAM	25	25	19.46					
10	64QAM	50	0	19.46					
Channel									
Frequency (MHz)									
2330									
5	QPSK	1	0	22.26	22.14	22.22	24	0	
5	QPSK	1	12	22.15	22.16	22.07			
5	QPSK	1	24	22.40	22.37	22.44			
5	QPSK	12	0	21.41	21.41	21.46	23	1	
5	QPSK	12	7	21.33	21.45	21.38			
5	QPSK	12	13	21.44	21.43	21.42			
5	QPSK	25	0	21.44	21.44	21.52			
5	16QAM	1	0	21.69	21.72	21.70	23	1	
5	16QAM	1	12	21.65	21.73	21.67			
5	16QAM	1	24	21.77	21.73	21.74			
5	16QAM	12	0	20.44	20.44	20.50	22	2	
5	16QAM	12	7	20.35	20.52	20.43			
5	16QAM	12	13	20.46	20.46	20.48			
5	16QAM	25	0	20.45	20.49	20.49	22	2	
5	64QAM	1	0	20.49	20.55	20.60			
5	64QAM	1	12	20.43	20.55	20.59	22	2	
5	64QAM	1	24	20.59	20.59	20.61			
5	64QAM	12	0	19.43	19.45	19.50	21	3	
5	64QAM	12	7	19.35	19.48	19.39			
5	64QAM	12	13	19.44	19.45	19.45			
5	64QAM	25	0	19.42	19.43	19.47			

Band 17 (700MHz Band) Part 27M(only on channel required)									
BW (MHz)	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)									
709 710 711									
10	QPSK	1	0	22.85	22.93	22.88			
10	QPSK	1	25	22.84	22.77	22.74	24	0	
10	QPSK	1	49	22.81	22.76	22.79			
10	QPSK	25	0	21.70	21.74	21.86			
10	QPSK	25	12	21.57	21.63	21.59	23	1	
10	QPSK	25	25	21.64	21.54	21.64			
10	QPSK	50	0	21.65	21.66	21.65			
10	16QAM	1	0	22.13	22.07	22.06			
10	16QAM	1	25	21.80	21.84	21.87	23	1	
10	16QAM	1	49	22.05	22.08	22.05			
10	16QAM	25	0	20.66	20.63	20.63			
10	16QAM	25	12	20.59	20.65	20.58	22	2	
10	16QAM	25	25	20.62	20.57	20.62			
10	16QAM	50	0	20.61	20.60	20.59			
10	64QAM	1	0	20.98	20.97	20.96			
10	64QAM	1	25	20.71	20.70	20.82	22	2	
10	64QAM	1	49	20.99	20.91	20.86			
10	64QAM	25	0	19.66	19.63	19.63			
10	64QAM	25	12	19.59	19.66	19.61	21	3	
10	64QAM	25	25	19.64	19.57	19.49			
10	64QAM	50	0	19.62	19.57	19.56			
Channel									
Frequency (MHz)									
2376 2379 2383									
5	QPSK	1	0	22.75	22.82	22.78			
5	QPSK	1	12	22.55	22.47	22.42	24	0	
5	QPSK	1	24	22.57	22.46	22.48			
5	QPSK	12	0	21.53	21.54	21.53			
5	QPSK	12	7	21.65	21.53	21.51	23	1	
5	QPSK	12	13	21.58	21.58	21.53			
5	QPSK	25	0	21.65	21.62	21.51			
5	16QAM	1	0	21.88	21.83	21.87			
5	16QAM	1	12	21.85	21.77	21.80	23	1	
5	16QAM	1	24	21.92	21.84	21.77			
5	16QAM	12	0	20.55	20.58	20.54			
5	16QAM	12	7	20.63	20.52	20.49	22	2	
5	16QAM	12	13	20.59	20.57	20.55			
5	16QAM	25	0	20.64	20.59	20.50			
5	64QAM	1	0	20.75	20.69	20.71			
5	64QAM	1	12	20.69	20.59	20.66	22	2	
5	64QAM	1	24	20.69	20.71	20.63			
5	64QAM	12	0	19.57	19.56	19.48			
5	64QAM	12	7	19.62	19.55	19.51	21	3	
5	64QAM	12	13	19.62	19.58	19.53			
5	64QAM	25	0	19.63	19.59	19.46			

Band 25 (1900MHz Band) Part 24E									
BW (MHz)	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)									
1909 1909 1905									
20	QPSK	1	0	22.90	22.76	22.93			
20	QPSK	1	49	22.60	22.74	22.74	24	0	
20	QPSK	1	99	22.51	22.61	22.65			
20	QPSK	50	0	21.93	21.77	21.96			
20	QPSK	50	24	20.92	21.75	21.79	23	1	
20	QPSK	50	50	21.74	21.69	21.69			
20	QPSK	100	0	21.79	21.79	21.88			
20	16QAM	1	0	22.10	22.03	22.05			
20	16QAM	1	49	21.95	22.06	21.98	23	1	
20	16QAM	1	99	21.52	21.77	21.48			
20	16QAM	50	0	20.92	20.74	20.76			
20	16QAM	50	24	20.77	20.75	20.81	22	2	
20	16QAM	50	50	20.74	20.69	20.73			
20	16QAM	100	0	20.77	20.70	20.76			
20	64QAM	1	0	20.98	20.94	21.05			
20	64QAM	1	49	20.89	20.93	20.90	22	2	
20	64QAM	1	99	20.57	20.87	20.54			
20	64QAM	50	0	19.80	19.87	19.86			
20	64QAM	50	24	19.89	19.83	19.85	21	3	
20	64QAM	50	50	19.84	19.76	19.83			
20	64QAM	100	0	19.87	19.82	19.87			
Channel									
Frequency (MHz)									
1937.5 1930 1927.5									
15	QPSK	1	0	22.76	22.74	22.63			
15	QPSK	1	37	22.55	22.65	22.65	24	0	
15	QPSK	1	74	22.44	22.42	22.49			
15	QPSK	36	0	21.71	21.71	21.67			
15	QPSK	36	20	21.69	21.58	21.81	23	1	
15	QPSK	36	39	21.73	21.66	21.60			
15	QPSK	75	0	21.61	21.66	21.71			
15	16QAM	1	0	21.95	22.00	21.96			
15	16QAM	1	37	21.93	21.87	21.90	23	1	
15	16QAM	1	74	21.35	21.58	21.42			
15	16QAM	36	0	20.80	20.63	20.76			
15	16QAM	36	20	20.66	20.56	20.74	22	2	
15	16QAM	36	39	20.71	20.50	20.73			
15	16QAM	75	0	20.62	20.66	20.65			
15	64QAM	1	0	20.92	20.76	21.00			
15	64QAM	1	37	20.79	20.78	20.72	22	2	
15	64QAM	1	74	20.55	20.62	20.47			
15	64QAM	36	0	19.73	19.74	19.73			
15	64QAM	36	20	19.88	19.84	19.89	21	3	
15	64QAM	36	39	19.75	19.74	19.82			
15	64QAM	75	0	19.84	19.75	19.82			
Channel									
Frequency (MHz)									
2090 20340 20640									
1855 1880 1910									
10	QPSK	1	0	22.66	22.58	22.68			
10	QPSK	1	25	22.45	22.71	22.58	24	0	
10	QPSK	1	49	22.46	22.45	22.58			
10	QPSK	25	0	21.65	21.63				



Band 26 for FCC (only on channel required)								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	22.64	22.74	22.95	24	0
15	QPSK	1	37	22.47	22.43	22.75		
15	QPSK	1	74	23.05	23.08	23.07		
15	QPSK	36	0	21.72	21.75	21.71	23	1
15	QPSK	36	20	21.57	21.54	21.66		
15	QPSK	36	39	21.46	21.44	21.60		
15	QPSK	75	0	21.63	21.68	21.67	23	1
15	16QAM	1	0	21.95	21.98	22.26		
15	16QAM	1	37	21.68	21.74	21.92		
15	16QAM	1	74	22.40	22.25	22.38	22	2
15	16QAM	36	0	20.67	20.67	20.93		
15	16QAM	36	20	20.54	20.53	20.65		
15	16QAM	36	39	20.43	20.40	20.56	22	2
15	16QAM	75	0	20.61	20.59	20.74		
15	64QAM	1	0	20.89	20.96	21.09		
15	64QAM	1	37	20.47	20.60	20.71	22	2
15	64QAM	1	74	21.11	21.13	21.10		
15	64QAM	36	0	19.73	19.69	19.91		
15	64QAM	36	20	19.58	19.55	19.67	21	3
15	64QAM	36	39	19.47	19.44	19.62		
15	64QAM	75	0	19.58	19.60	19.73		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	22.46	22.60	22.95	24	0
10	QPSK	1	25	22.47	22.37	22.67		
10	QPSK	1	49	22.86	22.96	23.00		
10	QPSK	25	0	21.53	21.60	21.85	23	1
10	QPSK	25	12	21.44	21.50	21.62		
10	QPSK	25	25	21.27	21.25	21.57		
10	QPSK	50	0	21.52	21.49	21.61	23	1
10	16QAM	1	0	21.85	21.91	21.97		
10	16QAM	1	25	21.59	21.67	21.86		
10	16QAM	1	49	22.29	22.10	22.30	22	2
10	16QAM	25	0	20.52	20.65	20.82		
10	16QAM	25	12	20.43	20.46	20.46		
10	16QAM	25	25	20.26	20.40	20.39	22	2
10	16QAM	50	0	20.46	20.57	20.63		
10	64QAM	1	0	20.70	20.81	20.89		
10	64QAM	1	25	20.41	20.60	20.66	22	2
10	64QAM	1	49	20.91	21.09	21.02		
10	64QAM	25	0	19.66	19.66	19.79		
10	64QAM	25	12	19.52	19.47	19.48	21	3
10	64QAM	25	25	19.37	19.26	19.52		
10	64QAM	50	0	19.40	19.54	19.57		
Channel				26716	26865	27016	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	22.60	22.66	22.94	24	0
5	QPSK	1	12	22.43	22.42	22.56		
5	QPSK	1	24	22.95	23.06	23.03		
5	QPSK	12	0	21.61	21.53	21.78	23	1
5	QPSK	12	7	21.43	21.41	21.65		
5	QPSK	12	13	21.32	21.24	21.46		
5	QPSK	25	0	21.56	21.58	21.68	23	1
5	16QAM	1	0	21.88	21.91	22.07		
5	16QAM	1	12	21.56	21.60	21.76		
5	16QAM	1	24	22.25	22.25	22.26	22	2
5	16QAM	12	0	20.65	20.58	20.74		
5	16QAM	12	7	20.39	20.48	20.55		
5	16QAM	12	13	20.25	20.33	20.47	22	2
5	16QAM	25	0	20.44	20.59	20.56		
5	64QAM	1	0	20.82	20.88	21.05		
5	64QAM	1	12	20.40	20.60	20.61	22	2
5	64QAM	1	24	20.94	21.03	21.03		
5	64QAM	12	0	19.68	19.58	19.80		
5	64QAM	12	7	19.44	19.48	19.50	21	3
5	64QAM	12	13	19.41	19.31	19.50		
5	64QAM	25	0	19.47	19.50	19.57		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	22.46	22.64	22.83	24	0
3	QPSK	1	8	22.45	22.32	22.74		
3	QPSK	1	14	22.95	22.92	22.94		
3	QPSK	8	0	21.56	21.65	21.75	23	1
3	QPSK	8	4	21.44	21.42	21.50		
3	QPSK	8	7	21.39	21.43	21.40		
3	QPSK	15	0	21.53	21.50	21.60	23	1
3	16QAM	1	0	21.86	21.90	22.11		
3	16QAM	1	8	21.66	21.58	21.91		
3	16QAM	1	14	22.33	22.26	22.28	22	2
3	16QAM	8	0	20.53	20.52	20.84		
3	16QAM	8	4	20.46	20.39	20.48		
3	16QAM	8	7	20.32	20.30	20.52	22	2
3	16QAM	15	0	20.61	20.40	20.60		
3	64QAM	1	0	20.81	20.81	21.00		
3	64QAM	1	8	20.45	20.59	20.59	22	2
3	64QAM	1	14	21.04	21.07	20.98		
3	64QAM	8	0	19.67	19.53	19.76		
3	64QAM	8	4	19.52	19.37	19.54	21	3
3	64QAM	8	7	19.36	19.44	19.42		
3	64QAM	15	0	19.39	19.54	19.71		
Channel				26997	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	22.49	22.61	22.80	24	0
1.4	QPSK	1	3	22.32	22.32	22.75		
1.4	QPSK	1	5	23.05	23.07	22.88		
1.4	QPSK	3	0	22.42	22.43	22.74	23	1
1.4	QPSK	3	1	22.29	22.34	22.47		
1.4	QPSK	3	3	22.35	22.26	22.49		
1.4	QPSK	6	0	21.63	21.42	21.67	23	1
1.4	16QAM	1	0	21.82	21.81	22.22		
1.4	16QAM	1	3	21.60	21.60	21.92		
1.4	16QAM	1	5	22.35	22.11	22.22	23	1
1.4	16QAM	3	0	21.53	21.36	21.70		
1.4	16QAM	3	1	21.24	21.39	21.38		
1.4	16QAM	3	3	21.13	21.23	21.36	22	2
1.4	16QAM	6	0	20.50	20.45	20.62		
1.4	64QAM	1	0	20.69	20.94	20.97		
1.4	64QAM	1	3	20.36	20.64	20.62	22	2
1.4	64QAM	1	5	20.94	21.10	20.95		
1.4	64QAM	3	0	20.49	20.47	20.66		
1.4	64QAM	3	1	20.42	20.34	20.37	21	3
1.4	64QAM	3	3	20.27	20.29	20.34		
1.4	64QAM	6	0	19.45	19.55	19.69		

Band 30								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				27710	27710	27710		
Frequency (MHz)				2310				
10	QPSK	1	0		22.92		24	0
10	QPSK	1	25		22.61			
10	QPSK	1	49		22.86			
10	QPSK	25	0		21.75		23	1
10	QPSK	25	12		21.66			
10	QPSK	25	25		21.79			
10	QPSK	50	0		21.72		23	1
10	16QAM	1	0		22.23			
10	16QAM	1	25		22.01			
10	16QAM	1	49		22.31		22	2
10	16QAM	25	0		20.76			
10	16QAM	25	12		20.63			
10	16QAM	25	25		20.74		22	2
10	16QAM	50	0		20.69			
10	64QAM	1	0		21.14			
10	64QAM	1	25		20.76		22	2
10	64QAM	1	49		21.21			
10	64QAM	25	0		19.67			
10	64QAM	25	12		19.61		21	3
10	64QAM	25	25		19.73			
10	64QAM	50	0		19.69			
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	22.86	22.83	22.82	24	0
5	QPSK	1	12	22.66	22.78	22.80		
5	QPSK	1	24	22.49	22.63	22.71		
5	QPSK	12	0	21.76	21.73	21.74	23	1
5	QPSK	12	7	21.69	21.76	21.74		
5	QPSK	12	13	21.66	21.69	21.78		
5	QPSK	25	0	21.72	21.63	21.75	23	1
5	16QAM	1	0	22.23	22.09	22.14		
5	16QAM	1	12	21.93	21.97	22.03		
5	16QAM	1	24	21.95	22.03	22.14	22	2
5	16QAM	12	0	20.76	20.74	20.75		
5	16QAM	12	7	20.72	20.79	20.75		
5	16QAM	12	13	20.62	20.69	20.81	22	2
5	16QAM	25	0	20.73	20.68	20.76		
5	64QAM	1	0	21.08	21.02	21.01		
5	64QAM	1	12	20.91	20.92	20.85	22	2
5	64QAM	1	24</					



Band 66									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				13322	13332	13372			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	22.61	22.67	22.89			
20	QPSK	1	49	22.58	22.65	22.88	24	0	
20	QPSK	1	99	22.73	23.08	23.30			
20	QPSK	50	0	21.57	21.64	21.70			
20	QPSK	50	24	21.61	21.70	21.74	23	1	
20	QPSK	50	50	21.58	21.90	22.08			
20	QPSK	100	0	21.67	21.79	21.97			
20	16QAM	1	0	21.90	21.84	21.71			
20	16QAM	1	49	21.97	22.12	22.03	23	1	
20	16QAM	1	99	22.07	22.08	22.10			
20	16QAM	50	0	20.56	20.81	20.61			
20	16QAM	50	24	20.61	21.00	20.78	22	2	
20	16QAM	50	50	20.58	21.11	20.90			
20	16QAM	100	0	20.60	20.97	20.73			
20	64QAM	1	0	20.78	20.78	20.61			
20	64QAM	1	49	20.66	20.99	20.87	22	2	
20	64QAM	1	99	20.95	21.08	21.10			
20	64QAM	50	0	19.56	19.79	19.62			
20	64QAM	50	24	19.60	19.97	19.76	21	3	
20	64QAM	50	50	19.56	20.12	19.88			
20	64QAM	100	0	19.58	19.93	19.74			
Channel				13202	13232	13257	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				17175	1745	17725			
15	QPSK	1	0	22.54	22.98	22.86	24	0	
15	QPSK	1	37	22.36	22.93	22.77			
15	QPSK	1	74	22.64	22.91	23.14			
15	QPSK	36	0	21.70	21.93	21.86			
15	QPSK	36	20	21.55	21.95	21.90	23	1	
15	QPSK	36	39	21.54	22.02	21.93			
15	QPSK	75	0	21.59	21.91	21.87			
15	16QAM	1	0	22.25	22.27	22.24			
15	16QAM	1	37	21.89	22.13	22.22	23	1	
15	16QAM	1	74	21.89	22.23	22.44			
15	16QAM	36	0	20.64	20.91	20.83			
15	16QAM	36	20	20.52	20.95	20.87	22	2	
15	16QAM	36	39	20.52	21.02	20.91			
15	16QAM	75	0	20.61	20.97	20.88			
15	64QAM	1	0	21.09	21.19	21.04			
15	64QAM	1	37	20.58	20.91	20.91	22	2	
15	64QAM	1	74	20.83	21.21	21.22			
15	64QAM	36	0	19.69	19.92	19.86			
15	64QAM	36	20	19.55	19.93	19.89	21	3	
15	64QAM	36	39	19.55	20.05	19.95			
15	64QAM	75	0	19.56	19.95	19.88			
Channel				13202	13232	13262	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	22.62	22.94	23.06	24	0	
10	QPSK	1	25	22.67	23.10	22.96			
10	QPSK	1	49	23.02	23.02	23.17			
10	QPSK	25	0	21.75	22.00	21.97			
10	QPSK	25	12	21.78	22.10	22.08	23	1	
10	QPSK	25	25	21.77	22.30	22.20			
10	QPSK	50	0	21.77	22.10	22.04			
10	16QAM	1	0	21.69	21.62	21.61			
10	16QAM	1	25	21.98	22.31	22.33	23	1	
10	16QAM	1	49	22.31	22.16	22.31			
10	16QAM	25	0	20.76	21.08	20.87			
10	16QAM	25	12	20.75	21.17	21.07	22	2	
10	16QAM	25	25	20.72	21.32	21.14			
10	16QAM	50	0	20.76	21.15	21.01			
10	64QAM	1	0	20.33	20.58	20.49			
10	64QAM	1	25	20.75	21.19	21.12	22	2	
10	64QAM	1	49	21.21	21.11	21.05			
10	64QAM	25	0	19.75	20.05	19.98			
10	64QAM	25	12	19.78	20.16	20.07	21	3	
10	64QAM	25	25	19.75	20.34	20.22			
10	64QAM	50	0	19.74	20.13	20.01			
Channel				13197	13222	13267	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				17125	1745	17775			
5	QPSK	1	0	22.46	23.06	23.07	24	0	
5	QPSK	1	12	22.77	23.10	23.04			
5	QPSK	1	24	22.67	23.16	23.01			
5	QPSK	12	0	21.83	22.09	22.16			
5	QPSK	12	7	21.79	22.05	22.11	23	1	
5	QPSK	12	13	21.69	22.05	22.09			
5	QPSK	25	0	21.82	22.10	22.10			
5	16QAM	1	0	22.31	22.45	22.40			
5	16QAM	1	12	22.02	22.27	22.36	23	1	
5	16QAM	1	24	22.05	22.47	22.37			
5	16QAM	12	0	20.85	21.18	21.17			
5	16QAM	12	7	20.81	21.13	21.12	22	2	
5	16QAM	12	13	20.69	21.14	21.10			
5	16QAM	25	0	20.82	21.13	21.12			
5	64QAM	1	0	21.12	21.35	21.29			
5	64QAM	1	12	20.90	21.24	21.18	22	2	
5	64QAM	1	24	20.84	21.32	21.28			
5	64QAM	12	0	19.87	20.20	20.19			
5	64QAM	12	7	19.85	20.16	20.12	21	3	
5	64QAM	12	13	19.72	20.12	20.08			
5	64QAM	25	0	19.83	20.14	20.11			
Channel				13197	13232	13267	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				17115	1745	1778.5			
3	QPSK	1	0	22.75	23.12	23.11	24	0	
3	QPSK	1	8	22.76	23.10	23.06			
3	QPSK	1	14	22.70	23.07	23.04			
3	QPSK	8	0	21.82	22.10	22.11			
3	QPSK	8	4	21.81	22.11	22.12	23	1	
3	QPSK	8	7	21.76	22.07	22.09			
3	QPSK	15	0	21.77	22.05	22.06			
3	16QAM	1	0	22.16	22.42	22.45			
3	16QAM	1	8	22.16	22.40	22.43	23	1	
3	16QAM	1	14	22.11	22.38	22.43			
3	16QAM	8	0	20.83	21.13	21.14			
3	16QAM	8	4	20.87	21.16	21.17	22	2	
3	16QAM	8	7	20.81	21.10	21.13			
3	16QAM	15	0	20.80	21.12	21.11			
3	64QAM	1	0	20.95	21.29	21.31			
3	64QAM	1	8	20.95	21.24	21.26	22	2	
3	64QAM	1	14	20.89	21.25	21.20			
3	64QAM	8	0	19.86	20.17	20.13			
3	64QAM	8	4	19.85	20.16	20.18	21	3	
3	64QAM	8	7	19.80	20.14	20.13			
3	64QAM	15	0	19.79	20.11	20.10			
Channel				13197	13222	13267	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				17107	1745	17723			
1.4	QPSK	1	0	22.59	23.05	23.04	24	0	
1.4	QPSK	1	3	22.74	23.09	23.11			
1.4	QPSK	1	5	22.75	23.08	23.04			
1.4	QPSK	3	0	22.79	23.09	23.07			
1.4	QPSK	3	1	22.79	23.12	23.17			
1.4	QPSK	3	3	22.74	23.11	23.12			
1.4	QPSK	6	0	21.69	21.97	22.02	23	1	
1.4	16QAM	1	0	22.08	22.35	22.38			
1.4	16QAM	1	3	22.14	22.37	22.45	23	1	
1.4	16QAM	1	5	22.05	22.33	22.39			
1.4	16QAM	3	0	21.75	22.02	22.11			
1.4	16QAM	3	1	21.82	22.04	22.17			
1.4	16QAM	3	3	21.75	22.01	22.06	22	2	
1.4	16QAM	6	0	20.79	21.21	21.12			
1.4	64QAM	1	0	20.89	21.21	21.24			
1.4	64QAM	1	3	20.89	21.20	21.23			
1.4	64QAM	1	5	20.87	21.22	21.23	22	2	
1.4	64QAM	3	0	20.84	21.19	21.18			
1.4	64QAM	3	1	20.92	21.22	21.25			
1.4	64QAM	3	3	20.83	21.18	21.16			
1.4	64QAM	6	0	19.74	20.05	20.09	21	3	

Band 71									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				13322	13332	13372			
Frequency (MHz)				673	683	688			
20	QPSK	1	0	22.01	22.20	22.11			
20	QPSK	1	49	22.43	22.50	22.56	24	0	
20	QPSK	1	99	22.56	22.70	22.65			
20	QPSK	50	0	21.49	21.40	21.34			
20	QPSK	50	24	21.54	21.65	21.63	23	1	
20	QPSK	50	50	21.63	21.52	21.62			
20	QPSK	100	0	21.63	21.64	21.51			
20	16QAM	1	0	21.13	21.08	21.26			
20	16QAM	1	49	21.84	21.88	22.05	23	1	
20	16QAM	1	99	21.76	21.71	22.00			
20	16QAM	50	0	20.36	20.24	20.32			
20	16QAM	50	24	20.68	20.66	20.53	22	2	
20	16QAM	50	50	20.41	20.54	20.56			
20	16QAM	100	0	20.52	20.55	20.44			
20	64QAM	1	0	20.72	20.66	20.50			
20	64QAM	1	49	20.76	20.36	20.48	22	2	
20	64QAM	1	99	20.54	20.49	20.65			
20	64QAM	50	0	19.45	19.3				



Band 38(only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Middle Ch. (Freq)	Power High Ch. (Freq)	Tune-up limit (dBm)	MPR (dB)	
Channel									
37650 38500 38150									
Frequency (MHz)									
20	QPSK	1	0	22.92	22.76	22.85	24	0	
20	QPSK	1	49	22.97	22.81	22.91			
20	QPSK	1	99	23.02	22.85	22.92			
20	QPSK	50	0	22.12	22.04	21.82	23	1	
20	QPSK	50	24	22.28	22.10	22.11			
20	QPSK	50	50	22.25	21.87	22.07			
20	QPSK	100	0	21.97	21.81	22.11			
20	16QAM	1	0	21.95	21.69	21.76	23	1	
20	16QAM	1	49	22.07	21.90	21.91			
20	16QAM	1	99	22.01	21.86	21.96			
20	16QAM	50	0	21.16	21.10	21.11			
20	16QAM	50	24	21.30	20.91	20.93			
20	16QAM	50	50	21.12	20.92	20.98	22	2	
20	16QAM	100	0	20.93	20.88	21.09			
20	16QAM	100	0	20.70	20.50	20.55			
20	64QAM	1	49	20.89	20.47	20.49	22	2	
20	64QAM	1	99	20.83	20.55	20.52			
20	64QAM	50	0	19.81	19.72	19.71			
20	64QAM	50	24	20.06	19.74	19.87	21	3	
20	64QAM	50	50	20.26	20.03	19.90			
20	64QAM	100	0	20.15	20.02	20.20			
Channel									
38150 41150									
Frequency (MHz)									
15	QPSK	1	0	22.80	22.61	22.79	24	0	
15	QPSK	1	49	22.87	22.68	22.79			
15	QPSK	1	99	22.93	22.76	22.87			
15	QPSK	36	0	22.05	21.92	22.03	23	1	
15	QPSK	36	20	22.22	22.02	22.09			
15	QPSK	36	39	22.19	22.02	22.06			
15	QPSK	75	0	22.17	21.96	22.05			
15	16QAM	1	0	21.96	21.86	21.86	23	1	
15	16QAM	1	49	22.09	21.89	21.97			
15	16QAM	1	99	22.12	21.85	22.01			
15	16QAM	36	0	21.05	20.92	20.99	22	2	
15	16QAM	36	20	21.22	20.99	21.05			
15	16QAM	36	39	21.10	21.00	21.08			
15	16QAM	75	0	21.16	20.99	21.05			
15	64QAM	1	37	20.70	20.40	20.51	22	2	
15	64QAM	1	74	20.86	20.64	20.71			
15	64QAM	36	0	20.17	20.06	20.12	21	3	
15	64QAM	36	20	20.34	20.13	20.18			
15	64QAM	36	39	20.34	20.13	20.20			
15	64QAM	75	0	20.25	20.07	20.18			
Channel									
38500 39500									
Frequency (MHz)									
10	QPSK	1	0	23.19	22.88	23.13	24	0	
10	QPSK	1	49	23.28	23.07	23.22			
10	QPSK	25	0	22.38	22.05	22.24	23	1	
10	QPSK	25	12	22.51	22.21	22.21			
10	QPSK	25	25	22.47	22.18	22.26			
10	QPSK	50	0	21.97	21.88	21.86	23	1	
10	16QAM	1	0	22.40	22.22	22.29			
10	16QAM	1	25	22.35	22.07	22.05			
10	16QAM	1	49	22.48	22.16	22.26	22	2	
10	16QAM	25	0	21.32	20.90	20.97			
10	16QAM	25	12	21.43	20.98	21.25			
10	16QAM	25	25	21.20	21.02	21.09			
10	16QAM	50	0	21.12	20.83	21.26	21	3	
10	16QAM	50	12	20.97	20.62	20.16			
10	16QAM	50	25	20.43	20.17	20.23			
10	64QAM	1	24	20.12	19.86	20.07			
Channel									
39500 39500									
Frequency (MHz)									
5	QPSK	1	0	23.14	23.05	23.03	24	0	
5	QPSK	1	12	23.03	22.95	22.96			
5	QPSK	1	24	23.14	22.98	23.06			
5	QPSK	12	0	22.39	22.02	22.15	23	1	
5	QPSK	12	7	22.52	22.07	22.17			
5	QPSK	12	15	22.59	22.05	22.19			
5	QPSK	25	0	22.04	21.90	22.24	24	1	
5	16QAM	1	0	22.29	22.11	22.25			
5	16QAM	1	24	22.06	22.06	22.05	24	1	
5	16QAM	12	0	21.07	21.16	21.14	22	2	
5	16QAM	12	7	21.09	21.06	21.10			
5	16QAM	12	15	21.03	20.99	21.02			
5	16QAM	25	0	21.38	21.06	21.16	22	2	
5	64QAM	1	0	21.02	20.64	20.88			
5	64QAM	1	12	20.97	20.75	20.79			
5	64QAM	1	24	21.05	20.80	21.27	21	3	
5	64QAM	12	0	20.44	20.02	20.13			
5	64QAM	12	7	20.15	20.06	20.04			
5	64QAM	12	15	20.15	20.06	20.09			
5	64QAM	25	0	20.40	20.02	20.14			

Band 41 (2.6G Band)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Middle Ch. (Freq)	Power High Ch. (Freq)	Tune-up limit (dBm)	MPR (dB)	
Channel									
39750 40185 40620 41055 41490									
Frequency (MHz)									
20	QPSK	1	0	23.57	23.39	23.24	25	0	
20	QPSK	1	49	23.61	23.42	23.36			
20	QPSK	1	99	23.27	23.53	23.27			
20	QPSK	50	0	22.85	22.85	22.76	24	1	
20	QPSK	50	24	22.90	22.90	22.90			
20	QPSK	50	50	22.75	22.93	22.77			
20	QPSK	100	0	22.76	23.01	22.77			
20	16QAM	1	0	22.72	22.81	22.69	24	1	
20	16QAM	1	49	22.91	22.87	22.74			
20	16QAM	1	99	22.34	22.22	22.14			
20	16QAM	50	0	21.87	22.06	21.70	23	2	
20	16QAM	50	24	21.93	22.10	21.91			
20	16QAM	50	50	21.81	21.86	21.80			
20	16QAM	100	0	21.73	21.82	21.71			
20	64QAM	1	49	21.26	21.46	21.07	23	2	
20	64QAM	1	99	21.23	21.07	21.21			
20	64QAM	50	0	20.89	21.02	20.85	22	3	
20	64QAM	50	24	20.87	21.03	20.85			
20	64QAM	50	50	20.74	20.85	20.76			
20	64QAM	100	0	20.75	20.96	20.72			
Channel									
40185 41055									
Frequency (MHz)									
15	QPSK	1	0	23.62	23.84	23.17	25	0	
15	QPSK	1	49	23.30	23.34	23.26			
15	QPSK	1	99	23.30	23.34	23.33			
15	QPSK	36	0	22.86	23.19	22.71	24	1	
15	QPSK	36	20	22.89	23.18	22.80			
15	QPSK	36	39	22.98	23.12	22.95			
15	QPSK	75	0	22.83	23.12	22.79			
15	16QAM	1	0	22.48	22.48	22.18	24	1	
15	16QAM	1	49	22.48	22.38	22.23			
15	16QAM	1	99	22.17	22.18	22.05			
15	16QAM	36	0	21.80	22.12	21.69	23	2	
15	16QAM	36	20	21.83	22.12	21.83			
15	16QAM	36	39	21.91	22.14	21.89			
15	16QAM	75	0	21.82	22.12	21.82			
15	64QAM	1	37	21.34	21.24	21.39	23	2	
15	64QAM	1	74	21.18	21.25	21.16			
15	64QAM	36	0	20.70	21.02	20.67	22	3	
15	64QAM	36	20	20.82	21.06	20.84			
15	64QAM	36	39	20.85	21.02	20.87			
15	64QAM	75	0	20.75	21.04	20.78			
Channel									
40620 41055									
Frequency (MHz)									
10	QPSK	1	0	23.74	23.91	23.59	25	0	
10	QPSK	1	49	23.76	23.96	23.76			
10	QPSK	25	0	22.78	23.18	22.89	24	1	
10	QPSK	25	12	22.90	23.19	22.99			
10	QPSK	25	25	22.90	23.16	22.95			
10	QPSK	50	0	22.83	23.21	22.87	24	1	
10	16QAM	1	0	22.91	23.06	22.72	24	1	
10	16QAM	1	25	22.90	23.07	22.85			
10	16QAM	1	49	22.88	23.03	22.88			
10	16QAM	25	0	21.80	22.23	21.95	23	2	
10	16QAM	25	12	21.90	22.20	22.01			
10	16QAM	25	25	21.90	22.14	21.97			



Reduced Power Mode for P-Sensor On

GSM1900 TX Channel Frequency (MHz)	Baseband Average Power (dBm)			Tune-up Limit (dBm)	Carrier Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	22.89	23.00	22.76	24.00	13.99	14.00	13.76	15.00
GPRS 1 Tx slot	22.97	22.95	22.70	24.00	13.97	13.95	13.70	15.00
GPRS 3 Tx slots	20.08	21.05	20.84	22.50	14.98	15.05	14.94	16.50
GPRS 3 Tx slots	18.67	18.64	18.76	20.00	14.41	14.38	14.50	15.74
GPRS 4 Tx slots	16.67	16.70	16.85	18.00	13.67	13.70	13.85	15.00
EDGE 1 Tx slot	18.69	18.81	18.55	20.00	9.69	9.81	9.55	11.00
EDGE 3 Tx slots	18.52	18.75	18.61	18.00	10.52	10.75	10.61	12.00
EDGE 3 Tx slots	14.47	14.41	14.36	15.50	10.21	10.15	10.10	11.24
EDGE 4 Tx slots	13.54	13.44	13.41	14.50	10.54	10.44	10.41	11.50

Band TX Channel Frequency (MHz)	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	5262	8400	9538		1312	1413	1513		4152	4182	4233		
1850.2	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6			
3GPP Rel 99	AMR 12.2Kbps	14.30	14.34	14.26	15.50	13.44	13.36	13.50	15.50	21.87	21.86	22.08	23.00
3GPP Rel 99	RMC 12.2Kbps	14.31	14.45	14.42	15.50	14.05	13.88	14.09	15.50	21.88	21.89	22.15	23.00
3GPP Rel 6	HSDPA Subtest-1	13.18	13.14	13.07	14.50	12.82	12.79	12.98	14.50	20.95	20.93	21.12	22.00
3GPP Rel 6	HSDPA Subtest-2	13.16	13.16	13.12	14.50	12.85	12.88	12.98	14.50	20.94	20.98	21.15	22.00
3GPP Rel 6	HSDPA Subtest-3	12.31	12.65	12.67	14.00	12.37	12.32	12.58	14.00	20.46	20.44	20.68	21.50
3GPP Rel 6	HSDPA Subtest-4	12.64	12.67	12.62	14.00	12.28	12.38	12.01	14.00	20.42	20.47	20.25	21.50
3GPP Rel 6	DC-HSDPA Subtest-1	13.02	13.07	12.90	14.50	12.74	12.79	12.89	14.50	20.98	20.75	20.99	22.00
3GPP Rel 6	DC-HSDPA Subtest-2	13.09	12.97	13.09	14.50	12.79	12.83	12.88	14.50	20.85	20.79	21.12	22.00
3GPP Rel 6	DC-HSDPA Subtest-3	12.19	12.57	12.53	14.00	12.37	12.20	12.54	14.00	20.43	20.28	20.62	21.50
3GPP Rel 6	DC-HSDPA Subtest-4	12.63	12.63	12.52	14.00	12.06	12.31	12.00	14.00	20.22	20.33	20.04	21.50
3GPP Rel 6	HSUPA Subtest-1	13.16	13.17	13.12	14.50	12.79	12.86	12.64	14.50	20.89	20.89	21.03	22.00
3GPP Rel 6	HSUPA Subtest-2	11.15	11.16	11.15	12.50	10.67	10.66	10.69	12.50	18.83	18.88	18.99	20.00
3GPP Rel 6	HSUPA Subtest-3	12.17	12.14	12.09	13.50	11.76	11.79	11.79	13.50	19.87	19.87	20.06	21.00
3GPP Rel 6	HSUPA Subtest-4	11.18	11.13	11.08	12.50	10.78	10.80	10.69	12.50	18.85	18.86	19.04	20.00
3GPP Rel 6	HSUPA Subtest-5	13.20	13.20	13.10	14.50	12.80	12.80	12.90	14.50	20.88	20.86	21.08	22.00

Band TX Channel Frequency (MHz)	CDMA BC1			Tune-up Limit (dBm)
	26	800	1175	
1851.25	1880	1908.75		
RC1 S055	16.39	16.42	16.33	17.00
RC1 S065	18.21	18.31	18.17	17.00
RC3 S036 (FASCH)	16.31	16.39	16.22	17.00
RC3 S032 (FASCH)	16.29	16.28	16.19	17.00
RTAP 163.6Kbps	15.59	15.68	15.58	17.00
RETAP 4096Bps	15.61	15.61	15.58	17.00



Band 2 (1800MHz Band) Part 24E									
BW (MHz)	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)				1860	1880	1900			
20	QPSK	1	0	14.97	14.85	14.89			
20	QPSK	1	49	14.66	14.70	14.59			
20	QPSK	1	99	14.43	14.53	14.41			
20	QPSK	50	0	14.88	14.88	14.89			
20	QPSK	50	24	14.84	14.84	14.81			
20	QPSK	50	50	14.63	14.76	14.74			
20	QPSK	100	0	14.77	14.77	14.62			
20	16QAM	1	0	15.54	15.36	15.36			
20	16QAM	1	49	15.27	15.22	15.15			
20	16QAM	1	99	14.90	14.97	14.92			
20	16QAM	50	0	14.99	14.91	14.92			
20	16QAM	50	24	14.86	14.85	14.91			
20	16QAM	50	50	14.63	14.72	14.75			
20	16QAM	100	0	14.79	14.77	14.82			
20	64QAM	1	0	15.18	15.11	14.89			
20	64QAM	1	49	15.00	14.93	14.91			
20	64QAM	1	99	14.70	14.74	14.68			
20	64QAM	50	0	14.94	14.93	14.89			
20	64QAM	50	24	14.83	14.83	14.89			
20	64QAM	50	50	14.62	14.75	14.72			
20	64QAM	100	0	14.82	14.78	14.80			
Channel									
Frequency (MHz)				1867.5	1890	1912.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	15.04	15.10	15.03			
15	QPSK	1	37	14.42	14.51	14.49			
15	QPSK	1	74	14.96	14.97	15.02			
15	QPSK	36	0	14.90	14.87	14.87			
15	QPSK	36	20	14.81	14.84	14.88			
15	QPSK	36	39	14.78	14.83	14.87			
15	QPSK	75	0	14.81	14.76	14.87			
15	16QAM	1	0	15.54	15.51	15.55			
15	16QAM	1	37	15.40	15.34	15.32			
15	16QAM	1	74	15.37	15.40	15.33			
15	16QAM	36	0	14.91	14.89	14.88			
15	16QAM	36	20	14.86	14.81	14.88			
15	16QAM	36	39	14.77	14.82	14.84			
15	16QAM	75	0	14.80	14.79	14.87			
15	64QAM	1	0	15.28	15.26	15.29			
15	64QAM	1	37	14.98	14.96	14.89			
15	64QAM	1	74	15.05	15.27	15.05			
15	64QAM	36	0	14.92	14.87	14.89			
15	64QAM	36	20	14.84	14.80	14.87			
15	64QAM	36	39	14.79	14.81	14.80			
15	64QAM	75	0	14.79	14.79	14.89			
Channel									
Frequency (MHz)				1865	1890	1915	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	15.17	15.07	15.02			
10	QPSK	1	25	14.89	14.86	14.93			
10	QPSK	1	49	14.97	14.86	15.02			
10	QPSK	25	0	15.11	14.94	15.02			
10	QPSK	25	12	15.07	14.96	15.03			
10	QPSK	25	25	15.04	14.91	15.05			
10	QPSK	50	0	15.06	14.96	15.03			
10	16QAM	1	0	15.52	15.50	15.45			
10	16QAM	1	25	15.35	15.38	15.39			
10	16QAM	1	49	15.43	15.37	15.41			
10	16QAM	25	0	15.02	14.93	15.02			
10	16QAM	25	12	15.07	14.95	15.05			
10	16QAM	25	25	15.03	14.88	15.01			
10	16QAM	50	0	15.07	14.93	14.98			
10	64QAM	1	0	15.29	15.34	15.20			
10	64QAM	1	25	15.20	15.21	15.21			
10	64QAM	1	49	15.29	15.28	15.21			
10	64QAM	25	0	15.08	14.91	15.03			
10	64QAM	25	12	15.09	14.95	15.02			
10	64QAM	25	25	15.01	14.92	15.07			
10	64QAM	50	0	15.07	14.95	14.96			
Channel									
Frequency (MHz)				1862.5	1890	1917.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	15.15	15.06	15.14			
5	QPSK	1	12	14.87	14.89	14.84			
5	QPSK	1	24	14.97	14.89	14.96			
5	QPSK	12	0	15.07	15.06	15.06			
5	QPSK	12	7	15.11	15.02	15.05			
5	QPSK	12	13	15.07	14.93	15.03			
5	QPSK	25	0	15.08	15.00	15.08			
5	16QAM	1	0	15.45	15.42	15.41			
5	16QAM	1	12	15.35	15.38	15.40			
5	16QAM	1	24	15.33	15.22	15.31			
5	16QAM	12	0	15.08	15.10	15.09			
5	16QAM	12	7	15.16	14.99	15.07			
5	16QAM	12	13	15.06	14.99	15.02			
5	16QAM	25	0	15.07	14.98	15.01			
5	64QAM	1	0	15.33	15.26	15.32			
5	64QAM	1	12	15.20	15.11	15.15			
5	64QAM	1	24	15.27	15.15	15.13			
5	64QAM	12	0	15.09	15.03	15.08			
5	64QAM	12	7	15.10	14.99	15.05			
5	64QAM	12	13	15.05	14.96	15.04			
5	64QAM	25	0	15.06	14.96	15.07			
Channel									
Frequency (MHz)				1867.5	1890	1919.5	Tune-up limit (dBm)	MPR (dB)	
3	QPSK	1	0	15.02	14.96	15.04			
3	QPSK	1	8	14.90	14.92	14.96			
3	QPSK	1	14	14.86	14.83	14.89			
3	QPSK	8	0	14.97	14.94	15.00			
3	QPSK	8	4	15.03	14.96	15.00			
3	QPSK	8	7	14.93	14.89	14.94			
3	QPSK	15	0	14.97	14.94	14.97			
3	16QAM	1	0	15.26	15.29	15.28			
3	16QAM	1	8	15.30	15.21	15.28			
3	16QAM	1	14	15.06	15.15	15.18			
3	16QAM	8	0	15.05	15.04	15.07			
3	16QAM	8	4	15.09	15.04	15.06			
3	16QAM	8	7	15.01	15.01	15.02			
3	16QAM	15	0	15.01	14.95	14.99			
3	64QAM	1	0	15.07	15.18	15.23			
3	64QAM	1	8	15.15	15.14	15.11			
3	64QAM	1	14	15.01	14.97	15.11			
3	64QAM	8	0	15.01	15.00	15.00			
3	64QAM	8	4	15.04	14.98	15.02			
3	64QAM	8	7	14.99	14.98	14.98			
3	64QAM	15	0	14.98	14.90	15.00			
Channel									
Frequency (MHz)				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)	
1.4	QPSK	1	0	14.94	14.92	14.95			
1.4	QPSK	1	3	14.99	14.97	15.02			
1.4	QPSK	1	5	14.95	14.85	14.93			
1.4	QPSK	3	0	14.95	14.89	14.92			
1.4	QPSK	3	1	15.00	15.01	15.00			
1.4	QPSK	3	3	14.93	14.87	14.93			
1.4	QPSK	3	5	14.90	14.88	14.95			
1.4	16QAM	1	0	15.37	15.29	15.22			
1.4	16QAM	1	3	15.23	15.24	15.26			
1.4	16QAM	1	5	15.22	15.21	15.23			
1.4	16QAM	3	0	14.98	14.98	15.01			
1.4	16QAM	3	1	15.04	15.04	15.05			
1.4	16QAM	3	3	15.00	14.90	14.96			
1.4	16QAM	6	0	14.94	14.89	14.90			
1.4	64QAM	1	0	15.03	15.09	15.17			
1.4	64QAM	1	3	15.02	15.05	15.27			
1.4	64QAM	1	5	15.08	15.10	15.09			
1.4	64QAM	3	0	15.01	15.05	15.08			
1.4	64QAM	3	1	15.08	15.12	15.11			
1.4	64QAM	3	3	15.06	15.00	15.02			
1.4	64QAM	6	0	14.96	14.97	14.96			

Band 4 (AWS Band) Part 27L (only one channel required)									
BW (MHz)	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)				1720	1732.5	1745			
20	QPSK	1	0	15.30	15.37	15.41			
20	QPSK	1	49	15.20	15.35	15.56			
20	QPSK	1	99	15.14	15.55	15.94			
20	QPSK	50	0	15.38	15.30	15.			



Band 26 (1800MHz Band) Part 2A.E										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mode Ch. Freq.	Power High Ch. Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel				26140	26340	26590				
Frequency (MHz)				1803	1880	1905				
20	QPSK	1	0	14.37	14.36	14.83				
20	QPSK	1	49	14.36	14.33	14.35	16	0		
20	QPSK	1	99	14.35	14.42	14.33				
20	QPSK	50	0	14.47	14.56	14.57				
20	QPSK	50	24	14.47	14.37	14.45	16	0		
20	QPSK	50	50	14.41	14.30	14.39				
20	QPSK	100	0	14.40	14.33	14.51				
20	16QAM	1	0	14.81	14.69	14.81				
20	16QAM	1	49	14.81	14.70	14.79	16	0		
20	16QAM	1	99	14.28	14.41	14.24				
20	16QAM	50	0	14.47	14.35	14.47				
20	16QAM	50	24	14.46	14.38	14.48	16	0		
20	16QAM	50	50	14.42	14.31	14.43				
20	16QAM	100	0	14.41	14.31	14.30				
20	64QAM	1	0	14.71	14.53	14.60				
20	64QAM	1	49	14.54	14.38	14.50	16	0		
20	64QAM	1	99	14.22	14.15	14.38				
20	64QAM	50	0	14.50	14.37	14.48				
20	64QAM	50	24	14.48	14.38	14.46	16	0		
20	64QAM	50	50	14.37	14.29	14.42				
20	64QAM	100	0	14.41	14.32	14.44				
Channel				26115	26340	26515	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1803	1880	1905				
15	QPSK	1	0	14.30	14.28	14.27				
15	QPSK	1	37	14.27	14.23	14.23	16	0		
15	QPSK	1	74	14.43	14.41	14.28				
15	QPSK	36	0	14.52	14.44	14.53				
15	QPSK	36	20	14.54	14.44	14.52	16	0		
15	QPSK	36	39	14.58	14.50	14.58				
15	QPSK	75	0	14.55	14.44	14.59				
15	16QAM	1	0	14.77	14.73	14.73				
15	16QAM	1	37	14.75	14.76	14.75	16	0		
15	16QAM	1	74	14.75	14.76	14.25				
15	16QAM	36	0	14.55	14.41	14.50				
15	16QAM	36	20	14.56	14.43	14.52	16	0		
15	16QAM	36	39	14.58	14.50	14.59				
15	16QAM	75	0	14.51	14.43	14.56				
15	64QAM	1	0	14.70	14.62	14.69				
15	64QAM	1	37	14.68	14.46	14.56	16	0		
15	64QAM	1	74	14.60	14.53	14.35				
15	64QAM	36	0	14.53	14.43	14.57				
15	64QAM	36	20	14.54	14.41	14.53	16	0		
15	64QAM	36	39	14.58	14.49	14.65				
15	64QAM	75	0	14.50	14.43	14.61				
Channel				26090	26340	26590	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1855	1880	1910				
10	QPSK	1	0	14.40	14.41	14.46				
10	QPSK	1	25	14.34	14.42	14.47	16	0		
10	QPSK	1	49	14.57	14.59	14.44				
10	QPSK	25	0	14.46	14.56	14.55				
10	QPSK	25	12	14.50	14.57	14.53	16	0		
10	QPSK	25	25	14.47	14.54	14.60				
10	QPSK	50	0	14.49	14.58	14.59				
10	16QAM	1	0	14.74	14.83	14.81				
10	16QAM	1	25	14.83	14.65	14.62	16	0		
10	16QAM	1	49	14.75	14.83	14.53				
10	16QAM	25	0	14.47	14.56	14.53				
10	16QAM	25	12	14.47	14.55	14.53	16	0		
10	16QAM	25	25	14.45	14.56	14.59				
10	16QAM	50	0	14.48	14.58	14.59				
10	64QAM	1	0	14.69	14.62	14.66				
10	64QAM	1	25	14.65	14.57	14.42	16	0		
10	64QAM	1	49	14.61	14.65	14.25				
10	64QAM	25	0	14.43	14.57	14.53				
10	64QAM	25	12	14.47	14.60	14.56	16	0		
10	64QAM	25	25	14.47	14.58	14.64				
10	64QAM	50	0	14.48	14.56	14.59				
Channel				26065	26340	26565	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1802.5	1880	1912.5				
5	QPSK	1	0	14.30	14.41	14.49				
5	QPSK	1	12	14.35	14.49	14.52	16	0		
5	QPSK	1	24	14.38	14.45	14.44				
5	QPSK	12	0	14.48	14.57	14.57				
5	QPSK	12	7	14.45	14.56	14.56	16	0		
5	QPSK	12	13	14.43	14.51	14.51				
5	QPSK	25	0	14.48	14.55	14.54				
5	16QAM	1	0	14.63	14.75	14.77				
5	16QAM	1	12	14.47	14.57	14.56	16	0		
5	16QAM	1	24	14.54	14.60	14.47				
5	16QAM	12	0	14.52	14.61	14.59				
5	16QAM	12	7	14.48	14.53	14.57	16	0		
5	16QAM	12	13	14.44	14.54	14.54				
5	16QAM	25	0	14.47	14.54	14.57				
5	16QAM	25	1	14.65	14.79	14.78				
5	64QAM	1	12	14.53	14.57	14.65	16	0		
5	64QAM	1	24	14.55	14.63	14.57				
5	64QAM	12	0	14.51	14.60	14.63				
5	64QAM	12	7	14.47	14.56	14.60	16	0		
5	64QAM	12	13	14.45	14.57	14.56				
5	64QAM	25	0	14.47	14.58	14.57				
Channel				26065	26340	26575	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1801.5	1880	1913.5				
3	QPSK	1	0	14.40	14.46	14.47				
3	QPSK	1	8	14.39	14.49	14.48	16	0		
3	QPSK	1	14	14.34	14.44	14.48				
3	QPSK	8	0	14.44	14.52	14.53				
3	QPSK	8	4	14.44	14.55	14.57	16	0		
3	QPSK	8	7	14.40	14.51	14.54				
3	QPSK	15	0	14.40	14.52	14.53				
3	16QAM	1	0	14.42	14.70	14.68				
3	16QAM	1	8	14.54	14.69	14.64	16	0		
3	16QAM	1	14	14.53	14.58	14.62				
3	16QAM	8	0	14.47	14.56	14.55				
3	16QAM	8	4	14.48	14.59	14.59	16	0		
3	16QAM	8	7	14.44	14.54	14.54				
3	16QAM	15	0	14.43	14.54	14.57				
3	64QAM	1	0	14.62	14.59	14.71				
3	64QAM	1	8	14.56	14.65	14.68	16	0		
3	64QAM	1	14	14.57	14.59	14.62				
3	64QAM	8	0	14.48	14.58	14.58				
3	64QAM	8	4	14.48	14.57	14.57	16	0		
3	64QAM	8	7	14.40	14.51	14.56				
3	64QAM	15	0	14.44	14.54	14.53				
Channel				26047	26340	26583	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1850.7	1880	1914.3				
1.4	QPSK	1	0	14.35	14.50	14.45				
1.4	QPSK	1	3	14.38	14.52	14.48	16	0		
1.4	QPSK	1	5	14.37	14.44	14.44				
1.4	QPSK	3	0	14.37	14.46	14.47				
1.4	QPSK	3	1	14.42	14.53	14.50	16	0		
1.4	QPSK	3	3	14.36	14.49	14.45				
1.4	QPSK	6	0	14.38	14.42	14.45	16	0		
1.4	16QAM	1	0	14.68	14.72	14.77				
1.4	16QAM	1	3	14.49	14.52	14.65				
1.4	16QAM	1	5	14.39	14.49	14.61	16	0		
1.4	16QAM	3	0	14.40	14.54	14.49				
1.4	16QAM	3	1	14.43	14.59	14.51				
1.4	16QAM	3	3	14.41	14.51	14.45				
1.4	16QAM	6	0	14.40	14.53	14.25	16	0		
1.4	64QAM	1	0	14.56	14.71	14.65				
1.4										



Band 30									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
27710									
Frequency (MHz)									
10	QPSK	1	0	20.25			21	0	
10	QPSK	1	25	19.83					
10	QPSK	1	49	20.17					
10	QPSK	25	0	19.92					
10	QPSK	25	12	19.96			21	0	
10	QPSK	25	25	20.10					
10	QPSK	50	0	20.01					
10	16QAM	1	0	20.13			21	0	
10	16QAM	1	25	20.19					
10	16QAM	1	49	20.13					
10	16QAM	25	0	19.93					
10	16QAM	25	12	19.95			21	0	
10	16QAM	25	25	20.04					
10	16QAM	50	0	19.90					
10	64QAM	1	0	20.19			21	0	
10	64QAM	1	25	20.07					
10	64QAM	1	49	20.17					
10	64QAM	25	0	19.92					
10	64QAM	25	12	19.91			21	0	
10	64QAM	25	25	20.05					
10	64QAM	50	0	19.92					
Channel									
27685									
27710									
27735									
Frequency (MHz)									
5	QPSK	1	0	20.07	19.96	19.89	21	0	
5	QPSK	1	12	19.94	19.90	19.93			
5	QPSK	1	24	19.85	19.95	19.96			
5	QPSK	12	0	20.02	19.92	19.95			
5	QPSK	12	7	19.89	19.93	20.03	21	0	
5	QPSK	12	13	19.90	19.89	20.00			
5	QPSK	25	0	19.87	19.95	20.03			
5	16QAM	1	0	20.16	20.25	20.19	21	0	
5	16QAM	1	12	20.14	20.20	20.20			
5	16QAM	1	24	20.11	20.20	20.18			
5	16QAM	12	0	20.07	19.96	19.94			
5	16QAM	12	7	19.94	19.93	20.06	21	0	
5	16QAM	12	13	19.89	19.90	20.03			
5	16QAM	25	0	19.91	19.93	20.05			
5	64QAM	1	0	20.20	20.12	20.17	21	0	
5	64QAM	1	12	19.97	20.07	20.18			
5	64QAM	1	24	20.05	20.17	20.16			
5	64QAM	12	0	20.07	19.95	19.94			
5	64QAM	12	7	19.93	19.92	20.03	21	0	
5	64QAM	12	13	19.92	19.89	20.02			
5	64QAM	25	0	19.88	19.92	20.03			

Band 66									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
132072									
132072									
132072									
Frequency (MHz)									
20	QPSK	1	0	15.26	15.68	15.70	16.5	0	
20	QPSK	1	49	15.31	15.60	15.71			
20	QPSK	1	99	15.32	15.73	15.96			
20	QPSK	50	0	15.15	15.67	15.63	16.5	0	
20	QPSK	50	24	15.16	15.19	15.76			
20	QPSK	50	50	15.28	15.22	15.81			
20	QPSK	100	0	15.24	15.68	15.77			
20	16QAM	1	0	15.21	15.31	15.78	16.5	0	
20	16QAM	1	49	15.23	15.47	15.85			
20	16QAM	1	99	15.51	15.59	15.91			
20	16QAM	50	0	15.85	15.05	15.60	16.5	0	
20	16QAM	50	24	15.88	15.18	15.77			
20	16QAM	50	50	15.88	15.26	15.83			
20	16QAM	100	0	15.85	15.14	15.69	16.5	0	
20	64QAM	1	0	15.03	15.14	15.65			
20	64QAM	1	49	15.17	15.24	15.85	16.5	0	
20	64QAM	1	99	15.41	15.93	15.77			
20	64QAM	50	0	15.79	15.01	15.60	16.5	0	
20	64QAM	50	24	15.84	15.16	15.72			
20	64QAM	50	50	15.85	15.25	15.80			
20	64QAM	100	0	15.88	15.14	15.70			
Channel									
132047									
132022									
132097									
Frequency (MHz)									
15	QPSK	1	0	15.20	15.47	15.72	16.5	0	
15	QPSK	1	37	15.17	15.91	15.66			
15	QPSK	1	74	15.19	15.50	15.90			
15	QPSK	36	0	15.16	15.18	15.84	16.5	0	
15	QPSK	36	20	15.84	15.19	15.84			
15	QPSK	36	39	15.87	15.22	15.86			
15	QPSK	75	0	15.85	15.18	15.83	16.5	0	
15	16QAM	1	0	15.61	15.67	15.89			
15	16QAM	1	37	15.21	15.50	15.88	16.5	0	
15	16QAM	1	74	15.40	15.89	15.87			
15	16QAM	36	0	15.94	15.18	15.82	16.5	0	
15	16QAM	36	20	15.85	15.19	15.85			
15	16QAM	36	39	15.85	15.20	15.85			
15	16QAM	75	0	15.87	15.18	15.83	16.5	0	
15	64QAM	1	0	15.42	15.62	15.85			
15	64QAM	1	37	15.17	15.22	15.95	16.5	0	
15	64QAM	1	74	15.20	15.67	15.90			
15	64QAM	36	0	15.16	15.20	15.84	16.5	0	
15	64QAM	36	20	15.22	15.20	15.83			
15	64QAM	36	39	15.26	15.22	15.85			
15	64QAM	75	0	15.28	15.16	15.84			
Channel									
132022									
132022									
132022									
Frequency (MHz)									
10	QPSK	1	0	15.20	15.30	15.70	16.5	0	
10	QPSK	1	25	15.23	15.27	15.90			
10	QPSK	1	49	15.36	15.84	15.72			
10	QPSK	25	0	15.05	15.31	15.71	16.5	0	
10	QPSK	25	12	15.08	15.38	15.80			
10	QPSK	25	25	15.10	15.34	15.85			
10	QPSK	50	0	15.06	15.37	15.88	16.5	0	
10	16QAM	1	0	15.24	15.53	15.61	16.5	0	
10	16QAM	1	25	15.32	15.61	15.73			
10	16QAM	1	49	15.21	15.79	15.66			
10	16QAM	25	0	15.06	15.31	15.64	16.5	0	
10	16QAM	25	12	15.09	15.39	15.70			
10	16QAM	25	25	15.05	15.53	15.78			
10	16QAM	50	0	15.08	15.36	15.68	16.5	0	
10	64QAM	1	0	15.42	15.62	15.85	16.5	0	
10	64QAM	1	25	15.27	15.26	15.85			
10	64QAM	1	49	15.20	15.42	15.90			
10	64QAM	25	0	15.26	15.20	15.84	16.5	0	
10	64QAM	25	12	15.22	15.20	15.83			
10	64QAM	25	25	15.26	15.21	15.85			
10	64QAM	50	0	15.30	15.16	15.84			
Channel									
131997									
132022									
132647									
Frequency (MHz)									
5	QPSK	1	0	15.10	15.32	15.86	16.5	0	
5	QPSK	1	12	15.19	15.25	15.80			
5	QPSK	1	24	15.25	15.37	15.89			
5	QPSK	12	0	15.11	15.39	15.77	16.5	0	
5	QPSK	12	7	15.07	15.33	15.73			
5	QPSK	12	13	15.07	15.31	15.71			
5	QPSK	25	0	15.10	15.37	15.74	16.5	0	
5	16QAM	1	0	15.49	15.72	15.83			
5	16QAM	1	12	15.29	15.54	15.65	16.5	0	
5	16QAM	1	24	15.27	15.66	15.65			
5	16QAM	12	0	15.15	15.40	15.81	16.5	0	
5	16QAM	12	7	15.11	15.34	15.72			
5	16QAM	12	13	15.22	15.33	15.72	16.5	0	
5	16QAM	25	0	15.13	15.36	15.74			
5	64QAM	1	0	15.37	15.62	15.65	16.5	0	
5	64QAM	1	12	15.21	15.47	15.81			
5	64QAM	1	24	15.17	15.61	15.86			
5	64QAM	12	0	15.16	15.40	15.82	16.5	0	
5	64QAM	12	7	15.10	15.35	15.75			
5	64QAM	12	13	15.38	15.33	15.72			
5	64QAM	25	0	15.10	15.35	15.73			
Channel									
131997									
132022									
133007									
Frequency (MHz)									
3	QPSK	1	0	15.14	15.21	15.82	16.5	0	
3	QPSK	1	8	15.28	15.26	15.95			
3	QPSK	1	14	15.19	15.23	15.93			



Band 38(only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Middle Ch. (Freq)	Power High Ch. (Freq)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37850	38500	38150			
20	QPSK	1	0	19.03	18.79	18.83	20	0	
20	QPSK	1	49	19.26	19.06	19.09			
20	QPSK	1	99	19.09	19.08	19.20			
20	QPSK	50	0	19.09	18.93	19.01			
20	QPSK	50	24	19.29	19.04	19.04			
20	QPSK	50	50	19.29	19.06	19.18			
20	QPSK	100	0	19.04	19.03	19.12			
20	16QAM	1	0	18.92	18.90	19.06			
20	16QAM	1	49	19.11	19.18	19.01			
20	16QAM	1	99	19.22	19.10	18.92			
20	16QAM	50	0	18.96	18.99	18.96			
20	16QAM	50	24	19.07	19.05	18.96			
20	16QAM	50	50	19.10	19.00	19.26			
20	16QAM	100	0	19.22	19.05	19.16			
20	64QAM	1	0	18.63	18.39	18.67			
20	64QAM	1	49	18.79	18.97	18.75			
20	64QAM	1	99	18.74	18.53	18.28			
20	64QAM	50	0	19.03	18.80	19.11			
20	64QAM	50	24	19.26	18.94	19.14			
20	64QAM	50	50	19.24	18.93	18.89			
20	64QAM	100	0	19.20	18.86	18.93			
Channel									
Frequency (MHz)				37825	38500	38175			
15	QPSK	1	0	18.91	18.87	18.92			
15	QPSK	1	37	18.87	18.72	18.74			
15	QPSK	1	74	19.22	19.07	19.15			
15	QPSK	36	0	18.98	19.02	19.02			
15	QPSK	36	20	19.28	19.09	19.11			
15	QPSK	36	39	19.15	19.09	19.20			
15	QPSK	75	0	19.27	19.01	19.14			
15	16QAM	1	0	19.07	18.93	18.96			
15	16QAM	1	37	19.18	19.01	18.95			
15	16QAM	1	74	19.10	18.98	18.93			
15	16QAM	36	0	18.92	18.78	18.88			
15	16QAM	36	20	19.08	18.86	18.97			
15	16QAM	36	39	19.20	18.95	19.18			
15	16QAM	75	0	19.28	19.05	19.16			
15	64QAM	1	0	18.70	18.54	18.51			
15	64QAM	1	37	19.03	18.84	19.00			
15	64QAM	1	74	18.96	18.63	18.93			
15	64QAM	36	0	18.97	18.78	19.01			
15	64QAM	36	20	19.14	18.87	19.11			
15	64QAM	36	39	19.10	18.85	19.11			
15	64QAM	75	0	19.27	19.02	19.17			
Channel									
Frequency (MHz)				37800	38500	38200			
10	QPSK	1	0	19.23	19.03	19.26			
10	QPSK	1	25	19.19	18.99	18.97			
10	QPSK	1	49	19.40	19.12	19.20			
10	QPSK	25	0	19.15	19.16	19.11			
10	QPSK	25	12	19.30	19.02	19.09			
10	QPSK	25	25	19.41	19.17	19.32			
10	QPSK	50	0	19.18	19.09	19.27			
10	16QAM	1	0	19.31	19.16	19.32			
10	16QAM	1	25	19.29	19.01	19.08			
10	16QAM	1	49	19.28	19.23	19.26			
10	16QAM	25	0	19.27	19.19	19.08			
10	16QAM	25	12	19.12	18.94	19.22			
10	16QAM	25	25	19.36	19.09	19.26			
10	16QAM	50	0	19.30	18.94	19.20			
10	64QAM	1	0	19.07	18.68	18.95			
10	64QAM	1	25	18.71	18.94	18.71			
10	64QAM	1	49	18.98	18.76	18.79			
10	64QAM	25	0	19.09	18.91	19.31			
10	64QAM	25	12	19.24	19.18	19.24			
10	64QAM	25	25	19.03	19.03	19.21			
10	64QAM	50	0	19.07	18.91	19.08			
Channel									
Frequency (MHz)				37775	38500	38225			
5	QPSK	1	0	19.18	18.94	19.25			
5	QPSK	1	12	19.05	18.76	19.05			
5	QPSK	1	24	19.08	19.02	18.99			
5	QPSK	12	0	19.31	19.16	19.09			
5	QPSK	12	7	19.21	19.11	19.22			
5	QPSK	12	13	19.29	19.04	19.13			
5	QPSK	25	0	19.25	19.06	19.14			
5	16QAM	1	0	19.23	19.14	19.24			
5	16QAM	1	12	19.14	18.97	19.17			
5	16QAM	1	24	19.21	18.96	19.14			
5	16QAM	12	0	19.20	19.08	19.19			
5	16QAM	12	7	19.28	18.90	19.21			
5	16QAM	12	13	19.30	18.93	19.23			
5	16QAM	25	0	19.19	19.10	19.09			
5	64QAM	1	0	19.11	18.66	18.68			
5	64QAM	1	12	18.85	18.90	18.79			
5	64QAM	1	24	18.98	18.71	18.80			
5	64QAM	12	0	19.32	19.21	19.12			
5	64QAM	12	7	19.34	19.05	19.28			
5	64QAM	12	13	19.12	19.07	19.16			
5	64QAM	25	0	19.41	18.89	19.31			

Band 41 (2.6G Band)									
BW (MHz)	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)				39750	40185	40620	41055	41490	
20	QPSK	1	0	19.39	19.68	19.31	19.25	19.52	
20	QPSK	1	49	19.58	19.73	19.50	19.59	19.53	
20	QPSK	1	99	19.31	19.46	19.25	19.22	19.51	
20	QPSK	50	0	19.42	19.68	19.26	19.40	19.63	
20	QPSK	50	24	19.58	19.80	19.55	19.60	19.85	
20	QPSK	50	50	19.37	19.53	19.34	19.39	19.56	
20	QPSK	100	0	19.36	19.54	19.33	19.40	19.59	
20	16QAM	1	0	19.16	19.39	19.35	19.52	19.45	
20	16QAM	1	49	19.32	19.33	19.36	19.34	19.65	
20	16QAM	1	99	19.01	19.13	19.23	19.03	19.42	
20	16QAM	50	0	19.47	19.74	19.25	19.50	19.64	
20	16QAM	50	24	19.49	19.74	19.41	19.67	19.71	
20	16QAM	50	50	19.35	19.60	19.37	19.46	19.60	
20	16QAM	100	0	19.29	19.55	19.30	19.32	19.61	
20	64QAM	1	0	19.43	19.15	19.59	19.68	19.16	
20	64QAM	1	49	19.16	19.33	19.04	19.09	19.36	
20	64QAM	1	99	19.35	19.32	19.15	19.40	19.29	
20	64QAM	50	0	19.40	19.67	19.20	19.33	19.62	
20	64QAM	50	24	19.47	19.67	19.36	19.37	19.64	
20	64QAM	50	50	19.28	19.46	19.30	19.35	19.56	
20	64QAM	100	0	19.33	19.59	19.37	19.37	19.62	
Channel									
Frequency (MHz)				39725	40173	40600	41068	41515	
15	QPSK	1	0	19.20	19.39	19.20	19.30	19.58	
15	QPSK	1	37	19.35	19.14	19.50	19.60	19.38	
15	QPSK	1	74	19.28	19.07	19.54	19.38	19.59	
15	QPSK	36	0	19.48	19.76	19.32	19.32	19.63	
15	QPSK	36	20	19.54	19.75	19.48	19.53	19.60	
15	QPSK	36	39	19.57	19.80	19.55	19.60	19.59	
15	QPSK	75	0	19.45	19.72	19.36	19.35	19.63	
15	16QAM	1	0	19.08	19.15	19.58	19.14	19.61	
15	16QAM	1	37	19.04	19.26	19.47	19.07	19.44	
15	16QAM	1	74	19.30	19.39	19.18	19.25	19.50	
15	16QAM	36	0	19.44	19.69	19.20	19.28	19.55	
15	16QAM	36	20	19.53	19.69	19.39	19.48	19.64	
15	16QAM	36	39	19.37	19.68	19.48	19.63	19.62	
15	16QAM	75	0	19.45	19.74	19.40	19.54	19.64	
15	64QAM	1	0	19.36	19.18	19.53	19.28	19.26	
15	64QAM	1	37	19.42	19.16	19.32	19.33	19.01	
15	64QAM	1	74	19.04	19.20	19.08	19.07	19.21	
15	64QAM	36	0	19.31	19.62	19.19	19.20	19.56	
15	64QAM	36	20	19.41	19.67	19.39	19.44	19.50	
15	64QAM	36	39	19.45	19.61	19.37	19.49	19.52	



Reduced Power Mode for Hotspot On

GSM1900 TX Channel	Baseband Average Power (dBm)			Tune-up Limit (dBm)	Carrier Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1860	1909.8		1850.2	1860	1909.8	
GSM 1 Tx slot	21.42	21.43	21.19	22.50	12.42	12.43	12.19	13.50
GPRS 1 Tx slot	21.40	21.38	21.13	22.50	12.40	12.38	12.13	13.50
GPRS 2 Tx slot	19.71	20.15	19.77	21.00	13.71	14.15	13.77	15.00
GPRS 3 Tx slot	17.40	17.31	17.49	18.50	13.14	13.05	13.23	14.24
GPRS 4 Tx slot	15.45	15.43	15.38	16.50	12.45	12.43	12.38	13.50
EDGE 1 Tx slot	17.12	17.24	16.98	18.50	9.12	9.24	7.98	9.50
EDGE 2 Tx slot	15.25	15.48	15.34	16.50	9.25	9.48	9.34	10.50
EDGE 3 Tx slot	13.20	13.11	13.09	14.00	8.94	8.85	8.83	9.74
EDGE 4 Tx slot	11.87	11.77	11.74	13.00	8.87	8.77	8.74	10.00

Band TX Channel	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	5262	5400	5538		1312	1413	1513		4152	4182	4233		
RX Channel	5662	5600	5638		1537	1638	1738		4387	4407	4458		
Frequency (MHz)	1852.4	1860	1907.6		1712.4	1732.6	1752.6		2264	2364	246.6		
3GPP Rel 99	AMR 12.2Kbps	12.65	12.69	12.81	14.00	12.48	12.40	12.57	14.00	21.87	21.86	22.08	23.00
3GPP Rel 99	RMC 12.2Kbps	12.66	12.70	12.64	14.00	12.59	12.42	12.63	14.00	21.88	21.89	22.15	23.00
3GPP Rel 6	HSDPA Subtest-1	11.73	11.69	11.62	13.00	11.86	11.83	12.00	13.00	20.95	20.93	21.12	22.00
3GPP Rel 6	HSDPA Subtest-2	11.71	11.71	11.67	13.00	11.89	11.90	12.02	13.00	20.94	20.98	21.15	22.00
3GPP Rel 6	HSDPA Subtest-3	10.86	11.20	11.12	12.50	11.41	11.36	11.62	12.50	20.46	20.44	20.68	21.50
3GPP Rel 6	HSDPA Subtest-4	11.19	11.22	11.17	12.50	11.30	11.49	11.05	12.50	20.42	20.47	20.25	21.50
3GPP Rel 6	DC-HSDPA Subtest-1	11.27	11.52	11.45	13.00	11.79	11.83	11.93	13.00	20.98	20.79	20.90	22.00
3GPP Rel 6	DC-HSDPA Subtest-2	11.64	11.52	11.64	13.00	11.83	11.87	11.92	13.00	20.85	20.79	21.12	22.00
3GPP Rel 6	DC-HSDPA Subtest-3	10.74	11.12	11.08	12.50	11.41	11.24	11.58	12.50	20.43	20.28	20.62	21.50
3GPP Rel 6	DC-HSDPA Subtest-4	11.18	11.16	11.07	12.50	11.10	11.35	11.04	12.50	20.22	20.33	20.04	21.50
3GPP Rel 6	HSUPA Subtest-1	11.71	11.72	11.67	13.00	11.83	11.90	11.68	13.00	20.89	20.89	21.03	22.00
3GPP Rel 6	HSUPA Subtest-2	9.70	9.71	9.70	11.00	9.71	9.70	9.73	11.00	18.83	18.88	18.99	20.00
3GPP Rel 6	HSUPA Subtest-3	10.72	10.89	10.64	12.00	10.80	10.83	10.83	12.00	19.87	19.87	20.06	21.00
3GPP Rel 6	HSUPA Subtest-4	9.73	9.68	9.63	11.00	9.82	9.84	9.73	11.00	18.85	18.86	19.04	20.00
3GPP Rel 6	HSUPA Subtest-5	11.75	11.75	11.65	13.00	11.84	11.84	11.94	13.00	20.88	20.86	21.08	22.00

Band TX Channel	CDMA BC1			Tune-up Limit (dBm)
	26	300	1175	
Frequency (MHz)	1815.25	1800	1908.75	
RC1 S055	14.55	14.78	14.59	15.50
RC1 S065	14.46	14.87	14.49	15.50
RC1 S068 (F+SCH)	14.67	14.75	14.58	15.50
RC1 S032 (F+SCH)	14.65	14.62	14.45	15.50
RTAP 16.3 kbps	13.95	14.04	13.92	15.50
RETAP 4.968 kbps	13.97	13.97	13.85	15.50



Band 2 (1900MHz Band) Part 24E										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 18700	Power High Ch./Freq. 18900	Power High Ch./Freq. 19100	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	12.67	12.45	12.21				
20	QPSK	1	49	12.47	12.38	12.21				
20	QPSK	1	99	12.33	12.25	12.11				
20	QPSK	50	0	12.52	12.47	12.43				
20	QPSK	50	24	12.42	12.37	12.41				
20	QPSK	50	50	12.16	12.26	12.24				
20	QPSK	100	0	12.31	12.31	12.38				
20	16QAM	1	0	12.59	12.58	12.57				
20	16QAM	1	49	12.48	12.43	12.45				
20	16QAM	1	99	12.41	12.63	12.54				
20	16QAM	50	0	12.32	12.44	12.43				
20	16QAM	50	24	12.39	12.39	12.47				
20	16QAM	50	50	12.16	12.27	12.25				
20	16QAM	100	0	12.32	12.30	12.35				
20	64QAM	1	0	12.59	12.65	12.67				
20	64QAM	1	49	12.49	12.48	12.36				
20	64QAM	1	99	12.34	12.23	12.21				
20	64QAM	50	0	12.52	12.46	12.41				
20	64QAM	50	24	12.38	12.36	12.38				
20	64QAM	50	50	12.17	12.25	12.25				
20	64QAM	100	0	12.31	12.32	12.35				
Channel										
Frequency (MHz)										
15	QPSK	1	0	12.46	12.41	12.49				
15	QPSK	1	37	12.18	11.99	12.31				
15	QPSK	1	74	12.47	12.32	12.32				
15	QPSK	36	0	12.45	12.39	12.39				
15	QPSK	36	20	12.32	12.36	12.42				
15	QPSK	36	39	12.34	12.35	12.39				
15	16QAM	1	0	12.42	12.32	12.38				
15	16QAM	1	0	12.42	12.48	12.44				
15	16QAM	1	37	12.41	12.47	12.36				
15	16QAM	1	74	12.37	12.32	12.36				
15	16QAM	36	0	12.42	12.38	12.41				
15	16QAM	36	20	12.39	12.36	12.41				
15	16QAM	36	39	12.32	12.36	12.32				
15	16QAM	75	0	12.34	12.32	12.38				
15	64QAM	1	0	12.49	12.38	12.47				
15	64QAM	1	37	12.43	12.44	12.48				
15	64QAM	1	74	12.48	12.42	12.46				
15	64QAM	36	0	12.41	12.38	12.41				
15	64QAM	36	20	12.37	12.38	12.41				
15	64QAM	36	39	12.33	12.37	12.32				
15	64QAM	75	0	12.29	12.30	12.37				
Channel										
Frequency (MHz)										
10	QPSK	1	0	12.33	12.31	12.35				
10	QPSK	1	25	12.41	12.32	12.43				
10	QPSK	1	49	12.30	12.38	12.34				
10	QPSK	25	0	12.34	12.46	12.38				
10	QPSK	25	12	12.33	12.48	12.34				
10	QPSK	25	25	12.37	12.45	12.36				
10	QPSK	50	0	12.31	12.53	12.41				
10	16QAM	1	0	12.36	12.33	12.40				
10	16QAM	1	25	12.36	12.30	12.28				
10	16QAM	1	49	12.40	12.39	12.38				
10	16QAM	25	0	12.62	12.47	12.56				
10	16QAM	25	12	12.61	12.48	12.55				
10	16QAM	25	25	12.55	12.40	12.49				
10	16QAM	50	0	12.59	12.47	12.49				
10	64QAM	1	0	12.65	12.60	12.56				
10	64QAM	1	0	12.65	12.62	12.52				
10	64QAM	1	49	12.63	12.58	12.62				
10	64QAM	25	0	12.58	12.46	12.55				
10	64QAM	25	12	12.62	12.46	12.52				
10	64QAM	25	25	12.55	12.42	12.56				
10	64QAM	50	0	12.57	12.51	12.59				
Channel										
Frequency (MHz)										
5	QPSK	1	0	12.61	12.56	12.65				
5	QPSK	1	12	12.42	12.36	12.40				
5	QPSK	1	24	12.53	12.42	12.47				
5	QPSK	12	0	12.59	12.58	12.58				
5	QPSK	12	7	12.64	12.55	12.60				
5	QPSK	12	13	12.60	12.49	12.58				
5	QPSK	25	0	12.65	12.53	12.62				
5	16QAM	1	0	12.50	12.49	12.49				
5	16QAM	1	12	12.38	12.34	12.35				
5	16QAM	1	24	12.36	12.23	12.28				
5	16QAM	12	0	12.64	12.60	12.63				
5	16QAM	12	7	12.62	12.56	12.58				
5	16QAM	12	13	12.63	12.48	12.56				
5	16QAM	25	0	12.59	12.53	12.59				
5	64QAM	1	0	12.57	12.66	12.64				
5	64QAM	1	12	12.61	12.58	12.61				
5	64QAM	1	24	12.63	12.65	12.61				
5	64QAM	12	0	12.59	12.60	12.62				
5	64QAM	12	7	12.61	12.51	12.58				
5	64QAM	12	13	12.58	12.49	12.58				
5	64QAM	25	0	12.57	12.47	12.59				
Channel										
Frequency (MHz)										
3	QPSK	1	0	12.56	12.43	12.58				
3	QPSK	1	8	12.50	12.37	12.48				
3	QPSK	1	14	12.38	12.41	12.46				
3	QPSK	8	0	12.53	12.52	12.53				
3	QPSK	8	4	12.53	12.53	12.55				
3	QPSK	8	7	12.51	12.42	12.49				
3	QPSK	15	0	12.51	12.46	12.45				
3	16QAM	1	0	12.49	12.46	12.43				
3	16QAM	1	8	12.37	12.49	12.47				
3	16QAM	1	14	12.42	12.43	12.39				
3	16QAM	8	0	12.32	12.31	12.28				
3	16QAM	8	4	12.31	12.26	12.33				
3	16QAM	8	7	12.27	12.23	12.25				
3	64QAM	1	0	12.24	12.22	12.25				
3	64QAM	1	0	12.42	12.36	12.47				
3	64QAM	1	8	12.39	12.25	12.45				
3	64QAM	1	14	12.48	12.45	12.41				
3	64QAM	8	0	12.22	12.33	12.38				
3	64QAM	8	4	12.34	12.27	12.23				
3	64QAM	8	7	12.27	12.15	12.22				
3	64QAM	15	0	12.21	12.14	12.24				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	12.25	12.31	12.38				
1.4	QPSK	1	3	12.42	12.41	12.34				
1.4	QPSK	1	5	12.41	12.41	12.21				
1.4	QPSK	3	0	12.49	12.46	12.47				
1.4	QPSK	3	1	12.24	12.22	12.25				
1.4	QPSK	3	3	12.43	12.38	12.47				
1.4	QPSK	6	0	12.49	12.45	12.47				
1.4	16QAM	1	0	12.38	12.44	12.45				
1.4	16QAM	1	3	12.45	12.41	12.43				
1.4	16QAM	1	5	12.48	12.33	12.38				
1.4	16QAM	3	0	12.27	12.22	12.19				
1.4	16QAM	3	1	12.26	12.29	12.27				
1.4	16QAM	3	3	12.17	12.21	12.25				
1.4	16QAM	6	0	12.48	12.42	12.50				
1.4	64QAM	1	0	12.35	12.29	12.33				
1.4	64QAM	1	3	12.30	12.33	12.47				
1.4	64QAM	1	5	12.29	12.24	12.32				
1.4	64QAM	3	0	12.29	12.28	12.32				
1.4	64QAM	3	1	12.33	12.34	12.38				
1.4	64QAM	3	3	12.26	12.24	12.28				
1.4	64QAM	6	0	12.17	12.16	12.22				

Band 4 (AWS Band) Part 27L (only on power required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 20050	Power High Ch./Freq. 20175	Power High Ch./Freq. 20300	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	13.16	13.24	13.61				
20	QPSK	1	49	13.17	13.28	13.69				
20	QPSK	1	99	13.18	13.32	13.98				
20	QPSK	50	0	13.17	13.33	13.54				
20	QPSK	50	24	13.20	13.37	13.68				
20	QPSK	50	50	13.12	13.36	13.81				
20	QPSK	100	0	13.29	13.27	13.70				
20	16QAM	1	0	13.51	13.46	13.64				
20	16QAM	1	49	13.50	13.79	13.91				
20	16QAM	1	99	13.50	13.66	13.96				
20	16QAM	50	0	13.03	13.11	13.31				
20	16QAM	50	24	13.02	13.11	13.45				
20	16QAM	50	50	12.93	13.15	13.61				
20	16QAM	100	0	12.99	13.11	13.45				
20	64QAM	1	0	13.30	13.21	13.48				
20	64QAM	1	49	13.19	13.47	13.65				
20	64QAM	1	99	13.34	13.47	13.98				
20	64QAM	50	0	12.94	13.08	13.31				
20	64QAM	50	24	12.99	13.09	13.45				
20	64QAM	50	50	12.87	13.09	13.61				
20	64QAM	100	0	13.01	13.09	13.47				



Band 25 (1900MHz band)									
Part 24E									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				26140	26340	26590			
Frequency (MHz)									
20	QPSK	1	0	12.45	12.32	12.39			
20	QPSK	1	49	12.43	12.32	12.33	13.5	0	
20	QPSK	1	99	12.36	12.30	12.40			
20	QPSK	50	0	12.49	12.33	12.54			
20	QPSK	50	24	12.46	12.36	12.44			
20	QPSK	50	50	12.37	12.30	12.41	13.5	0	
20	QPSK	100	0	12.38	12.31	12.47			
20	16QAM	1	0	12.39	12.37	12.44			
20	16QAM	1	49	12.32	12.36	12.48	13.5	0	
20	16QAM	1	99	12.33	12.43	12.36			
20	16QAM	50	0	12.48	12.36	12.44			
20	16QAM	50	24	12.44	12.36	12.45			
20	16QAM	50	50	12.38	12.26	12.35	13.5	0	
20	16QAM	100	0	12.39	12.29	12.43			
20	64QAM	1	0	12.36	12.33	12.42			
20	64QAM	1	49	12.31	12.43	12.47	13.5	0	
20	64QAM	1	99	12.11	12.17	12.13			
20	64QAM	50	0	12.46	12.33	12.42			
20	64QAM	50	24	12.46	12.36	12.44			
20	64QAM	50	50	12.34	12.25	12.39	13.5	0	
20	64QAM	100	0	12.38	12.30	12.44			
Channel				26110	26340	26515	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	0	12.43	12.41	12.49			
15	QPSK	1	37	11.94	11.94	11.86	13.5	0	
15	QPSK	1	74	11.98	11.92	11.95			
15	QPSK	36	0	12.08	11.99	12.01			
15	QPSK	36	20	12.08	12.00	12.03	13.5	0	
15	QPSK	36	39	12.08	12.05	12.07			
15	QPSK	75	0	12.10	12.02	12.03			
15	16QAM	1	0	12.44	12.32	12.36			
15	16QAM	1	37	12.38	12.30	12.23	13.5	0	
15	16QAM	1	74	12.37	12.40	12.29			
15	16QAM	36	0	12.08	11.98	12.03			
15	16QAM	36	20	12.08	12.00	12.01	13.5	0	
15	16QAM	36	39	12.09	12.04	12.05			
15	16QAM	75	0	12.06	12.03	12.07			
15	64QAM	1	0	12.26	12.18	12.20			
15	64QAM	1	37	12.18	12.18	12.05	13.5	0	
15	64QAM	1	74	12.16	12.16	12.01			
15	64QAM	36	0	12.08	12.01	12.03			
15	64QAM	36	20	12.08	12.01	12.01	13.5	0	
15	64QAM	36	39	12.11	12.08	12.06			
15	64QAM	75	0	12.05	12.01	12.06			
Channel				26590	26340	26640	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	0	12.48	12.46	12.45			
10	QPSK	1	25	11.87	11.99	11.92	13.5	0	
10	QPSK	1	49	12.12	12.19	12.14			
10	QPSK	25	0	12.01	12.12	11.99			
10	QPSK	25	12	12.00	12.13	12.04	13.5	0	
10	QPSK	25	25	12.03	12.15	12.07			
10	QPSK	50	0	12.02	12.13	12.05			
10	16QAM	1	0	12.31	12.40	12.49			
10	16QAM	1	25	12.32	12.42	12.30	13.5	0	
10	16QAM	1	49	12.34	12.33	12.33			
10	16QAM	25	0	12.02	12.13	12.01			
10	16QAM	25	12	12.01	12.13	11.99	13.5	0	
10	16QAM	50	0	11.98	12.13	12.03			
10	64QAM	1	0	12.35	12.41	12.43			
10	64QAM	1	25	12.12	12.23	12.11	13.5	0	
10	64QAM	1	49	12.37	12.44	12.19			
10	64QAM	25	0	11.99	12.10	12.02			
10	64QAM	25	12	12.03	12.14	12.03	13.5	0	
10	64QAM	25	25	12.02	12.14	12.06			
10	64QAM	50	0	12.00	12.14	12.05			
Channel				26655	26340	26665	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	0	12.69	12.46	12.45			
5	QPSK	1	12	11.89	11.96	11.86	13.5	0	
5	QPSK	1	24	11.96	12.02	11.92			
5	QPSK	12	0	12.02	12.13	12.03			
5	QPSK	12	7	12.01	12.11	11.98	13.5	0	
5	QPSK	12	13	11.98	12.07	11.98			
5	QPSK	25	0	12.01	12.12	12.02			
5	16QAM	1	0	12.38	12.41	12.38			
5	16QAM	1	12	12.27	12.34	12.22	13.5	0	
5	16QAM	1	24	12.20	12.40	12.29			
5	16QAM	12	0	12.06	12.17	12.05			
5	16QAM	12	7	12.02	12.11	12.01	13.5	0	
5	16QAM	12	13	11.98	12.12	11.97			
5	16QAM	25	0	12.00	12.12	12.01			
5	64QAM	1	0	12.26	12.40	12.28			
5	64QAM	1	12	12.15	12.20	12.08	13.5	0	
5	64QAM	1	24	12.12	12.23	12.10			
5	64QAM	12	0	12.05	12.18	12.05			
5	64QAM	12	7	12.01	12.11	12.01	13.5	0	
5	64QAM	12	13	11.98	12.08	12.00			
5	64QAM	25	0	11.99	12.11	12.04			
Channel				26655	26340	26675	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
3	QPSK	1	0	12.44	12.42	12.46			
3	QPSK	1	8	11.95	12.05	11.90	13.5	0	
3	QPSK	1	14	11.87	12.00	11.90			
3	QPSK	8	0	11.98	12.11	11.96			
3	QPSK	8	4	11.98	12.11	11.88	13.5	0	
3	QPSK	8	7	11.83	12.06	11.86			
3	QPSK	15	0	11.97	12.06	11.97			
3	16QAM	1	0	12.30	12.37	12.33			
3	16QAM	1	8	12.29	12.34	12.36	13.5	0	
3	16QAM	1	14	12.14	12.30	12.27			
3	16QAM	8	0	12.07	12.17	12.01			
3	16QAM	8	4	12.04	12.16	12.05	13.5	0	
3	16QAM	8	7	12.02	12.13	12.00			
3	16QAM	15	0	11.99	12.09	12.00			
3	64QAM	1	0	12.12	12.26	12.12			
3	64QAM	1	3	12.16	12.26	12.12	13.5	0	
3	64QAM	1	14	12.09	12.22	12.09			
3	64QAM	8	0	12.03	12.14	12.00			
3	64QAM	8	4	12.04	12.15	12.01	13.5	0	
3	64QAM	8	7	11.97	12.09	11.97			
3	64QAM	15	0	11.96	12.10	11.95			
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
1.4	QPSK	1	0	12.44	12.46	12.47			
1.4	QPSK	1	3	11.86	12.01	11.86	13.5	0	
1.4	QPSK	1	5	11.87	11.97	11.86			
1.4	QPSK	3	0	11.89	12.00	11.89			
1.4	QPSK	3	1	11.97	12.05	11.91			
1.4	QPSK	3	3	11.89	12.00	11.87			
1.4	QPSK	6	0	11.89	12.01	11.86	13.5	0	
1.4	16QAM	1	0	12.14	12.23	12.17			
1.4	16QAM	1	3	12.22	12.33	12.22			
1.4	16QAM	1	5	12.14	12.22	12.17	13.5	0	
1.4	16QAM	3	0	11.96	12.06	11.93			
1.4	16QAM	3	1	12.02	12.12	11.97			
1.4	16QAM	3	3	11.96	12.08	11.92	13.5	0	
1.4	16QAM	6	0	11.95	12.01	11.94			
1.4	64QAM	1	0	12.12	12.20	12.07			
1.4	64QAM	1	3	12.11	12.18	12.06			
1.4	64QAM	1	5	12.07	12.14	12.07	13.5	0	
1.4	64QAM	3	0	11.98	12.14	12.03			
1.4	64QAM	3	1	12.09	12.19	12.05			
1.4	64QAM	3	3	12.01	12.11	12.01			
1.4	64QAM	6	0	11.92	12.04	11.89	13.5	0	

Band 26 for FCC									
(only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				26765	26865	26965			
Frequency (MHz)									
15	QPSK	1	0	21.53	21.68	21.64			
15	QPSK	1	37	21.52	21.6				



Band 30									
BW (MHz)	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)									
10	QPSK	1	0		20.26				
10	QPSK	1	25		19.83				
10	QPSK	1	49		20.17			21	0
10	QPSK	25	0		19.92				
10	QPSK	25	12		19.96			21	0
10	QPSK	25	25		20.10				
10	QPSK	50	0		20.01				
10	16QAM	1	0		20.13				
10	16QAM	1	25		20.19			21	0
10	16QAM	1	49		20.13				
10	16QAM	25	0		19.93				
10	16QAM	25	12		19.96			21	0
10	16QAM	25	25		20.04				
10	16QAM	50	0		19.90				
10	64QAM	1	0		20.19				
10	64QAM	1	25		20.07			21	0
10	64QAM	1	49		20.17				
10	64QAM	25	0		19.92				
10	64QAM	25	12		19.91			21	0
10	64QAM	25	25		20.05				
10	64QAM	50	0		19.92				
Channel									
Frequency (MHz)									
5	QPSK	1	0	19.87	19.85	19.83			
5	QPSK	1	12	19.84	19.80	19.83		21	0
5	QPSK	1	24	19.85	19.85	19.86			
5	QPSK	12	0	20.02	19.92	19.95			
5	QPSK	12	7	19.89	19.83	20.03		21	0
5	QPSK	12	13	19.90	19.89	20.00			
5	QPSK	25	0	19.87	19.86	20.03			
5	16QAM	1	0	20.16	20.20	20.19			
5	16QAM	1	12	20.14	20.20	20.20		21	0
5	16QAM	1	24	20.11	20.20	20.18			
5	16QAM	12	0	20.07	19.96	19.94			
5	16QAM	12	7	19.94	19.93	20.06		21	0
5	16QAM	12	13	19.89	19.90	20.03			
5	16QAM	25	0	19.91	19.93	20.05			
5	64QAM	1	0	20.20	20.12	20.17			
5	64QAM	1	12	19.87	20.07	20.18		21	0
5	64QAM	1	24	20.05	20.17	20.18			
5	64QAM	12	0	20.07	19.96	19.94			
5	64QAM	12	7	19.93	19.92	20.03		21	0
5	64QAM	12	13	19.92	19.89	20.02			
5	64QAM	25	0	19.88	19.92	20.03			

Band 66									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0		13.16	13.26			
20	QPSK	1	49		13.24	13.31			
20	QPSK	1	99		13.61	14.06	14.09	14.5	0
20	QPSK	50	0		12.79	12.83	13.52		
20	QPSK	50	24		12.87	12.98	13.64	14.5	0
20	QPSK	50	50		12.88	13.55	13.68		
20	QPSK	100	0		12.97	13.65	13.82		
20	16QAM	1	0		13.16	13.13	13.73		
20	16QAM	1	49		13.25	13.34	13.92	14.5	0
20	16QAM	1	99		13.62	13.85	13.97		
20	16QAM	50	0		12.77	12.83	13.52		
20	16QAM	50	24		12.87	13.02	13.66	14.5	0
20	16QAM	50	50		12.90	13.13	13.68		
20	16QAM	100	0		12.85	12.98	13.69		
20	64QAM	1	0		13.05	13.11	13.57		
20	64QAM	1	49		13.09	13.11	13.80	14.5	0
20	64QAM	1	99		13.47	13.80	13.92		
20	64QAM	50	0		12.79	12.82	13.49		
20	64QAM	50	24		12.84	12.99	13.62	14.5	0
20	64QAM	50	50		12.88	13.15	13.67		
20	64QAM	100	0		12.86	12.96	13.60		
Channel									
Frequency (MHz)									
15	QPSK	1	0	12.71	12.75	13.41			
15	QPSK	1	37	12.81	12.81	13.48		14.5	0
15	QPSK	1	74	12.97	13.34	13.81			
15	QPSK	36	0	12.89	12.96	13.67			
15	QPSK	36	20	12.78	13.00	13.67		14.5	0
15	QPSK	36	39	12.82	13.05	13.66			
15	QPSK	75	0	12.85	12.96	13.88			
15	16QAM	1	0	13.55	13.45	13.96			
15	16QAM	1	37	13.14	13.32	13.91		14.5	0
15	16QAM	1	74	13.36	13.76	13.98			
15	16QAM	36	0	12.87	12.93	13.70			
15	16QAM	36	20	12.79	12.87	13.68		14.5	0
15	16QAM	36	39	12.80	13.04	13.63			
15	16QAM	75	0	12.84	13.01	13.67			
15	64QAM	1	0	13.35	13.21	13.94			
15	64QAM	1	37	13.02	13.08	13.84		14.5	0
15	64QAM	1	74	13.16	13.64	13.93			
15	64QAM	36	0	12.88	12.91	13.71			
15	64QAM	36	20	12.78	13.00	13.70		14.5	0
15	64QAM	36	39	12.81	13.05	13.70			
15	64QAM	75	0	12.81	12.98	13.68			
Channel									
Frequency (MHz)									
10	QPSK	1	0	13.11	13.01	13.61			
10	QPSK	1	25	13.16	13.07	13.70		14.5	0
10	QPSK	1	49	13.30	13.66	13.98			
10	QPSK	25	0	12.95	13.68	13.78			
10	QPSK	25	12	13.00	13.17	13.88		14.5	0
10	QPSK	25	25	13.01	13.38	13.94			
10	QPSK	50	0	12.99	13.18	13.82			
10	16QAM	1	0	13.18	13.23	13.56			
10	16QAM	1	25	13.24	13.47	13.97		14.5	0
10	16QAM	1	49	13.64	13.86	13.95			
10	16QAM	25	0	12.98	13.06	13.79			
10	16QAM	25	12	12.99	13.20	13.85		14.5	0
10	16QAM	25	25	13.00	13.26	13.92			
10	16QAM	50	0	12.98	13.17	13.80			
10	64QAM	1	0	13.05	13.04	13.32			
10	64QAM	1	25	13.12	13.29	13.87		14.5	0
10	64QAM	1	49	13.50	13.90	13.97			
10	64QAM	25	0	12.96	13.06	13.79			
10	64QAM	25	12	13.02	13.20	13.87		14.5	0
10	64QAM	25	25	13.02	13.37	13.95			
10	64QAM	50	0	12.93	13.16	13.79			
Channel									
Frequency (MHz)									
5	QPSK	1	0	12.91	13.01	13.54			
5	QPSK	1	12	12.90	13.09	13.74		14.5	0
5	QPSK	1	24	12.90	13.20	13.76			
5	QPSK	12	0	13.05	13.19	13.91			
5	QPSK	12	7	13.03	13.16	13.84		14.5	0
5	QPSK	12	13	13.10	13.14	13.80			
5	QPSK	25	0	13.05	13.19	13.86			
5	16QAM	1	0	13.41	13.54	13.80			
5	16QAM	1	12	13.24	13.39	13.86		14.5	0
5	16QAM	1	24	13.22	13.52	13.91			
5	16QAM	12	0	13.06	13.10	13.94			
5	16QAM	12	7	13.05	13.18	13.85		14.5	0
5	16QAM	12	13	13.13	13.16	13.83			
5	16QAM	25	0	13.04	13.17	13.84			
5	64QAM	1	0	13.34	13.43	13.88			
5	64QAM	1	12	13.10	13.23	13.94		14.5	0
5	64QAM	1	24	13.14	13.39	13.88			
5	64QAM	12	0	13.06	13.21	13.75			
5	64QAM	12	7	13.06	13.18	13.86		14.5	0
5	64QAM	12	13	13.12	13.16	13.82			
5	64QAM	25	0	13.01	13.16	13.85			
Channel									
Frequency (MHz)									
3	QPSK	1	0	12.95	12.87	13.75			
3	QPSK	1	8	12.95	13.07	13.74		14.5	0
3	QPSK	1	14	12.90	13.07	13.73			
3	QPSK	8	0	12.99	13.15	13.83			
3	QPSK	8	4	12.99	13.16	13.81		14.5	0
3	QPSK	8	7	12.97	13.13	13.80			
3	QPSK	15	0	12.96	13.12	13.79			
3	16QAM	1	0	13.26	13.43	13.88			
3	16QAM	1	8	13.30	13.46				



Band 38(only on channel required)												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Meds Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	19.03	18.79	18.83	20	0				
20	QPSK	1	49	19.26	19.06	19.09						
20	QPSK	1	99	19.09	19.08	19.20						
20	QPSK	50	0	19.09	18.53	19.01						
20	QPSK	50	24	19.23	19.04	19.04						
20	QPSK	50	50	19.23	19.26	19.18						
20	QPSK	100	0	19.04	19.03	19.12	20	0				
20	15QAM	1	0	18.92	18.90	19.06						
20	15QAM	1	49	19.11	19.18	19.01						
20	15QAM	1	99	19.22	19.10	18.92						
20	15QAM	50	0	18.98	18.99	18.96						
20	15QAM	50	24	19.07	19.05	18.96						
20	15QAM	50	50	19.10	19.00	19.26						
20	15QAM	100	0	19.22	19.05	19.16	20	0				
20	15QAM	100	24	19.07	18.99	18.67						
20	15QAM	100	49	18.79	18.98	18.62						
20	15QAM	100	74	18.74	18.53	18.58						
20	15QAM	100	99	19.03	18.80	19.11						
20	15QAM	50	24	19.26	18.94	19.14						
20	15QAM	50	50	19.24	18.93	18.83						
20	15QAM	100	0	19.20	18.86	18.99	20	0				
Channel												
Frequency (MHz)												
15	QPSK	1	0	18.91	18.87	18.92			20	0		
15	QPSK	1	37	18.87	18.72	18.74						
15	QPSK	1	74	19.22	18.97	19.15						
15	QPSK	36	0	18.98	19.02	19.02						
15	QPSK	36	20	19.28	19.09	19.11						
15	QPSK	36	39	19.15	19.09	19.20						
15	QPSK	75	0	19.27	19.01	19.14	20	0				
15	15QAM	1	0	19.07	18.93	18.96						
15	15QAM	1	37	19.18	19.01	18.95						
15	15QAM	1	74	19.10	18.98	18.93						
15	15QAM	36	0	18.92	18.78	18.88						
15	15QAM	36	20	19.08	18.85	18.97						
15	15QAM	36	39	19.40	18.85	19.10	20	0				
15	15QAM	75	0	19.38	19.05	19.16						
15	15QAM	75	0	18.70	18.54	18.51						
15	15QAM	1	37	19.03	18.84	19.00						
15	15QAM	1	74	18.96	18.63	18.93						
15	15QAM	36	0	18.97	18.78	19.01						
15	15QAM	36	20	19.14	18.87	19.11						
15	15QAM	36	39	19.10	18.85	19.11	20	0				
15	15QAM	75	0	19.27	19.02	19.17						
Channel												
Frequency (MHz)												
10	QPSK	1	0	19.23	19.03	19.26			20	0		
10	QPSK	1	25	19.19	18.99	18.97						
10	QPSK	1	49	19.40	19.12	19.20						
10	QPSK	25	0	19.15	19.16	19.11						
10	QPSK	25	12	19.30	19.02	19.09						
10	QPSK	25	25	19.41	19.17	19.32						
10	QPSK	50	0	19.18	19.09	19.27	20	0				
10	15QAM	1	0	19.21	19.16	19.22						
10	15QAM	1	25	19.29	19.01	19.08						
10	15QAM	1	49	19.36	19.23	19.26						
10	15QAM	25	0	19.27	19.19	19.06						
10	15QAM	25	12	19.12	18.94	19.22						
10	15QAM	25	25	19.36	19.09	19.26	20	0				
10	15QAM	50	0	19.30	18.94	19.20						
10	15QAM	1	0	19.07	18.58	18.95						
10	15QAM	1	25	18.71	18.94	18.71						
10	15QAM	1	49	18.88	18.76	18.79						
10	15QAM	25	0	19.09	18.91	19.21						
10	15QAM	25	12	19.24	19.19	19.04						
10	15QAM	25	25	19.03	19.03	19.21	20	0				
10	15QAM	50	0	19.07	18.91	19.08						
Channel												
Frequency (MHz)												
5	QPSK	1	0	19.18	18.94	19.26			20	0		
5	QPSK	1	12	19.05	18.76	19.05						
5	QPSK	1	24	19.08	19.02	19.08						
5	QPSK	12	0	19.31	19.16	19.09						
5	QPSK	12	7	19.21	19.11	19.22						
5	QPSK	12	13	19.29	19.04	19.13						
5	QPSK	25	0	19.35	19.06	19.14	20	0				
5	15QAM	1	0	19.23	19.14	19.24						
5	15QAM	1	12	19.14	18.97	19.17						
5	15QAM	1	24	19.21	18.96	19.14						
5	15QAM	12	0	19.20	19.08	19.19						
5	15QAM	12	7	19.28	18.90	19.21						
5	15QAM	12	13	19.30	18.93	19.23	20	0				
5	15QAM	25	0	19.19	19.10	19.09						
5	15QAM	1	0	19.11	18.98	18.98						
5	15QAM	1	12	18.85	18.80	18.79						
5	15QAM	1	24	18.96	18.71	18.89						
5	15QAM	12	0	19.32	19.21	19.12						
5	15QAM	12	7	19.34	19.05	19.26						
5	15QAM	12	13	19.12	19.07	19.16	20	0				
5	15QAM	25	0	19.41	18.89	19.31						

Band 41 (2.6G Band)												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Meds Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	19.39	19.68	19.31	20	0				
20	QPSK	1	49	19.58	19.73	19.50						
20	QPSK	1	99	19.31	19.46	19.25						
20	QPSK	50	0	19.42	19.68	19.26						
20	QPSK	50	24	19.59	19.80	19.60						
20	QPSK	50	50	19.37	19.53	19.34						
20	QPSK	100	0	19.36	19.54	19.30	21	0				
20	16QAM	1	0	19.16	19.38	19.06						
20	16QAM	1	49	19.32	19.33	19.36						
20	16QAM	1	99	19.01	19.13	19.23						
20	16QAM	50	0	19.47	19.74	19.25						
20	16QAM	50	24	19.49	19.74	19.41						
20	16QAM	50	50	19.35	19.60	19.37						
20	16QAM	100	0	19.29	19.55	19.30	21	0				
20	16QAM	100	24	19.43	19.15	19.59						
20	16QAM	100	49	19.16	19.33	19.04						
20	16QAM	1	99	19.35	19.32	19.15						
20	16QAM	50	0	19.40	19.67	19.30						
20	16QAM	50	24	19.47	19.67	19.36						
20	16QAM	50	50	19.28	19.46	19.30						
20	16QAM	100	0	19.33	19.59	19.37	21	0				
Channel												
Frequency (MHz)												
15	QPSK	1	0	19.20	19.39	19.20			21	0		
15	QPSK	1	37	19.26	19.14	19.50						
15	QPSK	1	74	19.28	19.07	19.54						
15	QPSK	36	0	19.48	19.70	19.32						
15	QPSK	36	20	19.54	19.75	19.48						
15	QPSK	36	39	19.57	19.80	19.55						
15	QPSK	75	0	19.45	19.72	19.36	21	0				
15	16QAM	1	0	19.08	19.15	19.58						
15	16QAM	1	37	19.04	19.26	19.47						
15	16QAM	1	74	19.30	19.39	19.18						
15	16QAM	36	0	19.44	19.69	19.20						
15	16QAM	36	20	19.53	19.69	19.38						
15	16QAM	36	39	19.57	19.68	19.55	21	0				
15	16QAM	75	0	19.45	19.74	19.40						
15	16QAM	75	0	18.45	18.74	19.40						
15	16QAM	1	37	19.42	19.36	19.12						
15	16QAM	1	74	19.04	19.20	19.08						
15	16QAM	36	0	19.31	19.62	19.19						
15	16QAM	36	20	19.41	19.67	19.39						
15	16QAM	36	39	19.45	19.61	19.37	21	0				
15	16QAM	75	0	19.39	19.68	19.33						
Channel												
Frequency (MHz)												
10	QPSK	1	0	19.48	19.77	19.41			21	0		
10	QPSK	1	25	19.60	19.15	19.52						
10	QPSK	1	49	19.40	19.72	19.49						
10	QPSK	25	0	19.36	19.77	19.50						
10	QPSK	25	12	19.55	19.62	19.63						
10	QPSK	25	25	19.48	19.76	19.53						
10	QPSK	50	0	19.46	19.77	19.49	21	0				
10	16QAM	1	0	19.38	19.78	19.26						
10	16QAM	1	25	19.36	19.75	19.45						
10	16QAM	1	49	19.43	19.67	19.40						
10	16QAM	25	0	19.40	19.82	19.36						
10	16QAM	25	12	19.55	19.81	19.67						
10	16QAM	25	25	19.50	19.83	19.61	21	0				
10	16QAM	50	0	19.43	19.78	19.56						
10	16QAM	50	0	19.02	19.32	19.01						
10	16QAM	1	25	19.07	19.31	19.08						
10	16QAM	1	49	19.08	19.30	19.04						
10	16QAM	25	0	19.34	19.83	19.54						
10	16QAM	25	12	19.51	19.89	19.60						
10	16QAM	25	25	19.49	19.79	19.51	21	0				
10	16QAM	50	0	19.39	19.78	19.51						
Channel												
Frequency (MHz)												
5	QPSK	1	0	19.60	19.44	19.66			21	0		
5												



Reduced Power Mode for Handheld On

Band	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
GSM1900								
TX Channel	512	661	810					
Rx Channel	512	661	810					
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slots	26.39	26.35	26.23	27.00	17.39	17.35	17.23	18.50
GPRS 1 Tx slots	26.33	26.28	26.71	27.00	17.33	17.28	17.71	18.50
GPRS 2 Tx slots	24.33	24.41	24.35	26.00	16.33	16.41	16.39	20.00
GPRS 3 Tx slots	22.11	22.04	22.01	23.00	17.85	17.78	17.75	18.24
GPRS 4 Tx slots	19.86	19.87	19.79	21.00	16.96	16.87	16.79	18.50
EDGE 1 Tx slots	22.02	22.10	22.03	23.00	13.02	13.10	13.03	14.50
EDGE 2 Tx slots	19.85	19.92	19.89	21.00	13.85	13.92	13.89	15.50
EDGE 3 Tx slots	17.57	17.64	17.61	19.00	13.31	13.38	13.35	14.74
EDGE 4 Tx slots	16.01	16.11	16.05	18.00	13.01	13.11	13.05	15.00

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513	
TX Channel	9262	9400	9538		1312	1413	1513	
Rx Channel	9262	9400	9538		1312	1413	1513	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	17.44	17.45	17.46	18.50	18.08	15.98	16.01
3GPP Rel 99	RMTC 12.2Kbps	17.46	17.47	17.51	18.50	16.12	16.01	17.50
3GPP Rel 6	HSDPA Subtest-1	16.80	16.56	16.49	17.50	15.30	15.27	15.44
3GPP Rel 6	HSDPA Subtest-2	16.58	16.58	16.54	17.50	15.33	15.34	15.46
3GPP Rel 6	HSDPA Subtest-3	15.73	16.07	15.99	17.00	14.85	14.80	15.06
3GPP Rel 6	HSDPA Subtest-4	16.06	16.09	16.04	17.00	14.74	14.84	14.49
3GPP Rel 6	DCHSDPA Subtest-1	16.44	16.49	16.32	17.50	15.22	15.27	15.59
3GPP Rel 6	DCHSDPA Subtest-2	16.51	16.39	16.51	17.50	15.27	15.31	15.36
3GPP Rel 6	DCHSDPA Subtest-3	15.61	15.99	15.95	17.00	14.85	14.68	15.02
3GPP Rel 6	DCHSDPA Subtest-4	16.05	16.05	15.94	17.00	14.54	14.79	14.48
3GPP Rel 6	HSPA Subtest-1	16.58	16.59	16.54	17.50	15.27	15.34	15.12
3GPP Rel 6	HSPA Subtest-2	14.57	14.58	14.57	15.50	13.15	13.14	13.17
3GPP Rel 6	HSPA Subtest-3	15.59	15.56	15.51	16.50	14.24	14.27	14.27
3GPP Rel 6	HSPA Subtest-4	14.60	14.55	14.50	15.50	13.26	13.28	13.17
3GPP Rel 6	HSPA Subtest-5	16.62	16.62	16.52	17.50	15.28	15.28	15.38

Band	CDMA BIC1			Tune-up Limit (dBm)
	75	800	1175	
TX Channel	75	800	1175	
Rx Channel	75	800	1175	
Frequency (MHz)	1851.25	1880	1908.75	
RC1 S055	19.13	19.36	19.17	20.00
RC3 S055	19.04	19.25	19.07	20.00
RC3 S032 (H-SCH)	19.25	19.33	19.16	20.00
RC3 S032 (H-SCH)	19.23	19.20	19.03	20.00
RTAP 153.6Kbps	19.04	19.07	18.97	20.00
RETAP 4956Kbps	18.75	18.75	18.63	20.00



Band 7 (2600MHz Band)									
Part 22									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2065.0	2100.0	2135.0			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	19.14	19.40	19.45			
20	QPSK	1	49	19.16	19.41	19.42	20	0	
20	QPSK	1	99	19.27	19.42	19.52			
20	QPSK	50	0	18.95	19.10	19.07			
20	QPSK	50	24	18.92	19.12	19.14			
20	QPSK	50	99	19.15	19.10	19.17	20	0	
20	QPSK	100	0	18.97	19.12	19.15			
20	16QAM	1	0	19.17	19.44	19.41			
20	16QAM	1	49	19.12	19.49	19.50	20	0	
20	16QAM	1	99	19.24	19.42	19.51			
20	16QAM	50	0	18.94	19.09	19.08			
20	16QAM	50	24	18.95	19.10	19.12			
20	16QAM	50	99	19.01	19.09	19.14	20	0	
20	16QAM	100	0	18.90	19.07	19.11			
20	64QAM	1	0	19.06	19.27	19.31			
20	64QAM	1	49	18.97	19.24	19.30	20	0	
20	64QAM	1	99	19.10	19.24	19.30			
20	64QAM	50	0	18.34	18.57	18.56			
20	64QAM	50	24	18.32	18.58	18.61			
20	64QAM	50	99	18.39	18.65	18.66	20	0	
20	64QAM	100	0	18.41	18.65	18.61			
Channel				2095.0	2100.0	2137.5			
Frequency (MHz)				2507.5	2530	2562.5			
15	QPSK	1	0	18.74	18.91	18.88			
15	QPSK	1	37	18.75	18.95	18.94	20	0	
15	QPSK	1	74	18.76	19.09	19.03			
15	QPSK	36	0	18.89	19.12	19.12			
15	QPSK	36	20	18.34	19.09	19.14	20	0	
15	QPSK	36	39	18.81	19.10	19.11			
15	QPSK	75	0	18.83	19.09	19.11			
15	16QAM	1	0	19.16	19.43	19.39			
15	16QAM	1	37	19.22	19.48	19.49	20	0	
15	16QAM	1	74	19.13	19.45	19.45			
15	16QAM	36	0	18.88	19.11	19.13			
15	16QAM	36	20	18.93	19.13	19.14	20	0	
15	16QAM	36	39	18.79	19.12	19.13			
15	64QAM	1	0	19.05	19.11	19.12			
15	64QAM	1	0	19.04	19.33	19.30			
15	64QAM	1	37	18.88	19.18	19.14	20	0	
15	64QAM	1	74	18.94	19.28	19.23			
15	64QAM	36	0	18.38	18.61	18.61			
15	64QAM	36	20	18.46	18.62	18.65			
15	64QAM	36	39	18.29	18.61	18.65	20	0	
15	64QAM	75	0	18.31	18.68	18.60			
Channel				2060.0	2100.0	2160.0			
Frequency (MHz)				2055	2090	2095			
10	QPSK	1	0	18.89	19.05	19.10			
10	QPSK	1	25	18.88	19.10	19.17	20	0	
10	QPSK	1	49	19.02	19.29	19.29			
10	QPSK	25	0	18.87	19.26	19.22			
10	QPSK	25	12	18.86	19.14	19.23	20	0	
10	QPSK	25	25	18.88	19.22	19.22			
10	QPSK	50	0	18.99	19.15	19.26			
10	16QAM	1	0	19.44	19.37	19.46			
10	16QAM	1	25	19.22	19.50	19.41	20	0	
10	16QAM	1	49	19.29	19.48	19.48			
10	16QAM	25	0	18.88	19.23	19.21			
10	16QAM	25	12	18.89	19.12	19.23	20	0	
10	16QAM	25	25	18.86	19.22	19.18			
10	16QAM	50	0	18.99	19.17	19.24			
10	64QAM	1	0	19.35	19.43	19.46			
10	64QAM	1	25	19.07	19.26	19.43	20	0	
10	64QAM	1	49	19.23	19.42	19.46			
10	64QAM	25	0	18.33	18.72	18.72			
10	64QAM	25	12	18.39	18.64	18.73	20	0	
10	64QAM	25	25	18.39	18.68	18.71			
10	64QAM	50	0	18.43	18.67	18.77			
Channel				2077.5	2100.0	2142.5			
Frequency (MHz)				2072.5	2095	2097.5			
5	QPSK	1	0	18.79	18.95	19.00			
5	QPSK	1	12	18.78	19.00	19.07	20	0	
5	QPSK	1	24	18.92	19.19	19.19			
5	QPSK	12	0	18.77	19.16	19.12			
5	QPSK	12	7	18.76	19.04	19.13	20	0	
5	QPSK	12	13	18.78	19.12	19.12			
5	QPSK	25	0	18.83	19.06	19.18			
5	16QAM	1	0	19.34	19.47	19.45			
5	16QAM	1	12	19.12	19.40	19.51	20	0	
5	16QAM	1	24	19.19	19.48	19.48			
5	16QAM	12	0	18.78	19.13	19.11			
5	16QAM	12	7	18.79	19.02	19.13	20	0	
5	16QAM	12	13	18.76	19.12	19.08			
5	16QAM	25	0	18.83	19.07	19.14			
5	64QAM	1	0	19.23	19.43	19.48			
5	64QAM	1	12	18.97	19.15	19.33	20	0	
5	64QAM	1	24	19.15	19.32	19.36			
5	64QAM	12	0	18.23	18.62	18.62			
5	64QAM	12	7	18.29	18.54	18.63	20	0	
5	64QAM	12	13	18.29	18.58	18.61			
5	64QAM	25	0	18.33	18.57	18.67			

Band 30									
Part 27									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2765.0	2770.0	2775.0			
Frequency (MHz)				2310					
10	QPSK	1	0	19.57					
10	QPSK	1	25	19.32			20.5	0	
10	QPSK	1	49	19.40					
10	QPSK	25	0	19.11					
10	QPSK	25	12	19.17			20.5	0	
10	QPSK	25	25	19.35					
10	QPSK	50	0	19.32					
10	16QAM	1	0	19.42					
10	16QAM	1	25	19.21			20.5	0	
10	16QAM	1	49	19.48					
10	16QAM	25	0	19.10					
10	16QAM	25	12	19.14			20.5	0	
10	16QAM	25	25	19.22					
10	16QAM	50	0	19.09					
10	64QAM	1	0	19.47					
10	64QAM	1	25	19.29			20.5	0	
10	64QAM	1	49	19.40					
10	64QAM	25	0	18.89					
10	64QAM	25	12	18.90			20.5	0	
10	64QAM	25	25	19.01					
10	64QAM	50	0	18.90					
Channel				2765.0	2770.0	2775.0			
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	0	18.72	18.80	18.81			
5	QPSK	1	12	18.78	18.79	18.85	20.5	0	
5	QPSK	1	24	19.02	19.11	19.09			
5	QPSK	12	0	19.19	19.16	19.18			
5	QPSK	12	7	19.10	19.14	19.23	20.5	0	
5	QPSK	12	13	19.12	19.10	19.19			
5	QPSK	25	0	19.11	19.16	19.23			
5	16QAM	1	0	19.55	19.48	19.49			
5	16QAM	1	12	19.43	19.49	19.51	20.5	0	
5	16QAM	1	24	19.47	19.50	19.45			
5	16QAM	12	0	19.22	19.19	19.17			
5	16QAM	12	7	19.10	19.15	19.20	20.5	0	
5	16QAM	12	13	19.12	19.11	19.18			
5	64QAM	1	0	19.38	19.40	19.45			
5	64QAM	1	12	19.31	19.31	19.37	20.5	0	
5	64QAM	1	24	19.28	19.34	19.36			
5	64QAM	12	0	19.06	18.83	18.91			
5	64QAM	12	7	18.88	18.89	19.03	20.5	0	
5	64QAM	12	13	18.87	18.87	19.01			
5	64QAM	25	0	18.87	18.90	19.02			

**Band 2 (1900MHz Band)**

Part 24E									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Hsp./Ch./Freq.	Power Hsp./Freq.	Time-up (min)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	19.76	19.82	19.86	20.5	0	
20	QPSK	1	49	19.85	19.91	19.95			
20	QPSK	1	99	19.94	19.98	19.98			
20	QPSK	50	0	19.99	19.93	19.92			
20	QPSK	50	49	19.98	19.94	19.97			
20	QPSK	50	99	19.94	19.91	19.88			
20	QPSK	100	0	19.98	19.92	19.94			
20	QPSK	100	49	19.98	19.92	19.93			
20	QPSK	100	99	19.97	19.89	19.78			
20	ISDM	1	0	19.92	19.88	19.88			
20	ISDM	1	49	19.92	19.88	19.88			
20	ISDM	50	24	19.93	19.85	19.80			
20	ISDM	50	99	19.91	19.84	19.84			
20	ISDM	100	0	19.93	19.84	19.84			
20	ISDM	100	49	19.92	19.87	19.76			
20	ISDM	100	99	19.92	19.87	19.88			
20	ISDM	100	149	19.92	19.87	19.88			
20	ISDM	100	199	19.92	19.87	19.88			
20	ISDM	100	249	19.92	19.87	19.88			
20	ISDM	100	299	19.92	19.87	19.88			
20	ISDM	100	349	19.92	19.87	19.88			
20	ISDM	100	399	19.92	19.87	19.88			
20	ISDM	100	449	19.92	19.87	19.88			
20	ISDM	100	499	19.92	19.87	19.88			
20	ISDM	100	549	19.92	19.87	19.88			
20	ISDM	100	599	19.92	19.87	19.88			
20	ISDM	100	649	19.92	19.87	19.88			
20	ISDM	100	699	19.92	19.87	19.88			
20	ISDM	100	749	19.92	19.87	19.88			
20	ISDM	100	799	19.92	19.87	19.88			
20	ISDM	100	849	19.92	19.87	19.88			
20	ISDM	100	899	19.92	19.87	19.88			
20	ISDM	100	949	19.92	19.87	19.88			
20	ISDM	100	999	19.92	19.87	19.88			
20	ISDM	100	1049	19.92	19.87	19.88			
20	ISDM	100	1099	19.92	19.87	19.88			
20	ISDM	100	1149	19.92	19.87	19.88			
20	ISDM	100	1199	19.92	19.87	19.88			
20	ISDM	100	1249	19.92	19.87	19.88			
20	ISDM	100	1299	19.92	19.87	19.88			
20	ISDM	100	1349	19.92	19.87	19.88			
20	ISDM	100	1399	19.92	19.87	19.88			
20	ISDM	100	1449	19.92	19.87	19.88			
20	ISDM	100	1499	19.92	19.87	19.88			
20	ISDM	100	1549	19.92	19.87	19.88			
20	ISDM	100	1599	19.92	19.87	19.88			
20	ISDM	100	1649	19.92	19.87	19.88			
20	ISDM	100	1699	19.92	19.87	19.88			
20	ISDM	100	1749	19.92	19.87	19.88			
20	ISDM	100	1799	19.92	19.87	19.88			
20	ISDM	100	1849	19.92	19.87	19.88			
20	ISDM	100	1899	19.92	19.87	19.88			
20	ISDM	100	1949	19.92	19.87	19.88			
20	ISDM	100	1999	19.92	19.87	19.88			
20	ISDM	100	2049	19.92	19.87	19.88			
20	ISDM	100	2099	19.92	19.87	19.88			
20	ISDM	100	2149	19.92	19.87	19.88			
20	ISDM	100	2199	19.92	19.87	19.88			
20	ISDM	100	2249	19.92	19.87	19.88			
20	ISDM	100	2299	19.92	19.87	19.88			
20	ISDM	100	2349	19.92	19.87	19.88			
20	ISDM	100	2399	19.92	19.87	19.88			
20	ISDM	100	2449	19.92	19.87	19.88			
20	ISDM	100	2499	19.92	19.87	19.88			
20	ISDM	100	2549	19.92	19.87	19.88			
20	ISDM	100	2599	19.92	19.87	19.88			
20	ISDM	100	2649	19.92	19.87	19.88			
20	ISDM	100	2699	19.92	19.87	19.88			
20	ISDM	100	2749	19.92	19.87	19.88			
20	ISDM	100	2799	19.92	19.87	19.88			
20	ISDM	100	2849	19.92	19.87	19.88			
20	ISDM	100	2899	19.92	19.87	19.88			
20	ISDM	100	2949	19.92	19.87	19.88			
20	ISDM	100	2999	19.92	19.87	19.88			
20	ISDM	100	3049	19.92	19.87	19.88			
20	ISDM	100	3099	19.92	19.87	19.88			
20	ISDM	100	3149	19.92	19.87	19.88			
20	ISDM	100	3199	19.92	19.87	19.88			
20	ISDM	100	3249	19.92	19.87	19.88			
20	ISDM	100	3299	19.92	19.87	19.88			
20	ISDM	100	3349	19.92	19.87	19.88			
20	ISDM	100	3399	19.92	19.87	19.88			
20	ISDM	100	3449	19.92	19.87	19.88			
20	ISDM	100	3499	19.92	19.87	19.88			
20	ISDM	100	3549	19.92	19.87	19.88			
20	ISDM	100	3599	19.92	19.87	19.88			
20	ISDM	100	3649	19.92	19.87	19.88			
20	ISDM	100	3699	19.92	19.87	19.88			
20	ISDM	100	3749	19.92	19.87	19.88			
20	ISDM	100	3799	19.92	19.87	19.88			
20	ISDM	100	3849	19.92	19.87	19.88			
20	ISDM	100	3899	19.92	19.87	19.88			
20	ISDM	100	3949	19.92	19.87	19.88			
20	ISDM	100	3999	19.92	19.87	19.88			
20	ISDM	100	4049	19.92	19.87	19.88			
20	ISDM	100	4099	19.92	19.87	19.88			
20	ISDM	100	4149	19.92	19.87	19.88			
20	ISDM	100	4199	19.92	19.87	19.88			
20	ISDM	100	4249	19.92	19.87	19.88			
20	ISDM	100	4299	19.92	19.87	19.88			
20	ISDM	100	4349	19.92	19.87	19.88			
20	ISDM	100	4399	19.92	19.87	19.88			
20	ISDM	100	4449	19.92	19.87	19.88			
20	ISDM	100	4499	19.92	19.87	19.88			
20	ISDM	100	4549	19.92	19.87	19.88			
20	ISDM	100	4599	19.92	19.87	19.88			
20	ISDM	100	4649	19.92	19.87	19.88			
20	ISDM	100	4699	19.92	19.87	19.88			
20	ISDM	100	4749	19.92	19.87	19.88			
20	ISDM	100	4799	19.92	19.87	19.88			
20	ISDM	100	4849	19.92	19.87	19.88			
20	ISDM	100	4899	19.92	19.87	19.88			
20	ISDM	100	4949	19.92	19.87	19.88			
20	ISDM	100	4999	19.92	19.87	19.88			
20	ISDM	100	5049	19.92	19.87	19.88			
20	ISDM	100	5099	19.92	19.87	19.88			
20	ISDM	100	5149	19.92	19.87	19.88			
20	ISDM	100	5199	19.92	19.87	19.88			
20	ISDM	100	5249	19.92	19.87	19.88			
20	ISDM	100	5299	19.92	19.87	19.88			
20	ISDM	100	5349	19.92	19.87	19.88			
20	ISDM	100	5399	19.92	19.87	19.88			
20	ISDM	100	5449	19.92	19.87	19.88			
20	ISDM	100	5499	19.92	19.87	19.88			
20	ISDM	100	5549	19.92	19.87	19.88			
20	ISDM	100	5599	19.92	19.87	19.88			
20	ISDM	100	5649	19.92	19.87	19.88			
20	ISDM	100	5699	19.92	19.87	19.88			
20	ISDM	100	5749	19.92	19.87	19.88			
20	ISDM	100	5799	19.92	19.87	19.88			
20	ISDM	100	5849	19.92	19.87	19.88			
20	ISDM	100	5899	19.92	19.87	19.88			
20	ISDM	100	5949	19.92	19.87	19.88			
20	ISDM	100	5999	19.92	19.87	19.88			
20	ISDM	100	6049	19.92	19.87	19.88			



Band 38(only on channel required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				3750	3850	3950				
Frequency (MHz)				2575	2595	2610				
20	QPSK	1	0	20.17	19.91	19.93	21	0		
20	QPSK	1	49	20.70	20.41	20.57				
20	QPSK	1	99	20.96	20.27	20.37				
20	QPSK	50	0	20.43	20.43	20.42				
20	QPSK	50	24	20.67	20.23	20.25				
20	QPSK	50	50	20.39	20.45	20.54				
20	QPSK	100	0	20.57	20.17	20.18				
20	16QAM	1	0	20.20	19.95	20.23				
20	16QAM	1	49	20.38	20.26	20.30				
20	16QAM	1	99	20.37	20.13	20.20				
20	16QAM	50	0	19.33	19.48	19.47				
20	16QAM	50	24	19.67	19.18	19.18				
20	16QAM	50	50	19.92	19.51	19.59				
20	16QAM	100	0	19.39	19.11	19.22				
20	64QAM	1	0	19.90	19.57	19.62				
20	64QAM	1	49	19.73	19.43	19.46				
20	64QAM	1	99	19.63	19.40	19.48				
20	64QAM	50	0	19.46	19.00	19.39				
20	64QAM	50	24	19.36	19.21	19.12				
20	64QAM	50	50	19.68	19.44	19.49				
20	64QAM	100	0	19.33	19.16	19.18				
Channel				3725	3820	3875				
Frequency (MHz)				2575	2595	2612.5				
15	QPSK	1	0	20.54	20.33	20.40	21	0		
15	QPSK	1	37	20.32	20.10	20.12				
15	QPSK	1	74	20.59	20.33	20.36				
15	QPSK	36	0	20.29	20.16	20.21				
15	QPSK	36	20	20.38	20.24	20.52				
15	QPSK	36	39	20.42	20.45	20.54				
15	QPSK	75	0	20.44	20.15	20.41				
15	16QAM	1	0	20.31	20.28	20.28				
15	16QAM	1	37	20.33	19.93	20.20				
15	16QAM	1	74	20.41	20.26	20.29				
15	16QAM	36	0	19.86	19.24	19.21				
15	16QAM	36	20	19.53	19.33	19.38				
15	16QAM	36	39	19.58	19.20	19.43				
15	16QAM	75	0	19.58	19.42	19.47				
15	64QAM	1	0	19.48	19.22	19.24				
15	64QAM	1	37	19.30	19.52	19.07				
15	64QAM	1	74	19.98	19.32	19.59				
15	64QAM	36	0	19.43	19.31	19.37				
15	64QAM	36	20	19.61	19.30	19.51				
15	64QAM	36	39	19.46	19.22	19.31				
15	64QAM	75	0	19.32	19.25	19.44				
Channel				3700	3800	3820				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	20.69	20.29	20.33	21	0		
10	QPSK	1	25	20.38	20.34	20.56				
10	QPSK	1	49	20.64	20.27	20.39				
10	QPSK	25	0	20.85	20.41	20.49				
10	QPSK	25	12	20.80	20.13	20.58				
10	QPSK	25	25	20.44	20.28	20.62				
10	QPSK	50	0	20.63	20.22	20.64				
10	16QAM	1	0	20.86	20.57	20.54				
10	16QAM	1	25	20.51	20.21	20.59				
10	16QAM	1	49	20.51	20.51	20.65				
10	16QAM	25	0	19.74	19.35	19.22				
10	16QAM	25	12	19.38	19.31	19.21				
10	16QAM	25	25	19.40	19.45	19.44				
10	16QAM	50	0	19.48	19.50	19.38				
10	64QAM	1	0	19.84	19.38	19.71				
10	64QAM	1	25	19.76	19.56	19.70				
10	64QAM	1	49	19.77	19.60	19.74				
10	64QAM	25	0	19.41	19.42	19.50				
10	64QAM	25	12	19.59	19.15	19.59				
10	64QAM	25	25	19.75	19.44	19.55				
10	64QAM	50	0	19.41	19.24	19.53				
Channel				3775	3800	3825				
Frequency (MHz)				2575	2595	2617.5				
5	QPSK	1	0	20.48	20.39	20.55	21	0		
5	QPSK	1	12	20.23	20.29	20.31				
5	QPSK	1	24	20.33	20.13	20.41				
5	QPSK	12	0	20.66	20.18	20.56				
5	QPSK	12	7	20.33	20.33	20.50				
5	QPSK	12	13	20.69	20.24	20.32				
5	QPSK	25	0	20.53	20.16	20.34				
5	16QAM	1	0	20.64	20.42	20.59				
5	16QAM	1	12	20.58	20.54	20.59				
5	16QAM	1	24	20.52	20.34	20.53				
5	16QAM	12	0	19.85	19.21	19.38				
5	16QAM	12	7	19.66	19.26	19.51				
5	16QAM	12	13	19.67	19.16	19.53				
5	16QAM	25	0	19.78	19.21	19.60				
5	64QAM	1	0	19.79	19.36	19.65				
5	64QAM	1	12	19.72	19.89	19.78				
5	64QAM	1	24	19.80	19.53	19.37				
5	64QAM	12	0	19.54	19.28	19.62				
5	64QAM	12	13	19.67	19.29	19.55				
5	64QAM	25	0	19.53	19.54	19.62				

Band 41 (2.6G Band)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				3970	4060	4150				
Frequency (MHz)				2595	2593	2620				
20	QPSK	1	0	20.75	20.90	20.91	22	0		
20	QPSK	1	49	20.63	20.68	20.75				
20	QPSK	1	99	20.30	20.24	20.25				
20	QPSK	50	0	20.27	20.39	20.18				
20	QPSK	50	24	20.59	20.40	20.90				
20	QPSK	50	50	20.10	20.21	20.09				
20	QPSK	100	0	20.35	20.49	20.20				
20	16QAM	1	0	20.81	20.63	20.74				
20	16QAM	1	49	20.14	20.15	20.24				
20	16QAM	1	99	20.71	20.61	20.66				
20	16QAM	50	0	20.50	20.71	20.29				
20	16QAM	50	24	20.54	20.75	20.91				
20	16QAM	50	50	20.39	20.62	20.37				
20	16QAM	100	0	20.84	20.84	20.76				
20	64QAM	1	0	20.73	20.86	20.52				
20	64QAM	1	49	20.95	20.99	20.90				
20	64QAM	1	99	20.40	20.56	20.61				
20	64QAM	50	0	20.83	20.99	20.52				
20	64QAM	50	24	20.91	20.95	20.93				
20	64QAM	50	50	20.77	20.76	20.82				
20	64QAM	100	0	20.78	20.74	20.86				
Channel				3975	4073	4160				
Frequency (MHz)				2593.5	2593	2625.5				
15	QPSK	1	0	20.81	20.63	20.16	22	0		
15	QPSK	1	37	20.50	20.65	20.49				
15	QPSK	1	74	20.39	20.43	20.40				
15	QPSK	36	0	20.92	20.97	20.69				
15	QPSK	36	20	20.97	21.04	20.92				
15	QPSK	36	39	21.01	21.06	21.00				
15	QPSK	75	0	20.94	20.99	20.80				
15	16QAM	1	0	20.50	20.37	20.34				
15	16QAM	1	37	20.58	20.77	20.63				
15	16QAM	1	74	20.21	20.44	20.50				
15	16QAM	36	0	20.82	20.85	20.88				
15	16QAM	36	20	20.90	20.94	20.83				
15	16QAM	36	39	20.98	20.94	20.95				
15	16QAM	75	0	20.89	20.94	20.82				
15	64QAM	1	0	20.19	20.98	20.30				
15	64QAM	1	37	21.07	20.29	20.21				
15	64QAM									

UL CA

Full Power										Tune up Power (dBm)
Head SAR										
CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	49	0	0	1	0	23.73	25.00
40185	39987	QPSK	1	49	0	0	1	0	23.31	25.00
40620	40422	QPSK	1	49	0	0	1	0	23.21	25.00
41055	40857	QPSK	1	49	0	0	1	0	23.18	25.00
41490	41292	QPSK	1	49	0	0	1	0	23.25	25.00
Hotspot on Sensor On										Tune up Power (dBm)
CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	100	0	0	0	1	0	19.83	21.00
40185	39987	QPSK	100	0	0	0	1	0	19.69	21.00
40620	40422	QPSK	100	0	0	0	1	0	19.42	21.00
41055	40857	QPSK	100	0	0	0	1	0	19.5	21.00
41490	41292	QPSK	100	0	0	0	1	0	19.56	21.00
Handheld										
CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	50	24	0	0	1	0	20.54	22
40185	39987	QPSK	50	24	0	0	1	0	20.21	22
40620	40422	QPSK	50	24	0	0	1	0	20.57	22
41055	40857	QPSK	50	24	0	0	1	0	20.23	22
41490	41292	QPSK	50	24	0	0	1	0	20.46	22



DL CA Full Power

2CC		DL CA Full Power													
Configure	CA Configuration (BCS)	PCC							SCC				Power		
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)	
Inter-Band	CA_2A-4A	2	20	1860	18700	QPSK	1	0	4	20	2132.5	2175	22.90	22.94	
	CA_2A-5A	2	20	1860	18700	QPSK	1	0	5	10	881.5	2525	22.87	22.94	
	CA_2A-7A	2	20	1860	18700	QPSK	1	0	7	20	2655	3100	22.89	22.94	
	CA_2A-12A	2	20	1860	18700	QPSK	1	0	12	10	737.5	5095	22.91	22.94	
	CA_2A-13A	2	20	1860	18700	QPSK	1	0	13	10	751	5230	22.88	22.94	
	CA_2A-14A	2	20	1860	18700	QPSK	1	0	14	10	763	5330	22.83	22.94	
	CA_2A-17A	2	10	1855	18650	QPSK	1	0	17	10	740	5790	22.72	22.81	
	CA_2A-29A	2	20	1860	18700	QPSK	1	0	29	10	722.5	9715	22.84	22.94	
	CA_2A-30A	2	20	1860	18700	QPSK	1	0	30	10	2355	9820	22.78	22.94	
	CA_2A-66A	2	20	1860	18700	QPSK	1	0	66	20	2155	66886	22.90	22.94	
	CA_2A-71A	2	20	1860	18700	QPSK	1	0	71	20	637	68786	22.69	22.94	
	CA_4A-5A	4	20	1732.5	20175	QPSK	1	99	5	10	881.5	2525	22.67	22.98	
	CA_4A-7A	4	20	1732.5	20175	QPSK	1	99	7	20	2655	3100	22.67	22.98	
	CA_4A-12A	4	20	1732.5	20175	QPSK	1	99	12	10	737.5	5095	22.74	22.98	
	CA_4A-13A	4	20	1732.5	20175	QPSK	1	99	13	10	751	5230	22.69	22.98	
	CA_4A-17A	4	10	1732.5	20175	QPSK	1	0	17	10	740	5790	22.40	22.98	
	CA_4A-30A	4	20	1732.5	20175	QPSK	1	99	29	10	722.5	9715	22.74	22.98	
	CA_4A-30A	4	20	1732.5	20175	QPSK	1	99	30	10	2355	9820	22.91	22.98	
	CA_4A-71A	4	20	1732.5	20175	QPSK	1	99	71	20	637	68786	22.58	22.98	
	CA_5A-7A	5	10	836.5	20525	QPSK	1	49	7	20	2655	3100	22.77	23.01	
	CA_5A-30A	5	10	836.5	20525	QPSK	1	49	30	10	2355	9820	22.98	23.01	
	CA_5A-66A	5	10	836.5	20525	QPSK	1	49	66	20	2155	66886	22.93	23.01	
	CA_7A-12A	7	20	2560	21350	QPSK	1	99	12	10	737.5	5095	23.04	23.46	
	CA_7A-66A	7	20	2560	21350	QPSK	1	99	66	20	2155	66886	23.05	23.46	
	CA_12A-30A	12	10	707.5	23095	QPSK	1	0	30	10	2355	9820	22.86	22.90	
	CA_12A-66A	12	10	707.5	23095	QPSK	1	0	66	20	2155	66886	22.75	22.90	
	CA_13A-66A	13	10	782	23230	QPSK	1	0	66	20	2155	66886	22.56	22.63	
	CA_14A-30A	14	10	793	23330	QPSK	1	49	30	10	2355	9820	22.65	22.72	
	CA_14A-66A	14	10	793	23330	QPSK	1	49	66	20	2155	66886	22.68	22.72	
	CA_25A-26A	25	20	1905	26590	QPSK	1	0	26	15	876.5	8865	22.78	22.93	
CA_25A-41A	25	20	1905	26590	QPSK	1	0	41	20	2593	40620	22.82	22.93		
CA_26A-41A	26	15	831.5	26865	QPSK	1	74	41	20	2593	40620	22.50	23.08		
CA_29A-30A	30	10	2310	27710	QPSK	1	0	29	10	722.5	9715	22.71	22.92		
CA_29A-66A	66	20	1770	132572	QPSK	1	99	29	10	722.5	9715	23.15	23.36		
CA_30A-66A	30	10	2310	27710	QPSK	1	0	66	20	2155	66886	22.87	22.92		
CA_66A-71A	66	20	1770	132572	QPSK	1	99	71	20	637	68786	23.23	23.36		
Inter-Band	Non-Contiguous	CA_2A-2A	2	20	1860	18700	QPSK	1	0	2	5	1987.5	1175	22.87	22.94
		CA_4A-4A	4	20	1732.5	20175	QPSK	1	99	4	5	2152.5	2375	22.53	22.98
		CA_7A-7A	7	20	2560	21350	QPSK	1	99	7	5	2622.5	2775	23.01	23.46
		CA_25A-25A	25	20	1905	26590	QPSK	1	0	25	5	1932.5	8065	22.77	22.93
		CA_41A-41A	41	20	2680	39750	QPSK	1	49	41	5	2498.5	41565	23.91	24.02
	CA_66A-66A	66	20	1770	132572	QPSK	1	99	66	5	2112.5	66461	23.19	23.36	
	Contiguous	CA_2C	2	20	1860	18700	QPSK	1	0	2	20	1959.80	898	22.82	22.94
		CA_5B	5	10	836.5	20501	QPSK	1	49	5	10	891.40	20600	22.75	23.01
		CA_7C	7	20	2560	21350	QPSK	1	99	7	20	2660.20	3152	22.97	23.46
		CA_12B	12	5	707.5	23058	QPSK	1	0	12	10	744.70	23130	22.78	22.90
		CA_38C	38	20	2580	37850	QPSK	1	99	38	20	2599.80	38048	23.17	23.29
		CA_41C	41	20	2680	39750	QPSK	1	49	41	20	2660.20	39948	23.78	24.02
CA_66B		66	15	1772.5	132597	QPSK	1	74	66	5	2188.20	67218	23.08	23.14	
CA_66C	66	20	1770	132072	QPSK	1	99	66	20	2170.20	132270	23.25	23.36		



Bluetooth BR/EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)									Tune-up Limit
			Packet Type									
			DH1	DH3	DH5	2DH1	2DH3	2DH5	3DH1	3DH3	3DH5	
Bluetooth	CH 0	2402	8.20	8.24	8.32	6.27	5.69	5.22	6.25	5.51	5.34	10
	CH 39	2441	8.92	8.94	9.31	6.71	6.51	5.86	6.66	6.10	5.91	
	CH 78	2480	8.47	8.77	9.19	7.32	6.82	6.55	6.86	6.57	6.24	

Bluetooth LE

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			GFSK	
LE	CH 00	2402	2.45	
	CH 19	2440	3.49	
	CH 39	2480	4.56	
Tune-up Limit			5	

Bluetooth LE v5.0

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402		2.82
	CH 19	2440		3.57
	CH 39	2480		4.70
Tune-up Limit				5



Full Power

2.4GHz WLAN		Ant 1				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11b 1Mbps	1	2412	21.07	22.50	100.00	
	6	2437	20.94	22.50		
	11	2462	21.11	22.50		
802.11g 6Mbps	1	2412	19.03	20.50	98.28	
	6	2437	18.90	20.50		
	11	2462	19.19	20.50		
802.11n-HT20 MCS0	1	2412	18.87	20.50	98.15	
	6	2437	18.77	20.50		
	11	2462	19.10	20.50		

5GHz WLAN		Ant 1				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	36	5180	17.22	19.00	98.28	
	40	5200	17.97	19.50		
	44	5220	17.90	19.50		
	48	5240	17.87	19.50		
802.11n-HT20 MCS0	36	5180	16.30	18.00	98.16	
	40	5200	16.75	18.50		
	44	5220	16.67	18.50		
	48	5240	16.81	18.50		
802.11n-HT40 MCS0	38	5190	10.85	12.50	96.76	
	46	5230	16.23	18.00		
802.11ac-VHT20 MCS0	36	5180	16.34	18.00	98.01	
	40	5200	16.98	18.50		
	44	5220	16.88	18.50		
802.11ac-VHT40 MCS0	38	5190	10.80	12.50	96.47	
	46	5230	15.75	17.50		
802.11ac-VHT80 MCS0	42	5210	10.42	12.00	93.08	

5GHz WLAN		Ant 1				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	52	5260	17.80	19.50	98.28	
	56	5280	17.84	19.50		
	60	5300	17.91	19.50		
	64	5320	17.88	19.50		
802.11n-HT20 MCS0	52	5260	16.81	18.50	98.16	
	56	5280	16.92	18.50		
	60	5300	17.00	18.50		
	64	5320	16.95	18.50		
802.11n-HT40 MCS0	54	5270	16.43	18.00	96.76	
	62	5310	15.26	17.00		
802.11ac-VHT20 MCS0	52	5260	16.85	18.50	98.01	
	56	5280	16.95	18.50		
	60	5300	16.92	18.50		
	64	5320	16.98	18.50		
802.11ac-VHT40 MCS0	54	5270	15.72	17.50	96.47	
	62	5310	15.89	17.50		
802.11ac-VHT80 MCS0	58	5290	14.54	16.50	93.08	

5GHz WLAN		Ant 1				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	100	5500	17.91	19.50	98.28	
	116	5580	17.94	19.50		
	132	5660	18.17	19.50		
	140	5700	18.10	19.50		
802.11n-HT20 MCS0	100	5500	16.72	18.50	98.16	
	116	5580	16.96	18.50		
	132	5660	16.92	18.50		
	140	5700	16.86	18.50		
802.11n-HT40 MCS0	102	5510	16.37	18.00	96.76	
	110	5550	16.35	18.00		
	134	5670	15.75	17.50		
802.11ac-VHT20 MCS0	100	5500	16.90	18.50	98.01	
	116	5580	16.98	18.50		
	132	5660	17.04	18.50		
	140	5700	16.91	18.50		
802.11ac-VHT40 MCS0	102	5510	15.67	17.50	96.47	
	110	5550	15.62	17.50		
	134	5670	15.85	17.50		
802.11ac-VHT80 MCS0	106	5530	14.00	15.00	93.08	

5GHz WLAN		Ant 1				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	149	5745	15.87	17.50	98.28	
	157	5785	15.44	16.50		
	165	5825	15.24	16.50		
802.11n-HT20 MCS0	149	5745	15.70	17.50	98.16	
	157	5785	15.29	16.50		
	165	5825	15.07	16.50		
802.11n-HT40 MCS0	151	5755	14.57	16.50	96.76	
	159	5795	14.13	15.50		
802.11ac-VHT20 MCS0	149	5745	15.70	17.50	98.01	
	157	5785	15.30	16.50		
	165	5825	15.11	16.50		
802.11ac-VHT40 MCS0	151	5755	14.64	16.50	96.47	
	159	5795	14.18	15.50		
802.11ac-VHT80 MCS0	155	5775	14.79	16.50	93.08	



Reduced Power Mode for Head

2.4GHz WLAN		Ant 1				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN	802.11b 1Mbps	1	2412	18.26	20.00	100.00
		6	2437	18.21	20.00	
		11	2462	18.31	20.00	
	802.11g 6Mbps	1	2412	18.60	20.00	98.28
		6	2437	18.70	20.00	
		11	2462	18.91	20.00	
	802.11n-HT20 MCS0	1	2412	18.46	20.00	98.15
		6	2437	18.48	20.00	
		11	2462	18.70	20.00	



Reduced Power Mode for Hotspot On

2.4GHz WLAN		Ant 1				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11b 1Mbps	1	2412	19.49	21.00	100.00	
	6	2437	19.28	21.00		
	11	2462	19.64	21.00		
802.11g 6Mbps	1	2412	19.03	20.50	98.28	
	6	2437	18.90	20.50		
	11	2462	19.19	20.50		
802.11n-HT20 MCS0	1	2412	18.87	20.50	98.15	
	6	2437	18.77	20.50		
	11	2462	19.10	20.50		

5GHz WLAN		Ant 1				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	36	5180	9.69	11.00	98.28	
	40	5200	9.56	11.00		
	44	5220	9.66	11.00		
	48	5240	9.53	11.00		
802.11n-HT20 MCS0	36	5180	8.44	10.00	98.16	
	40	5200	8.40	10.00		
	44	5220	8.37	10.00		
802.11n-HT40 MCS0	38	5190	7.88	9.50	96.76	
	46	5230	8.06	9.50		
802.11ac-VHT20 MCS0	36	5180	8.54	10.00	98.01	
	40	5200	8.40	10.00		
	44	5220	8.33	10.00		
802.11ac-VHT40 MCS0	38	5190	7.44	9.00	96.47	
	46	5230	7.70	9.00		
802.11ac-VHT80 MCS0	42	5210	7.80	9.50	93.08	

5GHz WLAN		Ant 1				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	149	5745	9.69	11.00	98.28	
	157	5785	8.73	10.00		
	165	5825	8.89	10.00		
802.11n-HT20 MCS0	149	5745	9.27	11.00	98.16	
	157	5785	8.91	10.00		
	165	5825	8.72	10.00		
802.11n-HT40 MCS0	151	5755	8.19	9.50	96.76	
	159	5795	7.56	8.50		
802.11ac-VHT20 MCS0	149	5745	9.37	11.00	98.01	
	157	5785	8.75	10.00		
	165	5825	8.61	10.00		
802.11ac-VHT40 MCS0	151	5755	8.31	9.50	96.47	
	159	5795	7.57	8.50		
802.11ac-VHT80 MCS0	155	5775	8.23	9.50	93.08	



Reduced Power Mode for P-Sensor On

2.4GHz WLAN		Ant 1				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11b 1Mbps	1	2412	20.09	21.50	100.00	
	6	2437	20.05	21.50		
	11	2462	20.12	21.50		
802.11g 6Mbps	1	2412	19.03	20.50	98.28	
	6	2437	18.90	20.50		
	11	2462	19.19	20.50		
802.11n-HT20 MCS0	1	2412	18.87	20.50	98.15	
	6	2437	18.77	20.50		
	11	2462	19.10	20.50		

5GHz WLAN		Ant 1				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	36	5180	9.69	11.00	98.28	
	40	5200	9.56	11.00		
	44	5220	9.66	11.00		
	48	5240	9.53	11.00		
802.11n-HT20 MCS0	36	5180	8.44	10.00	98.16	
	40	5200	8.40	10.00		
	44	5220	8.37	10.00		
	48	5240	8.56	10.00		
802.11n-HT40 MCS0	38	5190	7.88	9.50	96.76	
	46	5230	8.06	9.50		
802.11ac-VHT20 MCS0	36	5180	8.54	10.00	98.01	
	40	5200	8.40	10.00		
	44	5220	8.33	10.00		
802.11ac-VHT40 MCS0	48	5240	8.38	10.00	96.47	
	38	5190	7.44	9.00		
802.11ac-VHT80 MCS0	46	5230	7.57	9.00	93.08	
	42	5210	7.80	9.50		

5GHz WLAN		Ant 1				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	52	5260	9.17	11.00	98.28	
	56	5280	9.22	11.00		
	60	5300	9.55	11.00		
	64	5320	9.41	11.00		
802.11n-HT20 MCS0	52	5260	8.11	10.00	98.16	
	56	5280	8.37	10.00		
	60	5300	8.40	10.00		
	64	5320	8.62	10.00		
802.11n-HT40 MCS0	54	5270	8.10	9.50	96.76	
	62	5310	8.38	9.50		
802.11ac-VHT20 MCS0	52	5260	8.44	10.00	98.01	
	56	5280	8.45	10.00		
	60	5300	8.56	10.00		
	64	5320	8.67	10.00		
802.11ac-VHT40 MCS0	54	5270	7.33	9.00	96.47	
	62	5310	7.59	9.00		
802.11ac-VHT80 MCS0	58	5290	8.65	9.50	93.08	

5GHz WLAN		Ant 1				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	100	5500	9.99	11.50	98.28	
	116	5580	10.06	11.50		
	132	5660	10.09	11.50		
	140	5700	10.11	11.50		
802.11n-HT20 MCS0	100	5500	9.24	10.50	98.16	
	116	5580	9.55	10.50		
	132	5660	9.36	10.50		
	140	5700	9.30	10.50		
802.11n-HT40 MCS0	102	5510	8.89	10.00	96.76	
	110	5550	8.83	10.00		
	134	5670	8.55	9.50		
802.11ac-VHT20 MCS0	100	5500	9.50	10.50	98.01	
	116	5580	9.60	10.50		
	132	5660	9.60	10.50		
	140	5700	9.58	10.50		
802.11ac-VHT40 MCS0	102	5510	8.22	9.50	96.47	
	110	5550	8.20	9.50		
	134	5670	8.30	9.50		
802.11ac-VHT80 MCS0	106	5530	6.70	7.00	93.08	

5GHz WLAN		Ant 1				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	149	5745	9.69	11.00	98.28	
	157	5785	8.73	10.00		
	165	5825	8.89	10.00		
802.11n-HT20 MCS0	149	5745	9.27	11.00	98.16	
	157	5785	8.91	10.00		
	165	5825	8.72	10.00		
802.11n-HT40 MCS0	151	5755	8.19	9.50	96.76	
	159	5795	7.56	8.50		
802.11ac-VHT20 MCS0	149	5745	9.37	11.00	98.01	
	157	5785	8.75	10.00		
	165	5825	8.61	10.00		
802.11ac-VHT40 MCS0	151	5755	8.31	9.50	96.47	
	159	5795	7.57	8.50		
802.11ac-VHT80 MCS0	155	5775	8.23	9.50	93.08	



Appendix F. Supplemental Tuner Head & Body SAR Results

The results are shown as follows.



RF exposure position											Aperture 00											
											Average Value of Time Sweep (W/kg)											
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	0	14	28	42	56	70	84	98	112	126	140	
WCDMA V	RMC 12.2Hpa	Full Power	4233	841.6	NA	NA	Right Cheek	0mm	0.323	Auto-Tune	0.465	0	0.217	0.126	0.185	0.061	0.171	0.07	0.204	0.048	0	0.084
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	1	15	29	43	57	71	85	99	113	127	141	
WCDMA IV	RMC 12.2Hpa	Full Power	1412	1732.6	NA	NA	Left Cheek	0mm	0.113	Auto-Tune	0.165	0.046	0.052	0	0	0	0	0	0	0	0	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	2	16	30	44	58	72	86	100	114	128	142	
WCDMA II	RMC 12.2Hpa	Full Power	9538	1907.6	NA	NA	Left Cheek	0mm	0.136	Auto-Tune	0.211	0	0	0.059	0	0.055	0	0.069	0	0.056	0	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	3	17	31	45	59	73	87	101	115	129	143	
CDMA2000 BC0	RC3 S055	Full Power	1013	824.7	NA	NA	Right Cheek	0mm	0.297	Auto-Tune	0.381	0.088	0.233	0.228	0	0.134	0	0.107	0.134	0.083	0	0.042
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	4	18	32	46	60	74	88	102	116	130		
CDMA2000 BC10	RC3 S055	Full Power	580	820.5	NA	NA	Right Cheek	0mm	0.377	Auto-Tune	0.478	0.134	0.077	0.227	0.047	0.139	0	0.116	0.159	0.12	0.063	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	5	19	33	47	61	75	89	103	117	131		
CDMA2000 BC1	RC3 S055	Full Power	1175	1058.75	NA	NA	Left Cheek	0mm	0.093	Auto-Tune	0.143	0	0	0.048	0.052	0.042	0.051	0.063	0.046	0	0	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	6	20	34	48	62	76	90	104	118	132		
LTE Band 71	20M-QPSK	Full Power	19332	853	1	99	Right Cheek	0mm	0.297	Auto-Tune	0.375	0.088	0	0	0.097	0	0.013	0	0.041	0	0	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	7	21	35	49	63	77	91	105	119	133		
LTE Band 12	10M-QPSK	Full Power	23005	707.5	1	0	Right Cheek	0mm	0.292	Auto-Tune	0.354	0.083	0.07	0	0.058	0	0	0	0	0	0	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	8	22	36	50	64	78	92	106	120	134		
LTE Band 13	10M-QPSK	Full Power	23230	782	1	0	Right Cheek	0mm	0.325	Auto-Tune	0.406	0.122	0.169	0	0.088	0	0.062	0.107	0.059	0.049	0	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	9	23	37	51	65	79	93	107	121	135		
LTE Band 14	10M-QPSK	Full Power	23330	790	1	49	Right Cheek	0mm	0.202	Auto-Tune	0.252	0.088	0.155	0	0.07	0.109	0.066	0.059	0	0	0	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	10	24	38	52	66	80	94	108	122	136		
LTE Band 5	10M-QPSK	Full Power	20525	836.5	1	49	Right Cheek	0mm	0.315	Auto-Tune	0.402	0	0.183	0	0.107	0.093	0.168	0.081	0	0	0	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	11	25	39	53	67	81	95	109	123	137		
LTE Band 26	15M-QPSK	Full Power	20715	838.5	1	74	Right Cheek	0mm	0.408	Auto-Tune	0.526	0.08	0.273	0.076	0.235	0.161	0	0.115	0	0.071	0	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	12	26	40	54	68	82	96	110	124	138		
LTE Band 25	20M-QPSK	Full Power	26590	1905	1	0	Left Cheek	0mm	0.0982	Auto-Tune	0.149	0	0	0	0	0.051	0	0.06	0	0	0	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	13	27	41	55	69	83	97	111	125	139		
LTE Band 86	20M-QPSK	Full Power	13232	1746	1	99	Left Cheek	0mm	0.105	Auto-Tune	0.154	0.052	0.047	0	0	0	0	0	0	0	0	

Head



RF exposure position											Aperture 00											
											Average Value of Time Sweep (W/kg)											
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	0	14	28	42	56	70	84	98	112	126	140	
WCDMA V	RMC 12.2Kbps	sensor	4233	182.5	NA	NA	Back	5mm	1.11	Auto-Tune	2.31	0.163	0.573	0	0.509	0.55	0.538	0.165	0.61	0.13	0	0.243
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	1	15	29	43	57	71	85	99	113	127	141	
WCDMA IV	RMC 12.2Kbps	sensor	1519	1752.6	NA	NA	Front	5mm	1.10	Auto-Tune	2.07	0.746	0.694	0.404	0.539	0.527	0.13	0.185	0.255	0.131	0.097	0.067
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	2	16	30	44	58	72	86	100	114	128	142	
WCDMA II	RMC 12.2Kbps	sensor	9538	1907.6	NA	NA	Front	5mm	1.11	Auto-Tune	2.44	0.34	0.593	1.01	0.938	0.556	0.35	1.01	0.458	0.804	0.271	0.273
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	3	17	31	45	59	73	87	101	115	129	143	
CDMA2000 8Q	RC3 SOSI(F+RCH)	Full power	1013	824.7	NA	NA	Back	5mm	1.13	Auto-Tune	2.21	0.331	0.668	0.853	0.674	0.672	0	0.451	0.331	0.3	0.187	0.249
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	4	18	32	46	60	74	88	102	116	130		
CDMA2000 8C10	RC3 SOSI(F+RCH)	Full power	580	820.5	NA	NA	Back	5mm	1.01	Auto-Tune	2.17	0.451	0.171	0.85	0.127	0.125	0.082	0.454	0.5	0.449	0.241	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	5	19	33	47	61	75	89	103	117	131		
CDMA2000 8C1	RC3 SOSI(F+RCH)	sensor	800	1185	NA	NA	Front	5mm	1.14	Auto-Tune	2.42	0.476	0.745	1.1	0.883	0.863	0.87	0.841	0.411	0.108	0.324	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	6	20	34	48	62	76	90	104	118	132		
LTE Band 71	20M-QPSK	Full power	13322	883	1	99	Back	5mm	0.741	Auto-Tune	1.63	0.521	0.599	0.139	0.385	0.267	0.886	0	0.183	0	0.042	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	7	21	35	49	63	77	91	105	119	133		
LTE Band 12	10M-QPSK	Full power	23955	707.5	1	0	Back	5mm	0.707	Auto-Tune	1.44	0.363	0.342	0.337	0.238	0.234	0.14	0	0.122	0.103	0.064	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	8	22	36	50	64	78	92	106	120	134		
LTE Band 13	10M-QPSK	Full power	23220	782	1	0	Back	5mm	0.904	Auto-Tune	1.94	0.57	0.569	0.061	0.327	0.331	0.242	0.388	0.244	0.166	0.134	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	9	23	37	51	65	79	93	107	121	135		
LTE Band 14	10M-QPSK	Full power	23330	793	1	49	Back	5mm	0.718	Auto-Tune	1.5	0.212	0.49	0.548	0.274	0.274	0.241	0.156	0.134	0.092	0	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	10	24	38	52	66	80	94	108	122	136		
LTE Band 5	10M-QPSK	Full power	25525	636.5	1	49	Back	5mm	1.17	Auto-Tune	2.29	0.165	0.734	0.658	0.498	0.565	0.758	0.229	0	0.153	0.041	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	11	25	39	53	67	81	95	109	123	137		
LTE Band 26	15M-QPSK	sensor	26915	826.5	1	74	Front	5mm	1.55	Auto-Tune	2.23	0.193	0.751	0.2	0.761	0.788	0	0.536	0	0.268	0.079	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	12	26	40	54	68	82	96	110	124	138		
LTE Band 25	20M-QPSK	sensor	26340	1890	50	0	Front	5mm	0.914	Auto-Tune	1.95	0.836	0.757	0.869	0.945	0.55	0.966	0.752	0.202	0.301	0.16	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	13	27	41	55	69	83	97	111	125	139		
LTE Band 66	20M-QPSK	hotspot	13232	1745	1	99	bottom side	5mm	1.3	Auto-Tune	2.55	0.964	0.758	0.734	0.405	0.415	0.118	0.291	0.177	0.148	0.107	

Body

