

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

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 tables are shown as follows.



Full Power Mode for UAT

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	TX Channel	128	189		251	128	189		251
	Frequency (MHz)	824.2	836.4		848.8	824.2	836.4		848.8
GSM 1 Tx slot	30.30	30.15	30.20	32.00	21.30	21.15	21.20	23.00	
GPRS 1 Tx slot	30.31	30.17	30.26	32.00	21.31	21.17	21.26	23.00	
GPRS 2 Tx slots	29.46	29.51	29.42	30.50	23.46	23.51	23.42	24.50	
GPRS 3 Tx slots	27.34	27.37	27.36	28.50	23.08	23.11	23.10	24.24	
GPRS 4 Tx slots	26.27	26.36	26.11	28.00	23.27	23.36	23.11	25.00	
EDGE 1 Tx slot	24.97	24.35	24.62	26.00	15.97	15.35	15.62	17.00	
EDGE 2 Tx slots	23.08	23.13	22.91	24.00	17.08	17.13	16.91	18.00	
EDGE 3 Tx slots	22.26	21.92	22.34	23.00	18.00	17.66	18.08	18.74	
EDGE 4 Tx slots	21.55	21.23	21.59	22.50	18.55	18.23	18.59	19.50	

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	TX Channel	512	661		810	512	661		810
	Frequency (MHz)	1850.2	1860		1909.8	1850.2	1860		1909.8
GSM 1 Tx slot	26.56	26.58	26.72	28.30	17.56	17.58	17.72	19.30	
GPRS 1 Tx slot	26.60	26.62	26.73	28.30	17.60	17.62	17.73	19.30	
GPRS 2 Tx slots	24.83	25.24	24.85	26.80	18.83	19.24	18.85	20.80	
GPRS 3 Tx slots	22.85	23.16	22.81	24.80	18.50	18.90	18.55	20.54	
GPRS 4 Tx slots	21.46	21.52	21.37	23.30	18.46	18.52	18.37	20.30	
EDGE 1 Tx slot	22.83	22.69	22.47	24.40	13.83	13.69	13.47	15.40	
EDGE 2 Tx slots	21.25	20.91	20.86	22.80	15.25	14.91	14.86	16.80	
EDGE 3 Tx slots	20.30	20.23	20.15	21.80	16.04	15.97	15.89	17.54	
EDGE 4 Tx slots	19.06	18.98	18.88	20.80	16.06	15.98	15.88	17.80	

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	TX Channel	9262	9460		9538	1312	1413		1513	4132	4182		4233
	Frequency (MHz)	1932.4	1930		1937.6	1712.4	1732.3		1752.3	3232.4	3334		3418
3GPP Rel 99	AMR 12.2Kbps	21.73	21.86	21.68	23.30	21.81	21.95	21.86	23.30	22.78	22.78	22.78	24.30
3GPP Rel 99	RMC 12.2Kbps	22.08	22.12	21.92	23.30	22.04	22.23	22.09	23.30	22.81	22.78	22.83	24.30
3GPP Rel 6	HSDPA Subtest-1	20.71	20.92	20.72	22.30	20.73	20.94	20.81	22.30	21.85	21.76	21.80	23.30
3GPP Rel 6	HSDPA Subtest-2	20.78	20.94	20.73	22.30	20.75	20.89	20.80	22.30	21.86	21.80	21.86	23.30
3GPP Rel 6	HSDPA Subtest-3	20.27	20.43	20.26	21.80	20.19	20.46	20.29	21.80	21.35	21.28	21.31	22.80
3GPP Rel 6	HSDPA Subtest-4	20.27	20.38	20.22	21.80	20.22	20.42	20.31	21.80	21.38	21.28	21.30	22.80
3GPP Rel 8	DC-HSDPA Subtest-1	20.83	21.04	20.84	22.30	20.85	21.06	20.93	22.30	21.97	21.88	21.92	23.30
3GPP Rel 8	DC-HSDPA Subtest-2	20.90	21.06	20.85	22.30	20.87	21.01	20.92	22.30	21.98	21.92	21.98	23.30
3GPP Rel 8	DC-HSDPA Subtest-3	20.39	20.55	20.38	21.80	20.31	20.58	20.41	21.80	21.47	21.40	21.43	22.80
3GPP Rel 8	DC-HSDPA Subtest-4	20.39	20.50	20.34	21.80	20.34	20.54	20.43	21.80	21.50	21.40	21.42	22.80
3GPP Rel 6	HSUPA Subtest-1	20.83	20.96	20.81	22.30	20.87	21.06	20.91	22.30	21.84	21.86	21.82	23.30
3GPP Rel 6	HSUPA Subtest-2	18.78	18.98	18.77	20.30	18.84	19.04	18.87	20.30	19.84	19.82	19.85	21.30
3GPP Rel 6	HSUPA Subtest-3	19.77	19.92	19.68	21.30	19.78	20.05	19.89	21.30	20.83	20.80	20.84	22.30
3GPP Rel 6	HSUPA Subtest-4	18.78	18.98	18.73	20.30	19.01	19.04	18.90	20.30	19.83	19.80	19.82	21.30
3GPP Rel 6	HSUPA Subtest-5	20.80	20.90	20.80	22.30	20.90	21.10	20.90	22.30	21.90	21.80	21.90	23.30
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.94	19.00	18.86	19.80	18.89	19.04	19.00	19.80	19.97	19.81	19.99	20.80

Band	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)	
	TX Channel	1013	384		777	25	600		1175	476	580		684
	Frequency (MHz)	824.7	836.52		848.31	1851.25	1880		1908.75	817.9	820.5		823.1
RC1 SO65	22.81	22.88	22.79	23.80	21.19	21.35	21.18	22.80	22.77	22.79	22.78	23.80	
RC3 SO65	22.78	22.82	22.81	23.80	21.18	21.22	21.16	22.80	22.73	22.74	22.73	23.80	
RC3 SO32 (F+SCH)	22.71	22.78	22.72	23.80	21.22	21.23	21.17	22.80	22.70	22.71	22.74	23.80	
RC3 SO32 (R+SCH)	22.79	22.82	22.71	23.80	21.08	21.15	21.05	22.80	22.67	22.69	22.68	23.80	
RTAP: 153.6Kbps	22.51	22.57	22.55	23.80	21.22	21.24	21.17	22.80	22.48	22.55	22.52	23.80	
RETAP: 409.6Kbps	22.50	22.52	22.50	23.80	21.18	21.30	21.17	22.80	22.47	22.53	22.52	23.80	



Band 2 (1900MHz Band)												
Part 24E												
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq. Ch./Freq.	Power Mode Ch./Freq. Ch./Freq.	Power Hyb. Ch./Freq. Ch./Freq.	Tune-up limit (dB)	MFR (dB)				
Channel												
Frequency (MHz)	0	1690	1890	1990							Tune-up limit (dB)	MFR (dB)
20	QPSK	1	0	21.75	21.80	21.77	23.3	0				
20	QPSK	1	49	21.82	21.80	21.77						
20	QPSK	1	99	21.88	21.75	21.65						
20	QPSK	50	0	20.21	20.20	20.19	22.3	1				
20	QPSK	50	24	20.84	20.80	20.84						
20	QPSK	50	49	20.87	20.95	20.89						
20	QPSK	100	0	20.21	20.16	20.17						
20	QPSK	100	1	21.04	21.13	21.11	22.3	1				
20	HQAM	1	49	21.00	21.21	21.11						
20	HQAM	50	0	19.80	19.85	19.89						
20	HQAM	50	24	19.83	19.92	19.85	21.3	2				
20	HQAM	50	49	19.87	19.91	19.85						
20	HQAM	100	0	19.83	19.80	19.81						
20	HQAM	100	1	20.04	20.16	20.11	21.3	2				
20	HQAM	1	49	20.01	20.14	20.07						
20	HQAM	1	99	20.04	20.09	19.98						
20	HQAM	50	0	18.83	18.98	18.92						
20	HQAM	50	24	18.84	19.00	18.85	20.3	3				
20	HQAM	50	49	18.83	18.98	18.85						
20	HQAM	100	0	18.83	18.98	18.85						
20	HQAM	100	1	19.23	19.29	19.11	21.3	2				
20	HQAM	1	49	19.20	19.34	19.27						
20	HQAM	1	99	19.24	19.29	19.18						
20	HQAM	50	0	17.07	17.15	17.15						
20	HQAM	50	24	17.04	17.17	17.12	18.3	5				
20	HQAM	50	49	17.04	17.17	17.12						
20	HQAM	100	0	16.93	17.10	16.95						
20	HQAM	100	1	17.11	17.17	17.08	18.3	5				
20	HQAM	50	0	17.03	17.08	17.11						
20	HQAM	50	24	17.12	17.08	17.05						
20	HQAM	50	49	17.12	17.08	17.05						
15	QPSK	1	0	21.67	21.78	21.69	23.3	0				
15	QPSK	1	24	21.67	21.78	21.69						
15	QPSK	1	74	21.64	21.67	21.60						
15	QPSK	36	0	20.64	20.77	20.70	22.3	1				
15	QPSK	36	36	20.78	20.87	20.78						
15	QPSK	36	72	20.75	20.79	20.69						
15	QPSK	72	0	20.64	20.77	20.70	22.3	1				
15	HQAM	1	97	20.53	21.04	20.92	21.3	1				
15	HQAM	1	74	20.97	21.03	20.92						
15	HQAM	36	0	19.62	19.77	19.67	21.3	2				
15	HQAM	36	20	19.78	19.80	19.71						
15	HQAM	36	39	19.77	19.86	19.78						
15	HQAM	36	58	19.75	19.86	19.85						
15	HQAM	1	0	18.68	18.94	18.87	21.3	2				
15	HQAM	1	37	19.27	20.11	19.88						
15	HQAM	74	0	18.62	18.88	18.85	20.3	3				
15	HQAM	36	0	18.69	18.82	18.75						
15	HQAM	36	20	18.83	18.94	18.77	20.3	3				
15	HQAM	36	39	18.80	18.98	18.85						
15	HQAM	75	0	18.78	18.78	18.73						
15	HQAM	1	0	16.90	17.07	17.07	18.3	5				
15	HQAM	1	37	17.04	17.13	17.04						
15	HQAM	1	74	16.98	17.09	17.04						
15	HQAM	36	0	16.85	17.02	16.87	18.3	5				
15	HQAM	36	20	17.02	16.94	16.92						
15	HQAM	36	39	16.95	17.00	17.03						
15	HQAM	75	0	17.04	16.90	16.87						
15	HQAM	75	0	17.04	16.90	16.87						
10	QPSK	1	0	21.63	21.63	21.53	23.3	0				
10	QPSK	1	24	21.63	21.63	21.53						
10	QPSK	1	49	21.55	21.72	21.54						
10	QPSK	25	0	20.78	20.75	20.82	22.3	1				
10	QPSK	25	25	20.78	20.78	20.78						
10	QPSK	25	50	20.77	20.77	20.84						
10	HQAM	1	0	21.07	21.12	21.07	22.3	1				
10	HQAM	1	25	20.97	21.08	20.91						
10	HQAM	1	49	20.94	21.08	20.91						
10	HQAM	25	0	19.75	19.74	19.81	21.3	2				
10	HQAM	25	12	19.77	19.79	19.87						
10	HQAM	25	25	19.76	19.84	19.74						
10	HQAM	25	37	19.74	19.79	19.89						
10	HQAM	1	0	18.82	18.86	18.80	21.3	2				
10	HQAM	1	25	19.80	20.02	19.93						
10	HQAM	1	49	19.87	19.92	19.87						
10	HQAM	25	0	18.77	18.80	18.87	20.3	3				
10	HQAM	25	12	18.78	18.81	18.89						
10	HQAM	25	25	18.78	18.88	18.78						
10	HQAM	25	37	18.80	18.82	18.86						
10	HQAM	1	0	16.85	17.03	17.03	18.3	5				
10	HQAM	1	25	17.00	17.09	16.93						
10	HQAM	1	49	16.92	17.05	17.05						
10	HQAM	25	0	16.81	16.96	16.83	18.3	5				
10	HQAM	25	12	16.80	16.90	16.88						
10	HQAM	25	25	16.81	16.96	16.89						
10	HQAM	25	37	16.82	16.90	16.85						
10	HQAM	50	0	17.00	16.85	16.88						
10	HQAM	50	0	17.00	16.85	16.88						
5	QPSK	1	0	21.66	21.63	21.54	23.3	0				
5	QPSK	1	12	21.67	21.73	21.63						
5	QPSK	1	24	21.68	21.74	21.58						
5	QPSK	12	0	20.75	20.76	20.86	22.3	1				
5	QPSK	12	7	20.76	20.78	20.73						
5	QPSK	12	13	20.75	20.88	20.68						
5	QPSK	25	0	20.72	20.76	20.88	22.3	1				
5	HQAM	1	0	20.93	20.97	20.87	21.3	1				
5	HQAM	1	12	20.99	21.05	20.85						
5	HQAM	1	24	20.90	21.12	20.90						
5	HQAM	12	0	19.73	19.78	19.87	21.3	2				
5	HQAM	12	7	19.70	19.83	19.73						
5	HQAM	12	13	19.73	19.84	19.87						
5	HQAM	25	0	18.74	18.81	18.91	21.3	2				
5	HQAM	25	1	18.80	20.00	19.80						
5	HQAM	12	0	18.82	18.85	18.73	20.3	3				
5	HQAM	12	7	18.84	18.94	18.77						
5	HQAM	12	13	18.80	18.88	18.74						
5	HQAM	25	0	18.80	18.82	18.73						
5	HQAM	25	1	18.82	18.98	18.68						
5	HQAM	1	0	16.85	17.04	16.85	18.3	5				
5	HQAM	1	24	16.87	17.00	16.95						
5	HQAM	1	37	16.75	16.86	16.78						
5	HQAM	12	7	16.84	16.85	16.93	18.3	5				
5	HQAM	12	13	16.86	16.91	16.84						
5	HQAM	25	0	16.85	16.91	16.88						
5	HQAM	25	0	16.85	16.91	16.88						
1.4	QPSK	1	0	21.68	21.66	21.56	23.3	0				
1.4	QPSK	1	3	21.71	21.74	21.54						
1.4	QPSK	1	5	21.60	21.65	21.48						
1.4	QPSK	3	0	20.74	20.75	20.86	22.3	1				
1.4	QPSK	3	4	20.78	20.77	20.72						
1.4	QPSK	3	3	20.73	20.82	20.68						
1.4	HQAM	1	0	20.99	20.95	20.87	22.3	1				
1.4	HQAM	1	8	21.03	21.06	20.98						
1.4	HQAM	1	14	20.97	21.05	20.89						
1.4	HQAM	3	0	19.82	19.78	19.73	21.3	2				
1.4	HQAM	3	4	19.84	19.81	19.74						
1.4	HQAM	3	7	19.78	19.86	19.76						
1.4	HQAM	15	0	19.74	19.76	19.70						
1.4	HQAM	1	0	18.83	18.90	18.77	21.3	2				
1.4	HQAM	1	3	19.82	20.06	19.88						
1.4	HQAM	1	14	19.85	19.97	19.88						
1.4	HQAM	3	0	18.81	18.83	18.70	20.3	3				
1.4	HQAM	3	4	18.82	18.86	18.77						
1.4	HQAM	3	7	18.77	18.80	18.72						
1.4	HQAM	15	0	18.81	18.80	18.70						
1.4	HQAM	1	0	17.04	17.12	17.02	18.3	5				
1.4	HQAM	1	14	17.09	17.18	17.02						
1.4												



Band 7 (2600MHz Band)									
Part 27									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dB)	MRR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	2114	2140	2152			
20	QPSK	1	6	2115	2141	2153	23.1	0	
20	QPSK	1	12	2113	2143	2150			
20	QPSK	5	0	2027	2058	2058	22.1	1	
20	QPSK	5	24	2022	2059	2055			
20	QPSK	5	48	2027	2058	2058			
20	16QAM	1	0	2028	2058	2071			
20	16QAM	1	6	2030	2059	2057	22.1	1	
20	16QAM	5	0	1936	1936	1937			
20	16QAM	5	6	1936	1936	1938			
20	16QAM	5	12	1936	1936	1942	21.1	2	
20	16QAM	5	18	1936	1936	1948			
20	16QAM	5	24	1936	1936	1954			
20	16QAM	5	30	1936	1936	1960			
20	16QAM	5	36	1936	1936	1966			
20	16QAM	5	42	1936	1936	1972			
20	16QAM	5	48	1936	1936	1978			
20	16QAM	5	54	1936	1936	1984			
20	16QAM	5	60	1936	1936	1990			
20	16QAM	5	66	1936	1936	1996			
20	16QAM	5	72	1936	1936	2002			
20	16QAM	5	78	1936	1936	2008			
20	16QAM	5	84	1936	1936	2014			
20	16QAM	5	90	1936	1936	2020			
20	16QAM	5	96	1936	1936	2026			
20	16QAM	5	102	1936	1936	2032			
20	16QAM	5	108	1936	1936	2038			
20	16QAM	5	114	1936	1936	2044			
20	16QAM	5	120	1936	1936	2050			
20	16QAM	5	126	1936	1936	2056			
20	16QAM	5	132	1936	1936	2062			
20	16QAM	5	138	1936	1936	2068			
20	16QAM	5	144	1936	1936	2074			
20	16QAM	5	150	1936	1936	2080			
20	16QAM	5	156	1936	1936	2086			
20	16QAM	5	162	1936	1936	2092			
20	16QAM	5	168	1936	1936	2098			
20	16QAM	5	174	1936	1936	2104			
20	16QAM	5	180	1936	1936	2110			
20	16QAM	5	186	1936	1936	2116			
20	16QAM	5	192	1936	1936	2122			
20	16QAM	5	198	1936	1936	2128			
20	16QAM	5	204	1936	1936	2134			
20	16QAM	5	210	1936	1936	2140			
20	16QAM	5	216	1936	1936	2146			
20	16QAM	5	222	1936	1936	2152			
20	16QAM	5	228	1936	1936	2158			
20	16QAM	5	234	1936	1936	2164			
20	16QAM	5	240	1936	1936	2170			
20	16QAM	5	246	1936	1936	2176			
20	16QAM	5	252	1936	1936	2182			
20	16QAM	5	258	1936	1936	2188			
20	16QAM	5	264	1936	1936	2194			
20	16QAM	5	270	1936	1936	2200			
20	16QAM	5	276	1936	1936	2206			
20	16QAM	5	282	1936	1936	2212			
20	16QAM	5	288	1936	1936	2218			
20	16QAM	5	294	1936	1936	2224			
20	16QAM	5	300	1936	1936	2230			
20	16QAM	5	306	1936	1936	2236			
20	16QAM	5	312	1936	1936	2242			
20	16QAM	5	318	1936	1936	2248			
20	16QAM	5	324	1936	1936	2254			
20	16QAM	5	330	1936	1936	2260			
20	16QAM	5	336	1936	1936	2266			
20	16QAM	5	342	1936	1936	2272			
20	16QAM	5	348	1936	1936	2278			
20	16QAM	5	354	1936	1936	2284			
20	16QAM	5	360	1936	1936	2290			
20	16QAM	5	366	1936	1936	2296			
20	16QAM	5	372	1936	1936	2302			
20	16QAM	5	378	1936	1936	2308			
20	16QAM	5	384	1936	1936	2314			
20	16QAM	5	390	1936	1936	2320			
20	16QAM	5	396	1936	1936	2326			
20	16QAM	5	402	1936	1936	2332			
20	16QAM	5	408	1936	1936	2338			
20	16QAM	5	414	1936	1936	2344			
20	16QAM	5	420	1936	1936	2350			
20	16QAM	5	426	1936	1936	2356			
20	16QAM	5	432	1936	1936	2362			
20	16QAM	5	438	1936	1936	2368			
20	16QAM	5	444	1936	1936	2374			
20	16QAM	5	450	1936	1936	2380			
20	16QAM	5	456	1936	1936	2386			
20	16QAM	5	462	1936	1936	2392			
20	16QAM	5	468	1936	1936	2398			
20	16QAM	5	474	1936	1936	2404			
20	16QAM	5	480	1936	1936	2410			
20	16QAM	5	486	1936	1936	2416			
20	16QAM	5	492	1936	1936	2422			
20	16QAM	5	498	1936	1936	2428			
20	16QAM	5	504	1936	1936	2434			
20	16QAM	5	510	1936	1936	2440			
20	16QAM	5	516	1936	1936	2446			
20	16QAM	5	522	1936	1936	2452			
20	16QAM	5	528	1936	1936	2458			
20	16QAM	5	534	1936	1936	2464			
20	16QAM	5	540	1936	1936	2470			
20	16QAM	5	546	1936	1936	2476			
20	16QAM	5	552	1936	1936	2482			
20	16QAM	5	558	1936	1936	2488			
20	16QAM	5	564	1936	1936	2494			
20	16QAM	5	570	1936	1936	2500			
20	16QAM	5	576	1936	1936	2506			
20	16QAM	5	582	1936	1936	2512			
20	16QAM	5	588	1936	1936	2518			
20	16QAM	5	594	1936	1936	2524			
20	16QAM	5	600	1936	1936	2530			
20	16QAM	5	606	1936	1936	2536			
20	16QAM	5	612	1936	1936	2542			
20	16QAM	5	618	1936	1936	2548			
20	16QAM	5	624	1936	1936	2554			
20	16QAM	5	630	1936	1936	2560			
20	16QAM	5	636	1936	1936	2566			
20	16QAM	5	642	1936	1936	2572			
20	16QAM	5	648	1936	1936	2578			
20	16QAM	5	654	1936	1936	2584			
20	16QAM	5	660	1936	1936	2590			
20	16QAM	5	666	1936	1936	2596			
20	16QAM	5	672	1936	1936	2602			
20	16QAM	5	678	1936	1936	2608			
20	16QAM	5	684	1936	1936	2614			
20	16QAM	5	690	1936	1936	2620			
20	16QAM	5	696	1936	1936	2626			
20	16QAM	5	702	1936	1936	2632			
20	16QAM	5	708	1936	1936	2638			
20	16QAM	5	714	1936	1936	2644			
20	16QAM	5	720	1936	1936	2650			
20	16QAM	5	726	1936	1936	2656			
20	16QAM	5	732	1936	1936	2662			
20	16QAM	5	738	1936	1936	2668			
20	16QAM	5	744	1936	1936	2674			
20	16QAM	5	750	1936	1936	2680			
20	16QAM	5	756	1936	1936	2686			
20	16QAM	5	762	1936	1936	2692			
20	16QAM	5	768	1936	1936	2698			
20	16QAM	5	774	1936	1936	2704			
20	16QAM	5	780	1936	1936	2710			
20	16QAM	5	786	1936	1936	2716			
20	16QAM	5	792	1936	1936	2722			



Band 25 (1900MHz Band) Part 24 E									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power High Ch / Freq.	Turn-up (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.78	21.82	21.78	23.3	21.8	
20	QPSK	1	40	21.62	21.77	21.64			
20	QPSK	1	80	21.61	21.79	21.61			
20	QPSK	5	0	20.78	20.82	20.78	22.3	1	
20	QPSK	5	24	20.84	20.85	20.75			
20	QPSK	5	48	20.80	20.85	20.74			
20	QPSK	5	72	20.81	20.86	20.76			
20	16QAM	1	0	21.11	21.15	21.09	22.3	1	
20	16QAM	1	40	21.03	21.05	21.01			
20	16QAM	1	80	20.99	21.00	20.94			
20	16QAM	5	0	19.75	19.82	19.74	21.3	2	
20	16QAM	5	24	19.81	19.83	19.73			
20	16QAM	5	48	19.77	19.80	19.74			
20	16QAM	5	72	19.83	19.83	19.78			
20	16QAM	1	0	20.15	20.19	20.12	21.3	2	
20	16QAM	1	40	20.05	20.12	20.06			
20	16QAM	1	80	20.02	20.09	20.01			
20	16QAM	5	0	18.91	19.00	18.89	20.3	3	
20	16QAM	5	24	19.01	18.87	18.91			
20	16QAM	5	48	18.91	18.89	18.93			
20	16QAM	5	72	18.98	18.93	18.95			
20	25QAM	1	0	17.21	17.07	16.95	18.3	5	
20	25QAM	1	40	17.03	16.98	16.94			
20	25QAM	1	80	16.85	16.93	16.92			
20	25QAM	5	0	16.82	16.86	16.73	18.3	5	
20	25QAM	5	24	16.82	16.85	16.74			
20	25QAM	5	48	16.83	16.84	16.82			
20	25QAM	5	72	16.91	16.83	16.78			
20	25QAM	5	96	16.91	16.83	16.78			
20	25QAM	5	120	16.91	16.83	16.78			
20	25QAM	5	144	16.91	16.83	16.78			
20	25QAM	5	168	16.91	16.83	16.78			
20	25QAM	5	192	16.91	16.83	16.78			
20	25QAM	5	216	16.91	16.83	16.78			
20	25QAM	5	240	16.91	16.83	16.78			
20	25QAM	5	264	16.91	16.83	16.78			
20	25QAM	5	288	16.91	16.83	16.78			
20	25QAM	5	312	16.91	16.83	16.78			
20	25QAM	5	336	16.91	16.83	16.78			
20	25QAM	5	360	16.91	16.83	16.78			
20	25QAM	5	384	16.91	16.83	16.78			
20	25QAM	5	408	16.91	16.83	16.78			
20	25QAM	5	432	16.91	16.83	16.78			
20	25QAM	5	456	16.91	16.83	16.78			
20	25QAM	5	480	16.91	16.83	16.78			
20	25QAM	5	504	16.91	16.83	16.78			
20	25QAM	5	528	16.91	16.83	16.78			
20	25QAM	5	552	16.91	16.83	16.78			
20	25QAM	5	576	16.91	16.83	16.78			
20	25QAM	5	600	16.91	16.83	16.78			
20	25QAM	5	624	16.91	16.83	16.78			
20	25QAM	5	648	16.91	16.83	16.78			
20	25QAM	5	672	16.91	16.83	16.78			
20	25QAM	5	696	16.91	16.83	16.78			
20	25QAM	5	720	16.91	16.83	16.78			
20	25QAM	5	744	16.91	16.83	16.78			
20	25QAM	5	768	16.91	16.83	16.78			
20	25QAM	5	792	16.91	16.83	16.78			
20	25QAM	5	816	16.91	16.83	16.78			
20	25QAM	5	840	16.91	16.83	16.78			
20	25QAM	5	864	16.91	16.83	16.78			
20	25QAM	5	888	16.91	16.83	16.78			
20	25QAM	5	912	16.91	16.83	16.78			
20	25QAM	5	936	16.91	16.83	16.78			
20	25QAM	5	960	16.91	16.83	16.78			
20	25QAM	5	984	16.91	16.83	16.78			
20	25QAM	5	1008	16.91	16.83	16.78			
20	25QAM	5	1032	16.91	16.83	16.78			
20	25QAM	5	1056	16.91	16.83	16.78			
20	25QAM	5	1080	16.91	16.83	16.78			
20	25QAM	5	1104	16.91	16.83	16.78			
20	25QAM	5	1128	16.91	16.83	16.78			
20	25QAM	5	1152	16.91	16.83	16.78			
20	25QAM	5	1176	16.91	16.83	16.78			
20	25QAM	5	1200	16.91	16.83	16.78			
20	25QAM	5	1224	16.91	16.83	16.78			
20	25QAM	5	1248	16.91	16.83	16.78			
20	25QAM	5	1272	16.91	16.83	16.78			
20	25QAM	5	1296	16.91	16.83	16.78			
20	25QAM	5	1320	16.91	16.83	16.78			
20	25QAM	5	1344	16.91	16.83	16.78			
20	25QAM	5	1368	16.91	16.83	16.78			
20	25QAM	5	1392	16.91	16.83	16.78			
20	25QAM	5	1416	16.91	16.83	16.78			
20	25QAM	5	1440	16.91	16.83	16.78			
20	25QAM	5	1464	16.91	16.83	16.78			
20	25QAM	5	1488	16.91	16.83	16.78			
20	25QAM	5	1512	16.91	16.83	16.78			
20	25QAM	5	1536	16.91	16.83	16.78			
20	25QAM	5	1560	16.91	16.83	16.78			
20	25QAM	5	1584	16.91	16.83	16.78			
20	25QAM	5	1608	16.91	16.83	16.78			
20	25QAM	5	1632	16.91	16.83	16.78			
20	25QAM	5	1656	16.91	16.83	16.78			
20	25QAM	5	1680	16.91	16.83	16.78			
20	25QAM	5	1704	16.91	16.83	16.78			
20	25QAM	5	1728	16.91	16.83	16.78			
20	25QAM	5	1752	16.91	16.83	16.78			
20	25QAM	5	1776	16.91	16.83	16.78			
20	25QAM	5	1800	16.91	16.83	16.78			
20	25QAM	5	1824	16.91	16.83	16.78			
20	25QAM	5	1848	16.91	16.83	16.78			
20	25QAM	5	1872	16.91	16.83	16.78			
20	25QAM	5	1896	16.91	16.83	16.78			
20	25QAM	5	1920	16.91	16.83	16.78			
20	25QAM	5	1944	16.91	16.83	16.78			
20	25QAM	5	1968	16.91	16.83	16.78			
20	25QAM	5	1992	16.91	16.83	16.78			
20	25QAM	5	2016	16.91	16.83	16.78			
20	25QAM	5	2040	16.91	16.83	16.78			
20	25QAM	5	2064	16.91	16.83	16.78			
20	25QAM	5	2088	16.91	16.83	16.78			
20	25QAM	5	2112	16.91	16.83	16.78			
20	25QAM	5	2136	16.91	16.83	16.78			
20	25QAM	5	2160	16.91	16.83	16.78			
20	25QAM	5	2184	16.91	16.83	16.78			
20	25QAM	5	2208	16.91	16.83	16.78			
20	25QAM	5	2232	16.91	16.83	16.78			
20	25QAM	5	2256	16.91	16.83	16.78			
20	25QAM	5	2280	16.91	16.83	16.78			
20	25QAM	5	2304	16.91	16.83	16.78			
20	25QAM	5	2328	16.91	16.83	16.78			
20	25QAM	5	2352	16.91	16.83	16.78			
20	25QAM	5	2376	16.91	16.83	16.78			
20	25QAM	5	2400	16.91	16.83	16.78			
20	25QAM	5	2424	16.91	16.83	16.78			
20	25QAM	5	2448	16.91	16.83	16.78			
20	25QAM	5	2472	16.91	16.83	16.78			
20	25QAM	5	2496	16.91	16.83	16.78			
20	25QAM	5	2520	16.91	16.83	16.78			
20	25QAM	5	2544	16.91	16.83	16.78			
20	25QAM	5	2568	16.91	16.83	16.78			
20	25QAM	5	2592	16.91	16.83	16.78			
20	25QAM	5	2616	16.91	16.83	16.78			
20	25QAM	5	2640	16.91	16.83	16.78			
20	25QAM	5	2664	16.91	16.83	16.78			
20	25QAM	5	2688	16.91	16.83	16.78			
20	25QAM	5	2712	16.91	16.83	16.78			
20	25QAM	5	2736	16.91	16.83	16.78			
20	25QAM	5	2760	16.91	16.83	16.78			
20	25QAM	5	2784	16.91	16.83	16.78			
20	25QAM	5	2808	16.91	16.83	16.78			
20	25QAM	5	2832	16.91	16.83	16.78			
20	25QAM	5	2856	16.91	16.83	16.78			
20	25QAM	5	2880	16.91	16.83	16.78			
20	25QAM	5	2904	16.91	16.83	16.78			
20	25QAM	5	2928	16.91	16.83	16.78			
20	25QAM	5	2952	16.91	16.83	16.78			
20	25QAM	5	2976	16.91	16.83	16.78			
20	25QAM	5	3000	16.91	16.83	16.78			
20	25QAM	5	3024	16.91	16.83	16.78			
20	25QAM	5	3048	16.91	16.83	16.78			
20	25QAM	5	3072	16.91	16.83	16.78			
20	25QAM	5	3096	16.91	16.83	16.78			
20	25QAM	5	3120	16.91	16.83	16.78			
20	25QAM	5	3144	16.91	16.83	16.78			
20	25Q								



Band 30										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.58	21.58	21.58				
15	QPSK	1	25	21.57	21.57	21.57	22.8	0		
15	QPSK	1	49	21.58	21.58	21.58				
15	QPSK	5	0	20.75	20.75	20.75				
15	QPSK	5	12	20.69	20.69	20.69	21.8	1		
15	QPSK	25	25	20.85	20.85	20.85				
15	QPSK	50	0	20.69	20.69	20.69				
15	16QAM	1	0	20.91	20.91	20.91	21.8	1		
15	16QAM	1	25	20.77	20.77	20.77				
15	16QAM	1	49	20.91	20.91	20.91				
15	16QAM	5	0	19.93	19.93	19.93				
15	16QAM	5	12	19.87	19.87	19.87	20.8	2		
15	16QAM	25	25	19.75	19.75	19.75				
15	16QAM	50	0	19.72	19.72	19.72				
15	64QAM	1	0	19.97	19.97	19.97				
15	64QAM	1	25	19.93	19.93	19.93				
15	64QAM	1	49	19.97	19.97	19.97				
15	64QAM	5	0	18.99	18.99	18.99				
15	64QAM	5	12	18.73	18.73	18.73	19.8	3		
15	64QAM	25	25	18.81	18.81	18.81				
15	64QAM	50	0	18.78	18.78	18.78				
15	256QAM	1	0	18.48	18.48	18.48				
15	256QAM	1	25	18.32	18.32	18.32				
15	256QAM	1	49	18.37	18.37	18.37				
15	256QAM	5	0	18.35	18.35	18.35				
15	256QAM	5	12	18.23	18.23	18.23	17.8	5		
15	256QAM	25	25	18.47	18.47	18.47				
15	256QAM	50	0	18.39	18.39	18.39				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.47	21.50	21.48				
5	QPSK	1	12	21.32	21.53	21.57	22.8	0		
5	QPSK	1	24	21.81	21.51	21.62				
5	QPSK	12	0	20.53	20.58	20.57				
5	QPSK	12	13	20.80	20.94	20.92	21.8	1		
5	QPSK	25	0	20.61	20.80	20.83				
5	16QAM	1	0	20.83	20.81	20.88	21.8	1		
5	16QAM	1	12	20.79	20.71	20.72				
5	16QAM	1	24	20.80	20.79	20.71				
5	16QAM	12	0	19.83	19.82	19.81				
5	16QAM	12	13	19.61	19.62	19.62	20.8	2		
5	16QAM	25	0	19.74	19.72	19.78				
5	64QAM	1	0	19.78	19.73	19.89				
5	64QAM	1	12	19.87	19.85	19.87				
5	64QAM	12	0	18.83	18.87	18.83				
5	64QAM	12	7	18.64	18.61	18.65	19.8	3		
5	64QAM	25	0	18.84	18.82	18.82				
5	64QAM	25	0	18.88	18.84	18.89				
5	256QAM	1	0	18.37	18.45	18.36				
5	256QAM	1	12	18.09	18.07	18.44				
5	256QAM	1	24	18.49	18.80	18.54	17.8	5		
5	256QAM	12	0	18.31	18.34	18.29				
5	256QAM	12	7	18.09	18.02	18.07				
5	256QAM	12	13	18.27	18.39	18.30	17.8	5		
5	256QAM	25	0	18.32	18.38	18.31				

Band 66										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	17.20	17.45	17.70				
20	QPSK	1	0	22.73	21.89	21.70	23.3	0		
20	QPSK	1	59	21.78	21.78	21.62				
20	QPSK	5	0	20.88	21.06	20.80				
20	QPSK	50	50	20.92	20.96	20.81	22.3	1		
20	QPSK	50	0	20.91	21.18	21.03				
20	16QAM	1	0	21.27	21.25	21.22	22.3	1		
20	16QAM	1	49	21.07	21.22	21.08				
20	16QAM	1	99	20.92	21.18	20.93				
20	16QAM	50	0	19.89	19.95	19.95				
20	16QAM	50	24	19.98	20.05	19.80	21.3	2		
20	16QAM	50	25	19.94	19.98	19.87				
20	16QAM	100	0	19.91	19.95	19.73				
20	64QAM	1	0	20.07	20.24	20.15	21.3	2		
20	64QAM	1	49	20.10	20.18	20.07				
20	64QAM	1	99	20.01	20.14	19.86				
20	64QAM	50	0	18.96	19.05	18.95				
20	64QAM	50	24	19.06	19.15	18.84	20.3	3		
20	64QAM	50	25	19.04	19.05	18.91				
20	64QAM	100	0	19.02	19.05	18.93				
20	256QAM	1	0	17.25	17.17	17.26				
20	256QAM	1	49	17.28	17.18	17.21	18.3	5		
20	256QAM	1	99	17.28	17.15	17.21				
20	256QAM	50	0	17.23	16.98	17.03				
20	256QAM	50	24	17.17	17.00	17.00	18.3	5		
20	256QAM	50	50	17.22	16.97	17.11				
20	256QAM	100	0	17.16	17.00	17.00				
Channel										
Frequency (MHz)										
18	QPSK	1	0	22.04	21.95	21.93				
18	QPSK	1	24	21.81	21.81	21.81	23.3	0		
18	QPSK	1	74	21.97	21.83	21.82				
18	QPSK	36	0	21.11	21.04	20.92				
18	QPSK	36	36	21.03	20.98	20.94	22.3	1		
18	QPSK	75	0	21.10	21.03	20.87				
18	16QAM	1	0	21.31	21.28	21.24	22.3	1		
18	16QAM	1	37	21.31	21.29	21.24				
18	16QAM	1	74	21.15	21.20	21.05				
18	16QAM	36	0	20.11	20.08	20.00	21.3	2		
18	16QAM	36	36	20.12	20.05	20.00				
18	16QAM	39	0	20.05	19.95	19.94				
18	64QAM	1	0	20.20	20.22	20.16	21.3	2		
18	64QAM	1	37	20.20	20.13	20.15				
18	64QAM	1	74	20.16	20.08	20.11				
18	64QAM	36	0	19.10	19.08	18.84	20.3	3		
18	64QAM	36	36	19.17	19.10	19.00				
18	64QAM	39	0	19.16	19.03	19.01				
18	64QAM	75	0	19.07	19.03	18.81	18.3	5		
18	256QAM	1	0	17.10	17.02	17.11				
18	256QAM	1	37	17.18	17.01	17.05	18.3	5		
18	256QAM	1	74	17.13	17.00	17.08				
18	256QAM	36	0	17.08	16.83	16.86	18.3	5		
18	256QAM	36	36	17.02	16.85	16.85				
18	256QAM	39	0	17.07	16.82	16.86				
18	256QAM	75	0	17.01	16.85	16.85				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.02	21.91	21.82				
10	QPSK	1	25	21.88	21.82	21.82	23.3	0		
10	QPSK	1	49	21.89	21.80	21.69				
10	QPSK	25	0	21.12	21.03	20.89				
10	QPSK	25	12	21.08	21.00	20.89	22.3	1		
10	QPSK	25	25	21.07	20.98	20.89				
10	QPSK	50	0	21.11	21.01	20.87				
10	16QAM	1	0	21.43	21.34	21.33	22.3	1		
10	16QAM	1	25	21.39	21.28	21.26				
10	16QAM	1	49	21.31	21.25	21.16				
10	16QAM	25	0	20.14	20.11	19.99	21.3	2		
10	16QAM	25	12	20.14	20.01	19.90				
10	16QAM	25	25	20.08	19.96	19.91				
10	16QAM	50	0	20.15	20.00	19.97				
10	64QAM	1	0	20.21	20.29	20.02	21.3	2		
10	64QAM	1	25	20.30	20.24	20.15				
10	64QAM	1	49	20.15	20.07	20.03				
10	64QAM	25	0	19.15	19.05	18.97	20.3	3		
10	64QAM	25	12	19.16						



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	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	21.61	21.28	21.32				
20	QPSK	1	49	21.52	21.34	21.39		23.1	0	
20	QPSK	1	99	21.46	21.23	21.28				
20	QPSK	50	0	20.54	20.46	20.43				
20	QPSK	50	24	20.62	20.37	20.54				
20	QPSK	50	50	20.72	20.49	20.53		22.1	1	
20	QPSK	100	0	20.60	20.35	20.53				
20	16QAM	1	0	20.67	20.40	20.35				
20	16QAM	1	49	20.59	20.37	20.48		22.1	1	
20	16QAM	1	99	20.54	20.34	20.41				
20	16QAM	50	0	19.81	19.35	19.46				
20	16QAM	50	24	19.66	19.31	19.46		21.1	2	
20	16QAM	50	50	19.58	19.45	19.44				
20	16QAM	100	0	19.70	19.40	19.51				
20	64QAM	1	0	19.30	19.27	19.19				
20	64QAM	1	49	19.36	19.26	19.21		21.1	2	
20	64QAM	1	99	19.38	19.20	19.19				
20	64QAM	50	0	18.57	18.37	18.46				
20	64QAM	50	24	18.69	18.44	18.48		20.1	3	
20	64QAM	50	50	18.70	18.44	18.55				
20	64QAM	100	0	18.70	18.32	18.50				
20	256QAM	1	0	16.24	16.18	16.13				
20	256QAM	1	49	16.15	16.13	16.11		18.1	5	
20	256QAM	1	99	16.18	16.11	16.15				
20	256QAM	50	0	16.48	16.38	16.35				
20	256QAM	50	24	16.57	16.42	16.42		18.1	5	
20	256QAM	50	50	16.59	16.54	16.36				
20	256QAM	100	0	16.47	16.34	16.26				
Channel										
Frequency (MHz)				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	21.55	21.33	21.48				
15	QPSK	1	37	21.48	21.40	21.38		23.1	0	
15	QPSK	1	74	21.52	21.39	21.44				
15	QPSK	36	0	20.71	20.51	20.55				
15	QPSK	36	20	20.81	20.44	20.61		22.1	1	
15	QPSK	36	39	20.70	20.56	20.46				
15	QPSK	75	0	20.78	20.50	20.59				
15	16QAM	1	0	20.78	20.49	20.53				
15	16QAM	1	37	20.69	20.50	20.44		22.1	1	
15	16QAM	1	74	20.73	20.60	20.59				
15	16QAM	36	0	19.63	19.47	19.54				
15	16QAM	36	20	19.77	19.48	19.47		21.1	2	
15	16QAM	36	39	19.73	19.54	19.54				
15	16QAM	75	0	19.84	19.43	19.61				
15	64QAM	1	0	19.42	19.25	19.30				
15	64QAM	1	37	19.45	19.36	19.33		21.1	2	
15	64QAM	1	74	19.54	19.27	19.27				
15	64QAM	36	0	18.79	18.51	18.65				
15	64QAM	36	20	18.79	18.47	18.55		20.1	3	
15	64QAM	36	39	18.72	18.59	18.57				
15	64QAM	75	0	18.76	18.59	18.57				
15	256QAM	1	0	16.27	16.21	16.16				
15	256QAM	1	37	16.18	16.16	16.14		18.1	5	
15	256QAM	1	74	16.21	16.14	16.18				
15	256QAM	36	0	16.51	16.41	16.38				
15	256QAM	36	20	16.60	16.45	16.45		18.1	5	
15	256QAM	36	39	16.62	16.57	16.39				
15	256QAM	75	0	16.60	16.37	16.29				
Channel										
Frequency (MHz)				37860	38000	38090	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2576	2590	2615				
10	QPSK	1	0	21.46	21.52	21.53				
10	QPSK	1	25	21.52	21.48	21.43		23.1	0	
10	QPSK	1	49	21.53	21.25	21.53				
10	QPSK	25	0	20.82	20.57	20.61				
10	QPSK	25	12	20.71	20.46	20.67		22.1	1	
10	QPSK	25	25	20.78	20.54	20.55				
10	QPSK	50	0	20.77	20.55	20.58				
10	16QAM	1	0	20.88	20.55	20.66				
10	16QAM	1	25	20.74	20.60	20.58		22.1	1	
10	16QAM	1	49	20.87	20.48	20.58				
10	16QAM	25	0	19.67	19.60	19.66				
10	16QAM	25	12	19.82	19.53	19.62		21.1	2	
10	16QAM	25	25	19.85	19.51	19.58				
10	16QAM	50	0	19.78	19.60	19.68				
10	64QAM	1	0	19.83	19.30	19.15				
10	64QAM	1	25	19.47	19.37	19.36		21.1	2	
10	64QAM	1	49	19.39	19.35	19.43				
10	64QAM	25	0	18.77	18.67	18.61				
10	64QAM	25	12	18.89	18.67	18.68		20.1	3	
10	64QAM	25	25	18.86	18.62	18.58				
10	64QAM	50	0	18.82	18.50	18.69				
10	256QAM	1	0	16.29	16.23	16.18				
10	256QAM	1	25	16.20	16.18	16.16		18.1	5	
10	256QAM	1	49	16.23	16.16	16.20				
10	256QAM	25	0	16.53	16.43	16.40				
10	256QAM	25	12	16.62	16.47	16.47		18.1	5	
10	256QAM	25	25	16.64	16.59	16.41				
10	256QAM	50	0	16.62	16.39	16.31				
Channel										
Frequency (MHz)				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	21.60	21.43	21.55				
5	QPSK	1	12	21.56	21.48	21.53		23.1	0	
5	QPSK	1	24	21.57	21.49	21.44				
5	QPSK	12	0	20.85	20.47	20.54				
5	QPSK	12	7	20.79	20.50	20.65		22.1	1	
5	QPSK	12	13	20.76	20.57	20.56				
5	QPSK	25	0	20.81	20.51	20.58				
5	16QAM	1	0	20.80	20.55	20.64				
5	16QAM	1	12	20.74	20.64	20.60		22.1	1	
5	16QAM	1	24	20.89	20.65	20.62				
5	16QAM	12	0	19.77	19.48	19.65				
5	16QAM	12	7	19.76	19.53	19.63		21.1	2	
5	16QAM	12	13	19.77	19.59	19.59				
5	16QAM	25	0	19.76	19.55	19.67				
5	64QAM	1	0	19.54	19.22	19.37				
5	64QAM	1	12	19.56	19.32	19.36		21.1	2	
5	64QAM	1	24	19.61	19.40	19.38				
5	64QAM	12	0	19.86	19.51	19.62				
5	64QAM	12	7	19.80	19.62	19.70		20.1	3	
5	64QAM	12	13	19.78	19.64	19.63				
5	64QAM	25	0	18.88	18.59	18.61				
5	256QAM	1	0	16.24	16.18	16.13				
5	256QAM	1	12	16.15	16.13	16.11		18.1	5	
5	256QAM	1	24	16.18	16.11	16.15				
5	256QAM	12	0	16.48	16.38	16.35				
5	256QAM	12	7	16.57	16.42	16.42		18.1	5	
5	256QAM	12	13	16.59	16.54	16.36				
5	256QAM	25	0	16.47	16.34	16.26				

Band 41 (2.6G Band) HPUE (Limit 27)										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.40	22.56	22.42	22.41	22.44		
20	QPSK	1	49	22.42	22.54	22.36	22.37	22.31		
20	QPSK	1	99	22.41	22.52	22.40	22.45	22.37		
20	QPSK	50	0	21.63	21.88	21.53	21.55	21.56		
20	QPSK	50	24	21.72						



Band 41 (2.6G Band)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.37	20.39	20.33	20.34	20.31	21.8	0
20	QPSK	1	49	20.38	20.59	20.27	20.25	20.26		
20	QPSK	1	99	20.34	20.54	20.36	20.35	20.39	20.8	1
20	QPSK	50	0	19.52	19.69	19.42	19.34	19.36		
20	QPSK	50	24	19.55	19.68	19.48	19.44	19.32	20.8	1
20	QPSK	50	50	19.54	19.75	19.41	19.42	19.43		
20	QPSK	100	0	19.62	19.64	19.50	19.45	19.39	20.8	1
20	16QAM	1	0	19.55	19.63	19.50	19.46	19.55		
20	16QAM	1	49	19.52	19.59	19.36	19.40	19.44	20.8	1
20	16QAM	1	99	19.62	19.54	19.48	19.47	19.43		
20	16QAM	50	0	18.57	18.67	18.39	18.31	18.45	19.8	2
20	16QAM	50	24	18.61	18.64	18.52	18.46	18.40		
20	16QAM	50	50	18.61	18.70	18.46	18.38	18.37	19.8	2
20	16QAM	100	0	18.62	18.71	18.45	18.50	18.37		
20	64QAM	1	0	18.20	18.32	18.18	18.19	18.16	19.8	2
20	64QAM	1	49	18.25	18.36	18.13	18.10	18.15		
20	64QAM	1	99	18.31	18.41	18.19	18.01	18.23	18.8	3
20	64QAM	50	0	17.44	17.69	17.33	17.44	17.45		
20	64QAM	50	24	17.62	17.78	17.50	17.49	17.43	18.8	3
20	64QAM	50	50	17.58	17.74	17.48	17.53	17.47		
20	64QAM	100	0	17.61	17.70	17.49	17.42	17.37	16.8	5
20	256QAM	1	0	15.27	15.10	15.13	15.11	15.06		
20	256QAM	1	49	15.20	15.08	15.09	15.05	14.97	16.8	5
20	256QAM	1	99	15.18	15.05	15.06	15.08	14.96		
20	256QAM	50	0	15.52	15.29	15.42	15.32	15.31	16.8	5
20	256QAM	50	24	15.60	15.41	15.46	15.42	15.23		
20	256QAM	50	50	15.53	15.44	15.40	15.39	15.30	16.8	5
20	256QAM	100	0	15.50	15.38	15.38	15.34	15.20		
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.30	20.45	20.37	20.36	20.34	21.8	0
15	QPSK	1	37	20.33	20.50	20.34	20.41	20.22		
15	QPSK	1	74	20.20	20.55	20.46	20.52	20.49	20.8	1
15	QPSK	36	0	19.49	19.63	19.53	19.49	19.53		
15	QPSK	36	20	19.54	19.69	19.56	19.47	19.53	20.8	1
15	QPSK	36	39	19.50	19.68	19.48	19.53	19.46		
15	QPSK	75	0	19.52	19.65	19.59	19.54	19.39	20.8	1
15	16QAM	1	0	19.51	19.63	19.65	19.52	19.48		
15	16QAM	1	37	19.38	19.65	19.47	19.54	19.38	19.8	2
15	16QAM	1	74	19.50	19.84	19.64	19.67	19.59		
15	16QAM	36	0	18.48	18.56	18.50	18.43	18.45	19.8	2
15	16QAM	36	20	18.49	18.68	18.53	18.42	18.52		
15	16QAM	36	39	18.48	18.58	18.54	18.58	18.52	19.8	2
15	16QAM	75	0	18.56	18.68	18.57	18.54	18.49		
15	64QAM	1	0	18.27	18.36	18.20	18.27	18.24	19.8	2
15	64QAM	1	37	18.23	18.46	18.24	18.23	18.31		
15	64QAM	1	74	18.24	18.54	18.27	18.25	18.31	18.8	3
15	64QAM	36	0	17.57	17.57	17.50	17.52	17.49		
15	64QAM	36	20	17.47	17.70	17.57	17.52	17.48	16.8	5
15	64QAM	36	39	17.57	17.70	17.59	17.59	17.40		
15	64QAM	75	0	17.55	17.70	17.58	17.53	17.53	16.8	5
15	256QAM	1	0	15.32	15.15	15.18	15.16	15.11		
15	256QAM	1	37	15.25	15.13	15.14	15.10	15.02	16.8	5
15	256QAM	1	74	15.23	15.10	15.11	15.13	15.00		
15	256QAM	36	0	15.57	15.34	15.47	15.37	15.36	16.8	5
15	256QAM	36	20	15.85	15.46	15.51	15.47	15.28		
15	256QAM	36	39	15.58	15.49	15.45	15.44	15.35	16.8	5
15	256QAM	75	0	15.55	15.43	15.43	15.39	15.25		
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.47	20.54	20.32	20.47	20.40	21.8	0
10	QPSK	1	25	20.34	20.56	20.49	20.46	20.36		
10	QPSK	1	49	20.44	20.47	20.45	20.47	20.38	20.8	1
10	QPSK	25	0	19.53	19.62	19.51	19.51	19.49		
10	QPSK	25	12	19.52	19.79	19.68	19.59	19.50	20.8	1
10	QPSK	25	25	19.42	19.68	19.63	19.62	19.51		
10	QPSK	50	0	19.55	19.75	19.58	19.54	19.42	20.8	1
10	16QAM	1	0	19.59	19.68	19.52	19.67	19.53		
10	16QAM	1	25	19.55	19.78	19.57	19.59	19.58	19.8	2
10	16QAM	1	49	19.54	19.70	19.47	19.56	19.49		
10	16QAM	25	0	18.56	18.72	18.52	18.44	18.39	19.8	2
10	16QAM	25	12	18.57	18.76	18.67	18.50	18.44		
10	16QAM	25	25	18.53	18.68	18.74	18.56	18.50	19.8	2
10	16QAM	50	0	18.51	18.73	18.65	18.66	18.49		
10	64QAM	1	0	18.32	18.47	18.33	18.31	18.44	19.8	2
10	64QAM	1	25	18.21	18.52	18.39	18.38	18.39		
10	64QAM	1	49	18.29	18.53	18.12	18.31	18.29	18.8	3
10	64QAM	25	0	17.61	17.74	17.61	17.60	17.59		
10	64QAM	25	12	17.60	17.81	17.67	17.73	17.57	16.8	5
10	64QAM	25	25	17.53	17.83	17.57	17.69	17.51		
10	64QAM	50	0	17.60	17.74	17.60	17.69	17.51	16.8	5
10	256QAM	1	0	15.26	15.09	15.12	15.10	15.06		
10	256QAM	1	25	15.19	15.07	15.08	15.04	14.96	16.8	5
10	256QAM	1	49	15.17	15.04	15.05	15.07	14.94		
10	256QAM	25	0	15.51	15.28	15.41	15.31	15.30	16.8	5
10	256QAM	25	12	15.59	15.40	15.45	15.41	15.22		
10	256QAM	25	25	15.52	15.43	15.39	15.38	15.29	16.8	5
10	256QAM	50	0	15.49	15.37	15.37	15.33	15.19		
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.35	20.52	20.37	20.40	20.38	21.8	0
5	QPSK	1	12	20.36	20.55	20.38	20.49	20.34		
5	QPSK	1	24	20.42	20.58	20.44	20.46	20.39	20.8	1
5	QPSK	12	0	19.46	19.71	19.53	19.53	19.51		
5	QPSK	12	7	19.56	19.71	19.55	19.52	19.52	20.8	1
5	QPSK	12	13	19.50	19.69	19.53	19.61	19.50		
5	QPSK	25	0	19.41	19.66	19.59	19.46	19.50	20.8	1
5	16QAM	1	0	19.54	19.59	20.05	19.64	19.56		
5	16QAM	1	12	19.49	19.67	19.55	19.61	19.50	19.8	2
5	16QAM	1	24	19.55	19.74	19.66	19.61	19.55		
5	16QAM	12	0	18.49	18.63	18.53	18.49	18.52	19.8	2
5	16QAM	12	7	18.51	18.70	18.62	18.53	18.54		
5	16QAM	12	13	18.41	18.69	18.50	18.56	18.44	19.8	2
5	16QAM	25	0	18.56	18.69	18.63	18.55	18.54		
5	64QAM	1	0	18.34	18.42	18.30	18.38	18.27	19.8	2
5	64QAM	1	12	18.33	18.58	18.40	18.36	18.29		
5	64QAM	1	24	18.39	18.52	18.32	18.36	18.25	19.8	3
5	64QAM	12	0	17.54	17.68	17.56	17.59	17.56		
5	64QAM	12	7	17.59	17.75	17.67	17.62	17.53	16.8	5
5	64QAM	12	13	17.54	17.72	17.54	17.67	17.49		
5	64QAM	25	0	17.50	17.77	17.59	17.62	17.53	16.8	5
5	256QAM	1	0	15.38	15.21	15.24	15.22	15.17		
5	256QAM	1	12	15.31	15.19	15.20	15.16	15.08	16.8	5
5	256QAM	1	24	15.29	15.16	15.17	15.19	15.06		
5	256QAM	12	0	15.63	15.40	15.53	15.43	15.42	16.8	5
5	256QAM	12	7	15.71	15.52	15.57	15.53	15.34		
5	256QAM	12	13	15.64	15.55	15.51	15.50	15.41	16.8	5
5	256QAM	25	0	15.61	15.49	15.49	15.45	15.31		

Band 48 (3.5G Band)										



Full Power Mode for LAT

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.6		824.2	836.4	848.6	
GSM 1 Tx slot	31.95	31.34	31.65	33.30	22.95	22.34	22.65	24.30
GPRS 1 Tx slot	31.98	31.37	31.73	33.30	22.98	22.37	22.73	24.30
GPRS 2 Tx slots	30.22	30.12	30.05	31.80	24.22	24.12	24.05	25.80
GPRS 3 Tx slots	28.10	27.88	28.08	29.80	23.84	23.62	23.82	25.54
GPRS 4 Tx slots	27.43	27.34	27.42	29.30	24.43	24.34	24.42	26.30
EDGE 1 Tx slot	26.05	26.45	26.01	27.30	17.05	17.45	17.01	18.30
EDGE 2 Tx slots	23.82	24.26	23.84	25.30	17.82	18.26	17.84	19.30
EDGE 3 Tx slots	22.70	23.34	22.75	24.30	18.44	19.08	18.49	20.04
EDGE 4 Tx slots	22.02	22.30	22.12	23.80	19.02	19.30	19.12	20.80

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1852.2	1860	1867.8		1852.2	1860	1867.8	
GSM 1 Tx slot	29.40	29.12	29.58	30.30	20.40	20.12	20.58	21.30
GPRS 1 Tx slot	29.33	29.35	29.50	30.30	20.33	20.35	20.50	21.30
GPRS 2 Tx slots	27.00	27.15	27.11	28.80	21.00	21.15	21.11	22.80
GPRS 3 Tx slots	25.45	25.90	25.74	26.80	21.19	21.64	21.48	22.54
GPRS 4 Tx slots	23.90	24.25	24.13	25.30	20.90	21.25	21.13	22.30
EDGE 1 Tx slot	25.13	25.42	25.16	26.30	16.13	16.42	16.16	17.30
EDGE 2 Tx slots	23.50	23.80	23.35	24.80	17.50	17.80	17.35	18.80
EDGE 3 Tx slots	22.40	22.77	22.67	23.80	18.14	18.51	18.41	19.54
EDGE 4 Tx slots	21.12	21.45	21.24	22.80	18.12	18.45	18.24	19.80

Band	WCDMA II	Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)			
			1312	1413	1513		4192	4192	4238				
TX Channel	8262	8100	8638				4192	4192	4238				
Rx Channel	8682	8900	8938				4387	4407	4458				
Frequency (MHz)	1852.4	1880	1907.6				826.4	836.4	846.6				
3GPP Rel 99	AMR 12.2Kbps	23.75	23.90	23.68	24.80	23.68	23.89	23.75	24.80	24.02	24.01	24.01	24.80
3GPP Rel 99	RMC 12.2Kbps	23.78	23.92	23.77	24.80	23.69	23.91	23.76	24.80	24.01	24.04	24.05	24.80
3GPP Rel 6	HSDPA Subtest-1	22.80	22.93	22.80	23.80	22.69	22.90	22.76	23.80	23.15	23.09	23.09	23.80
3GPP Rel 6	HSDPA Subtest-2	22.77	22.92	22.81	23.80	22.65	22.86	22.79	23.80	23.17	23.13	23.13	23.80
3GPP Rel 6	HSDPA Subtest-3	22.33	22.42	22.29	23.30	22.14	22.37	22.25	23.30	22.64	22.62	22.61	23.30
3GPP Rel 6	HSDPA Subtest-4	22.28	22.40	22.29	23.30	22.17	22.41	22.27	23.30	22.66	22.61	22.60	23.30
3GPP Rel 8	DC-HSDPA Subtest-1	22.91	23.04	22.91	23.80	22.80	23.01	22.87	23.80	23.26	23.20	23.20	23.80
3GPP Rel 8	DC-HSDPA Subtest-2	22.88	23.03	22.92	23.80	22.76	22.97	22.90	23.80	23.28	23.24	23.24	23.80
3GPP Rel 8	DC-HSDPA Subtest-3	22.44	22.53	22.40	23.30	22.25	22.48	22.36	23.30	22.75	22.73	22.72	23.30
3GPP Rel 8	DC-HSDPA Subtest-4	22.39	22.51	22.40	23.30	22.28	22.52	22.38	23.30	22.77	22.72	22.71	23.30
3GPP Rel 6	HSUPA Subtest-1	22.82	22.98	22.86	23.80	22.69	22.97	22.78	23.80	23.15	23.17	23.12	23.80
3GPP Rel 6	HSUPA Subtest-2	20.80	20.99	20.83	21.80	20.66	20.94	20.78	21.80	21.14	21.12	21.10	21.80
3GPP Rel 6	HSUPA Subtest-3	21.81	21.96	21.79	22.80	21.65	21.90	21.76	22.80	22.12	22.13	22.11	22.80
3GPP Rel 6	HSUPA Subtest-4	20.79	20.96	20.82	21.80	20.74	20.90	20.78	21.80	21.15	21.11	21.11	21.80
3GPP Rel 6	HSUPA Subtest-5	22.80	22.90	22.80	23.80	22.70	22.90	22.80	23.80	23.10	23.20	23.10	23.80
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.74	20.86	20.75	21.30	20.71	20.88	20.85	21.30	21.18	21.25	21.08	21.30

Band	CDMA BC0	Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)		
			25	600	1175		476	580	684			
TX Channel	1013	384	777									
Frequency (MHz)	824.7	836.52	848.31									
RC1 SC05	23.91	24.00	23.99	24.80	23.64	23.85	23.70	24.80	23.81	23.88	23.78	24.80
RC3 SC05	23.73	23.74	23.72	24.80	23.61	23.72	23.67	24.80	23.46	23.47	23.45	24.80
RC3 SC02 (FSSCH)	23.78	23.80	23.77	24.80	23.64	23.76	23.68	24.80	23.51	23.49	23.46	24.80
RC3 SC02 (FSSCH)	23.80	23.82	23.79	24.80	23.56	23.62	23.57	24.80	23.55	23.56	23.59	24.80
RTAP 163.6Kbps	23.67	23.75	23.65	24.80	23.62	23.74	23.65	24.80	23.45	23.56	23.47	24.80
RETAP 4096Bps	23.66	23.72	23.64	24.80	23.61	23.70	23.63	24.80	23.44	23.51	23.46	24.80



Band 2 (1900MHz Band) Part 24Z									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Ch./F.Freq.	Power Ch./F.Freq.	Time-up limit (min)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.32	23.47	23.33	24.8	0	
20	QPSK	40	0	23.32	23.42	23.37			
20	QPSK	1	90	23.18	23.28	23.24			
20	QPSK	50	0	22.29	22.43	22.36			
20	QPSK	24	0	22.32	22.44	22.37			
20	QPSK	60	50	22.35	22.47	22.44			
20	QPSK	100	0	22.30	22.40	22.36			
20	HQAM	1	0	22.78	22.78	22.78			
20	HQAM	1	40	22.58	22.71	22.65			
20	HQAM	1	80	22.51	22.66	22.59			
20	HQAM	50	0	21.42	21.57	21.50			
20	HQAM	50	24	21.40	21.41	21.39			
20	HQAM	50	50	21.38	21.47	21.44			
20	HQAM	100	0	21.32	21.40	21.36			
20	HQAM	1	0	21.52	21.54	21.53			
20	HQAM	1	40	21.42	21.46	21.52			
20	HQAM	50	0	20.33	20.44	20.40			
20	HQAM	50	24	20.41	20.47	20.41			
20	HQAM	50	50	20.27	20.30	20.48			
20	HQAM	100	0	20.40	20.43	20.39			
20	256QAM	1	0	18.91	18.92	18.93			
20	256QAM	1	40	18.86	18.89	18.91			
20	256QAM	1	80	18.91	18.92	18.98			
20	256QAM	50	0	18.77	18.80	18.78			
20	256QAM	50	24	18.85	18.83	18.86			
20	256QAM	50	50	18.87	18.92	18.87			
20	256QAM	100	0	18.88	18.83	18.84			
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.38	23.42	23.41	24.8	0	
15	QPSK	1	37	23.33	23.43	23.42			
15	QPSK	1	74	23.38	23.42	23.43			
15	QPSK	1	111	22.59	22.50	22.43			
15	QPSK	36	20	22.49	22.53	22.45			
15	QPSK	36	36	22.47	22.50	22.53			
15	QPSK	1	0	22.66	22.64	22.67			
15	HQAM	1	37	22.66	22.63	22.70			
15	HQAM	1	74	22.69	22.78	22.70			
15	HQAM	36	0	21.43	21.52	21.44			
15	HQAM	36	20	21.46	21.54	21.46			
15	HQAM	36	39	21.44	21.61	21.53			
15	HQAM	75	0	21.47	21.56	21.48			
15	HQAM	1	0	21.62	21.72	21.66			
15	HQAM	37	0	20.52	20.61	20.54			
15	HQAM	1	74	21.50	21.57	21.62			
15	HQAM	36	0	20.44	20.59	20.47			
15	HQAM	36	20	20.52	20.58	20.56			
15	HQAM	36	39	20.50	20.57	20.55			
15	HQAM	75	0	20.50	20.55	20.48			
15	256QAM	1	0	18.84	18.84	18.84			
15	256QAM	1	37	18.90	19.04	19.05			
15	256QAM	1	74	18.89	18.91	18.97			
15	256QAM	50	0	18.85	18.86	18.86			
15	256QAM	50	24	18.82	18.88	18.90			
15	256QAM	50	39	18.98	18.94	18.99			
15	256QAM	75	0	18.90	18.87	18.87			
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.41	23.46	23.41	24.8	0	
10	QPSK	1	20	23.46	23.41	23.42			
10	QPSK	1	40	23.38	23.41	23.35			
10	QPSK	25	0	22.48	22.48	22.49			
10	QPSK	25	12	22.46	22.46	22.47			
10	QPSK	25	25	22.49	22.52	22.54			
10	QPSK	100	0	22.49	22.51	22.44			
10	HQAM	1	25	22.46	22.50	22.78			
10	HQAM	1	25	22.70	22.65	22.73			
10	HQAM	1	40	22.75	22.91	22.67			
10	HQAM	1	21	21.50	21.50	21.43			
10	HQAM	1	21	21.50	21.53	21.48			
10	HQAM	25	12	21.51	21.54	21.48			
10	HQAM	25	25	21.48	21.62	21.53			
10	HQAM	50	0	21.47	21.56	21.49			
10	HQAM	1	0	21.72	21.72	21.62			
10	HQAM	1	25	21.50	21.75	21.67			
10	HQAM	1	40	21.56	21.62	21.58			
10	HQAM	25	0	20.49	20.61	20.44			
10	HQAM	25	12	20.54	20.62	20.59			
10	HQAM	25	25	20.48	20.66	20.58			
10	HQAM	50	0	20.51	20.55	20.43			
10	256QAM	1	0	18.82	18.85	18.92			
10	256QAM	1	25	18.97	19.01	19.04			
10	256QAM	1	40	18.87	18.97	18.95			
10	256QAM	25	0	18.78	18.78	18.82			
10	256QAM	25	12	18.80	18.83	18.88			
10	256QAM	25	25	18.93	18.91	18.97			
10	256QAM	50	0	18.82	18.82	18.80			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.40	23.42	23.39	24.8	0	
5	QPSK	1	12	23.46	23.32	23.41			
5	QPSK	1	24	23.44	23.45	23.44			
5	QPSK	12	0	22.48	22.53	22.44			
5	QPSK	12	7	22.50	22.56	22.52			
5	QPSK	15	0	22.46	22.54	22.49			
5	HQAM	1	0	22.74	22.75	22.77			
5	HQAM	1	12	22.77	22.84	22.78			
5	HQAM	1	13	22.62	22.81	22.76			
5	HQAM	12	0	21.52	21.84	21.46			
5	HQAM	12	7	21.54	21.58	21.50			
5	HQAM	13	0	21.56	21.77	21.62			
5	HQAM	25	0	21.49	21.52	21.49			
5	HQAM	1	0	21.68	21.72	21.68			
5	HQAM	1	12	21.49	21.78	21.65			
5	HQAM	1	24	21.70	21.80	21.73			
5	HQAM	12	0	20.56	20.63	20.57			
5	HQAM	12	7	20.60	20.65	20.58			
5	HQAM	12	13	20.60	20.65	20.57			
5	HQAM	25	0	20.52	20.41	20.52			
5	256QAM	1	0	18.85	18.84	18.88			
5	256QAM	1	12	19.05	19.00	19.01			
5	256QAM	1	24	18.98	19.08	19.02			
5	256QAM	12	0	18.78	18.82	18.79			
5	256QAM	12	7	18.88	18.82	18.85			
5	256QAM	12	13	19.01	18.90	18.94			
5	256QAM	25	0	18.80	18.87	18.77			
Channel									
Frequency (MHz)									
3	QPSK	1	0	23.42	23.44	23.35	24.8	0	
3	QPSK	1	3	23.33	23.38	23.34			
3	QPSK	1	14	23.44	23.37	23.38			
3	QPSK	8	0	22.48	22.55	22.42			
3	QPSK	8	4	22.44	22.48	22.46			
3	QPSK	8	7	22.53	22.62	22.47			
3	QPSK	15	0	22.48	22.54	22.44			
3	HQAM	1	8	22.77	22.80	22.75			
3	HQAM	1	8	22.80	22.98	22.75			
3	HQAM	1	14	22.74	22.88	22.71			
3	HQAM	8	0	21.64	21.70	21.68			
3	HQAM	8	4	21.63	21.64	21.63			
3	HQAM	8	7	21.56	21.66	21.57			
3	HQAM	15	0	21.36	21.36	21.49			
3	HQAM	1	0	21.68	21.70	21.62			
3	HQAM	1	8	21.75	21.82	21.72			
3	HQAM	1	14	21.66	21.80	21.66			
3	HQAM	8	0	20.59	20.54	20.56			
3	HQAM	8	4	20.59	20.70	20.51			
3	HQAM	8	7	20.59	20.63	20.51			
3	HQAM	15	0	20.51	20.57	20.51			
3	256QAM	1	0	18.92	18.96	18.91			
3	256QAM	1	8	19.07	19.02	19.03			
3	256QAM	1	14	18.97	19.08	18.94			
3	256QAM	8	0	18.88	18.79	18.81			
3	256QAM	8	4	18.90	18.84	18.87			
3	256QAM	8	7	19.03	18.92	18.96			
3	256QAM	15	0	18.92	18.83	18.79			



Band 7 (2600MHz Band) Part 27										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power High Ch./F.Freq.	Power Max Ch./F.Freq.	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.31	23.63	23.61		24.8	0	
20	QPSK	1	49	23.33	23.74	23.62				
20	QPSK	1	99	23.33	23.77	23.62				
20	QPSK	50	0	22.42	22.77	22.76		23.8	1	
20	QPSK	24	0	22.42	22.82	22.81				
20	QPSK	50	50	22.56	22.88	22.82				
20	QPSK	100	0	22.51	22.89	22.71				
20	16QAM	1	0	22.70	23.00	22.84		23.8	1	
20	16QAM	1	49	22.83	23.03	22.98				
20	16QAM	1	99	22.78	23.04	22.97				
20	16QAM	50	0	21.68	21.79	21.79		22.8	2	
20	16QAM	50	24	21.53	21.83	21.78				
20	16QAM	50	50	21.57	21.82	21.85				
20	84QAM	1	0	21.48	21.93	21.78		22.8	2	
20	84QAM	1	49	21.49	21.91	21.93				
20	84QAM	1	99	21.59	21.91	21.98				
20	84QAM	50	0	20.45	20.80	20.73		21.8	3	
20	84QAM	50	24	20.57	20.86	20.80				
20	84QAM	50	50	20.50	20.81	20.85				
20	84QAM	100	0	20.54	20.81	20.73				
20	256QAM	1	0	18.10	18.20	18.20		19.8	5	
20	256QAM	1	49	18.12	18.38	18.32				
20	256QAM	1	99	18.02	18.14	18.21				
20	256QAM	50	0	17.99	18.17	18.14		19.8	5	
20	256QAM	50	24	18.13	18.21	18.25				
20	256QAM	50	50	18.05	18.15	18.15				
20	256QAM	100	0	18.01	18.20	18.23				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.30	23.67	23.64		24.8	0	
15	QPSK	1	37	23.33	23.73	23.69				
15	QPSK	1	74	23.40	23.76	23.71				
15	QPSK	36	0	22.39	22.79	22.71		23.8	1	
15	QPSK	36	20	22.49	22.83	22.80				
15	QPSK	36	36	22.50	22.88	22.84				
15	QPSK	1	0	22.60	22.78	22.71		23.8	1	
15	16QAM	1	0	22.59	23.00	22.90				
15	16QAM	1	74	22.71	23.02	23.05				
15	16QAM	36	0	21.39	21.79	21.69		22.8	2	
15	16QAM	36	20	21.49	21.77	21.83				
15	16QAM	36	36	21.49	21.88	21.78				
15	16QAM	75	0	21.47	21.80	21.70		22.8	2	
15	84QAM	1	0	21.56	21.86	21.76		22.8	2	
15	84QAM	1	37	21.61	21.83	21.79				
15	84QAM	1	74	21.61	22.12	21.94				
15	84QAM	36	0	20.41	20.83	20.73		21.8	3	
15	84QAM	36	20	20.56	20.89	20.84				
15	84QAM	36	36	20.54	20.84	20.85				
15	84QAM	75	0	20.51	20.85	20.75				
15	256QAM	1	0	18.13	18.22	18.22		19.8	5	
15	256QAM	1	37	18.13	18.38	18.34				
15	256QAM	1	74	18.23	18.16	18.20				
15	256QAM	36	0	18.06	18.19	18.16		19.8	5	
15	256QAM	36	20	18.14	18.23	18.27				
15	256QAM	36	36	18.06	18.17	18.22				
15	256QAM	75	0	18.02	18.22	18.25				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.22	23.67	23.65		24.8	0	
10	QPSK	1	49	23.29	23.72	23.65				
10	QPSK	25	0	22.40	22.78	22.78		23.8	1	
10	QPSK	25	25	22.41	22.86	22.80				
10	QPSK	50	0	22.44	22.79	22.78				
10	16QAM	1	0	22.66	23.07	22.95		23.8	1	
10	16QAM	1	49	22.82	23.12	23.02				
10	16QAM	25	0	21.60	21.77	21.78		22.8	2	
10	16QAM	25	12	21.46	21.81	21.80				
10	16QAM	25	25	21.42	21.84	21.79				
10	16QAM	50	0	21.44	21.88	21.87		22.8	2	
10	84QAM	1	0	21.52	22.05	21.93		22.8	2	
10	84QAM	1	49	21.54	21.94	21.86				
10	84QAM	25	0	20.42	20.81	20.80		21.8	3	
10	84QAM	25	12	20.50	20.85	20.87				
10	84QAM	25	25	20.47	20.81	20.82				
10	84QAM	50	0	20.45	20.83	20.79				
10	256QAM	1	0	18.13	18.24	18.27		19.8	5	
10	256QAM	1	25	18.14	18.40	18.37				
10	256QAM	1	49	18.24	18.18	18.20				
10	256QAM	25	0	18.01	18.21	18.19		19.8	5	
10	256QAM	25	12	18.15	18.25	18.30				
10	256QAM	25	25	18.07	18.19	18.25				
10	256QAM	50	0	18.03	18.24	18.28				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.25	23.66	23.62		24.8	0	
5	QPSK	1	12	23.24	23.74	23.65				
5	QPSK	1	24	23.26	23.73	23.64				
5	QPSK	12	0	22.40	22.75	22.75		23.8	1	
5	QPSK	12	7	22.37	22.77	22.74				
5	QPSK	12	13	22.40	22.89	22.77				
5	QPSK	25	0	22.41	22.78	22.78		23.8	1	
5	16QAM	1	0	22.64	23.01	22.97				
5	16QAM	1	12	22.60	23.10	22.96		23.8	1	
5	16QAM	1	24	22.61	23.11	22.95				
5	16QAM	12	0	21.42	21.79	21.81		22.8	2	
5	16QAM	12	7	21.40	21.79	21.80				
5	16QAM	12	13	21.41	21.80	21.80				
5	84QAM	1	0	21.41	21.82	21.81		22.8	2	
5	84QAM	1	12	21.53	21.90	21.85				
5	84QAM	1	24	21.52	22.00	21.88				
5	84QAM	12	0	20.45	20.89	20.84		21.8	3	
5	84QAM	12	7	20.45	20.88	20.85				
5	84QAM	12	13	20.50	20.92	20.84				
5	84QAM	25	0	20.42	20.86	20.81		21.8	3	
5	256QAM	1	0	18.11	18.22	18.24		19.8	5	
5	256QAM	1	12	18.12	18.38	18.35				
5	256QAM	1	24	18.22	18.16	18.20				
5	256QAM	12	0	17.99	18.19	18.17		19.8	5	
5	256QAM	12	7	18.13	18.23	18.28				
5	256QAM	12	13	18.05	18.17	18.23				
5	256QAM	25	0	18.01	18.22	18.26				

Band 12 (700MHz Low Band) Part 27F (only on channel required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power High Ch./F.Freq.	Power Max Ch./F.Freq.	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.87	24.02	23.88		24.8	0	
10	QPSK	1	49	23.90	23.90	23.93				
10	QPSK	25	0	22.99	23.01	23.03		23.8	1	
10	QPSK	25	25	22.96	23.07	23.01				
10	QPSK	50	0	23.09	23.10	23.01				
10	16QAM	1	0	23.24	23.34	23.24		23.8	1	
10	16QAM	1	25	23.26	23.24	23.28				
10	16QAM	1	49	23.27	23.29	23.30				
10	16QAM	25	0	22.08	22.09	22.03		22.8	2	
10	16QAM	25	12	22.08	22.09	22.09				
10	16QAM	25	25	22.02	22.09	22.11				
10	84QAM	1	0	22.16	22.09	22.15		22.8	2	
10	84QAM	1	25	22.16	22.19	22.25				
10	84QAM	1	49	22.16	22.11	21.74				
10	84QAM	25	0	21.10	21.15	21.07		21.8	3	
10	84QAM	25	12	21.14	21.11	21.07				
10	84QAM	25	25	21.02	21.03	21.03				
10	256QAM	1	0	18.21	18.21	18.21		19.8	5	
10	256QAM	1	25	18.28						



Band 17 (700MHz Band) Part 27H(only on channel required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.01	23.85	23.84			24.8	0
10	QPSK	1	25	24.04	23.89	23.88				
10	QPSK	1	49	24.00	23.99	23.97				
10	QPSK	25	0	22.97	22.97	22.97			23.8	1
10	QPSK	1	25	23.13	23.05	23.04				
10	QPSK	25	0	23.11	23.04	23.02				
10	16QAM	1	0	23.03	23.01	23.01				
10	16QAM	1	25	23.23	23.32	23.37			23.8	1
10	16QAM	1	49	23.34	23.32	23.32				
10	16QAM	25	0	21.98	21.96	21.95				
10	16QAM	25	12	22.14	22.03	22.04			22.8	2
10	16QAM	25	25	22.14	22.12	22.17				
10	16QAM	50	0	22.11	22.01	22.00				
10	64QAM	1	0	22.19	22.18	22.18				
10	64QAM	1	25	22.28	22.33	22.22			22.8	2
10	64QAM	1	49	22.27	22.18	22.19				
10	64QAM	25	0	21.02	21.03	21.02				
10	64QAM	25	12	21.16	21.12	21.10			21.8	3
10	64QAM	25	25	21.19	21.18	21.18				
10	256QAM	1	0	18.42	18.52	18.52			19.8	5
10	256QAM	1	25	18.50	18.74	18.82				
10	256QAM	1	49	18.66	18.62	18.78				
10	256QAM	25	0	18.46	18.52	18.51			19.8	5
10	256QAM	25	12	18.61	18.45	18.42				
10	256QAM	25	25	18.62	18.67	18.68				
10	256QAM	50	0	18.50	18.57	18.53				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.91	23.90	23.86			24.8	0
5	QPSK	1	12	23.99	24.00	24.00				
5	QPSK	1	24	23.94	24.00	23.99				
5	QPSK	12	0	23.05	23.02	23.01				
5	QPSK	12	7	23.11	23.13	23.10			23.8	1
5	QPSK	12	13	23.12	23.09	23.08				
5	QPSK	25	0	23.11	23.04	23.03				
5	16QAM	1	0	23.24	23.17	23.18			23.8	1
5	16QAM	1	12	23.24	23.24	23.24				
5	16QAM	12	7	22.13	22.13	22.12			22.8	2
5	16QAM	12	13	22.14	22.10	22.10				
5	16QAM	25	0	22.13	22.06	22.06				
5	64QAM	1	0	22.13	22.14	22.12			22.8	2
5	64QAM	1	12	22.23	22.18	22.13				
5	64QAM	12	0	21.10	21.10	21.08			21.8	3
5	64QAM	12	7	21.19	21.16	21.15				
5	64QAM	12	13	21.19	21.18	21.13				
5	64QAM	25	0	21.13	21.09	21.08				
5	256QAM	1	0	18.68	18.62	18.65			19.8	5
5	256QAM	1	12	18.69	18.73	18.62				
5	256QAM	1	24	18.78	18.71	18.83				
5	256QAM	12	0	18.66	18.52	18.55			19.8	5
5	256QAM	12	7	18.57	18.53	18.52				
5	256QAM	12	13	18.57	18.54	18.48				
5	256QAM	25	0	18.68	18.53	18.51				

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.	Turn-up time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.56	23.65	23.52			24.8	0
20	QPSK	1	49	23.45	23.59	23.51				
20	QPSK	1	99	23.39	23.51	23.38				
20	QPSK	50	0	22.67	22.71	22.68				
20	QPSK	50	25	22.65	22.75	22.68			23.8	1
20	QPSK	50	50	22.57	22.71	22.62				
20	QPSK	100	0	22.60	22.75	22.64				
20	16QAM	1	0	21.68	21.78	21.69				
20	16QAM	1	49	21.61	21.94	21.80			23.8	1
20	16QAM	1	99	22.77	22.84	22.74				
20	16QAM	50	0	21.69	21.69	21.69				
20	16QAM	50	24	21.65	21.77	21.54			22.8	2
20	16QAM	50	50	21.58	21.70	21.59				
20	64QAM	1	0	21.78	21.88	21.85			22.8	2
20	64QAM	1	49	21.70	21.86	21.82				
20	64QAM	1	99	21.53	21.62	21.62				
20	64QAM	50	0	20.58	20.70	20.59				
20	64QAM	50	24	20.65	20.81	20.58			21.8	3
20	64QAM	50	50	20.58	20.78	20.61				
20	256QAM	1	0	18.91	18.96	18.93			19.8	5
20	256QAM	1	49	18.89	18.93	18.83				
20	256QAM	1	99	18.79	18.99	18.86				
20	256QAM	50	0	18.73	18.73	18.73			19.8	5
20	256QAM	50	24	18.74	18.78	18.71				
20	256QAM	50	50	18.77	18.78	18.65				
20	256QAM	100	0	18.81	18.71	18.68				
Channel										
Frequency (MHz)										
18	QPSK	1	0	23.55	23.61	23.50			24.8	0
18	QPSK	1	37	23.46	23.63	23.44				
18	QPSK	1	74	23.45	23.62	23.41				
18	QPSK	36	0	22.67	22.70	22.60			23.8	1
18	QPSK	36	20	22.64	22.78	22.58				
18	QPSK	36	39	22.54	22.70	22.55				
18	16QAM	1	0	22.60	22.78	22.64			23.8	1
18	16QAM	1	37	22.63	22.92	22.76				
18	16QAM	1	74	22.80	22.97	22.89				
18	16QAM	36	0	21.58	21.70	21.53			22.8	2
18	16QAM	36	20	21.61	21.75	21.59				
18	16QAM	36	39	21.56	21.69	21.69				
18	64QAM	1	0	21.78	21.79	21.88			22.8	2
18	64QAM	1	37	21.83	21.85	21.80				
18	64QAM	1	74	21.83	21.85	21.80				
18	64QAM	36	0	20.69	20.77	20.59			21.8	3
18	64QAM	36	20	20.64	20.78	20.59				
18	64QAM	36	39	20.64	20.79	20.60				
18	256QAM	1	0	18.86	18.84	18.81			19.8	5
18	256QAM	1	37	18.87	18.91	18.81				
18	256QAM	1	74	18.77	18.87	18.84				
18	256QAM	36	0	18.78	18.84	18.81			19.8	5
18	256QAM	36	20	18.72	18.78	18.69				
18	256QAM	36	39	18.76	18.74	18.67				
18	256QAM	75	0	18.69	18.69	18.69				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.51	23.59	23.44			24.8	0
10	QPSK	1	24	23.45	23.59	23.44				
10	QPSK	1	49	23.44	23.56	23.40				
10	QPSK	25	0	22.67	22.67	22.67				
10	QPSK	25	12	22.65	22.77	22.67			23.8	1
10	QPSK	25	25	22.57	22.78	22.58				
10	16QAM	1	0	22.61	22.77	22.49				
10	16QAM	1	25	22.60	22.99	22.81			23.8	1
10	16QAM	1	49	22.85	22.99	22.82				
10	16QAM	25	0	21.60	21.66	21.68				
10	16QAM	25	12	21.61	21.82	21.51			22.8	2
10	16QAM	25	25	21.60	21.72	21.55				
10	16QAM	50	0	21.63	21.78	21.62				
10	16QAM	50	24	21.77	21.88	21.68			22.8	2
10	64QAM	1	0	21.78	21.95	21.79			22.8	2
10	64QAM	1	25	21.72	21.96	21.77				
10	64QAM	25	0	20.68	20.73	20.51			21.8	3
10	64QAM	25	12	20.70	20.80	20.55				
10	64QAM	25	25	20.64	20.78	20.61				
10	64QAM	50	0	20.67	20.78	20.59				
10	256QAM	1	0	18.85	18.91	18.88			19.8	5
10	256QAM	1	25	18.83	18.88	18.78</				



Band 30										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up Int. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.52	23.52	23.52	24.8	0		
10	QPSK	1	25	23.56	23.56	23.56				
10	QPSK	1	49	23.64	23.64	23.64				
10	QPSK	25	0	22.40	22.40	22.40				
10	QPSK	12	0	22.44	22.44	22.44				
10	QPSK	25	25	22.61	22.61	22.61				
10	QPSK	50	0	22.43	22.43	22.43				
10	16QAM	1	0	22.45	22.45	22.45				
10	16QAM	1	25	23.01	23.01	23.01				
10	16QAM	1	49	22.83	22.83	22.83				
10	16QAM	25	0	21.51	21.51	21.51				
10	16QAM	25	12	21.40	21.40	21.40				
10	16QAM	25	25	21.81	21.81	21.81				
10	16QAM	1	0	21.85	21.85	21.85				
10	64QAM	1	0	21.87	21.87	21.87				
10	64QAM	1	25	21.87	21.87	21.87				
10	64QAM	1	49	21.85	21.85	21.85				
10	64QAM	25	0	20.39	20.39	20.39				
10	64QAM	25	12	20.36	20.36	20.36				
10	64QAM	25	25	20.81	20.81	20.81				
10	64QAM	50	0	20.46	20.46	20.46				
10	256QAM	1	0	18.51	18.51	18.51				
10	256QAM	1	25	18.58	18.58	18.58				
10	256QAM	1	49	18.75	18.75	18.75				
10	256QAM	25	0	18.55	18.55	18.55				
10	256QAM	25	12	18.60	18.60	18.60				
10	256QAM	25	25	18.66	18.66	18.66				
10	256QAM	50	0	18.53	18.53	18.53				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.39	23.43	23.44	24.8	0		
5	QPSK	1	12	23.42	23.42	23.41				
5	QPSK	1	24	23.48	23.48	23.48				
5	QPSK	12	0	22.47	22.44	22.48				
5	QPSK	12	7	22.58	22.55	22.58				
5	QPSK	12	13	22.52	22.52	22.54				
5	QPSK	25	0	22.69	22.68	22.68				
5	16QAM	1	0	22.75	22.57	22.59				
5	16QAM	1	12	22.80	23.01	22.80				
5	16QAM	12	0	20.81	20.83	20.85				
5	16QAM	12	0	21.42	21.45	21.46				
5	16QAM	12	7	21.52	21.52	21.58				
5	16QAM	12	13	21.69	21.69	21.62				
5	16QAM	25	0	21.54	21.47	21.46				
5	64QAM	1	0	21.50	21.75	21.82				
5	64QAM	1	12	21.75	21.84	21.84				
5	64QAM	1	24	21.38	21.77	21.88				
5	64QAM	12	0	20.51	20.81	20.48				
5	64QAM	12	7	20.81	20.83	20.85				
5	64QAM	12	13	20.59	20.92	20.54				
5	64QAM	25	0	20.57	20.44	20.48				
5	256QAM	1	0	18.55	18.63	18.58				
5	256QAM	1	12	18.50	18.57	18.52				
5	256QAM	1	24	18.71	18.79	18.86				
5	256QAM	12	0	18.60	18.52	18.47				
5	256QAM	12	7	18.66	18.65	18.68				
5	256QAM	12	13	18.63	18.67	18.60				
5	256QAM	25	0	18.65	18.57	18.65				

Band 66										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up Int. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.43	23.51	23.41	24.8	0		
20	16QAM	1	49	23.46	23.46	23.46				
20	QPSK	1	99	23.27	23.32	23.18				
20	QPSK	50	0	22.46	22.49	22.42				
20	QPSK	24	0	22.44	22.44	22.48				
20	QPSK	50	50	22.48	22.44	22.37				
20	QPSK	100	0	22.41	22.45	22.36				
20	16QAM	1	49	22.73	22.75	22.65				
20	16QAM	1	99	22.60	22.60	22.51				
20	16QAM	50	0	21.46	21.48	21.43				
20	16QAM	50	24	21.56	21.48	21.37				
20	16QAM	50	59	21.51	21.48	21.37				
20	64QAM	1	0	21.65	21.70	21.60				
20	64QAM	1	49	21.60	21.66	21.58				
20	64QAM	1	99	21.50	21.56	21.44				
20	64QAM	50	0	20.53	20.51	20.45				
20	64QAM	50	24	20.58	20.47	20.39				
20	64QAM	50	59	20.51	20.48	20.46				
20	256QAM	1	0	18.54	18.54	18.54				
20	256QAM	1	49	18.89	18.88	18.81				
20	256QAM	1	99	18.72	18.73	18.74				
20	256QAM	50	0	18.78	18.59	18.55				
20	256QAM	50	24	18.78	18.58	18.62				
20	256QAM	50	59	18.79	18.58	18.52				
20	256QAM	100	0	18.81	18.61	18.70				
Channel										
Frequency (MHz)										
18	QPSK	1	0	23.43	23.40	23.36	24.8	0		
18	QPSK	1	37	23.41	23.40	23.30				
18	QPSK	1	74	23.38	23.27	23.16				
18	QPSK	36	0	22.36	22.47	22.33				
18	QPSK	36	20	22.54	22.44	22.44				
18	QPSK	36	39	22.46	22.43	22.35				
18	QPSK	1	99	22.50	22.41	22.39				
18	16QAM	1	0	22.71	22.71	22.70				
18	16QAM	1	37	22.70	22.72	22.61				
18	16QAM	1	74	22.60	22.66	22.64				
18	16QAM	36	0	21.82	21.45	21.35				
18	16QAM	36	20	21.53	21.43	21.43				
18	16QAM	36	39	21.47	21.46	21.46				
18	16QAM	75	0	21.54	21.41	21.41				
18	64QAM	1	0	21.59	21.58	21.47				
18	64QAM	1	37	21.68	21.68	21.68				
18	64QAM	1	74	21.51	21.53	21.48				
18	64QAM	36	0	20.54	20.49	20.39				
18	64QAM	36	20	20.57	20.47	20.38				
18	64QAM	36	39	20.49	20.48	20.37				
18	64QAM	75	0	20.52	20.43	20.40				
18	256QAM	1	0	18.75	18.75	18.75				
18	256QAM	1	37	18.78	18.57	18.55				
18	256QAM	1	74	18.81	18.62	18.63				
18	256QAM	36	0	18.67	18.50	18.52				
18	256QAM	36	20	18.67	18.47	18.51				
18	256QAM	36	39	18.68	18.51	18.55				
18	256QAM	75	0	18.53	18.44	18.44				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.43	23.35	23.26	24.8	0		
10	QPSK	1	24	23.38	23.38	23.24				
10	QPSK	1	49	23.32	23.28	23.18				
10	QPSK	25	0	22.60	22.44	22.31				
10	QPSK	12	0	22.47	22.44	22.39				
10	QPSK	25	25	22.48	22.44	22.34				
10	QPSK	50	0	22.51	22.43	22.29				
10	16QAM	1	49	22.76	22.76	22.65				
10	16QAM	1	25	22.75	22.75	22.60				
10	16QAM	1	49	22.70	22.63	22.52				
10	16QAM	25	0	21.52	21.43	21.31				
10	16QAM	25	12	21.54	21.43	21.34				
10	16QAM	25	25	21.47	21.44	21.30				
10	16QAM	50	0	21.50	21.41	21.30				
10	16QAM	50	24	21.76	21.68	21.57				
10	64QAM	1	25	21.61	21.70	21.59				
10	64QAM	1	49	21.62	21.81	21.47				
10	64QAM	25	0	20.55	20.46	20.33				
10	64QAM	25	12	20.56	20.45	20.34				
10	64QAM	25	25	20.48	20.48	20.36				
10	64QAM	50	0	20.51	20.44					



Band 38 (only on channel required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Low Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.80	23.45	23.88	24.8	0		
20	QPSK	1	99	23.80	23.45	23.88	24.8	0		
20	QPSK	1	99	23.70	23.35	23.58	24.8	0		
20	QPSK	50	0	22.89	22.87	22.87	23.8	1		
20	QPSK	50	99	22.89	22.76	22.68	23.8	1		
20	QPSK	100	0	22.88	22.87	22.68	23.8	1		
20	QPSK	100	99	22.88	22.79	22.81	23.8	1		
20	16QAM	1	0	21.76	21.70	21.58	22.8	1		
20	16QAM	1	99	21.76	21.79	21.72	22.8	1		
20	16QAM	50	0	21.59	21.65	21.61	22.8	2		
20	16QAM	50	99	21.81	21.75	21.72	22.8	2		
20	64QAM	1	0	21.48	21.33	21.38	22.8	2		
20	64QAM	1	99	21.42	21.40	21.22	22.8	2		
20	64QAM	50	0	20.73	20.69	20.71	21.8	3		
20	64QAM	50	99	20.93	20.69	20.65	21.8	3		
20	256QAM	1	0	18.62	18.70	18.72	19.8	5		
20	256QAM	1	99	18.62	18.63	18.63	19.8	5		
20	256QAM	50	0	18.78	18.83	18.78	19.8	5		
20	256QAM	50	99	18.83	18.87	18.78	19.8	5		
20	256QAM	100	0	18.78	18.73	18.78	19.8	5		
20	256QAM	100	99	18.78	18.73	18.78	19.8	5		
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.77	23.65	23.72	24.8	0		
15	QPSK	1	99	23.77	23.67	23.62	24.8	0		
15	QPSK	1	99	23.67	23.67	23.62	24.8	0		
15	QPSK	1	99	23.67	23.45	23.62	24.8	0		
15	QPSK	50	0	22.81	22.80	22.78	23.8	1		
15	QPSK	50	99	22.81	22.87	22.88	23.8	1		
15	QPSK	100	0	22.83	22.87	22.73	23.8	1		
15	QPSK	100	99	22.83	22.89	22.73	23.8	1		
15	16QAM	1	0	22.85	22.88	22.82	23.8	1		
15	16QAM	1	99	22.87	22.70	22.44	23.8	1		
15	16QAM	50	0	22.82	22.88	22.88	23.8	1		
15	16QAM	50	99	21.78	21.80	21.68	22.8	2		
15	16QAM	75	0	21.90	21.69	21.70	22.8	2		
15	64QAM	1	0	21.48	21.27	21.28	22.8	2		
15	64QAM	1	99	21.52	21.67	21.63	22.8	2		
15	64QAM	50	0	20.81	20.68	20.71	21.8	3		
15	64QAM	50	99	20.94	20.68	20.72	21.8	3		
15	64QAM	75	0	20.96	20.61	20.62	21.8	3		
15	256QAM	1	0	18.58	18.59	18.58	19.8	5		
15	256QAM	1	99	18.58	18.59	18.58	19.8	5		
15	256QAM	50	0	18.82	18.81	18.82	19.8	5		
15	256QAM	50	99	18.79	18.83	18.74	19.8	5		
15	256QAM	100	0	18.74	18.70	18.62	19.8	5		
15	256QAM	100	99	18.74	18.70	18.62	19.8	5		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.53	23.53	23.53	24.8	0		
10	QPSK	1	25	23.45	23.69	23.62	24.8	0		
10	QPSK	1	49	23.54	23.57	23.66	24.8	0		
10	QPSK	1	49	23.65	23.62	23.66	24.8	0		
10	QPSK	25	12	22.92	22.86	22.86	23.8	1		
10	QPSK	25	25	22.91	22.73	22.77	23.8	1		
10	QPSK	25	49	22.94	22.93	22.93	23.8	1		
10	16QAM	1	0	22.88	22.78	22.82	23.8	1		
10	16QAM	1	25	22.87	22.78	22.71	23.8	1		
10	16QAM	1	49	22.82	22.82	22.82	23.8	1		
10	16QAM	25	0	21.86	21.41	21.73	22.8	2		
10	16QAM	25	12	21.87	21.41	21.84	22.8	2		
10	16QAM	25	25	21.92	21.67	21.83	22.8	2		
10	16QAM	50	0	21.96	21.76	21.87	22.8	2		
10	64QAM	1	0	21.82	21.47	21.51	22.8	2		
10	64QAM	1	49	21.76	21.43	21.53	22.8	2		
10	64QAM	25	0	20.90	20.77	20.86	21.8	3		
10	64QAM	25	12	20.96	20.70	20.83	21.8	3		
10	64QAM	25	25	20.98	20.62	20.82	21.8	3		
10	256QAM	1	0	18.94	18.98	18.96	19.8	5		
10	256QAM	1	25	18.86	18.67	18.68	19.8	5		
10	256QAM	25	0	18.92	18.87	18.82	19.8	5		
10	256QAM	25	12	18.90	18.89	18.80	19.8	5		
10	256QAM	25	25	18.87	18.81	18.82	19.8	5		
10	256QAM	50	0	18.90	18.78	18.71	19.8	5		
10	256QAM	50	99	18.90	18.78	18.71	19.8	5		
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.59	23.62	23.62	24.8	0		
5	QPSK	1	12	23.54	23.63	23.68	24.8	0		
5	QPSK	1	24	23.96	23.93	23.92	24.8	0		
5	QPSK	12	0	23.92	23.84	23.78	24.8	0		
5	QPSK	12	7	23.94	23.63	23.74	24.8	1		
5	QPSK	12	13	22.85	22.74	22.75	23.8	1		
5	QPSK	25	0	22.88	22.83	22.77	23.8	1		
5	16QAM	1	0	22.87	22.82	22.86	23.8	1		
5	16QAM	1	12	22.90	23.04	22.85	23.8	1		
5	16QAM	1	24	22.81	22.82	22.82	23.8	1		
5	16QAM	12	0	21.83	21.65	21.76	22.8	2		
5	16QAM	12	7	21.92	21.67	21.79	22.8	2		
5	16QAM	12	13	21.82	21.84	21.78	22.8	2		
5	64QAM	1	0	21.86	21.69	21.77	22.8	2		
5	64QAM	1	12	21.85	21.65	21.82	22.8	2		
5	64QAM	1	24	21.89	21.46	21.58	22.8	2		
5	64QAM	12	0	20.90	20.72	20.81	21.8	3		
5	64QAM	12	13	20.96	20.70	20.78	21.8	3		
5	64QAM	25	0	20.96	20.72	20.81	21.8	3		
5	256QAM	1	0	18.95	18.93	18.69	19.8	5		
5	256QAM	1	12	18.90	18.66	18.67	19.8	5		
5	256QAM	12	0	18.71	18.76	18.71	19.8	5		
5	256QAM	12	7	18.79	18.73	18.76	19.8	5		
5	256QAM	12	13	18.76	18.80	18.71	19.8	5		
5	256QAM	25	0	18.69	18.67	18.60	19.8	5		

Band 41 (2.6G Band)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Low Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.39	23.82	23.61	23.8	0		
20	QPSK	1	99	23.40	23.81	23.60	23.8	0		
20	QPSK	1	99	23.50	23.79	23.57	23.8	0		
20	QPSK	50	0	22.39	22.81	22.70	23.8	1		
20	QPSK	50	99	22.44	22.80	22.78	23.8	1		
20	QPSK	100	0	22.32	22.50	22.78	23.8	1		
20	QPSK	100	99	22.40	22.56	22.88	23.8	1		
20	16QAM	1	0	22.80	22.80	22.80	23.8	1		
20	16QAM	1	99	22.89	22.85	22.81	23.8	1		
20	16QAM	50	0	21.80	21.80	21.72	22.8	2		
20	16QAM	50	99	21.81	21.84	21.78	22.8	2		
20	64QAM	1	0	21.18	21.65	21.61	22.8	2		
20	64QAM	1	99	21.28	21.63	21.53	22.8	2		
20	64QAM	50	0	20.60	20.86	20.76	21.8	3		
20	64QAM	50	99	20.66	20.88	20.83	21.8	3		
20	256QAM	1	0	18.69	18.45	18.54	19.8	5		
20	256QAM	1	99	18.65	18.41	18.46	19.8	5		
20	256QAM	50	0	18.81	18.69	18.78	19.8	5		
20	256QAM	50	99	18.89	18.78	18.76	19.8	5		
20	256QAM	100	0	18.83	18.73	18.76	19.8	5		
20	256QAM	100	99	18.83	18.73	18.76	19.8	5		
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.41	23.75	23.60	23.8	0		
15	QPSK	1	99	23.51	23.86	23.64	23.73	0		
15	QPSK	1	99	23.50	23.90	23.64	23.66	0		



Reduced Power Level 1 for Head for UAT

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	178	189	251		178	189	251	
TX Channel	824.2	838.4	848.8		824.2	838.4	848.8	
Frequency (MHz)								
GSM 1 Tx slot	30.26	30.48	30.16	31.60	21.26	21.48	21.16	22.80
GPRS 1 Tx slot	30.27	30.51	30.19	31.60	21.27	21.51	21.19	22.80
GPRS 2 Tx slots	28.05	28.15	28.10	28.60	22.05	22.15	22.10	22.60
GPRS 3 Tx slots	25.85	25.95	25.89	26.60	21.59	21.69	21.63	22.34
GPRS 4 Tx slots	24.52	24.65	24.63	25.60	21.52	21.65	21.63	22.60
EDGE 1 Tx slot	24.97	24.35	24.82	26.00	15.97	15.35	15.82	17.00
EDGE 2 Tx slots	23.08	23.13	22.91	24.00	17.08	17.13	16.91	18.00
EDGE 3 Tx slots	22.26	21.92	22.34	23.00	18.00	17.66	18.08	18.74
EDGE 4 Tx slots	21.55	21.23	21.59	22.50	18.55	18.23	18.59	19.50

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	651	810		512	651	810	
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8	
Frequency (MHz)								
GSM 1 Tx slot	26.47	26.56	26.44	27.80	17.47	17.56	17.44	18.80
GPRS 1 Tx slot	26.50	26.58	26.45	27.80	17.50	17.58	17.45	18.80
GPRS 2 Tx slots	24.48	24.63	24.36	25.30	18.48	18.63	18.36	19.30
GPRS 3 Tx slots	22.76	22.74	22.57	23.30	18.50	18.48	18.31	19.04
GPRS 4 Tx slots	21.28	21.19	20.92	21.80	18.28	18.19	17.92	18.80
EDGE 1 Tx slot	22.45	22.89	22.82	23.90	13.45	13.89	13.82	14.90
EDGE 2 Tx slots	20.67	21.03	21.05	22.30	14.67	15.03	15.05	16.30
EDGE 3 Tx slots	19.72	20.10	20.22	21.30	15.46	15.84	15.96	17.04
EDGE 4 Tx slots	18.34	18.83	18.90	20.30	15.34	15.83	15.90	17.30

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9282	9400	9538		1312	1419	1513		4132	4182	4233		
TX Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458		
Rx Channel	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6		
Frequency (MHz)													
3GPP Rel 99	AMR 12.2Kbps	19.29	19.42	19.24	20.00	18.46	18.55	18.38	19.30	21.47	21.45	21.52	22.40
3GPP Rel 99	RMC 12.2Kbps	19.45	19.50	19.48	20.00	18.50	18.59	18.39	19.30	21.44	21.46	21.55	22.40
3GPP Rel 6	HSDPA Subtest-1	18.35	18.48	18.29	19.00	17.85	17.87	17.72	18.30	20.42	20.45	20.44	21.40
3GPP Rel 6	HSDPA Subtest-2	18.37	18.49	18.33	19.00	17.85	17.87	17.75	18.30	20.42	20.41	20.52	21.40
3GPP Rel 6	HSDPA Subtest-3	17.84	18.00	17.85	18.50	17.32	17.39	17.25	17.80	19.90	19.93	19.96	20.90
3GPP Rel 6	HSDPA Subtest-4	17.85	18.00	17.81	18.50	17.34	17.38	17.25	17.80	19.92	19.89	19.98	20.90
3GPP Rel 8	DC-HSDPA Subtest-1	18.34	18.42	18.26	19.00	17.82	17.84	17.69	18.30	20.41	20.44	20.43	21.40
3GPP Rel 8	DC-HSDPA Subtest-2	18.32	18.45	18.31	19.00	17.79	17.81	17.72	18.30	20.39	20.37	20.48	21.40
3GPP Rel 8	DC-HSDPA Subtest-3	17.82	17.93	17.82	18.50	17.29	17.36	17.22	17.80	19.87	19.89	19.92	20.90
3GPP Rel 8	DC-HSDPA Subtest-4	17.85	17.91	17.80	18.50	17.33	17.35	17.30	17.80	19.90	19.86	19.95	20.90
3GPP Rel 6	HSUPA Subtest-1	18.41	18.54	18.38	19.00	17.79	17.89	17.78	18.30	20.40	20.39	20.52	21.40
3GPP Rel 6	HSUPA Subtest-2	16.38	16.55	16.35	17.00	15.82	15.92	15.68	16.30	18.37	18.38	18.52	19.40
3GPP Rel 6	HSUPA Subtest-3	17.43	17.50	17.37	18.00	16.35	16.42	16.27	17.30	19.43	19.38	19.43	20.40
3GPP Rel 6	HSUPA Subtest-4	16.23	16.35	16.19	17.00	15.10	15.19	15.01	16.30	18.34	18.40	18.46	19.40
3GPP Rel 6	HSUPA Subtest-5	18.40	18.60	18.40	19.00	17.90	17.90	17.70	18.30	20.40	20.40	20.50	21.40
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	16.13	16.20	15.97	16.50	15.41	15.50	15.45	15.80	18.28	18.31	18.20	18.90

Band	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
	1013	384	777		25	600	1175		476	580	684	
TX Channel	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
Frequency (MHz)												
RC1 SO85	21.36	21.43	21.35	22.20	19.23	19.31	19.20	20.20	21.87	21.91	21.90	22.80
RC3 SO85	21.33	21.39	21.36	22.20	19.30	19.42	19.40	20.20	21.82	21.86	21.85	22.80
RC3 SO32 (F+SCH)	21.26	21.33	21.28	22.20	19.26	19.38	19.24	20.20	21.82	21.83	21.84	22.80
RC3 SO32 (F+SCH)	21.34	21.37	21.29	22.20	19.12	19.24	19.15	20.20	21.75	21.81	21.80	22.80
RTAP 183.6Kbps	21.06	21.16	21.13	22.20	19.36	19.41	19.28	20.20	21.60	21.67	21.64	22.80
RETAP 4098Bbits	21.04	21.07	21.05	22.20	19.32	19.40	19.34	20.20	21.59	21.65	21.62	22.80



Band 12 (700MHz Low Band) Part 27F(only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MFR (dB)	
Channel	Frequency (MHz)	704	707.5	711					
10	QPSK	1	0	22.13	22.12	22.98			
10	QPSK	1	25	22.55	22.54	22.98	23.4	0	
10	QPSK	1	49	22.95	22.93	22.98			
10	QPSK	25	0	21.98	21.97	22.98			
10	QPSK	25	12	22.08	22.03	22.98	23.4	0	
10	QPSK	25	25	22.29	22.11	22.15			
10	QPSK	50	0	22.09	22.05	22.98			
10	16QAM	1	0	22.24	22.23	22.23	23.4	0	
10	16QAM	1	25	22.25	22.34	22.31			
10	16QAM	1	49	22.41	22.30	22.30			
10	16QAM	25	0	21.00	21.05	21.05			
10	16QAM	25	12	21.16	21.04	21.07	22.4	1	
10	16QAM	25	25	21.28	21.05	21.05			
10	16QAM	50	0	21.10	21.05	21.05			
10	64QAM	1	0	21.15	21.14	21.15	22.4	1	
10	64QAM	1	25	21.29	21.24	21.25			
10	64QAM	1	49	21.20	21.25	21.25			
10	64QAM	25	0	20.04	20.08	20.07			
10	64QAM	25	12	20.12	20.06	20.14	21.4	2	
10	64QAM	25	25	20.14	20.13	20.17			
10	256QAM	1	0	17.87	17.83	18.00			
10	256QAM	1	25	18.02	18.00	18.07	19.3	4.1	
10	256QAM	1	49	17.82	18.06	17.86			
10	256QAM	25	0	17.81	18.06	17.86			
10	256QAM	25	12	17.88	17.88	17.82	19.3	4.1	
10	256QAM	25	25	17.82	17.80	17.83			
10	256QAM	50	0	17.87	18.02	18.00			
Channel	Frequency (MHz)	21035	21065	21158	Turn-up limit (dBm)	MFR (dB)			
5	QPSK	1	0	22.83	22.84	22.84			
5	QPSK	1	12	22.81	22.71	22.70	23.4	0	
5	QPSK	1	24	22.85	22.89	22.71			
5	QPSK	12	0	22.82	22.84	22.84			
5	QPSK	12	7	22.01	22.06	22.13	23.4	0	
5	QPSK	12	13	22.00	22.07	22.07			
5	QPSK	25	0	22.00	22.02	22.00			
5	16QAM	1	0	22.22	22.20	22.20	23.4	0	
5	16QAM	1	12	22.20	22.22	22.25			
5	16QAM	1	24	22.07	22.02	22.02			
5	16QAM	12	0	21.81	21.08	21.08			
5	16QAM	12	7	21.05	21.08	21.10	22.4	1	
5	16QAM	12	13	22.02	22.04	22.04			
5	16QAM	25	0	21.02	21.05	21.07			
5	64QAM	1	0	21.12	21.21	21.18	22.4	1	
5	64QAM	1	12	21.08	21.21	21.24			
5	64QAM	1	24	21.15	21.22	21.18			
5	64QAM	12	0	20.09	20.13	20.14			
5	64QAM	12	7	20.10	20.11	20.08	21.4	2	
5	64QAM	12	13	20.07	20.14	20.14			
5	64QAM	25	0	20.02	20.07	20.10			
5	256QAM	1	0	18.08	18.05	18.10			
5	256QAM	1	12	18.14	18.12	18.19	19.3	4.1	
5	256QAM	1	24	18.04	18.18	18.08			
5	256QAM	12	0	17.83	18.08	17.88			
5	256QAM	12	7	18.30	18.10	17.94	19.3	4.1	
5	256QAM	12	13	17.84	18.14	18.00			
5	256QAM	25	0	18.02	17.94	18.00			
Channel	Frequency (MHz)	21065	21065	21158	Turn-up limit (dBm)	MFR (dB)			
3	QPSK	1	0	22.47	22.44	22.42			
3	QPSK	1	8	22.44	22.51	22.54	23.4	0	
3	QPSK	1	14	22.38	22.49	22.47			
3	QPSK	8	0	22.05	22.02	22.08			
3	QPSK	8	4	22.03	22.06	22.12	23.4	0	
3	QPSK	8	7	21.98	22.07	22.06			
3	16QAM	1	0	22.00	22.00	22.00			
3	16QAM	1	8	22.31	22.28	22.32	23.4	0	
3	16QAM	1	14	22.04	22.30	22.24			
3	16QAM	8	0	21.08	21.10	21.08			
3	16QAM	8	4	21.05	21.08	21.18	22.4	1	
3	16QAM	8	7	21.01	21.11	21.12			
3	16QAM	15	0	21.04	21.04	21.05			
3	64QAM	1	0	21.14	21.16	21.18	22.4	1	
3	64QAM	1	8	21.09	21.05	21.02			
3	64QAM	1	14	21.12	21.18	21.18			
3	64QAM	8	0	20.07	20.12	20.10			
3	64QAM	8	4	20.06	20.13	20.18	21.4	2	
3	64QAM	8	7	20.02	20.13	20.11			
3	8QAM	15	0	20.03	20.03	20.09			
3	256QAM	1	0	18.02	18.18	18.25			
3	256QAM	1	8	18.27	18.25	18.32	19.3	4.1	
3	256QAM	1	14	18.17	18.31	18.21			
3	256QAM	8	0	18.06	18.21	18.15			
3	256QAM	8	4	18.13	18.13	18.07	19.3	4.1	
3	256QAM	8	7	18.07	18.10	18.18			
3	256QAM	15	0	18.15	18.07	18.17			
Channel	Frequency (MHz)	21117	21065	21173	Turn-up limit (dBm)	MFR (dB)			
1.4	QPSK	1	0	22.34	22.35	22.40			
1.4	QPSK	1	3	22.38	22.43	22.43	23.4	0	
1.4	QPSK	1	5	22.20	22.39	22.38			
1.4	QPSK	3	0	22.05	22.34	22.41			
1.4	QPSK	3	1	22.38	22.39	22.41			
1.4	QPSK	3	3	22.33	22.40	22.38	23.4	0	
1.4	QPSK	3	5	21.03	21.05	21.08			
1.4	16QAM	1	0	22.15	22.17	22.24			
1.4	16QAM	1	3	22.22	22.30	22.27	23.4	0	
1.4	16QAM	1	14	22.09	22.24	22.21			
1.4	16QAM	3	0	21.97	21.98	22.01			
1.4	16QAM	3	1	21.07	22.00	22.00			
1.4	16QAM	3	3	21.03	22.00	21.95	22.4	1	
1.4	64QAM	1	0	21.12	21.13	21.13			
1.4	64QAM	1	3	21.07	21.19	21.18	22.4	1	
1.4	64QAM	1	5	20.07	21.03	21.01			
1.4	64QAM	3	0	21.03	21.11	21.14			
1.4	64QAM	3	1	21.08	21.14	21.15			
1.4	64QAM	3	3	21.02	21.10	21.10	21.4	2	
1.4	64QAM	6	0	19.03	19.06	19.08			
1.4	256QAM	1	0	18.15	18.11	18.18			
1.4	256QAM	1	3	18.20	18.18	18.25	19.3	4.1	
1.4	256QAM	1	5	18.20	18.24	18.14			
1.4	256QAM	3	0	17.99	18.14	18.05			
1.4	256QAM	3	1	18.06	18.08	18.00			
1.4	256QAM	3	3	18.00	18.06	18.11			
1.4	256QAM	6	0	18.08	18.00	18.10	19.3	4.1	

Band 13(700MHz Band) Part 27F									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MFR (dB)	
Channel	Frequency (MHz)	782							
10	QPSK	1	0	22.24					
10	QPSK	1	25	22.30			23.5	0	
10	QPSK	1	49	22.35					
10	QPSK	25	0	21.78					
10	QPSK	25	12	21.80			22.5	1	
10	QPSK	25	25	21.85					
10	QPSK	50	0	21.81					
10	16QAM	1	0	21.92			22.5	1	
10	16QAM	1	25	21.99					
10	16QAM	1	49	22.00					
10	16QAM	25	0	20.83					
10	16QAM	25	12	20.80			21.5	2	
10	16QAM	25	25	20.99					
10	16QAM	50	0	20.81					
10	64QAM	1	0	20.88			21.5	2	
10	64QAM	1	25	20.99					
10	64QAM	1	49	20.95					
10	64QAM	25	0	19.85			20.5	3	
10	64QAM	25	12	19.88					
10	64QAM	25	25	19.91					
10	64QAM	50	0	19.85					
10	256QAM	1	0	18.08			18.5	5	
10	256QAM	1	25	18.18					
10	256QAM	1	49	18.23					
10	256QAM	25	0	18.02			18.5	5	
10	256QAM	25	12	18.10					
10	256QAM	25	25	18.11					
10	256QAM	50	0	18.13					
Channel	Frequency (MHz)	782	785	788	Turn-up limit (dBm)	MFR (dB)			
5	QPSK	1	0	22.30	22.31	22.31			
5	QPSK	1	12	22.34	22.30	22.29	23.5	0	
5	QPSK	1	24	22.30	22.23	22.29			
5	QPSK	12	0	21.80	21.86	21.81			
5	QPSK	12	7	21.87	21.81	21.81	22.5	1	
5	QPSK	12	13	21.86	21.86	21.83			
5	QPSK	25	0	21.83	21.81	21.83			
5	16QAM	1	0	21.91	21.99	21.97	22.5	1	
5	16QAM	1	12	21.98	21.99	21.98			
5	16QAM	1	24	22.03	22.02	21.99			
5	16QAM	12	0	20.86	20.83	20.82			
5	16QAM	12	7	20.91	20.79	20.80	21.5	2	
5	16QAM	12	13	20.90	20.86	20.87			
5	16QAM	25	0	20.91	20.86	20.80			
5	64QAM	1	0	20.74	20.88	20.83	21.5	2	
5	64								



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 (MHz)	MFR (dB)	
Channel									
Frequency (MHz)				1890	1900	1905			
20	QPSK	1	0	18.79	18.80	18.89			
20	QPSK	1	40	18.72	18.82	18.93	19.4	0	
20	QPSK	1	80	18.72	18.82	18.93			
20	QPSK	50	24	18.70	18.78	18.81	19.4	0	
20	QPSK	50	50	18.68	18.75	18.80			
20	QPSK	150	0	18.70	18.80	18.90			
20	16QAM	1	0	18.69	18.82	18.98			
20	16QAM	1	40	18.69	18.77	18.81	19.4	0	
20	16QAM	1	80	18.62	18.70	18.86			
20	16QAM	50	0	18.70	18.75	18.87			
20	16QAM	50	24	18.72	18.85	18.93	19.4	0	
20	16QAM	50	50	18.69	18.77	18.85			
20	16QAM	100	0	18.72	18.79	18.85			
20	16QAM	1	0	18.81	18.85	18.90	19.4	0	
20	16QAM	1	40	18.84	18.88	18.92			
20	16QAM	1	80	18.78	18.71	18.70			
20	16QAM	50	0	18.33	18.41	18.31			
20	16QAM	50	24	18.34	18.44	18.34	19.4	0	
20	16QAM	50	50	18.33	18.41	18.34			
20	16QAM	100	0	18.32	18.41	18.34			
20	16QAM	1	0	18.81	18.87	18.93	19.4	0	
20	16QAM	1	40	18.75	18.73	18.74			
20	16QAM	1	80	18.81	18.84	18.81			
20	16QAM	50	0	18.32	18.40	18.24	19.4	0	
20	16QAM	50	24	18.30	18.37	18.23			
20	16QAM	50	50	18.33	18.41	18.34			
20	16QAM	100	0	18.32	18.41	18.34			
20	25QAM	1	0	18.68	18.70	18.73			
20	25QAM	1	40	18.75	18.73	18.74	17.4	2	
20	25QAM	1	80	18.81	18.76	18.69			
20	25QAM	50	0	18.70	18.64	18.57			
20	25QAM	50	24	18.74	18.72	18.65	17.4	2	
20	25QAM	50	50	18.72	18.71	18.59			
20	25QAM	100	0	18.68	18.68	18.58			
Channel									
Frequency (MHz)				1907.5	1905	1907.5	Tune-up (MHz)	MFR (dB)	
16	QPSK	1	0	18.57	18.60	18.69			
16	QPSK	1	37	18.40	18.58	18.45	19.4	0	
16	QPSK	1	74	18.44	18.54	18.45			
16	QPSK	36	0	18.60	18.60	18.53			
16	QPSK	36	20	18.64	18.78	18.53	19.4	0	
16	QPSK	36	39	18.59	18.67	18.56			
16	QPSK	75	0	18.62	18.70	18.54			
16	16QAM	1	0	18.61	18.74	18.50			
16	16QAM	1	37	18.61	18.69	18.53	19.4	0	
16	16QAM	1	74	18.54	18.67	18.48			
16	16QAM	36	0	18.62	18.70	18.59			
16	16QAM	36	20	18.64	18.77	18.55	19.4	0	
16	16QAM	36	39	18.61	18.64	18.52			
16	16QAM	75	0	18.64	18.71	18.52			
16	16QAM	1	0	18.73	18.77	18.72	19.4	0	
16	16QAM	1	37	18.78	18.80	18.73			
16	16QAM	1	74	18.70	18.83	18.68			
16	16QAM	36	0	18.25	18.33	18.23	19.4	0	
16	16QAM	36	20	18.29	18.37	18.20			
16	16QAM	36	39	18.25	18.33	18.26			
16	25QAM	1	0	18.70	18.62	18.56			
16	25QAM	1	37	18.64	18.62	18.63	17.4	2	
16	25QAM	1	74	18.70	18.64	18.49			
16	25QAM	36	0	18.59	18.52	18.46			
16	25QAM	36	20	18.63	18.61	18.44	17.4	2	
16	25QAM	36	39	18.61	18.60	18.48			
16	25QAM	75	0	18.57	18.55	18.47			
Channel									
Frequency (MHz)				1909	1905	1909	Tune-up (MHz)	MFR (dB)	
10	QPSK	1	0	18.54	18.55	18.34			
10	QPSK	1	26	18.42	18.57	18.43	19.4	0	
10	QPSK	1	49	18.48	18.54	18.44			
10	QPSK	25	0	18.54	18.60	18.46			
10	QPSK	25	12	18.62	18.71	18.52	19.4	0	
10	QPSK	25	25	18.60	18.70	18.60			
10	QPSK	50	0	18.62	18.71	18.48			
10	16QAM	1	0	18.59	18.69	18.56			
10	16QAM	1	26	18.67	18.70	18.57	19.4	0	
10	16QAM	1	49	18.58	18.71	18.57			
10	16QAM	25	0	18.59	18.69	18.50			
10	16QAM	25	12	18.64	18.76	18.52	19.4	0	
10	16QAM	25	25	18.61	18.71	18.56			
10	16QAM	50	0	18.63	18.73	18.46			
10	16QAM	1	0	18.63	18.68	18.67	19.4	0	
10	16QAM	1	26	18.77	18.71	18.77			
10	16QAM	1	49	18.77	18.67	18.71			
10	16QAM	25	0	18.25	18.26	18.13	19.4	0	
10	16QAM	25	12	18.27	18.39	18.18			
10	16QAM	25	25	18.24	18.38	18.16			
10	16QAM	50	0	18.30	18.34	18.16			
10	25QAM	1	0	18.75	18.62	18.58			
10	25QAM	1	26	18.60	18.58	18.59	17.4	2	
10	25QAM	1	49	18.66	18.60	18.50			
10	25QAM	25	0	18.55	18.49	18.42			
10	25QAM	25	12	18.59	18.57	18.49	17.4	2	
10	25QAM	25	25	18.57	18.58	18.47			
10	25QAM	50	0	18.53	18.51	18.43			
Channel									
Frequency (MHz)				1912.5	1912.5	1912.5	Tune-up (MHz)	MFR (dB)	
5	QPSK	1	0	18.47	18.48	18.31			
5	QPSK	1	12	18.38	18.50	18.38	19.4	0	
5	QPSK	1	24	18.41	18.47	18.37			
5	QPSK	12	0	18.54	18.56	18.39			
5	QPSK	12	7	18.55	18.64	18.45	19.4	0	
5	QPSK	12	13	18.53	18.63	18.53			
5	QPSK	24	0	18.55	18.66	18.41			
5	16QAM	1	0	18.52	18.62	18.49			
5	16QAM	1	12	18.60	18.63	18.48	19.4	0	
5	16QAM	1	24	18.51	18.62	18.50			
5	16QAM	12	0	18.52	18.62	18.43			
5	16QAM	12	7	18.57	18.69	18.49	19.4	0	
5	16QAM	12	13	18.54	18.64	18.49			
5	16QAM	24	0	18.56	18.66	18.39			
5	16QAM	1	0	18.78	18.81	18.68	19.4	0	
5	16QAM	1	12	18.70	18.84	18.70			
5	16QAM	1	24	18.70	18.80	18.64			
5	16QAM	12	0	18.58	18.69	18.66			
5	16QAM	12	7	18.20	18.32	18.11	19.4	0	
5	16QAM	12	13	18.17	18.31	18.16			
5	25QAM	1	0	18.59	18.57	18.50			
5	25QAM	1	0	18.83	18.70	18.58			
5	25QAM	1	12	18.68	18.66	18.67	17.4	2	
5	25QAM	1	24	18.74	18.68	18.54			
5	25QAM	12	0	18.63	18.57	18.50			
5	25QAM	12	7	18.67	18.65	18.48	17.4	2	
5	25QAM	12	13	18.62	18.64	18.52			
5	25QAM	25	0	18.61	18.59	18.51			
Channel									
Frequency (MHz)				1915	1915	1915	Tune-up (MHz)	MFR (dB)	
3	QPSK	1	0	18.58	18.59	18.42			
3	QPSK	1	8	18.49	18.61	18.47	19.4	0	
3	QPSK	1	14	18.52	18.64	18.48			
3	QPSK	3	0	18.65	18.63	18.50			
3	QPSK	3	4	18.66	18.76	18.56	19.4	0	
3	QPSK	3	7	18.64	18.74	18.54			
3	QPSK	15	0	18.66	18.75	18.52			
3	16QAM	1	0	18.63	18.73	18.50			
3	16QAM	1	8	18.71	18.76	18.60	19.4	0	
3	16QAM	1	14	18.62	18.77	18.61			
3	16QAM	3	0	18.63	18.73	18.54			
3	16QAM	3	4	18.68	18.83	18.64	19.4	0	
3	16QAM	3	7	18.65	18.75	18.50			
3	16QAM	15	0	18.67	18.77	18.56			
3	16QAM	1	0	18.87	18.70	18.71	19.4	0	
3	16QAM	1	8	18.81	18.75	18.81			
3	16QAM	1	14	18.81	18.71	18.76			
3	16QAM	3	0	18.29	18.30	18.17	19.4	0	
3	16QAM	3	4	18.31	18.43	18.22			
3	16QAM	3	7	18.28	18.42	18.27			
3	25QAM	1	0	18.78	18.60	18.20			
3	25QAM	1	8	18.63	18.61	18.62	17.4	2	
3	25QAM	1	14	18.60	18.60	18.44			
3	25QAM	3	0	18.58	18.52	18.45			
3	25QAM	3	4	18.62	18.60	18.43	17.4	2	
3	25QAM	3	7	18.60	18.60	18.43			
3	25QAM	15	0	18.56	18.54	18.46			
Channel									
Frequency (MHz)				1917.5	1917.5	1917.5	Tune-up (MHz)	MFR (dB)	
1.4	QPSK	1	0	18.50	18.51	18.34			
1.4	QPSK	1	3	18.41	18.53	18.38	19.4	0	
1.4	QPSK	1	6	18.44	18.56	18.40			
1.4	QPSK	3	0	18.57	18.57	18.42			
1.4	QPSK	3	1	18.58	18.67	18.48			
1.4	QPSK	3	3	18.56	18.56	18.46	19.4	0	
1.4									



Band 30									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Mode Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.11	21.10	21.10			
10	QPSK	1	25	21.23	21.23	21.23	22.1	0	
10	QPSK	1	49	21.12	21.12	21.12			
10	QPSK	25	0	20.78	20.78	20.78			
10	QPSK	25	12	20.72	20.72	20.72			21.6
10	QPSK	25	25	20.83	20.83	20.83			
10	QPSK	50	0	20.69	20.69	20.69			
10	16QAM	1	0	21.11	21.10	21.10			
10	16QAM	1	25	21.04	21.04	21.04	21.6	0.5	
10	16QAM	1	49	21.00	21.00	21.00			
10	16QAM	25	0	19.78	19.78	19.78			
10	16QAM	25	12	19.82	19.82	19.82			20.6
10	16QAM	25	25	19.73	19.73	19.73			
10	16QAM	50	0	19.72	19.72	19.72			
10	64QAM	1	0	19.86	19.86	19.86			20.6
10	64QAM	1	25	19.86	19.86	19.86			
10	64QAM	1	49	19.86	19.86	19.86			
10	64QAM	25	0	18.82	18.82	18.82			
10	64QAM	25	12	18.87	18.87	18.87			19.6
10	64QAM	25	25	18.77	18.77	18.77			
10	64QAM	50	0	18.76	18.76	18.76			
10	256QAM	1	0	16.46	16.46	16.46			
10	256QAM	1	25	16.32	16.32	16.32			17.6
10	256QAM	1	49	16.36	16.36	16.36			
10	256QAM	25	0	16.35	16.35	16.35			
10	256QAM	25	12	16.23	16.23	16.23			17.6
10	256QAM	25	25	16.28	16.28	16.28			
10	256QAM	50	0	16.36	16.36	16.36			
Channel									
Frequency (MHz)									
5	QPSK	1	0	20.93	20.93	20.93			
5	QPSK	1	12	21.05	21.00	20.90	22.1	0	
5	QPSK	1	24	21.06	20.96	20.91			
5	QPSK	12	0	20.65	20.65	20.65			
5	QPSK	12	7	20.59	20.63	20.58			21.6
5	QPSK	12	13	20.58	20.52	20.53			
5	QPSK	25	0	20.68	20.67	20.68			
5	16QAM	1	0	20.77	20.78	20.75			
5	16QAM	1	12	20.82	20.79	20.74	21.6	0.5	
5	16QAM	1	24	20.80	20.80	20.77			
5	16QAM	12	0	19.61	19.57	19.57			
5	16QAM	12	7	19.62	19.62	19.59			20.6
5	16QAM	12	13	19.64	19.64	19.62			
5	16QAM	25	0	19.60	19.62	19.55			
5	64QAM	1	0	19.64	19.72	19.73			20.6
5	64QAM	1	12	19.73	19.74	19.66			
5	64QAM	1	24	19.79	19.65	19.64			
5	64QAM	12	0	18.61	18.61	18.59			
5	64QAM	12	7	18.72	18.67	18.67			19.6
5	64QAM	12	13	18.68	18.58	18.56			
5	256QAM	1	0	16.80	16.80	16.80			
5	256QAM	1	12	16.49	16.57	16.44			17.6
5	256QAM	1	24	16.40	16.60	16.54			
5	256QAM	12	0	16.31	16.34	16.29			
5	256QAM	12	7	16.49	16.52	16.37			17.6
5	256QAM	12	13	16.37	16.39	16.30			
5	256QAM	25	0	16.32	16.38	16.31			

Band 66									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Mode Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	0	19.07	19.05	18.91			
25	QPSK	1	49	18.91	19.01	18.91	19.9	0	
25	QPSK	1	99	18.82	18.89	18.80			
25	QPSK	25	0	18.90	18.90	18.90			
25	QPSK	50	24	19.04	19.16	18.95			19.9
25	QPSK	50	50	18.90	18.90	18.70			
25	QPSK	100	0	19.00	19.00	18.90			
25	16QAM	1	0	19.08	19.06	18.94			
25	16QAM	1	49	19.00	18.93	18.88	19.9	0	
25	16QAM	1	99	18.96	18.96	18.90			
25	16QAM	25	0	19.04	18.96	18.90			
25	16QAM	50	24	19.02	18.99	18.89			19.9
25	16QAM	50	50	18.92	18.92	18.90			
25	16QAM	100	0	19.00	18.93	18.85			
25	64QAM	1	0	19.03	18.99	18.82			19.9
25	64QAM	1	49	19.00	18.93	18.89			
25	64QAM	1	99	18.97	18.14	18.92			
25	64QAM	25	0	18.98	18.93	18.23			
25	64QAM	50	24	18.98	18.92	18.23			19.9
25	64QAM	50	50	18.20	18.23	18.22			
25	64QAM	100	0	18.33	18.26	18.21			
25	256QAM	1	0	17.13	17.00	16.96			
25	256QAM	1	49	17.01	16.84	16.73			17.9
25	256QAM	1	99	16.99	16.76	16.68			
25	256QAM	25	0	16.92	16.75	16.66			
25	256QAM	50	24	16.99	16.72	16.76			17.9
25	256QAM	50	50	16.84	16.69	16.66			
25	256QAM	100	0	16.99	16.68	16.62			17.9
Channel									
Frequency (MHz)									
15	QPSK	1	0	19.03	19.03	18.98			
15	QPSK	1	37	18.89	18.82	18.82	19.9	0	
15	QPSK	1	74	18.84	18.74	18.78			
15	QPSK	15	0	19.08	19.08	18.96			
15	QPSK	30	20	19.09	18.99	18.93			19.9
15	QPSK	30	39	18.98	18.92	18.86			
15	QPSK	30	59	19.05	18.95	18.94			
15	16QAM	1	0	19.03	18.93	18.94			
15	16QAM	1	37	19.00	18.92	18.88	19.9	0	
15	16QAM	1	74	19.13	18.95	18.96			
15	16QAM	30	0	19.05	18.97	18.85			
15	16QAM	30	20	19.05	18.98	18.96			19.9
15	16QAM	30	39	18.92	18.93	18.90			
15	16QAM	30	59	19.05	18.96	18.85			
15	64QAM	1	0	19.18	19.09	19.06			
15	64QAM	1	37	19.05	18.92	18.90	19.9	0	
15	64QAM	1	74	19.04	19.01	18.93			
15	64QAM	30	0	18.40	18.35	18.22			
15	64QAM	30	20	18.38	18.20	18.20			19.9
15	64QAM	30	39	18.34	18.28	18.23			
15	64QAM	30	59	18.34	18.27	18.17			
15	256QAM	1	0	17.17	17.06	16.98			
15	256QAM	1	37	17.05	16.88	16.81			17.9
15	256QAM	1	74	17.03	16.80	17.02			
15	256QAM	30	0	16.96	16.79	16.70			
15	256QAM	30	20	17.03	16.75	16.70			17.9
15	256QAM	30	39	16.85	16.73	16.64			
15	256QAM	30	59	16.93	16.72	16.64			17.9
Channel									
Frequency (MHz)									
10	QPSK	1	0	18.97	18.94	18.72			
10	QPSK	1	25	18.86	18.76	18.77	19.9	0	
10	QPSK	1	49	18.81	18.74	18.67			
10	QPSK	25	0	19.02	19.04	18.84			
10	QPSK	25	12	19.07	18.91	18.84			19.9
10	QPSK	25	25	19.01	18.91	18.86			
10	QPSK	50	0	19.06	19.04	18.84			
10	16QAM	1	0	19.16	19.01	18.96			
10	16QAM	1	25	19.06	19.00	18.92	19.9	0	
10	16QAM	1	49	19.01	18.94	18.91			
10	16QAM	25	0	19.08	18.96	18.87			
10	16QAM	25	12	19.06	18.97	18.86			19.9
10	16QAM	25	25	19.03	18.90	18.87			
10	16QAM	50	0	19.05	18.93	18.83			
10	64QAM	1	0	19.07	18.93	18.86			19.9
10	64QAM	1	25	19.02	19.13	19.07			
10	64QAM	1	49	19.10	19.08	19.01			
10	64QAM	25	0	18.98	18.52	18.20			
10	64QAM	25	12	18.41	18.30	18.20			19.9
10	64QAM	25	25	18.36	18.26	18.20			
10	256QAM	1	0	16.92	16.29				



Band 48 (3.5G Band)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	20.75	20.79	20.75	20.74	21.5	0
20	QPSK	1	49	20.67	20.55	20.70	20.76		
20	QPSK	1	99	20.62	20.62	20.71	20.78	21.5	0
20	QPSK	50	0	20.70	20.78	20.73	20.71		
20	QPSK	50	24	20.66	20.73	20.68	20.69	21.5	0
20	QPSK	50	50	20.60	20.70	20.65	20.61		
20	QPSK	100	0	20.69	20.76	20.66	20.75	21.5	0
20	16QAM	1	0	20.76	20.56	20.51	20.70		
20	16QAM	1	49	20.75	20.59	20.54	20.66	21.5	0
20	16QAM	1	99	20.68	20.69	20.64	20.59		
20	16QAM	50	0	20.76	20.76	20.74	20.77	21.5	0
20	16QAM	50	24	20.71	20.76	20.71	20.72		
20	16QAM	50	50	20.76	20.78	20.73	20.76	21.5	0
20	16QAM	100	0	20.72	20.74	20.69	20.73		
20	64QAM	1	0	20.68	20.40	20.47	20.71	21.5	0
20	64QAM	1	49	20.59	20.45	20.52	20.62		
20	64QAM	1	99	20.47	20.46	20.53	20.50	21.5	0
20	64QAM	50	0	20.75	20.78	20.75	20.76		
20	64QAM	50	24	20.73	20.75	20.72	20.76	21.5	0
20	64QAM	50	50	20.76	20.76	20.73	20.71		
20	64QAM	100	0	20.76	20.77	20.74	20.78	19.5	2
20	256QAM	1	0	18.44	18.17	18.23	18.38		
20	256QAM	1	49	18.31	18.18	18.24	18.25	19.5	2
20	256QAM	1	99	18.25	18.25	18.31	18.19		
20	256QAM	50	0	18.72	18.51	18.57	18.66	19.5	2
20	256QAM	50	24	18.68	18.55	18.61	18.62		
20	256QAM	50	50	18.59	18.52	18.58	18.53	21.5	0
20	256QAM	100	0	18.64	18.47	18.53	18.58		
Channel				55315	55820	56100	56665		
Frequency (MHz)				3567.5	3608	3642	3692.5		
15	QPSK	1	0	20.64	20.70	20.71	20.67	21.5	0
15	QPSK	1	37	20.66	20.65	20.47	20.59		
15	QPSK	1	74	20.71	20.66	20.54	20.44	21.5	0
15	QPSK	36	0	20.67	20.68	20.70	20.62		
15	QPSK	36	20	20.71	20.63	20.65	20.68	21.5	0
15	QPSK	36	39	20.65	20.60	20.62	20.62		
15	QPSK	75	0	20.72	20.63	20.68	20.61	21.5	0
15	16QAM	1	0	20.69	20.43	20.48	20.68		
15	16QAM	1	37	20.63	20.46	20.51	20.67	21.5	0
15	16QAM	1	74	20.67	20.56	20.61	20.60		
15	16QAM	36	0	20.65	20.66	20.68	20.68	21.5	0
15	16QAM	36	20	20.62	20.61	20.66	20.63		
15	16QAM	36	39	20.70	20.63	20.68	20.68	21.5	0
15	16QAM	75	0	20.68	20.64	20.64	20.64		
15	64QAM	1	0	20.57	20.42	20.30	20.60	21.5	0
15	64QAM	1	37	20.64	20.47	20.35	20.51		
15	64QAM	1	74	20.61	20.50	20.43	20.44	21.5	0
15	64QAM	36	0	20.67	20.67	20.75	20.75		
15	64QAM	36	20	20.68	20.64	20.72	20.70	21.5	0
15	64QAM	36	39	20.70	20.65	20.73	20.73		
15	64QAM	75	0	20.61	20.66	20.74	20.73	19.5	2
15	256QAM	1	0	18.27	18.15	18.14	18.41		
15	256QAM	1	37	18.30	18.16	18.15	18.28	19.5	2
15	256QAM	1	74	18.24	18.23	18.22	18.22		
15	256QAM	36	0	18.71	18.49	18.46	18.67	19.5	2
15	256QAM	36	20	18.72	18.58	18.50	18.63		
15	256QAM	36	39	18.65	18.55	18.47	18.54	21.5	0
15	256QAM	75	0	18.70	18.50	18.44	18.61		
Channel				55290	55815	55820	56690		
Frequency (MHz)				3555	3607.5	3608	3695		
10	QPSK	1	0	20.68	20.63	20.57	20.63	21.5	0
10	QPSK	1	25	20.63	20.58	20.59	20.58		
10	QPSK	1	49	20.64	20.59	20.64	20.59	21.5	0
10	QPSK	25	0	20.66	20.61	20.60	20.57		
10	QPSK	25	12	20.61	20.56	20.64	20.52	21.5	0
10	QPSK	25	25	20.58	20.53	20.58	20.49		
10	QPSK	50	0	20.59	20.56	20.65	20.52	21.5	0
10	16QAM	1	0	20.51	20.43	20.69	20.39		
10	16QAM	1	25	20.50	20.42	20.59	20.46	21.5	0
10	16QAM	1	49	20.60	20.52	20.63	20.56		
10	16QAM	25	0	20.70	20.62	20.54	20.59	21.5	0
10	16QAM	25	12	20.67	20.57	20.51	20.54		
10	16QAM	25	25	20.69	20.59	20.59	20.56	21.5	0
10	16QAM	50	0	20.65	20.60	20.57	20.57		
10	64QAM	1	0	20.43	20.38	20.46	20.35	21.5	0
10	64QAM	1	25	20.52	20.47	20.64	20.47		
10	64QAM	1	49	20.46	20.43	20.61	20.50	21.5	0
10	64QAM	25	0	20.66	20.60	20.67	20.67		
10	64QAM	25	12	20.65	20.57	20.68	20.64	21.5	0
10	64QAM	25	25	20.66	20.58	20.66	20.65		
10	64QAM	50	0	20.63	20.55	20.57	20.66	19.5	2
10	256QAM	1	0	18.12	18.04	18.23	18.15		
10	256QAM	1	25	18.13	18.05	18.26	18.16	19.5	2
10	256QAM	1	49	18.20	18.12	18.20	18.23		
10	256QAM	25	0	18.46	18.38	18.71	18.49	21.5	0
10	256QAM	25	12	18.50	18.47	18.65	18.51		
10	256QAM	25	25	18.54	18.51	18.58	18.48	21.5	0
10	256QAM	50	0	18.53	18.50	18.63	18.43		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3562.5	3607	3643	3697.5		
5	QPSK	1	0	20.55	20.59	20.67	20.55	21.5	0
5	QPSK	1	12	20.57	20.35	20.43	20.47		
5	QPSK	1	24	20.59	20.42	20.50	20.32	21.5	0
5	QPSK	12	0	20.52	20.58	20.66	20.50		
5	QPSK	12	7	20.54	20.50	20.61	20.56	21.5	0
5	QPSK	12	13	20.49	20.47	20.58	20.50		
5	QPSK	25	0	20.53	20.53	20.64	20.49	21.5	0
5	16QAM	1	0	20.55	20.33	20.44	20.56		
5	16QAM	1	12	20.50	20.39	20.47	20.55	21.5	0
5	16QAM	1	24	20.43	20.49	20.57	20.48		
5	16QAM	12	0	20.61	20.56	20.61	20.53	21.5	0
5	16QAM	12	7	20.68	20.66	20.73	20.60		
5	16QAM	12	13	20.69	20.65	20.75	20.65	21.5	0
5	16QAM	25	0	20.66	20.61	20.71	20.61		
5	64QAM	1	0	20.64	20.27	20.25	20.45	21.5	0
5	64QAM	1	12	20.47	20.20	20.33	20.39		
5	64QAM	1	24	20.35	20.28	20.34	20.32	21.5	0
5	64QAM	12	0	20.61	20.60	20.66	20.63		
5	64QAM	12	7	20.73	20.69	20.63	20.58	21.5	0
5	64QAM	12	13	20.71	20.73	20.64	20.61		
5	64QAM	25	0	20.62	20.62	20.77	20.73	19.5	2
5	256QAM	1	0	18.22	18.02	18.17	18.41		
5	256QAM	1	12	18.09	18.03	18.15	18.25	19.5	2
5	256QAM	1	24	18.03	18.10	18.22	18.19		
5	256QAM	12	0	18.47	18.31	18.48	18.64	19.5	2
5	256QAM	12	7	18.43	18.35	18.52	18.60		
5	256QAM	12	13	18.34	18.32	18.52	18.54	21.5	0
5	256QAM	25	0	18.43	18.29	18.47	18.61		



Reduced Power Level 2 for Head for UAT

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	924.2	936.4	948.8		924.2	936.4	948.8	
GSM 1 Tx slot	29.18	29.30	29.22	30.00	20.15	20.30	20.22	21.00
GPRS 1 Tx slot	29.20	29.32	29.20	30.00	20.20	20.32	20.20	21.00
GPRS 2 Tx slots	26.58	26.71	26.61	27.00	20.58	20.71	20.61	21.00
GPRS 3 Tx slots	24.61	24.46	24.50	25.00	20.35	20.20	20.24	20.74
GPRS 4 Tx slots	23.00	23.18	23.10	24.10	20.00	20.18	20.10	21.10
EDGE 1 Tx slot	24.97	24.35	24.82	26.00	15.97	15.35	15.82	17.00
EDGE 2 Tx slots	23.08	23.13	22.91	24.00	17.08	17.13	16.91	18.00
EDGE 3 Tx slots	22.26	21.92	22.34	23.00	18.00	17.66	18.08	18.74
EDGE 4 Tx slots	21.55	21.23	21.59	22.50	18.55	18.23	18.59	19.50

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1852.2	1930	1999.8		1852.2	1930	1999.8	
GSM 1 Tx slot	26.44	26.50	26.49	27.30	17.44	17.50	17.49	18.30
GPRS 1 Tx slot	26.49	26.52	26.53	27.30	17.49	17.52	17.53	18.30
GPRS 2 Tx slots	24.31	24.32	24.14	24.80	18.31	18.32	18.14	18.80
GPRS 3 Tx slots	22.34	22.16	21.80	22.80	18.08	17.90	17.54	18.54
GPRS 4 Tx slots	20.82	20.50	20.33	21.30	17.82	17.50	17.33	18.30
EDGE 1 Tx slot	22.39	22.72	22.96	23.40	13.39	13.72	13.96	14.40
EDGE 2 Tx slots	20.63	20.87	21.17	21.80	14.63	14.87	15.17	15.80
EDGE 3 Tx slots	19.68	19.92	20.33	20.80	15.42	15.66	16.07	16.54
EDGE 4 Tx slots	18.28	18.66	19.02	19.80	15.28	15.66	16.02	16.80

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4192	4192	4233		
TX Channel	9262	9400	9538		1312	1413	1513		4192	4192	4233		
Rx Channel	9662	9890	9938		1537	1638	1738		4357	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		4264.4	436.4	446.6		
3GPP Rel 99	AMR 12.2Kbps	17.77	17.89	17.74	18.50	16.93	17.07	16.90	17.80	18.96	18.95	19.00	19.90
3GPP Rel 99	RMC 12.2Kbps	17.85	17.91	17.81	18.50	16.94	17.08	16.89	17.80	18.98	18.96	19.01	19.90
3GPP Rel 6	HSDPA Subtest-1	17.12	17.25	17.04	17.50	16.24	16.38	16.21	16.80	18.17	18.17	18.23	18.90
3GPP Rel 6	HSDPA Subtest-2	17.11	17.28	17.06	17.50	16.22	16.36	16.20	16.80	18.18	18.14	18.25	18.90
3GPP Rel 6	HSDPA Subtest-3	16.60	16.76	16.57	17.00	15.75	15.84	15.71	16.30	17.69	17.68	17.76	18.40
3GPP Rel 6	HSDPA Subtest-4	16.62	16.80	16.57	17.00	15.75	15.86	15.71	16.30	17.69	17.69	17.73	18.40
3GPP Rel 8	DC-HSDPA Subtest-1	17.11	17.24	17.03	17.50	16.23	16.37	16.20	16.80	18.16	18.16	18.22	18.90
3GPP Rel 8	DC-HSDPA Subtest-2	17.09	17.26	17.04	17.50	16.20	16.34	16.18	16.80	18.16	18.11	18.23	18.90
3GPP Rel 8	DC-HSDPA Subtest-3	16.59	16.75	16.56	17.00	15.73	15.82	15.69	16.30	17.67	17.66	17.74	18.40
3GPP Rel 8	DC-HSDPA Subtest-4	16.61	16.79	16.56	17.00	15.74	15.85	15.70	16.30	17.67	17.67	17.71	18.40
3GPP Rel 8	HSUPA Subtest-1	17.19	17.26	17.12	17.50	16.36	16.41	16.22	16.80	18.18	18.19	18.28	18.90
3GPP Rel 6	HSUPA Subtest-2	15.15	15.21	15.14	15.50	14.30	14.33	14.24	14.80	16.15	16.22	16.24	16.90
3GPP Rel 6	HSUPA Subtest-3	15.81	15.85	15.84	16.50	14.81	14.90	14.67	15.80	17.17	17.19	17.28	17.90
3GPP Rel 6	HSUPA Subtest-4	14.99	15.05	14.96	15.50	14.33	14.31	14.15	14.80	16.19	16.21	16.21	16.90
3GPP Rel 6	HSUPA Subtest-5	17.20	17.30	17.20	17.50	16.30	16.40	16.30	16.80	18.20	18.20	18.30	18.90
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	14.63	14.70	14.47	15.00	13.91	14.00	13.95	14.30	15.78	15.81	15.70	16.40

Band	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
	1013	384	777		25	600	1175		476	580	684	
TX Channel	1013	384	777		25	600	1175		476	580	684	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
RC1 SC85	19.76	19.83	19.74	20.70	17.25	17.33	17.23	18.70	19.21	19.27	19.26	20.30
RC3 SC85	19.74	19.80	19.72	20.70	17.27	17.35	17.24	18.70	19.18	19.22	19.21	20.30
RC3 SC32 (F-SCH)	19.71	19.78	19.73	20.70	17.26	17.34	17.24	18.70	19.18	19.19	19.20	20.30
RC3 SC32 (S-SCH)	19.74	19.82	19.71	20.70	17.15	17.28	17.16	18.70	19.07	19.17	19.16	20.30
RTAP 183.8Kbps	19.51	19.56	19.58	20.70	17.32	17.34	17.27	18.70	18.96	19.03	19.00	20.30
RETAP 4096Bps	19.49	19.52	19.50	20.70	17.28	17.33	17.30	18.70	18.95	19.01	18.98	20.30



Band 7 (2600MHz Band) Part 27										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	16.06	16.34	16.15				
20	QPSK	1	49	16.41	16.33	16.27	17.1	0		
20	QPSK	1	99	16.18	16.33	16.27				
20	QPSK	50	0	16.02	16.33	16.09				
20	QPSK	50	24	16.02	16.33	16.09				
20	QPSK	50	50	16.15	16.44	16.19	17.1	0		
20	QPSK	100	0	16.02	16.44	16.38				
20	16QAM	1	0	16.21	16.36	16.42				
20	16QAM	1	49	16.31	16.35	16.24	17.1	0		
20	16QAM	1	99	16.22	16.43	16.23				
20	16QAM	50	0	16.06	16.18	16.19				
20	16QAM	50	24	16.09	16.14	16.24	17.1	0		
20	16QAM	50	50	16.06	16.24	16.15				
20	16QAM	100	0	16.09	16.39	16.39				
20	16QAM	1	0	16.15	16.44	16.44				
20	64QAM	1	49	16.05	16.44	16.42	17.1	0		
20	64QAM	1	99	16.17	16.49	16.47				
20	64QAM	50	0	15.10	16.49	16.44				
20	64QAM	50	24	15.02	16.54	16.46	16.1	1		
20	64QAM	50	50	15.09	16.59	16.48				
20	64QAM	100	0	15.18	16.47	16.46				
20	256QAM	1	49	15.38	16.66	16.51	16.1	1		
20	256QAM	1	99	15.47	16.60	16.42				
20	256QAM	50	24	15.29	16.51	16.42	16.1	1		
20	256QAM	50	50	15.30	16.46	16.39				
20	256QAM	100	0	15.05	16.60	16.59				
Channel										
Frequency (MHz)										
15	QPSK	1	0	15.98	16.42	16.28				
15	QPSK	1	74	16.05	16.35	16.28	17.1	0		
15	QPSK	1	149	16.05	16.35	16.28				
15	QPSK	36	0	16.11	16.37	16.32				
15	QPSK	36	20	16.24	16.47	16.43				
15	QPSK	36	39	16.19	16.51	16.39	17.1	0		
15	QPSK	75	0	16.28	16.42	16.31				
15	16QAM	1	0	16.40	16.39	16.34				
15	16QAM	1	37	16.02	16.59	16.39	17.1	0		
15	16QAM	1	74	16.07	16.51	16.45				
15	16QAM	36	0	16.03	16.27	16.24				
15	16QAM	36	20	16.03	16.31	16.30	17.1	0		
15	16QAM	36	39	16.07	16.47	16.46				
15	16QAM	75	0	16.08	16.25	16.13				
15	64QAM	1	0	16.34	16.28	16.27	17.1	0		
15	64QAM	1	37	16.23	16.47	16.45				
15	64QAM	1	74	16.24	16.42	16.44				
15	64QAM	36	0	16.08	16.51	16.43				
15	64QAM	36	39	16.05	16.59	16.52	16.1	1		
15	64QAM	75	0	16.14	16.60	16.46				
15	256QAM	1	37	15.93	16.59	16.52				
15	256QAM	1	74	15.31	16.59	16.44	16.1	1		
15	256QAM	1	149	15.40	16.53	16.39				
15	256QAM	36	0	16.02	16.44	16.32				
15	256QAM	36	20	16.23	16.39	16.35	16.1	1		
15	256QAM	75	0	15.24	16.42	16.39				
Channel										
Frequency (MHz)										
10	QPSK	1	0	16.00	16.45	16.31				
10	QPSK	1	25	16.03	16.45	16.31	17.1	0		
10	QPSK	1	49	16.07	16.27	16.27				
10	QPSK	25	0	16.05	16.39	16.32				
10	QPSK	25	12	16.18	16.45	16.37	17.1	0		
10	QPSK	25	25	16.18	16.52	16.38				
10	QPSK	50	0	16.05	16.41	16.34				
10	16QAM	1	0	16.20	16.23	16.31				
10	16QAM	1	25	16.45	16.39	16.47	17.1	0		
10	16QAM	1	49	16.06	16.37	16.27				
10	16QAM	25	0	16.07	16.24	16.17				
10	16QAM	25	12	16.02	16.23	16.17	17.1	0		
10	16QAM	25	25	16.09	16.37	16.28				
10	16QAM	50	0	16.08	16.27	16.13				
10	64QAM	1	0	16.38	16.41	16.26	17.1	0		
10	64QAM	1	25	16.45	16.36	16.43				
10	64QAM	1	49	16.51	16.38	16.43				
10	64QAM	25	0	16.05	16.45	16.43				
10	64QAM	25	12	16.08	16.59	16.47	16.1	1		
10	64QAM	50	0	16.10	16.53	16.42				
10	256QAM	1	0	15.31	16.34	16.47				
10	256QAM	1	25	15.27	16.55	16.40	16.1	1		
10	256QAM	1	49	15.36	16.49	16.31				
10	256QAM	25	0	15.09	16.33	16.36				
10	256QAM	25	12	15.18	16.40	16.31	16.1	1		
10	256QAM	25	25	15.19	16.35	16.26				
10	256QAM	50	0	15.20	16.38	16.28				
Channel										
Frequency (MHz)										
5	QPSK	1	0	16.01	16.13	16.11				
5	QPSK	1	12	16.17	16.31	16.12	17.1	0		
5	QPSK	1	24	16.05	16.33	16.17				
5	QPSK	12	0	16.11	16.40	16.31				
5	QPSK	12	7	16.08	16.46	16.33	17.1	0		
5	QPSK	12	13	16.14	16.50	16.38				
5	16QAM	1	0	16.09	16.15	16.39				
5	16QAM	1	12	16.05	16.39	16.35	17.1	0		
5	16QAM	1	12	16.08	16.31	16.17				
5	16QAM	12	0	16.03	16.27	16.23				
5	16QAM	12	7	16.05	16.29	16.17	17.1	0		
5	16QAM	12	13	16.03	16.27	16.23				
5	16QAM	25	0	16.03	16.18	16.20				
5	64QAM	1	0	16.03	16.38	16.28	17.1	0		
5	64QAM	1	12	16.08	16.33	16.17				
5	64QAM	1	24	16.05	16.45	16.23				
5	64QAM	12	0	15.12	16.53	16.46				
5	64QAM	12	7	15.09	16.53	16.44	16.1	1		
5	64QAM	12	13	15.10	16.59	16.46				
5	64QAM	25	0	15.05	16.49	16.38				
5	256QAM	1	0	15.06	16.49	16.50				
5	256QAM	1	12	15.42	16.70	16.59	16.1	1		
5	256QAM	1	24	15.31	16.64	16.46				
5	256QAM	12	0	15.24	16.48	16.51				
5	256QAM	12	7	15.33	16.55	16.40	16.1	1		
5	256QAM	12	13	15.34	16.50	16.43				
5	256QAM	25	0	15.35	16.53	16.41				

Band 12 (700MHz Low Band) Part 27F(on channel reserved)										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.06	20.90	20.92				
10	16QAM	1	25	20.71	20.79	20.78	21.4	0		
10	QPSK	1	49	20.81	20.79	20.88				
10	QPSK	25	0	20.73	20.75	20.80				
10	QPSK	25	12	20.83	20.77	20.81	21.4	0		
10	QPSK	25	25	20.83	20.87	20.88				
10	QPSK	50	0	20.84	20.80	20.80				
10	16QAM	1	0	20.77	20.74	20.76				
10	16QAM	1	25	20.78	20.83	20.81	21.4	0		
10	16QAM	1	49	20.82	20.87	20.87				
10	16QAM	25	0	20.71	20.79	20.78				
10	16QAM	25	12	20.80	20.78	20.79	21.4	0		
10	16QAM	25	25	20.84	20.89	20.85				
10	16QAM	50	0	20.81	20.75	20.78				
10	64QAM	1	0	20.82	20.81	20.80				
10	64QAM	1	25	20.92	20.84	20.70	21.4	0		
10	64QAM	1	49	20.71	20.79	20.84				
10	64QAM	25	0	20.81	20.85	20.10				



Band 17 (700MHz Band) Part 27H(only on channel required)										
RV (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Time-up (min)	MPE (dB)		
Channel										
700 710 711										
19	QPSK	1	0	20.58	20.58	20.60				
19	QPSK	1	49	20.73	20.56	20.68	21.4	0		
19	QPSK	25	0	20.72	20.70	20.71				
19	QPSK	25	12	20.83	20.76	20.79				
19	QPSK	25	25	20.87	20.84	20.83	21.4	0		
19	QPSK	50	0	20.84	20.75	20.73				
19	16QAM	1	0	20.85	20.84	20.84				
19	16QAM	1	25	20.70	20.74	20.74	21.4	0		
19	16QAM	1	49	20.83	20.78	20.73				
19	16QAM	0	0	20.74	20.71	20.68				
19	16QAM	25	12	20.88	20.77	20.73	21.4	0		
19	16QAM	25	25	20.82	20.89	20.91				
19	16QAM	50	0	20.85	20.77	20.74				
19	64QAM	1	0	20.84	20.77	20.82				
19	64QAM	1	25	20.75	20.80	20.80	21.4	0		
19	64QAM	1	49	20.84	20.71	20.80				
19	64QAM	25	0	20.82	20.81	20.82				
19	64QAM	25	12	20.80	20.10	20.12	21.4	0		
19	64QAM	25	25	20.83	20.18	20.18				
19	64QAM	50	0	20.18	20.02	20.08				
19	256QAM	1	0	17.88	18.00	17.94				
19	256QAM	1	25	18.08	17.98	18.12	19.3	2.1		
19	256QAM	1	49	18.00	18.19	18.08				
19	256QAM	1	25	17.85	18.01	18.05				
19	256QAM	25	12	18.01	18.04	18.08	19.3	2.1		
19	256QAM	25	25	18.05	18.15	18.04				
19	256QAM	50	0	17.87	18.06	18.02				
Channel										
22755 23700 23825										
5	QPSK	1	0	20.64	20.81	20.85				
5	QPSK	1	12	20.72	20.70	20.73	21.4	0		
5	QPSK	1	24	20.79	20.75	20.78				
5	QPSK	12	0	20.72	20.72	20.73				
5	QPSK	12	7	20.83	20.76	20.79	21.4	0		
5	QPSK	12	13	20.83	20.80	20.82				
5	16QAM	1	0	20.79	20.74	20.79				
5	16QAM	1	0	20.86	20.89	20.82				
5	16QAM	1	12	20.82	20.85	20.84	21.4	0		
5	16QAM	12	0	18.08	18.00	18.08				
5	16QAM	12	7	20.84	20.80	20.81	21.4	0		
5	16QAM	12	7	20.19	20.15	20.18				
5	16QAM	25	0	20.81	20.78	20.84				
5	64QAM	1	0	20.87	20.84	20.88	21.4	0		
5	64QAM	1	0	18.08	18.00	18.08				
5	64QAM	1	24	20.75	20.91	20.94				
5	64QAM	12	0	20.10	20.12	20.12	21.4	0		
5	64QAM	12	7	20.19	20.15	20.18				
5	64QAM	25	0	20.81	20.78	20.84				
5	256QAM	1	0	18.08	18.00	18.08				
5	256QAM	1	12	18.10	18.21	18.10	19.3	2.1		
5	256QAM	1	24	18.16	18.24	18.12				
5	256QAM	12	0	18.02	18.05	18.08				
5	256QAM	12	7	18.07	18.10	18.02	19.3	2.1		
5	256QAM	12	13	18.09	18.04	18.07				
5	256QAM	25	0	18.05	18.07	18.03				

Band 25 (1900MHz Band) Part 24E										
RV (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Time-up (min)	MPE (dB)		
Channel										
1800 1880 1900										
20	QPSK	1	0	17.13	17.13	17.08				
20	QPSK	1	49	17.07	17.14	17.04	17.9	0		
20	QPSK	1	99	16.95	17.02	16.91				
20	QPSK	50	0	17.11	17.29	17.03				
20	QPSK	50	24	17.07	17.25	17.00	17.9	0		
20	QPSK	50	50	16.90	16.98	16.81				
20	QPSK	100	0	17.13	17.15	17.11				
20	16QAM	1	0	17.14	17.11	17.03				
20	16QAM	1	49	17.15	17.21	17.13	17.9	0		
20	16QAM	1	99	17.04	17.22	17.00				
20	16QAM	50	0	16.93	16.99	16.89	17.9	0		
20	16QAM	50	24	16.95	17.03	16.88				
20	16QAM	100	0	16.94	16.93	16.89				
20	64QAM	1	0	17.01	17.18	17.01				
20	64QAM	1	49	17.01	17.08	16.99	17.9	0		
20	64QAM	1	99	16.90	17.06	16.93				
20	64QAM	50	0	16.93	17.00	16.90				
20	64QAM	50	24	16.99	17.08	16.89	17.9	0		
20	64QAM	100	0	16.98	17.05	16.92				
20	64QAM	100	0	16.98	16.99	16.88				
20	256QAM	1	0	17.06	16.94	16.98				
20	256QAM	1	49	17.04	16.81	16.89	17.4	0.5		
20	256QAM	1	99	16.91	17.02	16.94				
20	256QAM	50	0	16.89	16.98	16.79				
20	256QAM	50	24	16.95	16.98	16.77	17.4	0.5		
20	256QAM	50	50	16.92	16.89	16.75				
20	256QAM	100	0	16.90	16.88	16.76				
Channel										
26115 26340 26515										
18	QPSK	1	0	17.08	17.11	17.05				
18	QPSK	1	49	17.01	17.08	17.01	17.9	0		
18	QPSK	1	74	17.00	17.08	16.97				
18	QPSK	36	0	17.09	17.18	17.10				
18	QPSK	36	18	17.18	17.24	17.23	17.9	0		
18	QPSK	36	39	17.07	17.18	17.08				
18	16QAM	75	0	17.14	17.23	17.14				
18	16QAM	1	0	17.15	17.28	17.15				
18	16QAM	1	37	17.13	17.23	17.12	17.9	0		
18	16QAM	1	74	17.06	17.25	17.04				
18	16QAM	36	0	16.94	16.98	16.84				
18	16QAM	36	20	16.94	17.05	16.82	17.9	0		
18	16QAM	36	39	16.96	16.97	16.79				
18	16QAM	75	0	16.98	17.04	16.88				
18	64QAM	1	0	17.00	17.11	17.04	17.9	0		
18	64QAM	1	49	16.98	17.07	16.93				
18	64QAM	1	74	16.98	17.03	16.91				
18	64QAM	36	0	16.91	17.03	16.89	17.9	0		
18	64QAM	36	18	16.98	17.08	16.93				
18	64QAM	36	39	16.90	17.00	16.92	17.9	0		
18	64QAM	75	0	16.98	17.07	16.84				
18	64QAM	75	0	17.06	16.98	16.94				
18	256QAM	1	0	17.00	16.77	16.85	17.4	0.5		
18	256QAM	1	37	17.00	16.77	16.85				
18	256QAM	1	74	16.97	16.88	16.90				
18	256QAM	36	0	16.76	16.84	16.73	17.4	0.5		
18	256QAM	36	20	16.91	16.94	16.73				
18	256QAM	36	39	16.88	16.85	16.71	17.4	0.5		
18	256QAM	75	0	16.88	16.88	16.71				
Channel										
26565 26340 26565										
10	QPSK	1	0	17.07	17.07	17.00				
10	QPSK	1	25	17.02	17.08	16.92	17.9	0		
10	QPSK	1	49	16.98	17.09	16.95				
10	QPSK	25	0	17.07	17.07	17.00				
10	QPSK	25	12	17.15	17.23	17.04	17.9	0		
10	QPSK	25	25	17.16	17.23	17.09				
10	16QAM	1	0	17.08	17.08	17.00				
10	16QAM	1	0	17.20	17.24	17.14	17.9	0		
10	16QAM	1	25	17.16	17.20	17.13				
10	16QAM	1	49	17.05	17.25	17.15				
10	16QAM	25	0	16.94	16.93	16.73	17.9	0		
10	16QAM	25	12	16.94	17.05	16.81				
10	16QAM	25	25	16.90	16.98	16.79				
10	16QAM	50	0	16.92	17.00	16.83				



Band 30										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Time-up Int. (min)	MPR (dB)		
Channel										
2310										
10	QPSK	1	0	21.11			22.1	0		
10	QPSK	1	25	21.12						
10	QPSK	1	49	21.12						
10	QPSK	25	0	20.78			21.6	0.5		
10	QPSK	25	12	20.78						
10	QPSK	25	25	20.83						
10	QPSK	50	0	20.69			21.6	0.5		
10	16QAM	1	0	21.00						
10	16QAM	1	25	21.04						
10	16QAM	1	49	21.00						
10	16QAM	25	0	19.76						
10	16QAM	25	12	19.82			20.6	1.5		
10	16QAM	25	25	19.73						
10	16QAM	50	0	19.72						
10	16QAM	1	0	19.85						
10	16QAM	1	25	19.89			20.6	1.5		
10	16QAM	1	49	19.86						
10	16QAM	25	0	18.82						
10	16QAM	25	12	18.87			19.6	2.5		
10	16QAM	25	25	18.77						
10	16QAM	50	0	18.76						
10	256QAM	1	0	18.46			17.6	4.5		
10	256QAM	1	25	18.37						
10	256QAM	1	49	18.37						
10	256QAM	25	0	18.35			17.6	4.5		
10	256QAM	25	12	18.23						
10	256QAM	25	25	18.47						
10	256QAM	50	0	18.29						
Channel										
2785-2790-2795										
5	QPSK	1	0	20.93	20.97	20.96	22.1	0		
5	QPSK	1	12	21.05	21.00	20.96				
5	QPSK	1	24	21.06	20.96	20.91				
5	QPSK	12	0	20.55	20.57	20.57	21.6	0.5		
5	QPSK	12	7	20.59	20.63	20.66				
5	QPSK	12	13	20.58	20.52	20.53				
5	QPSK	25	0	20.69	20.67	20.66				
5	16QAM	1	0	20.77	20.78	20.78	21.6	0.5		
5	16QAM	1	12	20.82	20.79	20.74				
5	16QAM	12	7	19.82	19.82	19.89	20.6	1.5		
5	16QAM	12	13	19.73	19.83	19.83				
5	16QAM	25	0	19.80	19.82	19.85				
5	16QAM	1	0	19.84	19.72	19.73	20.6	1.5		
5	16QAM	1	24	19.73	19.74	19.68				
5	16QAM	1	24	19.75	19.85	19.84				
5	16QAM	12	0	18.81	18.81	18.89				
5	16QAM	12	7	18.73	18.83	18.83	19.6	2.5		
5	16QAM	12	13	18.85	18.58	18.58				
5	16QAM	25	0	18.80	18.80	18.88				
5	256QAM	1	0	18.37	18.45	18.38				
5	256QAM	1	12	18.40	18.37	18.44	17.6	4.5		
5	256QAM	1	24	18.49	18.60	18.54				
5	256QAM	12	0	18.31	18.34	18.28				
5	256QAM	12	7	18.40	18.32	18.37				
5	256QAM	12	13	18.37	18.39	18.30	17.6	4.5		
5	256QAM	25	0	18.32	18.38	18.31				

Band 66										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Time-up Int. (min)	MPR (dB)		
Channel										
1730-1745-1770										
20	QPSK	1	0	17.63	17.66	17.61	18.4	0		
20	QPSK	1	49	17.52	17.60	17.61				
20	QPSK	1	99	17.49	17.51	17.38				
20	QPSK	50	0	17.70	17.75	17.49	18.4	0		
20	QPSK	50	24	17.72	17.72	17.67				
20	QPSK	50	50	17.84	17.72	17.41				
20	QPSK	100	0	17.65	17.67	17.46				
20	16QAM	1	0	17.57	17.43	17.50	18.4	0		
20	16QAM	1	49	17.57	17.42	17.45				
20	16QAM	1	99	17.48	17.33	17.31				
20	16QAM	50	0	17.67	17.55	17.47				
20	16QAM	50	24	17.85	17.55	17.56	18.4	0		
20	16QAM	50	50	17.80	17.52	17.47				
20	16QAM	100	0	17.63	17.54	17.47				
20	16QAM	1	0	17.51	17.40	17.41				
20	16QAM	1	49	17.75	17.59	17.63	18.4	0		
20	16QAM	1	99	17.64	17.58	17.54				
20	16QAM	50	0	17.67	17.58	17.51				
20	16QAM	50	24	17.87	17.67	17.67	18.4	0		
20	16QAM	50	50	17.80	17.52	17.47				
20	16QAM	100	0	17.63	17.54	17.47				
20	16QAM	1	0	17.51	17.40	17.41				
20	256QAM	1	0	17.05	16.86	16.90	17.4	1		
20	256QAM	1	49	17.08	16.86	16.90				
20	256QAM	1	99	17.05	16.82	16.80				
20	256QAM	25	0	16.96	16.85	16.82				
20	256QAM	25	12	16.91	16.70	16.66	17.4	1		
20	256QAM	25	25	16.86	16.75	16.78				
20	256QAM	50	0	16.92	16.74	16.74	17.4	1		
Channel										
19247-19252-19267										
10	QPSK	1	0	17.54	17.46	17.42	18.4	0		
10	QPSK	1	49	17.43	17.37	17.31				
10	QPSK	1	74	17.40	17.32	17.27				
10	QPSK	36	0	17.61	17.51	17.40	18.4	0		
10	QPSK	36	18	17.61	17.49	17.43				
10	QPSK	36	36	17.55	17.43	17.42				
10	QPSK	75	0	17.58	17.46	17.37				
10	16QAM	1	0	17.48	17.34	17.41	18.4	0		
10	16QAM	1	37	17.48	17.33	17.36				
10	16QAM	1	74	17.40	17.36	17.32				
10	16QAM	36	0	17.60	17.52	17.48	18.4	0		
10	16QAM	36	18	17.54	17.46	17.38				
10	16QAM	36	36	17.58	17.48	17.47				
10	16QAM	75	0	17.54	17.45	17.38				
10	16QAM	1	0	17.42	17.31	17.32	18.4	0		
10	16QAM	1	37	17.46	17.36	17.34				
10	16QAM	1	74	17.55	17.47	17.45				
10	16QAM	36	0	17.58	17.49	17.42				
10	16QAM	36	18	17.56	17.39	17.39				
10	16QAM	36	36	17.56	17.48	17.45				
10	16QAM	75	0	17.54	17.48	17.39				
10	16QAM	1	0	17.42	17.31	17.32	18.4	0		
10	16QAM	1	37	17.46	17.36	17.34				
10	16QAM	1	74	17.55	17.47	17.45				
10	16QAM	36	0	17.58	17.49	17.42				
10	16QAM	36	18	17.56	17.39	17.39				
10	16QAM	36	36	17.56	17.48	17.45				
10	16QAM	75	0	17.54	17.48	17.39				
10	16QAM	1	0	17.42	17.31	17.32	18.4	0		
10	16QAM	1	37	17.46	17.36	17.34				
10	16QAM	1	74	17.55	17.47	17.45				
10	16QAM	36	0	17.58	17.49	17.42				
10	16QAM	36	18	17.56	17.39	17.39				
10	16QAM	36	36	17.56	17.48	17.45				
10	16QAM	75	0	17.54	17.48	17.39				
10	16QAM	1	0	17.42	17.31	17.32	18.4	0		
10	16QAM	1	37	17.46	17.36	17.34				
10	16QAM	1	74	17.55	17.47	17.45				
10	16QAM	36	0	17.58	17.49	17.42				
10	16QAM	36	18	17.56	17.39	17.39				
10	16QAM	36	36	17.56	17.48	17.45				
10	16QAM	75	0	17.54	17.48	17.39				
10	16QAM	1	0	17.42	17.31	17.32	18.4	0		
10	16QAM	1	37	17.46	17.36	17.34				
10	16QAM	1	74	17.55	17.47	17.45				



Band 48 (3.5G Band)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	19.28	19.50	19.42	19.21	20	0
20	QPSK	1	49	19.23	19.27	19.40	19.20		
20	QPSK	1	99	19.20	19.29	19.38	19.23		
20	QPSK	50	0	19.38	19.49	19.48	19.31		
20	QPSK	50	24	19.36	19.35	19.37	19.29	20	0
20	QPSK	50	50	19.32	19.38	19.41	19.23		
20	QPSK	100	0	19.35	19.48	19.45	19.32		
20	16QAM	1	0	19.35	19.10	19.25	19.08		
20	16QAM	1	49	19.31	19.14	19.28	19.06	20	0
20	16QAM	1	99	19.26	19.19	19.21	19.11		
20	16QAM	50	0	19.38	19.35	19.41	19.31		
20	16QAM	50	24	19.36	19.39	19.47	19.32		
20	16QAM	50	50	19.43	19.45	19.44	19.33	20	0
20	16QAM	100	0	19.39	19.38	19.49	19.30		
20	64QAM	1	0	19.17	19.06	19.34	19.15		
20	64QAM	1	49	19.11	19.15	19.32	19.12		
20	64QAM	1	99	19.07	19.19	19.30	19.16	20	0
20	64QAM	50	0	19.40	19.35	19.41	19.37		
20	64QAM	50	24	19.35	19.34	19.42	19.34		
20	64QAM	50	50	19.37	19.39	19.48	19.35		
20	64QAM	100	0	19.41	19.33	19.46	19.28	19	1
20	256QAM	1	0	18.44	18.21	18.53	18.37		
20	256QAM	1	49	18.37	18.24	18.45	18.34		
20	256QAM	1	99	18.31	18.33	18.42	18.27		
20	256QAM	50	0	18.70	18.58	18.78	18.59	19	1
20	256QAM	50	24	18.66	18.62	18.77	18.63		
20	256QAM	50	50	18.73	18.64	18.76	18.60		
20	256QAM	100	0	18.56	18.55	18.70	18.52		
Channel				55315	55820	56100	56665		
Frequency (MHz)				3567.5	3608	3642	3692.5		
15	QPSK	1	0	19.14	19.20	19.21	19.17	20	0
15	QPSK	1	37	19.16	19.15	18.97	19.09		
15	QPSK	1	74	19.21	19.16	19.04	18.94		
15	QPSK	36	0	19.17	19.18	19.20	19.12		
15	QPSK	36	20	19.21	19.13	19.15	19.18	20	0
15	QPSK	36	39	19.15	19.10	19.12	19.12		
15	QPSK	75	0	19.22	19.13	19.18	19.11		
15	16QAM	1	0	19.19	18.93	18.98	19.18		
15	16QAM	1	37	19.13	18.96	19.01	19.17	20	0
15	16QAM	1	74	19.17	19.06	19.11	19.10		
15	16QAM	36	0	19.15	19.16	19.18	19.18		
15	16QAM	36	20	19.12	19.11	19.16	19.13		
15	16QAM	36	39	19.20	19.13	19.18	19.18	20	0
15	16QAM	75	0	19.18	19.14	19.14	19.14		
15	64QAM	1	0	19.07	18.92	18.80	19.10		
15	64QAM	1	37	19.14	18.97	18.85	19.01		
15	64QAM	1	74	19.11	19.00	18.93	18.94	20	0
15	64QAM	36	0	19.17	19.17	19.25	19.25		
15	64QAM	36	20	19.18	19.14	19.22	19.20		
15	64QAM	36	39	19.20	19.15	19.23	19.23		
15	64QAM	75	0	19.11	19.16	19.24	19.23	19	1
15	256QAM	1	0	18.27	18.15	18.14	18.41		
15	256QAM	1	37	18.30	18.16	18.15	18.28		
15	256QAM	1	74	18.24	18.23	18.22	18.22		
15	256QAM	36	0	18.71	18.49	18.46	18.67	19	1
15	256QAM	36	20	18.72	18.58	18.50	18.63		
15	256QAM	36	39	18.65	18.55	18.47	18.54		
15	256QAM	75	0	18.70	18.50	18.44	18.61		
Channel				55290	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	19.18	19.13	19.07	19.13	20	0
10	QPSK	1	25	19.13	19.08	19.09	19.08		
10	QPSK	1	49	19.14	19.09	19.14	19.09		
10	QPSK	25	0	19.16	19.11	19.10	19.07		
10	QPSK	25	12	19.11	19.06	19.14	19.02	20	0
10	QPSK	25	25	19.08	19.03	19.08	18.99		
10	QPSK	50	0	19.09	19.06	19.15	19.02		
10	16QAM	1	0	19.01	18.93	19.19	18.89		
10	16QAM	1	25	19.00	18.92	19.09	18.98	20	0
10	16QAM	1	49	19.10	19.02	19.13	19.06		
10	16QAM	25	0	19.20	19.12	19.04	19.09		
10	16QAM	25	12	19.17	19.07	19.01	19.04		
10	16QAM	25	25	19.19	19.09	19.09	19.06	20	0
10	16QAM	50	0	19.15	19.10	19.07	19.07		
10	64QAM	1	0	18.93	18.88	18.96	18.85		
10	64QAM	1	25	19.02	18.97	19.14	18.97		
10	64QAM	1	49	18.96	18.93	19.11	19.00	20	0
10	64QAM	25	0	19.18	19.10	19.17	19.17		
10	64QAM	25	12	19.15	19.07	19.18	19.14		
10	64QAM	25	25	19.16	19.08	19.16	19.15		
10	64QAM	50	0	19.13	19.05	19.07	19.16	19	1
10	256QAM	1	0	18.12	18.04	18.23	18.15		
10	256QAM	1	25	18.13	18.05	18.26	18.16		
10	256QAM	1	49	18.20	18.12	18.20	18.23		
10	256QAM	25	0	18.46	18.38	18.71	18.49	19	1
10	256QAM	25	12	18.50	18.47	18.65	18.51		
10	256QAM	25	25	18.54	18.51	18.58	18.48		
10	256QAM	50	0	18.63	18.60	18.63	18.43		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3562.5	3607	3643	3697.5		
5	QPSK	1	0	19.05	19.09	19.17	19.05	20	0
5	QPSK	1	12	19.07	18.85	18.93	18.97		
5	QPSK	1	24	19.09	18.92	19.00	18.82		
5	QPSK	12	0	19.02	19.08	19.16	19.00		
5	QPSK	12	7	19.04	19.00	19.11	19.06	20	0
5	QPSK	12	13	18.99	18.97	19.08	19.00		
5	QPSK	25	0	19.03	19.03	19.14	18.99		
5	16QAM	1	0	19.05	18.83	18.94	19.06		
5	16QAM	1	12	19.00	18.89	18.97	19.05	20	0
5	16QAM	1	24	18.93	18.99	19.07	18.98		
5	16QAM	12	0	19.11	19.06	19.11	19.03		
5	16QAM	12	7	19.18	19.16	19.23	19.10		
5	16QAM	12	13	19.19	19.15	19.25	19.15	20	0
5	16QAM	25	0	19.16	19.11	19.21	19.11		
5	64QAM	1	0	19.14	18.77	18.75	18.95		
5	64QAM	1	12	18.97	18.70	18.83	18.89		
5	64QAM	1	24	18.85	18.78	18.84	18.82	20	0
5	64QAM	12	0	19.11	19.10	19.16	19.13		
5	64QAM	12	7	19.23	19.19	19.13	19.08		
5	64QAM	12	13	19.21	19.23	19.14	19.11		
5	64QAM	25	0	19.12	19.12	19.27	19.23	19	1
5	256QAM	1	0	18.22	18.02	18.17	18.41		
5	256QAM	1	12	18.09	18.03	18.15	18.25		
5	256QAM	1	24	18.03	18.10	18.22	18.19		
5	256QAM	12	0	18.47	18.31	18.48	18.64	19	1
5	256QAM	12	7	18.43	18.35	18.62	18.60		
5	256QAM	12	13	18.34	18.32	18.62	18.54		
5	256QAM	25	0	18.43	18.29	18.47	18.61		



Reduced Power for Hotspot On for UAT

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	129	189	251		128	189	251	
TX Channel	824.2	836.4	848.8	824.2	836.4	848.8		
Frequency (MHz)	30.30	30.15	30.20	31.50	21.30	21.15	21.20	22.50
GSM 1 Tx slot	30.31	30.17	30.26	31.50	21.31	21.17	21.26	22.50
GPRS 2 Tx slots	27.85	28.00	27.98	28.60	21.85	22.00	21.98	22.60
GPRS 3 Tx slots	25.63	25.86	25.73	26.60	21.37	21.60	21.47	22.34
GPRS 4 Tx slots	24.66	24.67	24.58	25.60	21.66	21.67	21.58	22.60
EDGE 1 Tx slot	24.75	24.62	24.55	26.00	15.75	15.62	15.55	17.00
EDGE 2 Tx slots	22.36	22.42	22.35	24.00	16.36	16.42	16.35	18.00
EDGE 3 Tx slots	21.46	21.51	21.22	23.00	17.20	17.25	16.96	18.74
EDGE 4 Tx slots	20.82	20.93	20.73	22.50	17.82	17.93	17.73	19.50



Band 2 (1900MHz Band) Part 24E										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Peak Ch./Freq.	Time-up (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.46	21.30	21.31				
20	QPSK	1	49	21.46	21.30	21.31	22	0		
20	QPSK	1	98	21.19	21.28	21.19				
20	QPSK	50	0	21.34	21.40	21.34				
20	QPSK	50	44	21.43	21.43	21.37				
20	QPSK	50	50	21.37	21.38	21.42	22	0		
20	QPSK	100	0	21.38	21.43	21.38				
20	16QAM	1	0	21.42	21.42	21.38				
20	16QAM	1	49	21.27	21.42	21.39	22	0		
20	16QAM	1	99	21.28	21.30	21.30				
20	16QAM	50	0	19.83	19.89	19.86				
20	16QAM	50	24	19.83	19.92	19.85	21.3	0.7		
20	16QAM	50	50	19.83	19.87	19.91				
20	16QAM	1	0	20.04	20.16	20.11				
20	16QAM	1	49	20.01	20.14	20.07	21.3	0.7		
20	16QAM	1	99	20.04	20.09	20.06				
20	16QAM	50	0	19.83	19.88	19.92				
20	16QAM	50	24	19.84	19.90	19.85	20.3	1.7		
20	16QAM	50	50	19.84	19.95	19.89				
20	16QAM	100	0	19.93	19.98	19.99				
20	256QAM	1	0	17.07	17.15	17.15				
20	256QAM	1	49	17.12	17.21	17.05	18.3	3.7		
20	256QAM	1	99	17.04	17.17	17.12				
20	256QAM	50	0	16.93	17.10	16.95				
20	256QAM	50	24	17.11	17.02	17.10	18.3	3.7		
20	256QAM	50	50	17.03	17.02	17.11				
20	256QAM	100	0	17.12	16.98	17.05				
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.28	21.42	21.31				
15	QPSK	1	37	21.23	21.30	21.26	22	0		
15	QPSK	1	74	21.27	21.30	21.26				
15	QPSK	36	0	21.34	21.42	21.34				
15	QPSK	36	20	21.44	21.42	21.33	22	0		
15	QPSK	36	39	21.38	21.41	21.40				
15	QPSK	75	0	21.38	21.39	21.29				
15	16QAM	1	0	21.29	21.39	21.31				
15	16QAM	1	37	21.27	21.30	21.26	22	0		
15	16QAM	1	74	21.25	21.30	21.25				
15	16QAM	36	0	19.62	19.77	19.70				
15	16QAM	36	20	19.78	19.80	19.71	21.3	0.7		
15	16QAM	36	39	19.77	19.82	19.81				
15	16QAM	75	0	19.77	19.80	19.70				
15	16QAM	1	0	19.88	19.94	19.87				
15	16QAM	1	37	19.83	19.91	19.87	21.3	0.7		
15	16QAM	1	74	19.82	19.88	19.76				
15	16QAM	36	0	18.69	18.82	18.75				
15	16QAM	36	20	18.83	18.84	18.77	20.3	1.7		
15	16QAM	36	39	18.80	18.80	18.85				
15	16QAM	75	0	18.78	18.78	18.73				
15	256QAM	1	0	16.96	17.05	17.05				
15	256QAM	1	37	17.04	17.13	16.97	18.3	3.7		
15	256QAM	1	74	16.96	17.00	17.04				
15	256QAM	36	0	16.86	17.02	16.89				
15	256QAM	36	20	17.03	16.94	17.02	18.3	3.7		
15	256QAM	36	39	16.95	17.00	17.03				
15	256QAM	75	0	17.04	16.95	16.99				
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.25	21.27	21.22				
10	QPSK	1	25	21.25	21.26	21.18	22	0		
10	QPSK	1	49	21.24	21.31	21.26				
10	QPSK	25	0	21.36	21.38	21.24				
10	QPSK	25	12	21.42	21.43	21.29	22	0		
10	QPSK	25	25	21.41	21.29	21.39				
10	QPSK	50	0	21.39	21.41	21.29				
10	16QAM	1	0	21.36	21.38	21.33				
10	16QAM	1	25	21.30	21.39	21.33	22	0		
10	16QAM	1	49	21.31	21.41	21.32				
10	16QAM	25	0	19.75	19.75	19.61				
10	16QAM	25	12	19.77	19.79	19.67	21.3	0.7		
10	16QAM	25	25	19.79	19.84	19.74				
10	16QAM	50	0	19.74	19.76	19.69				
10	16QAM	1	0	19.82	19.88	19.80				
10	16QAM	1	25	19.83	20.02	19.93	21.3	0.7		
10	16QAM	1	49	19.87	19.82	19.87				
10	16QAM	25	0	19.77	19.80	19.67				
10	16QAM	25	12	19.78	19.81	19.69	20.3	1.7		
10	16QAM	25	25	19.78	19.80	19.76				
10	16QAM	50	0	18.80	18.82	18.68				
10	256QAM	1	0	16.95	17.03	17.03				
10	256QAM	1	25	17.00	17.00	16.93	18.3	3.7		
10	256QAM	1	49	16.92	17.00	16.99				
10	256QAM	25	0	16.81	16.88	16.83				
10	256QAM	25	12	16.99	16.90	16.98	18.3	3.7		
10	256QAM	25	25	16.91	16.90	16.99				
10	256QAM	50	0	17.00	16.88	16.93				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.30	21.27	21.16				
5	QPSK	1	12	21.33	21.37	21.26	22	0		
5	QPSK	1	24	21.28	21.30	21.23				
5	QPSK	12	0	21.36	21.39	21.32				
5	QPSK	12	7	21.40	21.44	21.31	22	0		
5	QPSK	12	13	21.38	21.20	21.34				
5	QPSK	24	0	21.39	21.43	21.30				
5	16QAM	1	0	21.30	21.30	21.23				
5	16QAM	1	12	21.33	21.43	21.22	22	0		
5	16QAM	1	24	21.33	21.42	21.29				
5	16QAM	12	0	19.73	19.78	19.67				
5	16QAM	12	7	19.80	19.83	19.73	21.3	0.7		
5	16QAM	12	13	19.73	19.80	19.69				
5	16QAM	25	0	19.78	19.81	19.71				
5	16QAM	1	0	19.93	19.94	19.83				
5	16QAM	1	12	19.82	19.80	19.87	21.3	0.7		
5	16QAM	1	24	19.90	20.00	19.80				
5	16QAM	12	0	18.82	18.85	18.73				
5	16QAM	12	7	18.82	18.84	18.77	20.3	1.7		
5	16QAM	12	13	18.80	18.80	18.74				
5	16QAM	25	0	16.80	16.82	16.73				
5	256QAM	1	0	16.96	16.98	16.88				
5	256QAM	1	12	16.95	17.04	16.88	18.3	3.7		
5	256QAM	1	24	16.87	17.00	16.99				
5	256QAM	12	0	16.78	16.80	16.73				
5	256QAM	12	7	16.94	16.85	16.93	18.3	3.7		
5	256QAM	12	13	16.86	16.91	16.94				
5	256QAM	25	0	17.00	16.85	16.92				
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.25	21.27	21.21				
3	QPSK	1	8	21.33	21.41	21.28	22	0		
3	QPSK	1	14	21.31	21.41	21.23				
3	QPSK	8	0	21.36	21.34	21.28				
3	QPSK	8	4	21.41	21.43	21.34	22	0		
3	QPSK	8	7	21.37	21.44	21.31				
3	QPSK	16	0	21.37	21.38	21.31				
3	16QAM	1	0	21.33	21.32	21.25				
3	16QAM	1	8	21.36	21.44	21.32	22	0		
3	16QAM	1	14	21.27	21.42	21.24				
3	16QAM	8	0	19.82	19.79	19.73				
3	16QAM	8	4	19.84	19.81	19.74	21.3	0.7		
3	16QAM	8	7	19.79	19.88	19.76				
3	16QAM	16	0	19.74	19.76	19.70				
3	16QAM	1	0	19.93	19.90	19.77				
3	16QAM	1	8	19.92	20.00	19.88	21.3	0.7		
3	16QAM	1	14	19.89	19.97	19.88				
3	16QAM	8	0	18.81	18.80	18.70				
3	16QAM	8	4	18.82	18.86	18.77	20.3	1.7		
3	16QAM	8	7	18.77	18.90	18.72				
3	16QAM	16	0	18.81	18.80	18.70				
3	256QAM	1	0	17.04	17.12	17.12				
3	256QAM	1	8	17.09	17.18	17.02	18.3	3.7		
3	256QAM	1	14	17.08	17.00	17.08				
3	256QAM	8	0	16.90	17.07	16.92				
3	256QAM	8	4	17.05	16.99	17.07	18.3	3.7		
3	256QAM	8	7	17.02	17.02	17.08				
3	256QAM	16	0	17.08	16.95	17.02				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.21	21.24	21.08				
1.4	QPSK	1	9	21.30	21.31	21.15	22	0		
1.4	QPSK	1	9	21.22	21.26	21.07				
1.4	QPSK	3	0	21.24	21.32	21.12				
1.4	QPSK	3	1	21.26	21.30	21.16	22	0		
1.4	QPSK	3	3	21.21	21.32	21.12				
1.4	16QAM	1	0	21.30	21.37	21.21	22	0		
1.4	16Q									

Band 48 (3.5G Band)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	22.22	22.32	22.10	22.02	23.1	0
20	QPSK	1	49	22.17	22.20	22.08	21.98		
20	QPSK	1	99	22.10	22.14	22.06	21.91		
20	QPSK	50	0	22.15	22.20	22.08	22.00		
20	QPSK	50	24	22.10	22.18	22.06	21.92	23.1	0
20	QPSK	50	50	22.12	22.17	22.03	21.86		
20	QPSK	100	0	22.08	22.18	21.97	21.90		
20	16QAM	1	0	22.12	22.12	22.26	21.96		
20	16QAM	1	49	22.26	22.14	22.14	21.92	23.1	0
20	16QAM	1	99	22.10	22.22	22.17	22.00		
20	16QAM	50	0	21.48	21.23	21.43	21.27		
20	16QAM	50	24	21.42	21.26	21.40	21.25		
20	16QAM	50	50	21.40	21.30	21.45	21.23	22.1	1
20	16QAM	100	0	21.44	21.25	21.43	21.24		
20	64QAM	1	0	21.23	20.94	21.25	21.05		
20	64QAM	1	49	21.27	21.09	21.27	21.11		
20	64QAM	1	99	21.13	21.13	21.21	21.08	21.5	1.6
20	64QAM	50	0	20.48	20.26	20.48	20.25		
20	64QAM	50	24	20.43	20.27	20.45	20.27		
20	64QAM	50	50	20.40	20.29	20.42	20.30		
20	64QAM	100	0	20.39	20.22	20.39	20.22	19.5	3.6
20	256QAM	1	0	18.44	18.17	18.23	18.38		
20	256QAM	1	49	18.31	18.18	18.24	18.25		
20	256QAM	1	99	18.25	18.25	18.31	18.19		
20	256QAM	50	0	18.72	18.51	18.57	18.66	19.5	3.6
20	256QAM	50	24	18.68	18.55	18.61	18.62		
20	256QAM	50	50	18.59	18.52	18.58	18.53		
20	256QAM	100	0	18.64	18.47	18.53	18.58		
Channel				55315	55820	56160	56665		
Frequency (MHz)				3567.5	3608	3642	3692.5		
15	QPSK	1	0	22.18	22.28	22.06	21.98	23.1	0
15	QPSK	1	37	22.13	22.16	22.04	21.94		
15	QPSK	1	74	22.06	22.10	22.02	21.87		
15	QPSK	36	0	22.11	22.16	22.04	21.96		
15	QPSK	36	20	22.06	22.14	22.02	21.88	23.1	0
15	QPSK	36	39	22.08	22.10	21.96	21.79		
15	QPSK	75	0	22.04	22.11	21.90	21.83		
15	16QAM	1	0	22.08	22.08	22.22	21.92		
15	16QAM	1	37	22.26	22.14	22.14	21.92	23.1	0
15	16QAM	1	74	22.10	22.22	22.17	22.00		
15	16QAM	36	0	21.45	21.20	21.36	21.23		
15	16QAM	36	20	21.39	21.23	21.33	21.21		
15	16QAM	36	39	21.37	21.27	21.38	21.19	22.1	1
15	16QAM	75	0	21.41	21.22	21.36	21.20		
15	64QAM	1	0	21.23	20.94	21.25	21.05		
15	64QAM	1	37	21.23	21.05	21.27	21.11		
15	64QAM	1	74	21.09	21.06	21.18	21.05	21.5	1.6
15	64QAM	36	0	20.44	20.19	20.45	20.22		
15	64QAM	36	20	20.39	20.20	20.42	20.24		
15	64QAM	36	39	20.36	20.22	20.39	20.27		
15	64QAM	75	0	20.35	20.18	20.39	20.22	19.5	3.6
15	256QAM	1	0	18.27	18.15	18.14	18.41		
15	256QAM	1	37	18.30	18.16	18.15	18.28		
15	256QAM	1	74	18.24	18.23	18.22	18.22		
15	256QAM	36	0	18.71	18.49	18.46	18.67	19.5	3.6
15	256QAM	36	20	18.72	18.58	18.50	18.63		
15	256QAM	36	39	18.65	18.55	18.47	18.54		
15	256QAM	75	0	18.70	18.50	18.44	18.61		
Channel				55290	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	22.16	22.26	21.99	21.91	23.1	0
10	QPSK	1	25	22.11	22.14	21.97	21.87		
10	QPSK	1	49	21.99	22.03	21.95	21.80		
10	QPSK	25	0	22.06	22.11	21.99	21.91		
10	QPSK	25	12	22.01	22.09	21.97	21.83	23.1	0
10	QPSK	25	25	22.03	22.05	21.91	21.74		
10	QPSK	50	0	21.99	22.06	21.90	21.83		
10	16QAM	1	0	22.03	22.03	22.22	21.92		
10	16QAM	1	25	22.21	22.09	22.14	21.92	23.1	0
10	16QAM	1	49	22.05	22.17	22.17	22.00		
10	16QAM	25	0	21.40	21.15	21.36	21.23		
10	16QAM	25	12	21.34	21.18	21.33	21.21		
10	16QAM	25	25	21.32	21.22	21.36	21.17	22.1	1
10	16QAM	50	0	21.36	21.17	21.34	21.18		
10	64QAM	1	0	21.18	20.89	21.25	21.05		
10	64QAM	1	25	21.18	21.00	21.27	21.11		
10	64QAM	1	49	21.04	21.01	21.18	21.05	21.5	1.6
10	64QAM	25	0	20.39	20.14	20.43	20.20		
10	64QAM	25	12	20.39	20.20	20.40	20.22		
10	64QAM	25	25	20.36	20.22	20.32	20.20		
10	64QAM	50	0	20.30	20.18	20.34	20.17	19.5	3.6
10	256QAM	1	0	18.12	18.04	18.23	18.15		
10	256QAM	1	25	18.13	18.05	18.26	18.16		
10	256QAM	1	49	18.20	18.12	18.20	18.23		
10	256QAM	25	0	18.46	18.38	18.71	18.49	19.5	3.6
10	256QAM	25	12	18.50	18.47	18.65	18.51		
10	256QAM	25	25	18.54	18.51	18.58	18.48		
10	256QAM	50	0	18.53	18.50	18.63	18.43		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	22.14	22.24	21.97	21.89	23.1	0
5	QPSK	1	12	22.09	22.12	21.95	21.85		
5	QPSK	1	24	21.97	22.01	21.93	21.78		
5	QPSK	12	0	22.04	22.09	21.97	21.89		
5	QPSK	12	7	21.99	22.07	21.95	21.81	23.1	0
5	QPSK	12	13	22.05	22.07	21.93	21.76		
5	QPSK	25	0	22.01	22.08	21.92	21.85		
5	16QAM	1	0	22.05	22.05	22.20	21.90		
5	16QAM	1	12	22.23	22.11	22.12	21.90	23.1	0
5	16QAM	1	24	22.07	22.19	22.15	21.98		
5	16QAM	12	0	21.42	21.17	21.34	21.21		
5	16QAM	12	7	21.30	21.14	21.29	21.17		
5	16QAM	12	13	21.28	21.18	21.32	21.13	22.1	1
5	16QAM	25	0	21.32	21.13	21.32	21.16		
5	64QAM	1	0	21.18	20.89	21.27	21.07		
5	64QAM	1	12	21.18	21.00	21.29	21.13		
5	64QAM	1	24	21.04	21.01	21.14	21.01	21.5	1.6
5	64QAM	12	0	20.39	20.14	20.39	20.16		
5	64QAM	12	7	20.39	20.20	20.36	20.18		
5	64QAM	12	13	20.38	20.24	20.28	20.16		
5	64QAM	25	0	20.32	20.20	20.30	20.13	19.5	3.6
5	256QAM	1	0	18.22	18.02	18.17	18.41		
5	256QAM	1	12	18.09	18.03	18.15	18.25		
5	256QAM	1	24	18.03	18.10	18.22	18.19		
5	256QAM	12	0	18.47	18.31	18.48	18.64	19.5	3.6
5	256QAM	12	7	18.43	18.35	18.52	18.60		
5	256QAM	12	13	18.34	18.32	18.52	18.54		
5	256QAM	25	0	18.43	18.29	18.47	18.61		



Reduced Power for Hotspot on for LAT

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
TX Channel	Rx Channel	9262	9400	9538		1312	1413	1513	
Frequency (MHz)		1652.4	1690	1607.6	1712.4	1732.3	1759.3		
3GPP Rel 99	AMR 12.2Kbps	21.30	21.48	21.35	22.20	21.78	21.70	22.60	
3GPP Rel 99	RMC 12.2Kbps	21.35	21.50	21.37	22.20	21.81	21.90	22.60	
3GPP Rel 6	HSDPA Subtest-1	20.37	20.53	20.39	21.20	20.84	20.83	20.80	21.60
3GPP Rel 6	HSDPA Subtest-2	20.39	20.55	20.41	21.20	20.83	20.88	20.77	21.60
3GPP Rel 6	HSDPA Subtest-3	19.87	20.09	19.88	20.70	20.41	20.44	20.21	21.10
3GPP Rel 6	HSDPA Subtest-4	19.93	20.08	19.89	20.70	20.21	20.38	20.24	21.10
3GPP Rel 8	DC-HSDPA Subtest-1	20.36	20.52	20.38	21.20	20.83	20.82	20.79	21.60
3GPP Rel 8	DC-HSDPA Subtest-2	20.37	20.53	20.39	21.20	20.81	20.86	20.75	21.60
3GPP Rel 8	DC-HSDPA Subtest-3	19.85	20.07	19.86	20.70	20.39	20.42	20.19	21.10
3GPP Rel 8	DC-HSDPA Subtest-4	19.91	20.03	19.87	20.70	20.19	20.36	20.22	21.10
3GPP Rel 6	HSUPA Subtest-1	20.42	20.53	20.45	21.20	20.89	20.90	20.71	21.60
3GPP Rel 6	HSUPA Subtest-2	18.43	18.61	18.48	19.20	18.78	18.93	18.82	19.60
3GPP Rel 6	HSUPA Subtest-3	19.31	19.57	19.40	20.20	19.34	19.43	19.25	20.60
3GPP Rel 6	HSUPA Subtest-4	18.19	18.36	18.25	19.20	18.06	18.22	18.07	19.60
3GPP Rel 6	HSUPA Subtest-5	20.40	20.60	20.60	21.20	20.90	20.90	20.80	21.60
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.24	18.36	18.25	18.70	18.21	18.38	18.35	19.10

Band		CDMA BC1			Tune-up Limit (dBm)
TX Channel	Rx Channel	25	600	1175	
Frequency (MHz)		1851.25	1880	1908.75	
	RC1 3Q55	21.65	21.72	21.65	22.70
	RC3 3Q55	21.68	21.75	21.66	22.70
	RC3 3Q32 (F-SCH)	21.70	21.76	21.66	22.70
	RC3 3Q32 (V-SCH)	21.60	21.70	21.55	22.70
	RTAP 153.6Kbps	21.72	21.83	21.69	22.70
	RETAP 4096Bps	21.70	21.79	21.68	22.70



Band 2 (1900MHz Band)										
Part 24Z										
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Time-up	MFR		
Channel				Low	High	High	Limit	(dB)		
Frequency (MHz)				Ch./Freq.	Ch./Freq.	Ch./Freq.	(dBm)			
20	QPSK	1	0	21.05	21.27	20.99				
20	QPSK	1	60	21.02	20.90	20.91				
20	QPSK	1	90	20.92	21.09	21.10				
20	QPSK	50	0	21.09	21.22	21.16				
20	QPSK	50	60	21.15	21.24	21.25				
20	QPSK	50	90	21.17	21.21	21.23				
20	QPSK	100	0	21.10	21.13	21.14				
20	HQAM	1	0	20.90	21.10	20.90				
20	HQAM	1	40	20.90	21.09	21.01				
20	HQAM	1	80	20.89	21.17	20.98				
20	HQAM	50	0	20.92	20.92	20.95				
20	HQAM	50	24	20.94	20.96	20.75				
20	HQAM	50	50	20.78	20.99	20.26				
20	HQAM	100	0	20.82	20.92	20.95				
20	HQAM	1	0	21.15	21.01	21.07				
20	HQAM	1	40	20.98	21.22	20.89				
20	HQAM	50	0	20.77	20.78	20.69				
20	HQAM	50	24	20.84	20.84	20.84				
20	HQAM	50	50	20.78	20.96	20.89				
20	HQAM	100	0	20.74	20.87	20.85				
20	HQAM	1	0	18.45	18.52	18.51				
20	HQAM	1	40	18.52	18.59	18.54				
20	HQAM	50	0	18.57	18.58	18.59				
20	HQAM	50	24	18.45	18.48	18.43				
20	HQAM	50	50	18.45	18.46	18.48				
20	HQAM	100	0	18.48	18.55	18.48				
20	HQAM	100	0	18.50	18.47	18.45				
Channel				18975	18900	18925	Time-up	MFR		
Frequency (MHz)				18975	18900	18925	Limit	(dB)		
15	QPSK	1	0	21.09	21.18	21.07				
15	QPSK	1	37	21.03	21.09	21.08				
15	QPSK	1	74	20.99	21.18	21.11				
15	QPSK	5	0	21.10	21.18	21.09				
15	QPSK	36	20	21.19	21.21	21.11				
15	QPSK	36	36	21.17	21.09	21.19				
15	HQAM	1	0	21.16	21.20	21.17				
15	HQAM	1	0	20.84	21.19	21.08				
15	HQAM	1	37	20.97	20.94	20.98				
15	HQAM	5	0	20.99	21.22	20.97				
15	HQAM	36	0	20.88	20.97	20.77				
15	HQAM	36	20	20.82	20.99	20.83				
15	HQAM	36	36	20.80	20.98	20.90				
15	HQAM	75	0	20.83	20.84	20.90				
15	HQAM	1	0	21.01	20.95	20.87				
15	HQAM	37	0	20.87	20.98	20.90				
15	HQAM	1	74	21.11	21.16	21.13				
15	HQAM	36	0	20.71	20.84	20.74				
15	HQAM	36	36	20.82	20.88	20.75				
15	HQAM	36	36	20.74	20.99	20.95				
15	HQAM	75	0	20.80	20.86	20.85				
15	HQAM	1	37	18.49	18.55	18.50				
15	HQAM	1	74	18.53	18.54	18.48				
15	HQAM	5	0	18.50	18.50	18.50				
15	HQAM	36	20	18.41	18.42	18.44				
15	HQAM	36	36	18.44	18.51	18.45				
15	HQAM	75	0	18.45	18.50	18.50				
Channel				18950	18900	18925	Time-up	MFR		
Frequency (MHz)				18950	18900	18925	Limit	(dB)		
10	QPSK	1	0	21.01	21.16	21.01				
10	QPSK	1	25	21.07	21.15	21.07				
10	QPSK	1	40	20.93	20.98	20.92				
10	QPSK	25	0	21.18	21.11	21.09				
10	QPSK	12	0	21.18	21.22	21.15				
10	QPSK	25	25	21.18	21.12	21.22				
10	QPSK	50	0	21.16	21.17	21.19				
10	HQAM	1	0	21.17	21.17	21.17				
10	HQAM	1	25	20.98	21.19	21.15				
10	HQAM	1	40	21.18	21.13	21.21				
10	HQAM	25	0	20.81	20.97	20.87				
10	HQAM	25	12	20.83	20.84	20.72				
10	HQAM	25	25	20.90	21.10	20.93				
10	HQAM	50	0	20.92	20.92	20.92				
10	HQAM	50	0	21.08	20.73	21.08				
10	HQAM	1	25	21.01	21.12	20.82				
10	HQAM	1	40	21.16	20.89	21.09				
10	HQAM	25	0	20.72	20.88	20.68				
10	HQAM	25	12	21.05	20.82	20.78				
10	HQAM	25	25	20.94	20.96	20.83				
10	HQAM	50	0	20.75	20.78	20.74				
10	HQAM	1	0	18.38	18.43	18.46				
10	HQAM	1	25	18.44	18.50	18.45				
10	HQAM	40	0	18.48	18.49	18.41				
10	HQAM	25	0	18.24	18.39	18.34				
10	HQAM	25	12	18.36	18.37	18.39				
10	HQAM	25	25	18.39	18.46	18.40				
10	HQAM	50	0	18.41	18.38	18.38				
Channel				18925	18900	18925	Time-up	MFR		
Frequency (MHz)				18925	18900	18925	Limit	(dB)		
5	QPSK	1	0	21.11	21.02	20.94				
5	QPSK	1	12	21.20	21.02	21.04				
5	QPSK	1	24	21.17	21.20	21.11				
5	QPSK	12	0	21.18	21.22	21.15				
5	QPSK	12	7	21.06	21.09	21.22				
5	QPSK	12	13	21.16	21.00	21.11				
5	QPSK	25	0	21.18	21.15	21.12				
5	HQAM	1	0	21.21	21.01	21.21				
5	HQAM	1	12	20.83	21.07	20.92				
5	HQAM	13	0	21.00	21.25	20.95				
5	HQAM	12	7	21.01	20.86	20.80				
5	HQAM	13	0	21.08	20.97	20.87				
5	HQAM	25	0	20.93	20.97	20.89				
5	HQAM	1	0	20.90	21.26	21.09				
5	HQAM	1	12	21.02	21.01	21.01				
5	HQAM	1	24	21.05	21.01	20.87				
5	HQAM	12	0	20.92	20.93	20.76				
5	HQAM	12	7	20.94	20.93	20.76				
5	HQAM	12	13	20.80	20.95	20.75				
5	HQAM	25	0	20.77	20.86	20.75				
5	HQAM	1	0	18.48	18.55	18.58				
5	HQAM	1	12	18.56	18.62	18.57				
5	HQAM	1	24	18.50	18.51	18.53				
5	HQAM	12	0	18.47	18.51	18.49				
5	HQAM	12	7	18.48	18.49	18.51				
5	HQAM	12	13	18.51	18.58	18.52				
5	HQAM	25	0	18.52	18.50	18.48				
Channel				18900	18900	18925	Time-up	MFR		
Frequency (MHz)				18900	18900	18925	Limit	(dB)		
1.4	QPSK	1	0	21.14	21.16	20.91				
1.4	QPSK	1	3	21.09	21.09	20.95				
1.4	QPSK	1	6	20.96	21.14	20.98				
1.4	QPSK	1	9	21.06	21.07	20.90				
1.4	QPSK	3	1	21.12	21.14	21.03				
1.4	QPSK	3	3	21.11	21.19	20.95				
1.4	HQAM	1	0	21.13	21.25	21.02				
1.4	HQAM	1	0	21.08	21.15	20.92				
1.4	HQAM	1	3	21.07	21.19	21.09				
1.4	HQAM	3	0	21.10	20.73	21.21				
1.4	HQAM	3	0	20.89	20.85	20.74				
1.4	HQAM	3	1	20.85	21.01	20.82				
1.4	HQAM	3	3	20.72	20.68	20.72				
1.4	HQAM	6	0	20.97	21.09	20.86				
1.4	HQAM	1	0	21.18	20.78	20.80				



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.	Turn-up time (sec)	MFR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	21.04	21.25	21.01						
20	QPSK	1	49	20.96	21.12	20.82	22	0				
20	QPSK	1	99	20.88	21.08	20.82						
20	QPSK	50	0	20.90	21.13	20.87						
20	QPSK	24	0	21.00	21.21	21.01	22	0				
20	QPSK	50	50	20.84	21.20	20.88						
20	QPSK	100	0	20.87	21.13	20.82						
20	16QAM	1	0	21.02	21.20	21.01						
20	16QAM	1	49	20.73	20.97	21.19	22	0				
20	16QAM	1	99	21.08	21.11	20.82						
20	16QAM	50	0	20.84	20.73	20.88						
20	16QAM	50	24	20.86	20.76	20.49	22	0				
20	16QAM	50	50	20.58	20.73	20.55						
20	16QAM	100	0	20.84	20.91	20.56						
20	16QAM	1	0	20.57	20.89	20.82						
20	16QAM	1	49	20.43	20.36	20.99	22	0				
20	16QAM	1	99	20.87	20.85	20.59						
20	16QAM	50	0	20.87	20.80	20.83						
20	16QAM	50	24	20.70	20.78	20.72						
20	16QAM	50	50	20.88	20.70	20.84	21.8	0.2				
20	16QAM	100	0	20.78	20.78	20.78						
20	256QAM	1	0	18.40	18.47	18.52						
20	256QAM	1	49	18.38	18.34	18.47	19	3				
20	256QAM	1	99	18.28	18.43	18.43						
20	256QAM	50	0	18.32	18.31	18.33						
20	256QAM	50	24	18.31	18.43	18.29	19	3				
20	256QAM	50	50	18.29	18.37	18.37						
20	256QAM	100	0	18.31	18.36	18.34						
Channel												
Frequency (MHz)												
15	QPSK	1	0	20.96	21.02	21.04						
15	QPSK	1	37	20.98	21.07	20.87	22	0				
15	QPSK	1	74	20.81	21.06	20.94						
15	QPSK	36	0	21.00	21.12	21.04						
15	QPSK	36	20	21.12	21.19	21.06	22	0				
15	QPSK	36	36	20.87	21.16	21.01						
15	QPSK	1	0	21.09	21.20	21.20						
15	16QAM	1	0	21.09	20.72	20.71						
15	16QAM	1	37	20.71	21.09	20.94	22	0				
15	16QAM	1	74	20.24	20.78	20.78						
15	16QAM	36	0	20.82	20.72	20.56						
15	16QAM	36	20	20.71	20.85	20.87	22	0				
15	16QAM	36	39	20.81	20.89	20.99						
15	16QAM	75	0	20.81	20.86	20.46						
15	16QAM	1	0	20.83	20.87	20.86						
15	16QAM	1	37	20.86	20.86	20.78	22	0				
15	16QAM	1	74	20.85	20.95	20.78						
15	16QAM	36	0	20.88	20.79	20.58						
15	16QAM	36	20	20.81	20.83	20.87	21.8	0.2				
15	16QAM	36	39	20.75	20.70	20.70						
15	16QAM	75	0	20.86	20.84	20.85						
15	256QAM	1	0	18.40	18.46	18.46						
15	256QAM	1	37	18.32	18.30	18.43	19	3				
15	256QAM	1	74	18.34	18.39	18.39						
15	256QAM	36	0	18.28	18.43	18.34						
15	256QAM	36	20	18.27	18.39	18.25	19	3				
15	256QAM	36	39	18.25	18.33	18.34						
15	256QAM	75	0	18.26	18.33	18.34						
Channel												
Frequency (MHz)												
5	QPSK	1	0	20.93	20.94	20.90						
5	QPSK	1	12	20.99	21.13	20.92	22	0				
5	QPSK	1	24	21.10	21.16	20.96						
5	QPSK	12	0	21.05	21.06	20.99						
5	QPSK	12	7	21.09	21.19	21.04	22	0				
5	QPSK	12	13	21.08	21.24	21.00						
5	QPSK	25	0	21.08	21.18	20.98						
5	16QAM	1	0	20.87	21.04	20.96						
5	16QAM	1	12	21.06	20.87	20.47	22	0				
5	16QAM	1	24	21.01	20.80	20.79						
5	16QAM	12	0	20.83	20.87	20.82	22	0				
5	16QAM	12	7	20.86	20.80	20.82						
5	16QAM	12	13	20.88	20.78	20.86						
5	16QAM	25	0	20.86	20.76	20.86						
5	16QAM	1	0	20.82	20.73	20.86	22	0				
5	16QAM	1	12	20.80	20.80	20.82						
5	16QAM	1	24	20.82	20.87	20.82						
5	16QAM	12	0	20.70	20.89	20.87						
5	16QAM	12	7	20.82	20.86	20.86						
5	16QAM	12	13	20.80	20.79	20.73	21.8	0.2				
5	256QAM	1	0	18.31	18.38	18.43						
5	256QAM	1	25	18.27	18.25	18.38	19	3				
5	256QAM	1	49	18.23	18.34	18.34						
5	256QAM	25	0	18.23	18.32	18.34						
5	256QAM	25	12	18.22	18.34	18.20	19	3				
5	256QAM	25	25	18.20	18.28	18.20						
5	256QAM	50	0	18.32	18.27	18.23						
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.83	20.84	20.82						
20	QPSK	1	49	20.82	20.88	20.86	22	0				
20	QPSK	1	99	20.81	20.87	20.86						
20	QPSK	50	0	20.87	20.87	20.86						
20	QPSK	24	0	21.07	21.16	21.01	22	0				
20	QPSK	24	24	21.14	21.15	21.08						
20	QPSK	8	7	21.16	21.20	21.00	22	0				
20	QPSK	15	0	21.08	21.16	20.96						
20	16QAM	1	0	21.09	20.99	20.96						
20	16QAM	1	8	20.89	20.91	20.78	22	0				
20	16QAM	1	14	20.75	20.79	20.75						
20	16QAM	3	0	20.81	20.81	20.84						
20	16QAM	3	7	20.74	20.86	20.86	22	0				
20	16QAM	3	14	20.87	20.87	20.80						
20	16QAM	15	0	20.96	20.82	20.91						
20	16QAM	1	0	20.81	20.87	20.89	22	0				
20	16QAM	1	14	20.77	20.81	20.86						
20	16QAM	8	0	20.84	20.87	20.83						
20	16QAM	3	0	20.74	20.81	20.84	21.8	0.2				
20	16QAM	3	7	20.74	20.78	20.80						
20	16QAM	15	0	20.82	20.88	20.87						
20	256QAM	1	0	18.37	18.44	18.48						
20	256QAM	1	8	18.33	18.31	18.44	19	3				
20	256QAM	1	14	18.35	18.40	18.40						
20	256QAM	8	0	18.29	18.28	18.30						
20	256QAM	8	4	18.28	18.40	18.28	19	3				
20	256QAM	8	7	18.28	18.34	18.28						
20	256QAM	15	0	18.34	18.33	18.28						
Channel												
Frequency (MHz)												
14	QPSK	1	0	20.87	20.86	20.72						
14	QPSK	1	3	20.85	21.00	20.82	22	0				
14	QPSK	1	5	20.85	20.84	20.74						
14	QPSK	3	0	21.01	20.97	20.79						
14	QPSK	3	1	20.98	21.03	20.84						
14	QPSK	3	3	21.02	21.07	20.78						
14	QPSK	8	0	21.02	21.16	20.90	22	0				
14	16QAM	1	0	20.84	20.85	20.88						
14	16QAM	1	3	20.91	20.84	20.86						
14	16QAM	1	5	20.83	20.77	20.41	22	0				
14	16QAM	3	0	20.87	20.85	20.46						
14	16QAM	3	1	20.49	20.87	20.87						
14	16QAM	3	3	20.84	20.72	20.36	21.8	0.2				
14	16QAM	6	0	20.77	20.83	20.81	22	0				
14	16QAM	1	0	20.78	20.84	20.89						
14	16QAM	1	3	20.86	20.86	20.74						
14	16QAM	1	5	20.82	20.86	20.70	22	0				
14	16QAM	3	0	20.73	20.84	20.86						
14	16QAM	3	1	20.80	20.80	20.86						
14	16QAM	3	3	20.81	20.75	20.84						
14	16QAM	6	0	20.82	20.88	20.46	21.8	0.2				
14	256QAM	1	0	18.29	18.27	18.40						
14	256QAM	1	5	18.31	18.38	18.30	19	3				
14	256QAM											



Band 38(only on channel required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac.)	Power Low Mids Ch. (Frac.)	Power High Ch. (Frac.)	Turn-up time (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3950	3950	3950				
20	QPSK	1	0	22.72	22.42	22.82				
20	QPSK	1	49	22.74	22.51	22.49			23.8	0
20	QPSK	1	99	22.56	22.35	22.38				
20	QPSK	50	0	22.84	22.42	22.42				
20	QPSK	50	24	22.85	22.48	22.52				
20	QPSK	50	50	22.84	22.43	22.44			23.8	0
20	QPSK	100	0	22.84	22.42	22.42				
20	QPSK	100	24	22.85	22.48	22.52				
20	QPSK	100	50	22.84	22.43	22.44			23.8	0
20	HS-DMB	1	0	22.81	22.49	22.52				
20	HS-DMB	1	49	22.86	22.83	22.55			23.8	0
20	HS-DMB	1	99	22.73	22.82	22.55				
20	HS-DMB	50	0	21.41	21.26	21.23				
20	HS-DMB	50	24	21.40	21.37	21.21			22.8	1
20	HS-DMB	50	50	21.39	21.36	21.20				
20	HS-DMB	100	0	21.69	21.47	21.60				
20	HS-DMB	100	1	21.75	21.53	21.54			22.8	1
20	HS-DMB	100	24	21.60	21.45	21.39				
20	HS-DMB	100	50	21.61	21.16	21.23				
20	HS-DMB	100	99	21.40	21.23	21.23				
20	HS-DMB	100	124	21.60	21.45	21.39			21.8	2
20	HS-DMB	100	150	21.12	21.00	20.92				
20	HS-DMB	100	175	20.72	20.55	20.57				
20	HS-DMB	100	200	17.61	17.85	17.85				
20	HS-DMB	100	225	17.80	17.70	17.71			18.8	5
20	HS-DMB	100	250	17.75	17.70	17.88				
20	HS-DMB	100	275	18.08	18.03	18.03				
20	HS-DMB	100	300	18.15	18.10	18.10			18.8	5
20	HS-DMB	100	325	18.14	18.09	18.08				
20	HS-DMB	100	350	17.91	17.91	17.91				
Channel										
Frequency (MHz)				3950	3950	3950				
15	QPSK	1	0	22.72	22.43	22.43				
15	QPSK	1	37	22.72	22.54	22.47			23.8	0
15	QPSK	1	74	22.59	22.36	22.43				
15	QPSK	1	111	22.46	22.46	22.43				
15	QPSK	36	20	22.69	22.46	22.51			23.8	0
15	QPSK	36	56	22.69	22.46	22.59				
15	QPSK	36	75	22.69	22.39	22.58				
15	HS-DMB	1	0	22.65	22.49	22.51				
15	HS-DMB	1	37	22.70	22.59	22.60			23.8	0
15	HS-DMB	1	74	22.54	22.48	22.55				
15	HS-DMB	36	0	21.39	21.35	21.07				
15	HS-DMB	36	20	21.39	21.43	21.38			22.8	1
15	HS-DMB	36	39	21.04	20.81	20.93				
15	HS-DMB	36	58	21.73	21.42	21.52				
15	HS-DMB	36	77	21.66	21.52	21.50				
15	HS-DMB	100	0	21.71	21.53	21.59			22.8	1
15	HS-DMB	100	1	21.43	21.14	21.28				
15	HS-DMB	100	20	21.39	21.36	21.21				
15	HS-DMB	100	39	21.39	21.36	21.21			21.8	2
15	HS-DMB	100	58	21.18	21.01	21.03				
15	HS-DMB	100	77	21.18	21.01	21.03				
15	HS-DMB	100	96	21.18	21.01	21.03				
15	HS-DMB	100	115	21.18	21.01	21.03				
15	HS-DMB	100	134	21.18	21.01	21.03				
15	HS-DMB	100	153	21.18	21.01	21.03				
15	HS-DMB	100	172	21.18	21.01	21.03				
15	HS-DMB	100	191	21.18	21.01	21.03				
15	HS-DMB	100	210	21.18	21.01	21.03				
15	HS-DMB	100	229	21.18	21.01	21.03				
15	HS-DMB	100	248	21.18	21.01	21.03				
15	HS-DMB	100	267	21.18	21.01	21.03				
15	HS-DMB	100	286	21.18	21.01	21.03				
15	HS-DMB	100	305	21.18	21.01	21.03				
15	HS-DMB	100	324	21.18	21.01	21.03				
15	HS-DMB	100	343	21.18	21.01	21.03				
15	HS-DMB	100	362	21.18	21.01	21.03				
15	HS-DMB	100	381	21.18	21.01	21.03				
15	HS-DMB	100	400	21.18	21.01	21.03				
15	HS-DMB	100	419	21.18	21.01	21.03				
15	HS-DMB	100	438	21.18	21.01	21.03				
15	HS-DMB	100	457	21.18	21.01	21.03				
15	HS-DMB	100	476	21.18	21.01	21.03				
15	HS-DMB	100	495	21.18	21.01	21.03				
15	HS-DMB	100	514	21.18	21.01	21.03				
15	HS-DMB	100	533	21.18	21.01	21.03				
15	HS-DMB	100	552	21.18	21.01	21.03				
15	HS-DMB	100	571	21.18	21.01	21.03				
15	HS-DMB	100	590	21.18	21.01	21.03				
15	HS-DMB	100	609	21.18	21.01	21.03				
15	HS-DMB	100	628	21.18	21.01	21.03				
15	HS-DMB	100	647	21.18	21.01	21.03				
15	HS-DMB	100	666	21.18	21.01	21.03				
15	HS-DMB	100	685	21.18	21.01	21.03				
15	HS-DMB	100	704	21.18	21.01	21.03				
15	HS-DMB	100	723	21.18	21.01	21.03				
15	HS-DMB	100	742	21.18	21.01	21.03				
15	HS-DMB	100	761	21.18	21.01	21.03				
15	HS-DMB	100	780	21.18	21.01	21.03				
15	HS-DMB	100	799	21.18	21.01	21.03				
15	HS-DMB	100	818	21.18	21.01	21.03				
15	HS-DMB	100	837	21.18	21.01	21.03				
15	HS-DMB	100	856	21.18	21.01	21.03				
15	HS-DMB	100	875	21.18	21.01	21.03				
15	HS-DMB	100	894	21.18	21.01	21.03				
15	HS-DMB	100	913	21.18	21.01	21.03				
15	HS-DMB	100	932	21.18	21.01	21.03				
15	HS-DMB	100	951	21.18	21.01	21.03				
15	HS-DMB	100	970	21.18	21.01	21.03				
15	HS-DMB	100	989	21.18	21.01	21.03				
15	HS-DMB	100	1008	21.18	21.01	21.03				
15	HS-DMB	100	1027	21.18	21.01	21.03				
15	HS-DMB	100	1046	21.18	21.01	21.03				
15	HS-DMB	100	1065	21.18	21.01	21.03				
15	HS-DMB	100	1084	21.18	21.01	21.03				
15	HS-DMB	100	1103	21.18	21.01	21.03				
15	HS-DMB	100	1122	21.18	21.01	21.03				
15	HS-DMB	100	1141	21.18	21.01	21.03				
15	HS-DMB	100	1160	21.18	21.01	21.03				
15	HS-DMB	100	1179	21.18	21.01	21.03				
15	HS-DMB	100	1198	21.18	21.01	21.03				
15	HS-DMB	100	1217	21.18	21.01	21.03				
15	HS-DMB	100	1236	21.18	21.01	21.03				
15	HS-DMB	100	1255	21.18	21.01	21.03				
15	HS-DMB	100	1274	21.18	21.01	21.03				
15	HS-DMB	100	1293	21.18	21.01	21.03				
15	HS-DMB	100	1312	21.18	21.01	21.03				
15	HS-DMB	100	1331	21.18	21.01	21.03				
15	HS-DMB	100	1350	21.18	21.01	21.03				
15	HS-DMB	100	1369	21.18	21.01	21.03				
15	HS-DMB	100	1388	21.18	21.01	21.03				
15	HS-DMB	100	1407	21.18	21.01	21.03				
15	HS-DMB	100	1426	21.18	21.01	21.03				
15	HS-DMB	100	1445	21.18	21.01	21.03				
15	HS-DMB	100	1464	21.18	21.01	21.03				
15	HS-DMB	100	1483							



Reduced Power for Sensor On for LAT

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
TX Channel	Rx Channel	9292	9600	9938		1512	1413	1513	
Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6		
3GPP Rel 99	AMR 12.2kbps	21.30	21.48	21.35	22.20	21.78	21.89	21.70	22.60
3GPP Rel 99	RMC 12.2kbps	21.35	21.50	21.37	22.20	21.81	21.90	21.71	22.60
3GPP Rel 6	HSDPA Subtest-1	20.37	20.53	20.39	21.20	20.84	20.83	20.80	21.60
3GPP Rel 6	HSDPA Subtest-2	20.39	20.55	20.41	21.20	20.83	20.88	20.77	21.60
3GPP Rel 6	HSDPA Subtest-3	19.87	20.09	19.88	20.70	20.41	20.44	20.21	21.10
3GPP Rel 6	HSDPA Subtest-4	19.93	20.08	19.89	20.70	20.21	20.38	20.24	21.10
3GPP Rel 8	DC-HSDPA Subtest-1	20.36	20.52	20.38	21.20	20.83	20.82	20.79	21.60
3GPP Rel 8	DC-HSDPA Subtest-2	20.37	20.53	20.39	21.20	20.81	20.86	20.75	21.60
3GPP Rel 8	DC-HSDPA Subtest-3	19.85	20.07	19.86	20.70	20.39	20.42	20.19	21.10
3GPP Rel 8	DC-HSDPA Subtest-4	19.91	20.03	19.87	20.70	20.19	20.36	20.22	21.10
3GPP Rel 6	HSUPA Subtest-1	20.42	20.53	20.45	21.20	20.89	20.90	20.71	21.60
3GPP Rel 6	HSUPA Subtest-2	18.43	18.61	18.48	19.20	18.78	18.93	18.62	19.60
3GPP Rel 6	HSUPA Subtest-3	19.31	19.57	19.40	20.20	19.34	19.43	19.25	20.60
3GPP Rel 6	HSUPA Subtest-4	18.19	18.36	18.25	19.20	18.06	18.22	18.07	19.60
3GPP Rel 6	HSUPA Subtest-5	20.40	20.60	20.60	21.20	20.90	20.90	20.80	21.60
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.24	18.36	18.25	18.70	18.21	18.38	18.35	19.10

Band		CDMA BC1			Tune-up Limit (dBm)
TX Channel		25	600	1175	
Frequency (MHz)		1851.25	1880	1908.75	
RC1 SQ55		21.65	21.72	21.65	22.70
RC3 SQ55		21.68	21.75	21.66	22.70
RC3 SQ32 (F-SCH)		21.70	21.76	21.66	22.70
RC3 SQ32 (S-SCH)		21.60	21.70	21.55	22.70
RTAP 153.6kbps		21.72	21.83	21.69	22.70
RETAP 4096bits		21.70	21.79	21.68	22.70



Band 2 (1900MHz Band)									
Part 24Z									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Power Ch./Freq.	Time-up Int. (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.05	21.27	20.99			
20	QPSK	1	90	20.92	21.09	21.13	22	0	
20	QPSK	50	0	21.09	21.22	21.16			
20	QPSK	50	90	21.13	21.24	21.20	22	0	
20	QPSK	50	50	21.17	21.21	21.23			
20	QPSK	100	0	21.10	21.13	21.14			
20	HQAM	1	0	20.90	21.00	20.95	22	0	
20	HQAM	1	90	20.89	21.17	20.98			
20	HQAM	50	0	20.92	20.92	20.95			
20	HQAM	50	24	20.94	20.96	20.75	21	0.2	
20	HQAM	50	50	20.78	20.99	20.26			
20	HQAM	100	0	20.82	20.82	20.85			
20	HQAM	1	0	21.15	21.01	21.07			
20	HQAM	1	90	20.98	21.22	20.89	22	0	
20	HQAM	50	0	20.77	20.78	20.69			
20	HQAM	50	24	20.84	20.84	20.84	21	0.2	
20	HQAM	50	50	20.78	20.86	20.89			
20	HQAM	100	0	20.74	20.87	20.85			
20	HQAM	1	0	18.45	18.52	18.54			
20	HQAM	1	90	18.57	18.58	18.59	19	3	
20	HQAM	50	0	18.33	18.48	18.43			
20	HQAM	50	24	18.45	18.46	18.48	19	3	
20	HQAM	50	50	18.48	18.55	18.48			
20	HQAM	100	0	18.50	18.47	18.45			
Channel									
Frequency (MHz)									
15	QPSK	1	0	21.09	21.18	21.07			
15	QPSK	1	37	21.03	21.09	21.08	22	0	
15	QPSK	1	74	20.97	21.18	21.11			
15	QPSK	36	0	21.10	21.18	21.09			
15	QPSK	36	20	21.19	21.21	21.17	21	0	
15	QPSK	36	36	21.17	21.09	21.19			
15	HQAM	1	0	21.16	21.20	21.17	22	0	
15	HQAM	1	0	20.84	21.19	21.08			
15	HQAM	1	37	20.97	20.94	20.98			
15	HQAM	36	0	20.99	21.22	20.97			
15	HQAM	36	0	20.88	20.97	20.77	22	0	
15	HQAM	36	20	20.82	20.99	20.83			
15	HQAM	36	36	20.80	20.98	20.90			
15	HQAM	75	0	20.83	20.84	20.90			
15	HQAM	1	0	21.01	20.95	20.87			
15	HQAM	37	0	20.87	20.88	20.90	22	0	
15	HQAM	1	74	21.11	21.16	21.13			
15	HQAM	36	0	20.71	20.84	20.74			
15	HQAM	36	0	20.82	20.88	20.75	21	0.2	
15	HQAM	36	36	20.74	20.99	20.95			
15	HQAM	75	0	20.80	20.86	20.85			
15	HQAM	1	37	18.49	18.55	18.50	19	3	
15	HQAM	1	74	18.53	18.54	18.46			
15	HQAM	36	0	18.29	18.45	18.39			
15	HQAM	36	20	18.41	18.42	18.44	19	3	
15	HQAM	36	36	18.44	18.51	18.45			
15	HQAM	75	0	18.45	18.38	18.38			
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.01	21.16	21.01			
10	QPSK	1	25	21.03	21.15	21.02	22	0	
10	QPSK	1	40	20.93	20.98	20.92			
10	QPSK	25	0	21.18	21.11	21.00			
10	QPSK	25	12	21.18	21.22	21.15	22	0	
10	QPSK	25	25	21.18	21.12	21.21			
10	QPSK	50	0	21.16	21.17	21.19			
10	HQAM	1	0	21.07	21.11	21.08	22	0	
10	HQAM	1	25	20.98	21.19	21.15			
10	HQAM	1	40	21.18	21.13	21.21			
10	HQAM	25	0	20.87	20.88	20.87			
10	HQAM	25	12	20.83	20.84	20.72	22	0	
10	HQAM	25	25	20.90	21.10	20.93			
10	HQAM	50	0	20.87	20.92	20.89			
10	HQAM	1	0	21.08	20.73	21.08			
10	HQAM	1	25	21.01	21.12	20.82	22	0	
10	HQAM	1	40	21.16	20.89	21.09			
10	HQAM	25	0	20.72	20.88	20.85			
10	HQAM	25	12	21.05	20.82	20.78	21	0.2	
10	HQAM	25	25	20.94	20.86	20.83			
10	HQAM	50	0	20.75	20.78	20.74			
10	HQAM	1	0	18.38	18.43	18.46			
10	HQAM	1	25	18.44	18.50	18.45	19	3	
10	HQAM	1	40	18.46	18.49	18.41			
10	HQAM	25	0	18.24	18.39	18.34			
10	HQAM	25	12	18.36	18.37	18.39	19	3	
10	HQAM	25	25	18.39	18.46	18.40			
10	HQAM	50	0	18.41	18.38	18.38			
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.11	21.02	20.94			
5	QPSK	1	12	21.20	21.02	21.04	22	0	
5	QPSK	1	24	21.17	21.20	21.11			
5	QPSK	12	0	21.18	21.22	21.15			
5	QPSK	12	7	21.06	21.09	21.22	22	0	
5	QPSK	12	13	21.16	21.00	21.11			
5	QPSK	12	19	21.18	21.15	21.12			
5	HQAM	1	0	21.21	21.01	21.21			
5	HQAM	1	12	20.83	21.07	20.92	22	0	
5	HQAM	1	24	21.10	21.25	21.05			
5	HQAM	12	0	21.01	20.86	20.80			
5	HQAM	12	7	20.99	20.89	20.87	22	0	
5	HQAM	12	13	20.99	20.97	20.87			
5	HQAM	25	0	20.93	20.97	20.89			
5	HQAM	1	0	20.90	21.26	21.09	22	0	
5	HQAM	1	12	20.92	21.08	21.00			
5	HQAM	1	24	21.05	21.01	20.87			
5	HQAM	12	0	20.92	20.93	20.78			
5	HQAM	12	7	20.94	20.95	20.76	21	0.2	
5	HQAM	12	13	20.80	20.95	20.75			
5	HQAM	25	0	20.77	20.86	20.75			
5	HQAM	1	0	18.48	18.55	18.58			
5	HQAM	1	12	18.56	18.62	18.57	19	3	
5	HQAM	1	24	18.50	18.61	18.53			
5	HQAM	12	0	18.27	18.42	18.40			
5	HQAM	12	7	18.48	18.49	18.51	19	3	
5	HQAM	12	13	18.51	18.58	18.52			
5	HQAM	25	0	18.52	18.43	18.41			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	21.14	21.16	20.91			
1.4	QPSK	1	3	21.09	21.09	20.93	22	0	
1.4	QPSK	1	6	20.96	21.14	20.98			
1.4	QPSK	1	21.06	21.07	20.90	1.4			
1.4	QPSK	3	1	21.12	21.14	21.03			
1.4	QPSK	3	3	21.11	21.19	20.95			
1.4	HQAM	1	0	21.13	21.25	21.02	22	0	
1.4	HQAM	1	0	21.08	21.15	20.82			
1.4	HQAM	1	3	21.07	21.19	21.09			
1.4	HQAM	3	1	21.10	20.73	21.21	22	0	
1.4	HQAM	3	0	20.89	20.85	20.74			
1.4	HQAM	3	1	20.85	21.01	20.82			
1.4	HQAM	3	3	20.72	20.68	20.72	21	0.2	
1.4	HQAM	6	0	20.97	21.09	20.86	22	0	
1.4	HQAM	1	0	21.18	20.78	20.80			
1.4	HQAM	1	3	20.45	21.30	21.16	21	0.2	
1.4	HQAM	1	5	20.83	20.88	20.83			
1.4	HQAM	1	20.82	21.16	20.87	22	0		
1.4	HQAM	3	1	21.20	21.36	21.08			
1.4	HQAM	3	3	20.89	21.12	20.95			
1.4	HQAM	6	0	20.88	20.84	20.71	21	0.2	
1.4	HQAM	1	0	18.37	18.46	18.40			
1.4	HQAM	1	3	18.47	18.53	18.48			
1.4	HQAM	1	5	18.51	18.52	18.44	19	3	
1.4	HQAM	3	1	18.50	18.40	18.42			
1.4	HQAM	3	3	18.42	18.49	18.43			
1.4	HQAM	6	0	18.44	18.41	18.39	19	3	

Band 4 (AWS Band)									
Part 27L (only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Power Ch./Freq.	Time-up Int. (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.55	21.20	21.25			
20	QPSK	1	90	21.11	21.10	21.09	21	0	
20	QPSK	1	99	21.07	21.13	20.99			
20	QPSK	50	0	21.31	21.27	21.29	21	0	
20	QPSK	50	90	21.31	21.22	21.22			
20	QPSK	50	50	21.13	21.14	21.14			
20	QPSK	100	0	21.25	21.19	21.11			
20	HQAM	1	0	21.40	21.32	21.32	21	0	
20	HQAM	1	49	21.39	21.37	21.39			
20	HQAM	1	99	21.43	21.49	21.01			
20	HQAM	50	0	21.41	21.39	21.39			
20	HQAM	50	24	21.31	21.16	21.17	21	0	
20	HQAM	50	50	21.27	21.04	21.10			
20	HQAM	100	0	21.21	21.21	21.14			
20	HQAM	1	0	21.27	21.29	21.29			
20	HQAM	1	49	21.21	21.49	21.11	21	0	
20	HQAM	50	0	20.92	20.97	20.93			
20	HQAM	50	24	20.90	20.81	20.84	21	0	
20	HQAM	50	50	20.82	20.71	20.74			
20	HQAM	100	0	20.91	20.83	20.75			
20	HQAM	1	0	18.90	18.84	18.81			
20	HQAM	1	49	18.83	18.82	18.82	19	2	
20	HQAM	1	99	18.87	18.49	18.41			
20	HQAM	50	0	18.64	18.49	18.64			
20</									



5G NR EN-DC Ant 1 Full Power Mode

Band 7 (2600MHz Band)											Band 66												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low	Power High	Power MDRB	Power High	Power High	Tune-up (dBm)	MPR (dB)	Channel	Frequency (MHz)	RB Size	RB Offset	Power Low	Power High	Power MDRB	Power High	Power High	Tune-up (dBm)	MPR (dB)		
Channel											Channel												
20080 21100 21350											130072 130322 130572												
20	QPSK	1	0	20.22	20.40	20.32						20	QPSK	1	0	20.68	20.51	20.59					
20	QPSK	1	49	20.27	20.42	20.37			21.5	0		20	QPSK	1	49	20.56	20.77	20.50			22	0	
20	QPSK	1	99	20.35	20.50	20.43						20	QPSK	1	99	20.58	20.68	20.41					
20	QPSK	50	0	19.20	19.44	19.38						20	QPSK	50	0	19.68	19.86	19.84					
20	QPSK	50	24	19.40	19.53	19.51			20.5	1		20	QPSK	50	24	19.75	19.92	19.88			21	1	
20	QPSK	50	49	19.44	19.61	19.53						20	QPSK	50	49	19.88	19.80	19.57					
20	QPSK	100	0	19.41	19.55	19.50						20	QPSK	100	0	19.70	19.81	19.84					
20	16QAM	1	0	19.57	19.72	19.65						20	16QAM	1	0	20.02	20.24	20.32					
20	16QAM	1	49	19.61	19.75	19.72			20.5	1		20	16QAM	1	49	19.92	20.08	19.84			21	1	
20	16QAM	1	99	19.61	19.81	19.76						20	16QAM	1	99	19.98	19.96	19.75					
20	16QAM	50	0	18.34	18.43	18.41						20	16QAM	50	0	18.65	18.86	18.85					
20	16QAM	50	24	18.43	18.46	18.53			19.5	2		20	16QAM	50	24	18.74	18.83	18.89			20	2	
20	16QAM	50	49	18.46	18.58	18.54						20	16QAM	50	49	18.87	18.82	18.59					
20	16QAM	100	0	18.40	18.43	18.53						20	16QAM	100	0	18.70	18.81	18.87					
20	16QAM	100	1	18.43	18.62	18.53			19.5	2		20	16QAM	100	1	18.75	18.85	18.81			20	2	
20	16QAM	1	49	18.52	18.53	18.57						20	16QAM	1	49	18.87	19.01	18.94					
20	16QAM	1	99	18.52	18.67	18.61						20	16QAM	1	99	18.81	18.93	18.58					
20	16QAM	50	0	17.36	17.48	17.41						20	16QAM	50	0	17.69	17.86	17.88					
20	16QAM	50	24	17.42	17.52	17.58						20	16QAM	50	24	17.70	17.84	17.82					
20	16QAM	50	49	17.48	17.57	17.56			18.5	3		20	16QAM	50	49	17.73	17.85	17.59			19	3	
20	16QAM	100	0	17.43	17.46	17.51						20	16QAM	100	0	17.73	17.84	17.86					
20	256QAM	1	0	15.66	15.73	15.68						20	256QAM	1	0	15.66	15.80	15.93					
20	256QAM	1	49	15.72	15.88	15.77			16.5	5		20	256QAM	1	49	15.62	16.01	15.48			17	5	
20	256QAM	1	99	15.68	15.84	15.88						20	256QAM	1	99	15.68	15.96	15.43					
20	256QAM	50	0	15.62	15.68	15.68						20	256QAM	50	0	15.63	15.89	15.83					
20	256QAM	50	24	15.59	15.70	15.83						20	256QAM	50	24	15.69	15.77	15.58					
20	256QAM	50	49	15.61	15.76	15.71			16.5	5		20	256QAM	50	49	15.66	15.75	15.87			17	5	
20	256QAM	100	0	15.66	15.73	15.67						20	256QAM	100	0	15.67	15.80	15.58					
Channel											Channel												
20025 21100 21375											130077 130322 130577												
16	QPSK	1	0	20.29	20.40	20.33						16	QPSK	1	0	20.56	20.65	20.59					
16	QPSK	1	47	20.32	20.47	20.40			21.5	0		16	QPSK	1	47	20.56	20.78	20.51			22	0	
16	QPSK	1	94	20.32	20.48	20.39						16	QPSK	1	94	20.48	20.70	20.42					
16	QPSK	36	0	19.29	19.43	19.41						16	QPSK	36	0	19.63	19.84	19.57					
16	QPSK	36	18	19.41	19.43	19.43			20.5	1		16	QPSK	36	18	19.70	19.82	19.80			21	1	
16	QPSK	36	36	19.38	19.58	19.48						16	QPSK	36	36	19.67	19.83	19.56					
16	QPSK	75	0	19.36	19.43	19.38						16	QPSK	75	0	19.67	19.82	19.84					
16	16QAM	1	0	19.32	19.37	19.33						16	16QAM	1	0	19.67	20.03	19.93					
16	16QAM	1	37	19.62	19.81	19.55			20.5	1		16	16QAM	1	37	19.91	20.15	19.79			21	1	
16	16QAM	1	74	19.57	19.78	19.76						16	16QAM	1	74	19.81	20.00	19.78					
16	16QAM	36	0	19.29	19.45	19.48						16	16QAM	36	0	19.61	19.82	19.90					
16	16QAM	36	18	19.38	19.48	19.59			19.5	2		16	16QAM	36	18	19.72	19.82	19.58			20	2	
16	16QAM	36	36	19.38	19.55	19.50						16	16QAM	36	36	19.66	19.84	19.56					
16	16QAM	75	0	19.38	19.48	19.48						16	16QAM	75	0	19.70	19.79	19.55					
16	16QAM	75	1	19.38	19.63	19.44			19.5	2		16	16QAM	75	1	19.78	19.90	19.78			20	2	
16	16QAM	1	37	19.47	19.69	19.63						16	16QAM	1	37	19.85	19.98	19.89			20	2	
16	16QAM	1	74	19.44	19.65	19.44						16	16QAM	1	74	19.72	19.81	19.71					
16	16QAM	36	0	17.33	17.50	17.43						16	16QAM	36	0	17.68	17.85	17.59					
16	16QAM	36	18	17.40	17.51	17.56			18.5	3		16	16QAM	36	18	17.70	17.86	17.57			19	3	
16	16QAM	36	36	17.42	17.48	17.44						16	16QAM	36	36	17.70	17.86	17.59					
16	16QAM	75	0	17.37	17.47	17.44						16	16QAM	75	0	17.70	17.78	17.53					
16	256QAM	1	0	15.63	15.77	15.69						16	256QAM	1	0	15.64	15.78	15.61					
16	256QAM	1	37	15.72	15.89	15.78			16.5	5		16	256QAM	1	37	15.60	15.92	15.50			17	5	
16	256QAM	1	74	15.66	15.82	15.68						16	256QAM	1	74	15.66	15.94	15.41					
16	256QAM	36	0	15.63	15.67	15.68						16	256QAM	36	0	15.65	15.71	15.58					
16	256QAM	36	18	15.60	15.69	15.83						16	256QAM	36	18	15.71	15.79	15.60			17	5	
16	256QAM	36	36	15.62	15.77	15.71						16	256QAM	36	36	15.67	15.73	15.65					
16	256QAM	75	0	15.67	15.74	15.87						16	256QAM	75	0	15.69	15.78	15.56					
Channel											Channel												
20080 21100 21400											130077 130322 130577												
10	QPSK	1	0	20.12	20.24	20.19						10	QPSK	1	0	20.61	20.80	20.46					
10	QPSK	1	25	20.04	20.28	20.26			21.5	0		10	QPSK	1	25	20.50	20.71	20.41			22	0	
10	QPSK	1	49	20.11	20.36	20.30						10	QPSK	49	20.04	20.84	20.31						
10	QPSK	25	0	19.27	19.38	19.34						10	QPSK	25	0	19.66	19.79	19.81					
10	QPSK	25	12	19.33	19.40	19.39			20.5	1		10	QPSK	25	12	19.73	19.78	19.58			21	1	
10	QPSK	25	25	19.36	19.42	19.38					</												



5G NR EN-DC Ant 0 Full Power Mode

Band 7 (2600MHz Band)										Band 66									
BW (MHz)	Modulation	RB Size	RB Offset	Low Ch. Freq.	Mid. Freq.	Power High Freq.	Turn-up (dBm)	MPR (dB)		BW (MHz)	Modulation	RB Size	RB Offset	Low Ch. Freq.	Mid. Freq.	Power High Freq.	Turn-up (dBm)	MPR (dB)	
Channel										Channel									
Frequency (MHz)										Frequency (MHz)									
20	QPSK	1	0	23.77	24.02	23.99				20	QPSK	1	0	23.64	23.71	23.53			
20	QPSK	1	49	23.78	24.07	24.00	25	0		20	QPSK	1	49	23.55	23.58	23.46	24.5	0	
20	QPSK	1	98	23.80	24.10	24.02				20	QPSK	1	98	23.46	23.47	23.37			
20	QPSK	50	0	22.80	23.12	23.08				20	QPSK	50	0	22.63	22.75	22.57			
20	QPSK	50	24	22.83	23.18	23.10	24	1		20	QPSK	50	24	22.69	22.81	22.63	23.5	1	
20	QPSK	50	100	22.91	23.13	23.10				20	QPSK	50	100	22.61	22.68	22.54			
20	16QAM	1	0	23.04	23.30	23.31				20	16QAM	1	0	23.07	23.07	22.98			
20	16QAM	1	49	23.12	23.44	23.39	24	1		20	16QAM	1	49	22.98	22.94	22.79	23.5	1	
20	16QAM	1	98	23.24	23.64	23.47				20	16QAM	1	98	22.92	22.84	22.76			
20	16QAM	50	0	21.80	22.12	22.09				20	16QAM	50	0	21.67	21.72	21.57			
20	16QAM	50	24	21.84	22.19	22.13	23	2		20	16QAM	50	24	21.72	21.80	21.64	22.5	2	
20	16QAM	50	100	21.97	22.25	22.24				20	16QAM	50	100	21.65	21.70	21.53			
20	64QAM	1	0	21.92	22.15	22.13				20	64QAM	1	0	21.68	21.83	21.48			
20	64QAM	1	49	21.95	22.21	22.19	23	2		20	64QAM	1	49	21.51	21.86	21.82	22.5	2	
20	64QAM	1	98	22.02	22.43	22.24				20	64QAM	1	98	21.74	21.87	21.77			
20	64QAM	50	0	20.81	21.17	21.11				20	64QAM	50	0	20.96	20.76	20.60			
20	64QAM	50	24	20.82	21.21	21.15				20	64QAM	50	24	20.73	20.71	20.57			
20	64QAM	50	100	20.98	21.27	21.25	22	3		20	64QAM	50	100	20.67	20.72	20.54	21.5	3	
20	256QAM	1	0	19.08	19.11	19.10				20	256QAM	1	0	18.92	18.96	18.93			
20	256QAM	1	49	19.15	19.18	19.18	20	5		20	256QAM	1	49	18.85	18.94	18.76	19.5	5	
20	256QAM	1	99	19.19	19.23	19.21				20	256QAM	1	99	18.79	18.82	18.72			
20	256QAM	50	0	18.92	19.05	19.05				20	256QAM	50	0	18.65	18.78	18.62			
20	256QAM	50	24	18.95	19.00	18.95				20	256QAM	50	24	18.62	18.73	18.55	19.5	5	
20	256QAM	50	100	19.01	19.07	19.04				20	256QAM	50	100	18.73	18.78	18.68			
20	256QAM	100	0	18.86	19.00	19.00				20	256QAM	100	0	18.65	18.71	18.61			
Channel										Channel									
Frequency (MHz)										Frequency (MHz)									
15	QPSK	1	0	23.69	24.05	24.03				15	QPSK	1	0	23.60	23.67	23.48			
15	QPSK	1	47	23.69	24.02	24.00	25	0		15	QPSK	1	47	23.49	23.61	23.43	24.5	0	
15	QPSK	1	74	23.82	24.19	24.10				15	QPSK	1	74	23.46	23.50	23.35			
15	QPSK	36	0	22.76	23.15	23.10				15	QPSK	36	0	22.66	22.69	22.56			
15	QPSK	36	18	22.78	23.13	23.12	24	1		15	QPSK	36	18	22.61	22.63	22.47	23.5	1	
15	QPSK	36	78	22.83	23.24	23.18				15	QPSK	36	78	22.62	22.70	22.54			
15	QPSK	75	0	22.86	23.15	23.07				15	QPSK	75	0	22.69	22.67	22.46			
15	16QAM	1	0	22.97	23.34	23.17				15	16QAM	1	0	22.67	22.68	22.50			
15	16QAM	1	37	22.97	23.44	23.44	24	1		15	16QAM	1	37	22.54	22.59	22.78	23.5	1	
15	16QAM	1	74	23.22	23.46	23.44				15	16QAM	1	74	22.87	22.87	22.73			
15	16QAM	36	0	21.77	22.17	22.08				15	16QAM	36	0	21.71	21.74	21.62			
15	16QAM	36	20	21.85	22.21	22.19	23	2		15	16QAM	36	20	21.69	21.70	21.52	22.5	2	
15	16QAM	36	59	21.85	22.20	22.18				15	16QAM	36	59	21.65	21.70	21.65			
15	16QAM	75	0	21.87	22.19	22.18				15	16QAM	75	0	21.69	21.67	21.53			
15	64QAM	1	0	21.91	22.28	22.20				15	64QAM	1	0	21.75	21.81	21.73			
15	64QAM	1	37	21.99	22.52	22.44	23	2		15	64QAM	1	37	21.86	21.83	21.75	22.5	2	
15	64QAM	1	74	22.27	22.34	22.34				15	64QAM	1	74	21.78	21.68	21.59			
15	64QAM	36	0	20.82	21.14	21.16				15	64QAM	36	0	20.70	20.74	20.55			
15	64QAM	36	20	20.92	21.17	21.25	22	3		15	64QAM	36	20	20.71	20.70	20.56	21.5	3	
15	64QAM	75	0	20.94	21.24	21.25				15	64QAM	75	0	20.69	20.68	20.49			
15	64QAM	75	0	20.85	21.18	21.11				15	64QAM	75	0	20.65	20.68	20.48			
15	256QAM	1	0	19.18	19.22	19.18				15	256QAM	1	0	18.94	18.95	18.90			
15	256QAM	1	37	19.11	19.20	19.15	20	5		15	256QAM	1	37	18.72	18.80	18.62	19.5	5	
15	256QAM	1	74	19.18	19.17	19.09				15	256QAM	1	74	18.79	18.83	18.77			
15	256QAM	36	0	18.94	19.02	19.00				15	256QAM	36	0	18.60	18.78	18.65			
15	256QAM	36	20	18.98	19.00	18.96				15	256QAM	36	20	18.51	18.73	18.58	19.5	5	
15	256QAM	36	59	19.02	19.10	19.05				15	256QAM	36	59	18.84	18.83	18.69			
15	256QAM	75	0	19.04	19.08	19.07				15	256QAM	75	0	18.57	18.70	18.61			
Channel										Channel									
Frequency (MHz)										Frequency (MHz)									
10	QPSK	1	0	23.83	23.90	23.97				10	QPSK	1	0	23.56	23.66	23.37			
10	QPSK	1	25	23.80	23.97	23.95	25	0		10	QPSK	1	25	23.52	23.58	23.36	24.5	0	
10	QPSK	1	49	23.88	24.08	24.08				10	QPSK	1	49	23.48	23.43	23.32			
10	QPSK	25	0	22.81	23.10	23.16				10	QPSK	25	0	22.68	22.83	22.47			
10	QPSK	25	12	22.80	23.18	23.17	24	1		10	QPSK	25	12	22.70	22.64	22.45	23.5	1	
10	QPSK	25	25	22.80	23.20	23.18				10	QPSK	25	25	22.69	22.70	22.50			
10	QPSK	25	50	22.81	23.13	23.13				10	QPSK	25	50	22.61	22.61	22.43			
10	16QAM	1	0	23.03	23.37	23.35				10	16QAM	1	0	22.88	22.96	22.82			
10	16QAM	1	25	23.00	23.28	23.34	24	1		10	16QAM	1	25	22.89	22.83	22.77	23.5	1	
10	16QAM	1	49	23.00	23.40	23.40				10	16QAM	1	49	22.82	22.82	22.73			
10	16QAM	25	0	21.78	22.10	22.13				10	16QAM	25	0	21.70	21.83	21.51			
10	16QAM	25	12	21.83	22.15	22.15	23	2		10	16QAM	25	12	21.70	21.83	21.47	22.5	2	
10	16QAM	25	25	21.80	22.21	22.14				10	16QAM	25	25	21.65	21.65	21.48			
10	16QAM	50	0	21.78	22.12	22.18				10	16QAM	50	0	21.67	21.83	21.44			
10	64QAM	1	0	21.95	22.21	22.20				10	64QAM	1	0	21.41	21.78	21.60			
10	64QAM	1	25	21.98	22.33	22.25	23	2		10	64QAM	1	25	21.55	21.73	21.67	22.5	2	
10	64QAM	1	49	21.93	22.38	22.25				10	64QAM	1	49	21.73	21.75	21.65			
10	64QAM	25	0	20.82	21.14	21.17				10	64QAM	25	0	20.71	20.74	20.53			
10	64QAM	25	12	20.82	21.20	21.23	22	3		10	64QAM	25	12	20.74	20.73	20.52	21.5	3	
10	64QAM	25	25	20.82	21.28	21.21				10	64QAM	25	25	20.67	20.70	20.43			
10	64QAM	50	0	20.81	21.18	21.19				10	64QAM	50	0	20.67	20.70	20.43			
10	256QAM	1	0	19.13	19.10	19.17				10	256QAM	1	0	18.94	18.95	18.90			
10	256QAM	1	25	19.08	19.14	19.10	20	5		10	256QAM	1	25	18.73	18.80	18.64	19.5	5	
10	256QAM	1	49	19.12	19.20	19.16				10									



5G NR EN-DC Ant 0 Reduced Power Level 1 for Head

Band 7 (2600MHz Band)										
BW (MHz)	Modulation	RB Size	RB Offset	Low Ch. Freq.	Mid Ch. Freq.	Power High	Power High	Power High	Tune-up (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	15.16	15.48	15.38				
20	QPSK	1	49	15.19	15.58	15.34			16.6	0
20	QPSK	1	99	15.43	15.88	15.30				
20	QPSK	50	0	15.25	15.38	15.30				
20	QPSK	50	24	15.35	15.45	15.43			16.6	0
20	QPSK	50	50	15.38	15.41					
20	QPSK	100	0	15.34	15.47	15.43				
20	16QAM	1	0	15.16	15.57	15.34				
20	16QAM	1	49	15.14	15.46	15.42			16.6	0
20	16QAM	1	99	15.39	15.64	15.40				
20	16QAM	50	0	15.12	15.30	15.20				
20	16QAM	50	24	15.22	15.23	15.12			16.6	0
20	16QAM	50	50	15.23	15.45	15.19				
20	16QAM	100	0	15.18	15.35	15.11				
20	16QAM	1	0	15.23	15.30	15.30			16.6	0
20	16QAM	1	49	15.17	15.23	15.16				
20	16QAM	1	99	15.24	15.35	15.33				
20	16QAM	50	0	15.11	15.34	15.15				
20	16QAM	50	24	15.22	15.28	15.20			16.6	0
20	16QAM	50	50	15.22	15.47	15.24				
20	16QAM	100	0	15.19	15.29	15.11				
20	16QAM	1	0	15.21	15.27	15.18				
20	256QAM	1	49	15.34	15.42	15.46			16.6	0
20	256QAM	1	99	15.38	15.64	15.45				
20	256QAM	50	0	15.22	15.40	15.42				
20	256QAM	50	24	15.43	15.58	15.37			16.6	0
20	256QAM	50	50	15.61	15.42	15.48				
20	256QAM	100	0	15.42	15.45	15.38				
Channel										
Frequency (MHz)										
15	QPSK	1	0	15.11	15.41	15.31				
15	QPSK	1	47	15.14	15.45	15.29			16.6	0
15	QPSK	1	74	15.38	15.69	15.83				
15	QPSK	36	0	15.20	15.23	15.25				
15	QPSK	36	48	15.30	15.43	15.38			16.6	0
15	QPSK	36	78	15.33	15.42	15.51				
15	QPSK	75	0	15.29	15.42	15.38				
15	16QAM	1	0	15.11	15.25	15.20				
15	16QAM	1	37	15.09	15.41	15.37			16.6	0
15	16QAM	1	74	15.21	15.39	15.30				
15	16QAM	36	0	15.07	15.25	15.15				
15	16QAM	36	20	15.17	15.20	15.07			16.6	0
15	16QAM	36	39	15.18	15.40	15.14				
15	16QAM	75	0	15.18	15.20	15.08				
15	16QAM	1	0	15.18	15.34	15.25				
15	16QAM	1	37	15.12	15.28	15.11			16.6	0
15	16QAM	1	74	15.19	15.29	15.24				
15	16QAM	36	0	15.08	15.29	15.10				
15	16QAM	36	20	15.17	15.23	15.05			16.6	0
15	16QAM	36	39	15.17	15.42	15.16				
15	16QAM	75	0	15.14	15.24	15.06				
15	256QAM	1	0	15.17	15.23	15.14				
15	256QAM	1	37	15.28	15.28	15.26			16.6	0
15	256QAM	1	74	15.30	15.42	15.41				
15	256QAM	36	0	15.46	15.40	15.38				
15	256QAM	36	20	15.39	15.50	15.31			16.6	0
15	256QAM	36	39	15.47	15.26	15.22				
15	256QAM	75	0	15.38	15.39	15.44				
Channel										
Frequency (MHz)										
10	QPSK	1	0	15.04	15.34	15.24				
10	QPSK	1	25	15.07	15.48	15.22			16.6	0
10	QPSK	1	49	15.31	15.48	15.48				
10	QPSK	25	0	15.13	15.28	15.18				
10	QPSK	25	12	15.23	15.33	15.31			16.6	0
10	QPSK	25	25	15.26	15.26	15.44				
10	QPSK	25	38	15.22	15.35	15.31				
10	16QAM	1	0	15.04	15.45	15.22				
10	16QAM	1	25	15.02	15.24	15.20			16.6	0
10	16QAM	1	49	15.14	15.32	15.23				
10	16QAM	25	0	15.00	15.18	15.08				
10	16QAM	25	12	15.10	15.21	15.00			16.6	0
10	16QAM	25	25	15.11	15.33	15.07				
10	16QAM	50	0	15.06	15.23	14.99				
10	16QAM	1	0	15.11	15.27	15.18			16.6	0
10	16QAM	1	25	15.05	15.23	15.04				
10	16QAM	1	49	15.12	15.23	15.21				
10	16QAM	25	0	14.99	15.22	15.03				
10	16QAM	25	12	15.10	15.20	14.98			16.6	0
10	16QAM	25	25	15.10	15.38	15.12				
10	16QAM	50	0	15.07	15.17	14.99				
10	256QAM	1	0	15.12	15.15	15.09				
10	256QAM	1	25	15.23	15.31	15.37			16.6	0
10	256QAM	1	49	15.28	15.46	15.38				
10	256QAM	25	0	15.44	15.28	15.30				
10	256QAM	25	12	15.34	15.45	15.29			16.6	0
10	256QAM	25	25	15.42	15.31	15.37				
10	256QAM	50	0	15.38	15.31	15.28				
Channel										
Frequency (MHz)										
5	QPSK	1	0	15.04	15.24	15.24				
5	QPSK	1	12	15.07	15.45	15.22			16.6	0
5	QPSK	1	24	15.31	15.48	15.46				
5	QPSK	12	0	15.13	15.26	15.18				
5	QPSK	12	7	15.23	15.33	15.31			16.6	0
5	QPSK	12	13	15.26	15.30	15.44				
5	QPSK	25	0	15.22	15.35	15.31				
5	16QAM	1	0	15.04	15.45	15.22				
5	16QAM	1	12	15.02	15.24	15.20			16.6	0
5	16QAM	1	24	15.14	15.32	15.23				
5	16QAM	12	0	15.00	15.18	15.08				
5	16QAM	12	7	15.10	15.21	15.00			16.6	0
5	16QAM	12	13	15.11	15.33	15.07				
5	16QAM	25	0	15.06	15.23	14.99				
5	16QAM	1	0	15.11	15.27	15.18			16.6	0
5	16QAM	1	12	15.05	15.21	15.04				
5	16QAM	1	24	15.12	15.21	15.21				
5	16QAM	12	0	14.99	15.22	15.03			16.6	0
5	16QAM	12	7	15.10	15.28	14.99				
5	16QAM	12	13	15.10	15.26	15.12				
5	16QAM	25	0	15.07	15.17	14.99				
5	256QAM	1	0	15.15	15.21	15.12				
5	256QAM	1	12	15.26	15.37	15.46			16.6	0
5	256QAM	1	24	15.34	15.52	15.41				
5	256QAM	12	0	15.50	15.45	15.39				
5	256QAM	12	7	15.37	15.53	15.29			16.6	0
5	256QAM	12	13	15.45	15.34	15.37				
5	256QAM	25	0	15.38	15.37	15.39				

Band 66										
BW (MHz)	Modulation	RB Size	RB Offset	Low Ch. Freq.	Mid Ch. Freq.	Power High	Power High	Power High	Tune-up (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	17.70	17.70	17.83				
20	QPSK	1	49	17.61	17.67	17.82			18.7	0
20	QPSK	1	99	17.56	17.61	17.83				
20	QPSK	50	0	17.64	17.67	17.90				
20	QPSK	50	24	17.67	17.70	17.47			18.7	0
20	QPSK	50	50	17.68	17.62	17.44				
20	QPSK	100	0	17.44	17.49	17.26				
20	16QAM	1	0	17.52	17.57	17.30				
20	16QAM	1	49	17.29	17.26	17.29			18.7	0
20	16QAM	1	99	17.28	17.32	17.11				
20	16QAM	50	0	17.19	17.18	17.00				
20	16QAM	50	24	17.16	17.15	16.96			18.7	0
20	16QAM	50	50	17.28	17.12	16.94				
20	16QAM	100	0	17.19	17.11	16.97				
20	16QAM	1	0	17.31	17.41	17.18			18.7	0
20	16QAM	1	49	17.25	17.29	17.12				
20	16QAM	1	99	17.45	17.54	17.24				
20	16QAM	50	0	17.46	17.52	17.33				
20	16QAM	50	24	17.49	17.48	17.25			18.7	0
20	16QAM	50	50	17.44	17.46	17.28				
20	16QAM	100	0	17.41	17.43	17.29				
20	256QAM	1	0	17.38	17.43	17.30				
20	256QAM	1	49	17.20	17.40	17.32			18.7	0
20	256QAM	1	99	17.33	17.46	17.41				
20	256QAM	50	0	17.48	17.53	17.48				
20	256QAM	50	24	17.38	17.55	17.43			18.7	0
20	256QAM	50	50	17.67	17.64	17.45				
20	256QAM	100	0	17.58	17.60	17.30				
Channel										
Frequency (MHz)										
15	QPSK	1	0	17.66	17.67	17.51				
15	QPSK	1	37	17.49	17.65	17.40			18.7	0
15	QPSK	1	74	17.38	17.39	17.21				
15	QPSK	36								



SG NR EN-DC Ant 0 Reduced Power Level 2 for Head

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power High, Power Mid, Power Low, Tune-up (dBm), MPR (dB). It is divided into three main sections: Band 7 (2600MHz Band), Band 66, and a third section with similar headers. Each section contains multiple rows of data for various modulation schemes like QPSK, 16QAM, 64QAM, 256QAM, and 5G NR NR-NTT, with varying RB sizes and offsets.



UL CA Power

CA_41C											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
39750	39948	QPSK	1	49	0	0	1	0	Full	20.41	21.80
40185	40383	QPSK	1	49	0	0	1	0	Full	20.61	21.80
40620	40422	QPSK	1	49	0	0	1	0	Full	20.47	21.80
41055	40857	QPSK	1	49	0	0	1	0	Full	20.56	21.80
41490	41292	QPSK	1	49	0	0	1	0	Full	20.54	21.80

CA_41C(HPUE)											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
39750	39948	QPSK	1	99	0	0	1	0	Full	21.41	22.80
40185	40383	QPSK	1	99	0	0	1	0	Full	21.73	22.80
40620	40422	QPSK	1	99	0	0	1	0	Full	21.80	22.80
41055	40857	QPSK	1	99	0	0	1	0	Full	21.79	22.80
41490	41292	QPSK	1	99	0	0	1	0	Full	21.72	22.80



CA_48C												
Combination 20MHz+20MHz (100RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset						
55340	55538	QPSK	1	0	0	0	1	0	full	22.46	23.80	
55830	55632	QPSK	1	0	0	0	1	0	full	22.33	23.80	
56150	55952	QPSK	1	0	0	0	1	0	full	22.38	23.80	
56640	56442	QPSK	1	0	0	0	1	0	full	22.20	23.80	
55340	55538	QPSK	50	0	0	0	1	0	rec on	13.79	14.80	
55830	55632	QPSK	50	0	0	0	1	0	rec on	13.98	14.80	
56150	55952	QPSK	50	0	0	0	1	0	rec on	13.82	14.80	
56640	56442	QPSK	50	0	0	0	1	0	rec on	13.74	14.80	
55340	55538	QPSK	1	0	0	0	1	0	Hotspot on	19.46	20.80	
55830	55632	QPSK	1	0	0	0	1	0	Hotspot on	19.68	20.80	
56150	55952	QPSK	1	0	0	0	1	0	Hotspot on	19.51	20.80	
56640	56442	QPSK	1	0	0	0	1	0	Hotspot on	19.47	20.80	



CA_41C
Combination 20MHz+20MHz (100RB+100RB)

PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
39750	39948	QPSK	1	49	0	0	1	0	Full	23.43	24.80
40185	40383	QPSK	1	49	0	0	1	0	Full	23.49	24.80
40620	40422	QPSK	1	49	0	0	1	0	Full	23.69	24.80
41055	40857	QPSK	1	49	0	0	1	0	Full	23.66	24.80
41490	41292	QPSK	1	49	0	0	1	0	Full	23.78	24.80
39750	39948	QPSK	50	24	0	0	1	0	Hotspot on	19.77	20.80
40185	40383	QPSK	50	24	0	0	1	0	Hotspot on	19.69	20.80
40620	40422	QPSK	50	24	0	0	1	0	Hotspot on	19.90	20.80
41055	40857	QPSK	50	24	0	0	1	0	Hotspot on	19.87	20.80
41490	41292	QPSK	50	24	0	0	1	0	Hotspot on	19.74	20.80

CA_41C(HPUE)
Combination 20MHz+20MHz (100RB+100RB)

PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
39750	39948	QPSK	1	99	0	0	1	0	Full	24.60	25.80
40185	40383	QPSK	1	99	0	0	1	0	Full	24.76	25.80
40620	40422	QPSK	1	99	0	0	1	0	Full	24.98	25.80
41055	40857	QPSK	1	99	0	0	1	0	Full	24.80	25.80
41490	41292	QPSK	1	99	0	0	1	0	Full	24.82	25.80
39750	39948	QPSK	1	99	0	0	1	0	Hotspot on	21.56	22.80
40185	40383	QPSK	1	99	0	0	1	0	Hotspot on	21.57	22.80
40620	40422	QPSK	1	99	0	0	1	0	Hotspot on	21.81	22.80
41055	40857	QPSK	1	99	0	0	1	0	Hotspot on	21.85	22.80
41490	41292	QPSK	1	99	0	0	1	0	Hotspot on	21.80	22.80



Inter Band UL CA Power

PCC:Ant2		SCC:Ant1		Tune up Power (dBm)									
		CA_2A-4A											
		Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
18700	20050	QPSK	1	0	1	0	21.40	15.12	22.32	22.2	16.8	23.3	
			1	49	1	49	21.37	15.33	22.34	22.2	16.8	23.3	
			1	99	1	99	21.40	15.22	22.34	22.2	16.8	23.3	
			50	0	50	0	20.81	17.63	22.38	21.4	18.8	23.3	
			50	24	50	24	20.54	17.14	22.17	21.4	18.8	23.3	
18900	20175	QPSK	50	0	100	0	20.52	17.78	22.37	21.4	18.8	23.3	
			1	0	1	0	21.89	15.09	22.71	22.2	16.8	23.3	
			1	49	1	49	21.49	15.21	22.41	22.2	16.8	23.3	
			1	99	1	99	21.54	15.14	22.44	22.2	16.8	23.3	
			50	0	50	0	20.54	17.61	22.33	21.4	18.8	23.3	
19100	20300	QPSK	50	24	50	24	20.69	17.30	22.33	21.4	18.8	23.3	
			50	50	50	50	20.59	17.37	22.28	21.4	18.8	23.3	
			100	0	100	0	20.72	17.62	22.45	21.4	18.8	23.3	
			1	0	1	0	21.51	15.22	22.43	22.2	16.8	23.3	
			1	49	1	49	21.64	15.38	22.56	22.2	16.8	23.3	

PCC:Ant1		SCC:Ant2		Tune up Power (dBm)									
		CA_4A-2A											
		Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
20050	18700	QPSK	1	0	1	0	20.24	15.27	21.44	20.80	16.00	22.0	
			1	49	1	49	20.23	15.13	21.40	20.80	16.00	22.0	
			1	99	1	99	20.06	15.16	21.28	20.80	16.00	22.0	
			50	0	50	0	19.34	17.80	21.65	19.50	18.50	22.0	
			50	24	50	24	18.77	18.26	21.53	19.50	18.50	22.0	
20175	18900	QPSK	50	50	50	50	19.22	18.02	21.67	19.50	18.50	22.0	
			100	0	100	0	18.76	17.93	21.38	19.50	18.50	22.0	
			1	0	1	0	20.03	15.23	21.27	20.80	16.00	22.0	
			1	49	1	49	19.79	15.10	21.06	20.80	16.00	22.0	
			1	99	1	99	20.04	15.26	21.29	20.80	16.00	22.0	
20300	19100	QPSK	50	0	50	0	19.06	18.11	21.62	19.50	18.50	22.0	
			50	24	50	24	18.85	18.17	21.53	19.50	18.50	22.0	
			50	50	50	50	19.02	18.08	21.58	19.50	18.50	22.0	
			100	0	100	0	18.93	18.04	21.52	19.50	18.50	22.0	
			1	0	1	0	19.96	15.68	21.34	20.80	16.00	22.0	

PCC:Ant3		SCC:Ant0		Tune up Power (dBm)									
		CA_2A-4A											
		Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
18700	20050	QPSK	1	0	1	0	23.20	16.99	24.13	23.60	18.60	24.8	
			1	49	1	49	23.23	16.99	24.16	23.60	18.60	24.8	
			1	99	1	99	23.18	17.36	24.19	23.60	18.60	24.8	
			50	0	50	0	22.27	19.28	24.04	22.80	20.50	24.8	
			50	24	50	24	22.30	19.20	24.03	22.80	20.50	24.8	
18900	20175	QPSK	50	50	50	50	22.43	19.31	24.15	22.80	20.50	24.8	
			100	0	100	0	22.42	19.31	24.15	22.80	20.50	24.8	
			1	0	1	0	23.42	16.71	24.26	23.60	18.60	24.8	
			1	49	1	49	23.05	17.47	24.11	23.60	18.60	24.8	
			1	99	1	99	23.24	17.11	24.19	23.60	18.60	24.8	
19100	20300	QPSK	50	0	50	0	22.37	19.59	24.21	22.80	20.50	24.8	
			50	24	50	24	22.45	19.47	24.22	22.80	20.50	24.8	
			50	50	50	50	22.38	19.16	24.07	22.80	20.50	24.8	
			100	0	100	0	22.42	19.36	24.16	22.80	20.50	24.8	
			1	0	1	0	22.98	17.50	24.06	23.60	18.60	24.8	

PCC:Ant0		SCC:Ant3		Tune up Power (dBm)									
		CA_4A-2A											
		Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
20050	18700	QPSK	1	0	1	0	22.70	17.46	23.84	23.30	18.50	24.5	
			1	49	1	49	22.70	17.68	23.89	23.30	18.50	24.5	
			1	99	1	99	22.88	17.47	23.98	23.30	18.50	24.5	
			50	0	50	0	21.73	19.84	23.90	22.30	20.50	24.5	
			50	24	50	24	22.05	19.72	24.05	22.30	20.50	24.5	
20175	18900	QPSK	50	50	50	50	21.94	20.01	24.09	22.30	20.50	24.5	
			100	0	100	0	21.96	19.49	23.91	22.30	20.50	24.5	
			1	0	1	0	22.74	17.30	23.83	23.30	18.50	24.5	
			1	49	1	49	22.77	17.62	23.93	23.30	18.50	24.5	
			1	99	1	99	22.85	17.58	23.98	23.30	18.50	24.5	
20300	19100	QPSK	50	0	50	0	22.15	19.70	24.11	22.30	20.50	24.5	
			50	24	50	24	22.05	19.63	24.02	22.30	20.50	24.5	
			50	50	50	50	22.01	19.94	24.11	22.30	20.50	24.5	
			100	0	100	0	22.02	19.62	23.99	22.30	20.50	24.5	
			1	0	1	0	22.57	17.35	23.71	23.30	18.50	24.5	

PCC:Ant2		SCC:Ant0		Tune up Power (dBm)									
		CA_2A-4A											
		Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
18700	20050	QPSK	1	0	1	0	22.44	17.53	23.66	23.3	19.3	24.8	
			1	49	1	49	22.16	17.57	23.46	23.3	19.3	24.8	
			1	99	1	99	22.22	17.59	23.51	23.3	19.3	24.8	
			50	0	50	0	21.35	20.26	23.85	22.3	21.3	24.8	
			50	24	50	24	21.58	20.10	23.91	22.3	21.3	24.8	
18900	20175	QPSK	50	50	50	50	21.53	20.16	23.91	22.3	21.3	24.8	
			100	0	100	0	21.51	20.08	23.86	22.3	21.3	24.8	
			1	0	1	0	21.98	17.63	23.34	23.3	19.3	24.8	
			1	49	1	49	21.96	17.79	23.37	23.3	19.3	24.8	
			1	99	1	99	22.07	17.61	23.40	23.3	19.3	24.8	
19100	20300	QPSK	50	0	50	0	21.11	19.90	23.56	22.3	21.3	24.8	
			50	24	50	24	21.21	19.65	23.51	22.3	21.3	24.8	
			50	50	50	50	21.27	19.91	23.65	22.3	21.3	24.8	
			100	0	100	0	21.26	19.55	23.50	22.3	21.3	24.8	
			1	0	1	0	22.15	17.39	23.40	23.3	19.3	24.8	

PCC:Ant0		SCC:Ant2		Tune up Power (dBm)									
		CA_4A-2A											
		Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
20050	18700	QPSK	1	0	1	0	23.19	16.21	23.98	23.50	17.80	24.5	
			1	49	1	49	23.06	16.33	23.90	23.50	17.80	24.5	
			1	99	1	99	22.81	16.40	23.70	23.50	17.80	24.5	
			50	0	50	0	22.21	18.76	23.83	22.80	19.50	24.5	
			50	24	50	24	22.18	18.81	23.82	22.80	19.50	24.5	
20175	18900	QPSK	50	50	50	50	22.04	18.96	23.78	22.80	19.50	24.5	
			100	0	100	0	22.24	18.61	23.80	22.80	19.50	24.5	
			1	0	1	0	22.51	18.56	23.49	23.50	17.80	24.5	
			1	49	1	49	22.38	18.39	23.36	23.50	17.80	24.5	
			1	99	1	99	22.77	16.35	23.66	23.50	17.80	24.5	
20300	19100	QPSK	50	0	50	0	21.87	18.17	23.41	22.80	19.50	24.5	
			50	24	50	24	21.76	18.18	23.34	22.80	19.50	24.5	
			50	50	50	50	21.69	18.68	23.45	22.80	19.50	24.5	
			100	0	100	0	21.81	18.38	23.44	22.80	19.50	24.5	
			1	0	1	0	23.08	16.31	23.91	23.50	17.80	24.5	

PCC:Ant3		SCC:Ant1		Tune up Power (dBm)									
		CA_2A-4A											
		Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
18700	20050	QPSK	1	0	1	0	23.80	14.38	24.27	24.20	15.80	24.8	
			1	49	1	49	23.72	14.47	24.21	24.20	15.80	24.8	
			1	99	1	99	23.76	14.43	24.24	24.20	15.80	24.8	
			50	0	50	0	22.76	17.15	23.81	23.80	17.8	24.8	
			50	24	50	24	22.90	17.32	23.96	23.80	17.8	24.8	
18900	20175	QPSK	50	50									



PCC:Ant2		SCC:Ant1		Tune up Power (dba)												
CA_2A-66A																
Combination 20MHz+20MHz (100RB+100RB)																
PCC Channel	SCC Channel	Modulation	PCC				SCC				Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	PCC2 Power (dBm)	RB Size	RB offset						
18700	132072	QPSK	1	0	1	0	21.61	15.28	22.2	16.8	23.3	22.2	16.8	23.3		
			1	49	1	49	21.46	15.43	22.43	22.2	16.8	23.3	22.43	22.2	16.8	23.3
			1	99	1	99	21.41	15.11	22.32	22.2	16.8	23.3	22.32	22.2	16.8	23.3
			50	0	50	0	20.70	17.93	22.54	21.4	18.8	23.3	22.54	21.4	18.8	23.3
			50	24	50	24	20.78	18.14	22.67	21.4	18.8	23.3	22.67	21.4	18.8	23.3

PCC:Ant1		SCC:Ant2		Tune up Power (dba)												
CA_66A-2A																
Combination 20MHz+20MHz (100RB+100RB)																
PCC Channel	SCC Channel	Modulation	PCC				SCC				Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	PCC2 Power (dBm)	RB Size	RB offset						
132072	18700	QPSK	1	0	1	0	20.14	15.14	21.33	20.80	16.00	22.0	20.80	16.00	22.0	
			1	49	1	49	20.11	15.73	21.46	20.80	16.00	22.0	21.46	20.80	16.00	22.0
			1	99	1	99	19.75	15.35	21.10	20.80	16.00	22.0	21.10	20.80	16.00	22.0
			50	0	50	0	18.87	18.15	21.59	19.50	18.50	22.0	21.59	19.50	18.50	22.0
			50	24	50	24	19.02	18.17	21.63	19.50	18.50	22.0	21.63	19.50	18.50	22.0

PCC:Ant3		SCC:Ant0		Tune up Power (dba)												
CA_2A-66A																
Combination 20MHz+20MHz (100RB+100RB)																
PCC Channel	SCC Channel	Modulation	PCC				SCC				Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	PCC2 Power (dBm)	RB Size	RB offset						
18700	132072	QPSK	1	0	1	0	23.11	17.80	24.23	23.60	18.60	24.8	23.60	18.60	24.8	
			1	49	1	49	22.87	18.01	24.10	23.60	18.60	24.8	24.10	23.60	18.60	24.8
			1	99	1	99	23.07	17.51	24.14	23.60	18.60	24.8	24.14	23.60	18.60	24.8
			50	0	50	0	22.92	19.12	23.95	22.80	20.50	24.8	23.95	22.80	20.50	24.8
			50	24	50	24	22.42	19.61	24.25	22.80	20.50	24.8	24.25	22.80	20.50	24.8

PCC:Ant0		SCC:Ant3		Tune up Power (dba)												
CA_66A-2A																
Combination 20MHz+20MHz (100RB+100RB)																
PCC Channel	SCC Channel	Modulation	PCC				SCC				Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	PCC2 Power (dBm)	RB Size	RB offset						
132072	18700	QPSK	1	0	1	0	22.70	17.12	23.76	23.30	18.50	24.5	23.30	18.50	24.5	
			1	49	1	49	22.91	17.46	24.00	23.30	18.50	24.5	24.00	23.30	18.50	24.5
			1	99	1	99	23.10	17.33	24.12	23.30	18.50	24.5	24.12	23.30	18.50	24.5
			50	0	50	0	21.76	18.84	23.84	22.30	20.50	24.5	23.84	22.30	20.50	24.5
			50	24	50	24	21.85	19.61	23.88	22.30	20.50	24.5	23.88	22.30	20.50	24.5

PCC:Ant2		SCC:Ant0		Tune up Power (dba)												
CA_2A-66A																
Combination 20MHz+20MHz (100RB+100RB)																
PCC Channel	SCC Channel	Modulation	PCC				SCC				Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	PCC2 Power (dBm)	RB Size	RB offset						
18700	132072	QPSK	1	0	1	0	22.89	18.00	24.11	23.3	19.3	24.8	23.3	19.3	24.8	
			1	49	1	49	22.52	18.28	23.91	23.3	19.3	24.8	23.91	23.3	19.3	24.8
			1	99	1	99	22.82	18.08	24.08	23.3	19.3	24.8	24.08	23.3	19.3	24.8
			50	0	50	0	21.72	20.03	23.97	22.3	21.3	24.8	23.97	22.3	21.3	24.8
			50	24	50	24	21.89	20.11	24.10	22.3	21.3	24.8	24.10	22.3	21.3	24.8

PCC:Ant0		SCC:Ant2		Tune up Power (dba)												
CA_66A-2A																
Combination 20MHz+20MHz (100RB+100RB)																
PCC Channel	SCC Channel	Modulation	PCC				SCC				Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	PCC2 Power (dBm)	RB Size	RB offset						
132072	18700	QPSK	1	0	1	0	23.16	16.49	24.01	23.50	17.80	24.5	23.50	17.80	24.5	
			1	49	1	49	22.88	16.66	23.81	23.50	17.80	24.5	23.81	23.50	17.80	24.5
			1	99	1	99	22.71	17.11	23.77	23.50	17.80	24.5	23.77	23.50	17.80	24.5
			50	0	50	0	22.23	18.40	23.73	22.80	19.50	24.5	23.73	22.80	19.50	24.5
			50	24	50	24	22.19	18.64	23.78	22.80	19.50	24.5	23.78	22.80	19.50	24.5

PCC:Ant3		SCC:Ant1		Tune up Power (dba)												
CA_2A-66A																
Combination 20MHz+20MHz (100RB+100RB)																
PCC Channel	SCC Channel	Modulation	PCC				SCC				Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	PCC2 Power (dBm)	RB Size	RB offset						
18700	132072	QPSK	1	0	1	0	23.59	15.13	24.17	24.20	15.80	24.8	24.20	15.80	24.8	
			1	49	1	49	23.70	15.00	24.25	24.20	15.80	24.8	24.25	24.20	15.80	24.8
			1	99	1	99	23.59	15.41	24.20	24.20	15.80	24.8	24.20	24.20	15.80	24.8
			50	0	50	0	22.79	17.23	23.86	23.80	17.8	24.8	23.86	23.80	17.8	24.8
			50	24	50	24	23.12	17.20	24.11	23.80	17.8	24.8	24.11	23.80	17.8	24.8

PCC:Ant1		SCC:Ant3		Tune up Power (dba)												
CA_66A-2A																
Combination 20MHz+20MHz (100RB+100RB)																
PCC Channel	SCC Channel	Modulation	PCC				SCC				Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	PCC2 Power (dBm)	RB Size	RB offset						
132072	18700	QPSK	1	0	1	0	20.79	19.05	23.02	22.00	20.80	24.5	23.02	22.00	20.80	24.5
			1	49	1	49	20.99	19.69	23.40	22.00	20.80	24.5	23.40	22.00	20.80	24.5
			1	99	1	99	20.94	19.34	23.22	22.00	20.80	24.5	23.22	22.00	20.80	24.5
			50	0	50	0	19.99	20.99	23.53	20.30	22.50	24.5	23.53	20.30	22.50	24.5
			50	24	50	24	20.11	20.88	23.52	20.30	22.50	24.5	23.52	20.30	22.50	24.5



PCC:Ant2		SCC:Ant0		Tune up Power (dbm)								
		CA_2A-12A										
PCC Channel	SCC Channel	Modulation	PCC				SCC		Measured Power (dBm)	PCC1 Tune up Power (dBm)	PCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	PCC2 Power (dBm)				
18700	23060	QPSK	1	0	1	0	21.04	16.41	22.33	22.00	17.50	23.3
			1	49	1	25	21.28	16.29	22.48	22.00	17.50	23.3
			1	99	1	49	21.23	15.99	22.37	22.00	17.50	23.3
			50	0	25	0	20.38	18.59	22.59	21.00	19.50	23.3
			50	24	25	12	20.34	18.71	22.61	21.00	19.50	23.3
			50	50	25	25	20.35	18.48	22.53	21.00	19.50	23.3
18900	23095	QPSK	1	0	1	0	20.33	18.64	22.58	21.00	19.50	23.3
			1	0	1	0	21.25	16.24	22.44	22.00	17.50	23.3
			1	49	1	25	21.38	16.16	22.52	22.00	17.50	23.3
			1	99	1	49	21.34	16.14	22.49	22.00	17.50	23.3
			50	0	25	0	20.56	18.13	22.52	21.00	19.50	23.3
			50	24	25	12	20.26	18.68	22.55	21.00	19.50	23.3
19100	23130	QPSK	1	0	1	0	21.56	16.26	22.68	22.00	17.50	23.3
			1	49	1	25	21.12	16.12	22.31	22.00	17.50	23.3
			1	99	1	49	21.13	16.15	22.33	22.00	17.50	23.3
			50	0	25	0	20.48	17.73	22.33	21.00	19.50	23.3
			50	24	25	12	20.25	18.59	22.51	21.00	19.50	23.3
			50	50	25	25	20.38	18.44	22.53	21.00	19.50	23.3

PCC:Ant3		SCC:Ant1		Tune up Power (dbm)								
		CA_2A-12A										
PCC Channel	SCC Channel	Modulation	PCC				SCC		Measured Power (dBm)	PCC1 Tune up Power (dBm)	PCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	PCC2 Power (dBm)				
18700	23060	QPSK	1	0	1	0	23.13	16.78	24.04	23.80	17.80	24.8
			1	49	1	25	22.64	16.95	23.68	23.80	17.80	24.8
			1	99	1	49	22.76	17.31	23.85	23.80	17.80	24.8
			50	0	25	0	22.48	19.78	24.32	22.80	20.50	24.8
			50	24	25	12	21.94	20.13	24.14	22.80	20.50	24.8
			50	50	25	25	22.07	20.21	24.25	22.80	20.50	24.8
18900	23095	QPSK	1	0	1	0	22.03	16.86	23.97	23.80	17.80	24.8
			1	49	1	25	22.76	17.11	23.81	23.80	17.80	24.8
			1	99	1	49	22.67	17.24	23.76	23.80	17.80	24.8
			50	0	25	0	22.24	19.85	24.22	22.80	20.50	24.8
			50	24	25	12	22.14	20.13	24.26	22.80	20.50	24.8
			50	50	25	25	22.16	20.22	24.31	22.80	20.50	24.8
19100	23130	QPSK	1	0	1	0	22.83	16.85	23.81	23.80	17.80	24.8
			1	49	1	25	22.96	17.03	23.95	23.80	17.80	24.8
			1	99	1	49	22.72	17.41	23.84	23.80	17.80	24.8
			50	0	25	0	21.84	20.19	24.10	22.80	20.50	24.8
			50	24	25	12	22.19	20.09	24.28	22.80	20.50	24.8
			50	50	25	25	21.97	20.35	24.25	22.80	20.50	24.8

PCC:Ant2		SCC:Ant1		Tune up Power (dbm)								
		CA_2A-12A										
PCC Channel	SCC Channel	Modulation	PCC				SCC		Measured Power (dBm)	PCC1 Tune up Power (dBm)	PCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	PCC2 Power (dBm)				
18700	23060	QPSK	1	0	1	0	21.88	18.03	23.38	23.60	18.60	24.8
			1	49	1	25	21.84	17.67	23.25	23.60	18.60	24.8
			1	99	1	49	21.71	18.06	23.27	23.60	18.60	24.8
			50	0	25	0	20.93	20.17	23.58	22.60	20.80	24.8
			50	24	25	12	20.97	19.87	23.47	22.60	20.80	24.8
			50	50	25	25	20.84	19.76	23.34	22.60	20.80	24.8
18900	23095	QPSK	1	0	1	0	21.91	17.83	23.34	22.60	20.80	24.8
			1	49	1	25	21.69	17.54	23.10	23.60	18.60	24.8
			1	99	1	49	21.85	17.24	23.14	23.60	18.60	24.8
			50	0	25	0	21.11	19.87	23.54	22.60	20.80	24.8
			50	24	25	12	20.94	20.05	23.53	22.60	20.80	24.8
			50	50	25	25	20.89	19.77	23.38	22.60	20.80	24.8
19100	23130	QPSK	1	0	1	0	21.79	17.86	23.27	23.60	18.60	24.8
			1	49	1	25	21.70	17.66	23.14	23.60	18.60	24.8
			1	99	1	49	21.80	17.39	23.14	23.60	18.60	24.8
			50	0	25	0	20.90	20.20	23.57	22.60	20.80	24.8
			50	24	25	12	20.89	19.86	23.42	22.60	20.80	24.8
			50	50	25	25	20.87	19.77	23.37	22.60	20.80	24.8

PCC:Ant3		SCC:Ant0		Tune up Power (dbm)								
		CA_2A-12A										
PCC Channel	SCC Channel	Modulation	PCC				SCC		Measured Power (dBm)	PCC1 Tune up Power (dBm)	PCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	PCC2 Power (dBm)				
18700	23060	QPSK	1	0	1	0	23.16	16.16	23.95	23.80	17.80	24.8
			1	49	1	25	23.27	16.56	24.11	23.80	17.80	24.8
			1	99	1	49	23.29	15.81	24.00	23.80	17.80	24.8
			50	0	25	0	22.25	19.26	24.02	22.80	20.50	24.8
			50	24	25	12	22.48	19.21	24.14	22.80	20.50	24.8
			50	50	25	25	22.37	19.45	24.16	22.80	20.50	24.8
18900	23095	QPSK	1	0	1	0	22.44	19.17	24.12	22.80	20.50	24.8
			1	0	1	0	23.26	16.08	24.02	23.80	17.80	24.8
			1	49	1	25	23.21	16.41	24.03	23.80	17.80	24.8
			1	99	1	49	22.23	16.29	23.22	23.80	17.80	24.8
			50	0	25	0	22.33	19.07	24.01	22.80	20.50	24.8
			50	24	25	12	22.50	19.08	24.13	22.80	20.50	24.8
19100	23130	QPSK	1	0	1	0	22.35	19.60	24.08	22.80	20.50	24.8
			1	0	1	0	22.35	19.27	24.09	22.80	20.50	24.8
			1	49	1	25	23.10	16.30	23.92	23.80	17.80	24.8
			1	49	1	25	23.24	16.47	24.07	23.80	17.80	24.8
			1	99	1	49	23.34	15.94	24.07	23.80	17.80	24.8
			50	0	25	0	22.37	19.42	24.15	22.80	20.50	24.8

PCC:Ant0		SCC:Ant2		Tune up Power (dbm)								
		CA_12A-2A										
PCC Channel	SCC Channel	Modulation	PCC				SCC		Measured Power (dBm)	PCC1 Tune up Power (dBm)	PCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	PCC2 Power (dBm)				
23060	18700	QPSK	1	0	1	0	22.68	15.82	23.49	23.40	16.80	24.3
			1	25	1	49	22.22	15.51	23.06	23.40	16.80	24.3
			1	49	1	99	21.69	15.63	22.65	23.40	16.80	24.3
			25	0	50	0	21.76	17.95	23.27	22.80	18.80	24.3
			25	12	50	24	21.44	18.19	23.12	22.80	18.80	24.3
			25	25	50	50	21.21	18.19	22.97	22.80	18.80	24.3
23095	18900	QPSK	50	0	100	0	21.55	18.05	23.15	22.80	18.80	24.3
			1	0	1	0	22.27	15.67	23.13	23.40	16.80	24.3
			1	25	1	49	21.83	15.73	22.78	23.40	16.80	24.3
			1	49	1	99	21.83	15.56	22.75	23.40	16.80	24.3
			25	0	50	0	21.30	18.04	22.98	22.80	18.80	24.3
			25	12	50	24	21.50	18.24	23.18	22.80	18.80	24.3
23130	19100	QPSK	25	25	50	50	21.35	18.33	23.11	22.80	18.80	24.3
			50	0	100	0	21.66	18.39	23.34	22.80	18.80	24.3
			1	0	1	0	22.10	15.49	22.96	23.40	16.80	24.3
			1	25	1	49	21.94	15.72	22.87	23.40	16.80	24.3
			1	49	1	99	21.86	15.70	22.80	23.40	16.80	24.3
			25	0	50	0	21.45	18.21	23.14	22.80	18.80	24.3

PCC:Ant1		SCC:Ant3		Tune up Power (dbm)								
		CA_12A-2A										
PCC Channel	SCC Channel	Modulation	PCC				SCC		Measured Power (dBm)	PCC1 Tune up Power (dBm)	PCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	PCC2 Power (dBm)				
23060	18700	QPSK	1	0	1	0	22.40	16.72	23.44	23.80	17.80	24.8
			1	25	1	49	22.57	16.96	23.62	23.80	17.80	24.8
			1	49	1	99	22.85	17.23	23.90	23.80	17.80	24.8
			25	0	50	0	21.75	18.31	23.71	22.80	20.50	24.8
			25	12	50	24	21.99	19.58	23.96	22.80	20.50	24.8
			25	25	50	50	22.14	19.59	24.06	22.80	20.50	24.8
23095	18900	QPSK	50	0	100	0	21.85	19.49	23.84	22.80	20.50	24.8
			1	0	1	0	22.77	17.16	23.82	23.80	17.80	24.8
			1	25	1	49	23.00	16.98	23.97	23.80	17.80	24.8
			1	49	1	99	23.33	16.91	24.22	23.80	17.80	24.8
			25	0	50	0	22.09	19.47	23.98	22.80	20.50	24.8
			25	12	50	24	22.27	19.20	24.01	22.80	20.50	24.8
23130	19100	QPSK	25	25	50	50	22.47	19.24	24.16	22.80	20.50	24.8
			50									



PCC:Ant2		SCC:Ant0		Tune up Power (dBm)										
PCC Channel	SCC Channel	Modulation	CA 4A-12A Combination 20MHz+10MHz (100RB+50RB)											
			PCC				SCC				Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	SCC2 Power (dBm)						
20050	23060	QPSK	1	0	1	0	21.20	15.61	22.26	22.30	16.50	23.3		
			1	49	1	25	21.02	15.46	22.09	22.30	16.50	23.3		
			1	99	1	49	20.97	15.64	22.09	22.30	16.50	23.3		
			50	0	25	0	20.41	18.38	22.52	21.30	19.00	23.3		
			50	24	25	12	20.38	18.17	22.42	21.30	19.00	23.3		
			50	50	25	25	20.24	18.07	22.30	21.30	19.00	23.3		
			100	0	50	0	20.34	18.18	22.40	21.30	19.00	23.3		
			1	0	1	0	21.29	15.68	22.34	22.30	16.50	23.3		
			1	49	1	25	21.02	15.07	22.00	22.30	16.50	23.3		
			1	99	1	49	20.84	14.59	21.76	22.30	16.50	23.3		
20175	23095	QPSK	1	0	1	0	20.31	17.96	22.30	21.30	19.00	23.3		
			50	24	25	12	20.17	17.62	22.09	21.30	19.00	23.3		
			50	50	25	25	20.09	17.41	21.96	21.30	19.00	23.3		
			100	0	50	0	20.23	17.74	22.17	21.30	19.00	23.3		
			1	0	1	0	21.05	15.30	22.07	22.30	16.50	23.3		
			1	49	1	25	20.87	14.84	21.84	22.30	16.50	23.3		
			1	99	1	49	20.72	14.91	21.73	22.30	16.50	23.3		
			50	0	25	0	20.03	17.53	21.97	21.30	19.00	23.3		
			50	24	25	12	19.96	17.34	21.85	21.30	19.00	23.3		
			50	50	25	25	19.90	17.03	21.71	21.30	19.00	23.3		
100	0	50	0	19.95	17.34	21.85	21.30	19.00	23.3					

PCC:Ant0		SCC:Ant2		Tune up Power (dBm)										
PCC Channel	SCC Channel	Modulation	CA 12A-4A Combination 10MHz+20MHz (50RB+100RB)											
			PCC				SCC				Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	SCC2 Power (dBm)						
23060	20050	QPSK	1	0	1	0	22.84	16.41	23.73	23.40	16.80	24.3		
			1	25	1	49	22.29	15.36	23.09	23.40	16.80	24.3		
			1	49	1	99	21.58	15.19	22.48	23.40	16.80	24.3		
			25	0	50	0	21.75	18.01	23.28	22.80	18.80	24.3		
			25	12	50	24	21.43	17.78	22.99	22.80	18.80	24.3		
			25	25	50	50	21.11	17.78	22.77	22.80	18.80	24.3		
			50	0	100	0	21.60	17.62	23.06	22.80	18.80	24.3		
			1	0	1	0	22.39	15.92	23.27	23.40	16.80	24.3		
			1	25	1	49	21.80	15.76	22.77	23.40	16.80	24.3		
			1	49	1	99	21.73	15.68	22.69	23.40	16.80	24.3		
23095	20175	QPSK	25	0	50	0	21.31	17.67	22.87	22.80	18.80	24.3		
			25	12	50	24	21.05	17.56	22.66	22.80	18.80	24.3		
			25	25	50	50	20.92	17.50	22.55	22.80	18.80	24.3		
			50	0	100	0	21.09	17.52	22.67	22.80	18.80	24.3		
			1	0	1	0	22.04	15.75	22.96	23.40	16.80	24.3		
			1	25	1	49	21.94	15.46	22.82	23.40	16.80	24.3		
			1	49	1	99	21.51	15.43	22.47	23.40	16.80	24.3		
			25	0	50	0	21.50	17.40	22.93	22.80	18.80	24.3		
			25	12	50	24	21.52	17.24	22.90	22.80	18.80	24.3		
			25	25	50	50	21.56	17.24	22.93	22.80	18.80	24.3		
50	0	100	0	21.31	17.33	22.77	22.80	18.80	24.3					

PCC:Ant3		SCC:Ant1		Tune up Power (dBm)										
PCC Channel	SCC Channel	Modulation	CA 4A-12A Combination 20MHz+10MHz (100RB+50RB)											
			PCC				SCC				Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	SCC2 Power (dBm)						
20050	23060	QPSK	1	0	1	0	22.39	17.32	23.57	23.60	18.60	24.8		
			1	49	1	25	22.37	17.31	23.49	23.60	18.60	24.8		
			1	99	1	49	22.37	17.91	23.70	23.60	18.60	24.8		
			50	0	25	0	21.81	18.68	23.75	22.60	20.80	24.8		
			50	24	25	12	21.51	19.96	23.81	22.60	20.80	24.8		
			50	50	25	25	21.57	19.95	23.85	22.60	20.80	24.8		
			100	0	50	0	21.51	20.01	23.83	22.60	20.80	24.8		
			1	0	1	0	22.33	17.10	23.47	23.60	18.60	24.8		
			1	49	1	25	22.29	17.43	23.52	23.60	18.60	24.8		
			1	99	1	49	22.55	17.71	23.78	23.60	18.60	24.8		
20175	23095	QPSK	50	0	25	0	21.59	19.81	23.80	22.60	20.80	24.8		
			50	24	25	12	21.57	19.91	23.83	22.60	20.80	24.8		
			50	50	25	25	21.66	20.15	23.98	22.60	20.80	24.8		
			100	0	50	0	21.54	19.98	23.84	22.60	20.80	24.8		
			1	0	1	0	22.51	17.42	23.65	23.60	18.60	24.8		
			1	49	1	25	22.21	17.24	23.41	23.60	18.60	24.8		
			1	99	1	49	22.68	17.76	23.89	23.60	18.60	24.8		
			50	0	25	0	21.54	20.13	23.90	22.60	20.80	24.8		
			50	24	25	12	21.51	20.10	23.87	22.60	20.80	24.8		
			50	50	25	25	21.66	20.24	24.02	22.60	20.80	24.8		
100	0	50	0	21.46	20.01	23.81	22.60	20.80	24.8					

PCC:Ant1		SCC:Ant3		Tune up Power (dBm)										
PCC Channel	SCC Channel	Modulation	CA 12A-4A Combination 10MHz+20MHz (50RB+100RB)											
			PCC				SCC				Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	SCC2 Power (dBm)						
23060	20050	QPSK	1	0	1	0	22.82	16.55	23.74	23.80	17.80	24.8		
			1	25	1	49	23.03	16.80	23.96	23.80	17.80	24.8		
			1	49	1	99	23.04	16.99	24.00	23.80	17.80	24.8		
			25	0	50	0	21.63	19.38	23.85	23.20	19.80	24.8		
			25	12	50	24	22.44	19.50	24.22	23.20	19.80	24.8		
			25	25	50	50	22.38	19.48	24.16	23.20	19.80	24.8		
			50	0	100	0	22.50	19.46	24.25	23.20	19.80	24.8		
			1	0	1	0	22.77	16.86	23.76	23.80	17.80	24.8		
			1	25	1	49	23.00	16.75	23.92	23.80	17.80	24.8		
			1	49	1	99	23.39	17.02	24.29	23.80	17.80	24.8		
23095	20175	QPSK	25	0	50	0	22.13	19.39	23.98	23.20	19.80	24.8		
			25	12	50	24	22.28	19.36	24.07	23.20	19.80	24.8		
			25	25	50	50	22.51	19.50	24.27	23.20	19.80	24.8		
			50	0	100	0	22.34	19.38	24.12	23.20	19.80	24.8		
			1	0	1	0	23.13	16.94	24.07	23.80	17.80	24.8		
			1	25	1	49	23.20	16.89	24.11	23.80	17.80	24.8		
			1	49	1	99	23.33	17.04	24.25	23.80	17.80	24.8		
			25	0	50	0	22.48	19.53	24.26	23.20	19.80	24.8		
			25	12	50	24	22.35	19.43	24.14	23.20	19.80	24.8		
			25	25	50	50	22.46	19.43	24.21	23.20	19.80	24.8		
50	0	100	0	22.39	19.54	24.21	23.20	19.80	24.8					

PCC:Ant2		SCC:Ant1		Tune up Power (dBm)										
PCC Channel	SCC Channel	Modulation	CA 4A-12A Combination 20MHz+10MHz (100RB+50RB)											
			PCC				SCC				Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	SCC2 Power (dBm)						
20050	23060	QPSK	1	0	1	0	21.71	18.12	23.29	23.30	19.50	24.8		
			1	49	1	25	21.62	18.09	23.21	23.30	19.50	24.8		
			1	99	1	49	21.98	18.05	23.46	23.30	19.50	24.8		
			50	0	25	0	20.97	20.69	23.84	22.00	21.50	24.8		
			50	24	25	12	21.05	20.45	23.77	22.00	21.50	24.8		
			50	50	25	25	20.81	20.57	23.70	22.00	21.50	24.8		
			100	0	50	0	20.98	20.60	23.79	22.00	21.50	24.8		
			1	0	1	0	21.88	18.13	23.41	23.30	19.50	24.8		
			1	49	1	25	21.80	17.99	23.31	23.30	19.50	24.8		
			1	99	1	49	21.97	17.95	23.42	23.30	19.50	24.8		
20175	23095	QPSK	50	0	25	0	20.94	20.57	23.77	22.00	21.50	24.8		
			50	24	25	12	20.96	20.44	23.72	22.00	21.50	24.8		
			50	50	25	25	20.71	20.54	23.64	22.00	21.50	24.8		
			100	0	50	0	20.87	20.63	23.76	22.00	21.50	24.8		
			1	0	1	0	21.66	17.98	23.21	23.30	19.50	24.8		
			1	49	1	25	21.44	18.00	23.06	23.30	19.50	24.8		
			1	99	1	49	22.09	18.21	23.58	23.30	19.50	24.8		
			50	0	25	0	21.00	20.64	23.83	22.00	21.50	24.8		
			50	24	25	12	21.12	20.28	23.73	22.00	21.50	24.8		
			50	50	25	25	20.71	20.64	23.69	22.00	21.50	24.8		
100	0	50	0	20.98	20.49	23.75	22.00	21.50	24.8					

PCC:Ant1		SCC:Ant2		Tune up Power (dBm)										
PCC Channel	SCC Channel	Modulation	CA 12A-4A Combination 10MHz+20MHz (50RB+100RB)											
			PCC				SCC				Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	SCC2 Power (dBm)						
23060	20050	QPSK	1	0	1	0	22.82	16.52	23.73	23.80	17.80	24.8		
			1	25	1	49	23.40	16.54	24.21	23.80	17.80	24.8		
			1	49	1	99	22.85	15.90	23.65	23.80	17.80	24.8		
			25	0	50	0	22.84	18.30	24.15	23.20	19.80			



PCC:Ant2		SCC:Ant0		Tune up Power (dBm)												
CA_66A-12A																
Combination 20MHz+10MHz (100RB+50RB)																
PCC Channel	SCC Channel	Modulation	PCC				SCC				PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	SCC2 Power (dBm)	RB Size	RB offset						
132072	23060	QPSK	1	0	1	0	21.27	15.43	22.28	22.30	16.50	23.3				
			1	49	1	25	21.14	15.64	22.22	22.30	16.50	23.3				
			1	99	1	49	20.91	15.40	21.99	22.30	16.50	23.3				
			50	0	25	0	20.54	18.11	22.50	21.30	19.00	23.3				
			50	24	25	12	20.57	18.08	22.51	21.30	19.00	23.3				
			50	50	25	25	20.38	17.98	22.35	21.30	19.00	23.3				
			100	0	50	0	20.39	18.00	22.37	21.30	19.00	23.3				
			1	0	1	0	21.09	15.62	22.17	22.30	16.50	23.3				
			1	49	1	25	20.90	14.96	21.81	22.30	16.50	23.3				
			1	99	1	49	20.73	15.02	21.76	22.30	16.50	23.3				
132322	23095	QPSK	50	0	25	0	20.04	17.80	22.07	21.30	19.00	23.3				
			50	24	25	12	19.98	17.58	21.95	21.30	19.00	23.3				
			50	50	25	25	19.95	17.30	21.83	21.30	19.00	23.3				
			100	0	50	0	19.97	17.66	21.98	21.30	19.00	23.3				
			1	0	1	0	20.82	14.86	21.80	22.30	16.50	23.3				
			1	49	1	25	20.88	14.77	21.83	22.30	16.50	23.3				
			1	99	1	49	20.84	15.11	21.87	22.30	16.50	23.3				
			50	0	25	0	20.07	17.45	21.96	21.30	19.00	23.3				
			50	24	25	12	20.02	17.11	21.81	21.30	19.00	23.3				
			50	50	25	25	20.04	17.01	21.79	21.30	19.00	23.3				
100	0	50	0	19.87	17.41	21.82	21.30	19.00	23.3							

PCC:Ant3		SCC:Ant1		Tune up Power (dBm)												
CA_66A-12A																
Combination 20MHz+10MHz (100RB+50RB)																
PCC Channel	SCC Channel	Modulation	PCC				SCC				PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	SCC2 Power (dBm)	RB Size	RB offset						
132072	23060	QPSK	1	0	1	0	22.38	17.00	23.49	23.60	18.60	24.8				
			1	49	1	25	22.52	17.55	23.72	23.60	18.60	24.8				
			1	99	1	49	22.48	17.25	23.62	23.60	18.60	24.8				
			50	0	25	0	21.85	19.84	23.97	22.60	20.80	24.8				
			50	24	25	12	21.83	20.08	24.05	22.60	20.80	24.8				
			50	50	25	25	21.73	20.38	24.12	22.60	20.80	24.8				
			100	0	50	0	21.83	19.90	23.98	22.60	20.80	24.8				
			1	0	1	0	22.30	17.37	23.51	23.60	18.60	24.8				
			1	49	1	25	22.45	17.61	23.68	23.60	18.60	24.8				
			1	99	1	49	22.70	17.94	23.95	23.60	18.60	24.8				
132322	23095	QPSK	50	0	25	0	21.95	20.09	24.13	22.60	20.80	24.8				
			50	24	25	12	21.59	20.22	23.97	22.60	20.80	24.8				
			50	50	25	25	21.76	20.44	24.16	22.60	20.80	24.8				
			100	0	50	0	21.50	20.34	23.97	22.60	20.80	24.8				
			1	0	1	0	22.79	17.20	23.85	23.60	18.60	24.8				
			1	49	1	25	22.98	17.63	24.09	23.60	18.60	24.8				
			1	99	1	49	22.83	17.75	24.00	23.60	18.60	24.8				
			50	0	25	0	21.60	20.02	23.89	22.60	20.80	24.8				
			50	24	25	12	21.88	20.14	24.11	22.60	20.80	24.8				
			50	50	25	25	21.61	20.09	23.93	22.60	20.80	24.8				
100	0	50	0	21.52	20.01	23.84	22.60	20.80	24.8							

PCC:Ant2		SCC:Ant1		Tune up Power (dBm)												
CA_66A-12A																
Combination 20MHz+10MHz (100RB+50RB)																
PCC Channel	SCC Channel	Modulation	PCC				SCC				PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	SCC2 Power (dBm)	RB Size	RB offset						
132072	23060	QPSK	1	0	1	0	21.51	18.46	23.26	23.30	19.50	24.8				
			1	49	1	25	21.48	17.93	23.07	23.30	19.50	24.8				
			1	99	1	49	21.73	18.49	23.42	23.30	19.50	24.8				
			50	0	25	0	20.61	20.26	23.45	22.00	21.50	24.8				
			50	24	25	12	20.76	19.97	23.39	22.00	21.50	24.8				
			50	50	25	25	20.94	19.95	23.48	22.00	21.50	24.8				
			100	0	50	0	20.76	19.97	23.39	22.00	21.50	24.8				
			1	0	1	0	21.37	18.29	23.11	23.30	19.50	24.8				
			1	49	1	25	21.47	17.84	23.03	23.30	19.50	24.8				
			1	99	1	49	21.57	18.32	23.25	23.30	19.50	24.8				
132322	23095	QPSK	50	0	25	0	20.49	20.26	23.39	22.00	21.50	24.8				
			50	24	25	12	20.74	20.06	23.42	22.00	21.50	24.8				
			50	50	25	25	20.84	20.17	23.53	22.00	21.50	24.8				
			100	0	50	0	20.79	20.00	23.42	22.00	21.50	24.8				
			1	0	1	0	21.47	18.28	23.17	23.30	19.50	24.8				
			1	49	1	25	21.55	17.98	23.13	23.30	19.50	24.8				
			1	99	1	49	21.90	18.51	23.54	23.30	19.50	24.8				
			50	0	25	0	20.44	20.23	23.35	22.00	21.50	24.8				
			50	24	25	12	20.63	20.41	23.53	22.00	21.50	24.8				
			50	50	25	25	21.10	20.47	23.81	22.00	21.50	24.8				
100	0	50	0	20.71	20.35	23.54	22.00	21.50	24.8							

PCC:Ant3		SCC:Ant0		Tune up Power (dBm)												
CA_66A-12A																
Combination 20MHz+10MHz (100RB+50RB)																
PCC Channel	SCC Channel	Modulation	PCC				SCC				PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	SCC2 Power (dBm)	RB Size	RB offset						
132072	23060	QPSK	1	0	1	0	22.79	16.89	23.78	23.60	18.60	24.8				
			1	49	1	25	22.58	16.98	23.64	23.60	18.60	24.8				
			1	99	1	49	22.55	17.27	23.68	23.60	18.60	24.8				
			50	0	25	0	21.78	19.01	23.61	22.60	20.80	24.8				
			50	24	25	12	21.85	19.21	23.74	22.60	20.80	24.8				
			50	50	25	25	21.79	19.37	23.76	22.60	20.80	24.8				
			100	0	50	0	21.90	19.12	23.74	22.60	20.80	24.8				
			1	0	1	0	22.65	17.62	23.84	23.60	18.60	24.8				
			1	49	1	25	22.38	17.76	23.67	23.60	18.60	24.8				
			1	99	1	49	22.65	17.16	23.73	23.60	18.60	24.8				
132322	23095	QPSK	50	0	25	0	21.68	18.92	23.53	22.60	20.80	24.8				
			50	24	25	12	21.73	19.41	23.73	22.60	20.80	24.8				
			50	50	25	25	21.69	19.53	23.75	22.60	20.80	24.8				
			100	0	50	0	21.86	19.14	23.72	22.60	20.80	24.8				
			1	0	1	0	22.94	16.96	23.92	23.60	18.60	24.8				
			1	49	1	25	22.47	16.90	23.53	23.60	18.60	24.8				
			1	99	1	49	22.53	17.15	23.64	23.60	18.60	24.8				
			50	0	25	0	21.64	18.84	23.47	22.60	20.80	24.8				
			50	24	25	12	21.79	19.20	23.70	22.60	20.80	24.8				
			50	50	25	25	21.67	19.26	23.64	22.60	20.80	24.8				
100	0	50	0	21.84	19.19	23.72	22.60	20.80	24.8							

PCC:Ant0		SCC:Ant2		Tune up Power (dBm)												
CA_12A-66A																
Combination 10MHz+20MHz (50RB+100RB)																
PCC Channel	SCC Channel	Modulation	PCC				SCC				PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset	PCC1 Power (dBm)	SCC2 Power (dBm)	RB Size	RB offset						
23060	132072	QPSK	1	0	1	0	22.51	15.29	23.26	23.40	16.80	24.3				
			1	25	1	49	22.14	15.44	22.98	23.40	16.80	24.3				
			1	49	1	99	21.53	15.40	22.48	23.40	16.80	24.3				
			25	0	50	0	21.60	18.36	23.29	22.80	18.80	24.3				
			25	12	50	24	21.44	18.24	23.14	22.80	18.80	24.3				
			25	25	50	50	20.93	18.33	22.83	22.80	18.80	24.3				
			50	0	100	0	21.37	18.34	23.12	22.80	18.80	24.3				
			1	0	1											



n2 Ant 3									
RF Bldg	Module	RF Stat	RF Chan	Power Level Ch. / Freq.	Power Level Ch. / Freq.	Power Level Ch. / Freq.	Power Level Ch. / Freq.	Time-up (min)	EMF (dB)
Channel									
20	PIU BPSK	1	1	2311	2314	2316	2318	24.8	0.0
20	PIU BPSK	1	33	2320	2323	2325	2328	24.8	0.0
20	PIU BPSK	1	104	2331	2334	2337	2340	24.8	0.0
20	PIU BPSK	30	1	2340	2343	2345	2348	24.8	0.0
20	PIU BPSK	30	33	2349	2352	2354	2357	24.8	0.0
20	PIU BPSK	30	104	2359	2362	2364	2367	24.8	0.0
20	CPSC	1	1	2378	2381	2383	2386	24.8	0.0
20	CPSC	1	33	2387	2390	2392	2395	24.8	0.0
20	CPSC	1	104	2397	2400	2402	2405	24.8	0.0
20	CPSC	30	1	2414	2417	2419	2422	24.8	0.0
20	CPSC	30	33	2423	2426	2428	2431	24.8	0.0
20	CPSC	30	104	2433	2436	2438	2441	24.8	0.0
20	CPSC	50	1	2451	2454	2456	2459	24.8	0.0
20	CPSC	50	33	2460	2463	2465	2468	24.8	0.0
20	CPSC	50	104	2470	2473	2475	2478	24.8	0.0
20	CPSC	50	30	2488	2491	2493	2496	24.8	0.0
20	CPSC	50	50	2497	2500	2502	2505	24.8	0.0
20	CPSC	50	50	2506	2509	2511	2514	24.8	0.0
20	CPSC	50	50	2515	2518	2520	2523	24.8	0.0
20	CPSC	50	50	2524	2527	2529	2532	24.8	0.0
20	CPSC	50	50	2533	2536	2538	2541	24.8	0.0
20	CPSC	50	50	2542	2545	2547	2550	24.8	0.0
20	CPSC	50	50	2551	2554	2556	2559	24.8	0.0
20	CPSC	50	50	2560	2563	2565	2568	24.8	0.0
20	CPSC	50	50	2569	2572	2574	2577	24.8	0.0
20	CPSC	50	50	2576	2579	2581	2584	24.8	0.0
20	CPSC	50	50	2583	2586	2588	2591	24.8	0.0
20	CPSC	50	50	2590	2593	2595	2598	24.8	0.0
20	CPSC	50	50	2597	2600	2602	2605	24.8	0.0
20	CPSC	50	50	2604	2607	2609	2612	24.8	0.0
20	CPSC	50	50	2611	2614	2616	2619	24.8	0.0
20	CPSC	50	50	2618	2621	2623	2626	24.8	0.0
20	CPSC	50	50	2625	2628	2630	2633	24.8	0.0
20	CPSC	50	50	2632	2635	2637	2640	24.8	0.0
20	CPSC	50	50	2639	2642	2644	2647	24.8	0.0
20	CPSC	50	50	2646	2649	2651	2654	24.8	0.0
20	CPSC	50	50	2651	2654	2656	2659	24.8	0.0
20	CPSC	50	50	2658	2661	2663	2666	24.8	0.0
20	CPSC	50	50	2665	2668	2670	2673	24.8	0.0
20	CPSC	50	50	2672	2675	2677	2680	24.8	0.0
20	CPSC	50	50	2679	2682	2684	2687	24.8	0.0
20	CPSC	50	50	2686	2689	2691	2694	24.8	0.0
20	CPSC	50	50	2693	2696	2698	2701	24.8	0.0
20	CPSC	50	50	2700	2703	2705	2708	24.8	0.0
20	CPSC	50	50	2707	2710	2712	2715	24.8	0.0
20	CPSC	50	50	2714	2717	2719	2722	24.8	0.0
20	CPSC	50	50	2721	2724	2726	2729	24.8	0.0
20	CPSC	50	50	2728	2731	2733	2736	24.8	0.0
20	CPSC	50	50	2735	2738	2740	2743	24.8	0.0
20	CPSC	50	50	2742	2745	2747	2750	24.8	0.0
20	CPSC	50	50	2749	2752	2754	2757	24.8	0.0
20	CPSC	50	50	2756	2759	2761	2764	24.8	0.0
20	CPSC	50	50	2763	2766	2768	2771	24.8	0.0
20	CPSC	50	50	2770	2773	2775	2778	24.8	0.0
20	CPSC	50	50	2777	2780	2782	2785	24.8	0.0
20	CPSC	50	50	2784	2787	2789	2792	24.8	0.0
20	CPSC	50	50	2791	2794	2796	2799	24.8	0.0
20	CPSC	50	50	2798	2801	2803	2806	24.8	0.0
20	CPSC	50	50	2805	2808	2810	2813	24.8	0.0
20	CPSC	50	50	2812	2815	2817	2820	24.8	0.0
20	CPSC	50	50	2819	2822	2824	2827	24.8	0.0
20	CPSC	50	50	2826	2829	2831	2834	24.8	0.0
20	CPSC	50	50	2833	2836	2838	2841	24.8	0.0
20	CPSC	50	50	2840	2843	2845	2848	24.8	0.0
20	CPSC	50	50	2847	2850	2852	2855	24.8	0.0
20	CPSC	50	50	2854	2857	2859	2862	24.8	0.0
20	CPSC	50	50	2861	2864	2866	2869	24.8	0.0
20	CPSC	50	50	2868	2871	2873	2876	24.8	0.0
20	CPSC	50	50	2875	2878	2880	2883	24.8	0.0
20	CPSC	50	50	2882	2885	2887	2890	24.8	0.0
20	CPSC	50	50	2889	2892	2894	2897	24.8	0.0
20	CPSC	50	50	2896	2899	2901	2904	24.8	0.0
20	CPSC	50	50	2903	2906	2908	2911	24.8	0.0
20	CPSC	50	50	2910	2913	2915	2918	24.8	0.0
20	CPSC	50	50	2917	2920	2922	2925	24.8	0.0
20	CPSC	50	50	2924	2927	2929	2932	24.8	0.0
20	CPSC	50	50	2931	2934	2936	2939	24.8	0.0
20	CPSC	50	50	2938	2941	2943	2946	24.8	0.0
20	CPSC	50	50	2945	2948	2950	2953	24.8	0.0
20	CPSC	50	50	2952	2955	2957	2960	24.8	0.0
20	CPSC	50	50	2959	2962	2964	2967	24.8	0.0
20	CPSC	50	50	2966	2969	2971	2974	24.8	0.0
20	CPSC	50	50	2973	2976	2978	2981	24.8	0.0
20	CPSC	50	50	2980	2983	2985	2988	24.8	0.0
20	CPSC	50	50	2987	2990	2992	2995	24.8	0.0
20	CPSC	50	50	2994	2997	2999	3002	24.8	0.0
20	CPSC	50	50	3001	3004	3006	3009	24.8	0.0
20	CPSC	50	50	3008	3011	3013	3016	24.8	0.0
20	CPSC	50	50	3015	3018	3020	3023	24.8	0.0
20	CPSC	50	50	3022	3025	3027	3030	24.8	0.0
20	CPSC	50	50	3029	3032	3034	3037	24.8	0.0
20	CPSC	50	50	3036	3039	3041	3044	24.8	0.0
20	CPSC	50	50	3043	3046	3048	3051	24.8	0.0
20	CPSC	50	50	3050	3053	3055	3058	24.8	0.0
20	CPSC	50	50	3057	3060	3062	3065	24.8	0.0
20	CPSC	50	50	3064	3067	3069	3072	24.8	0.0
20	CPSC	50	50	3071	3074	3076	3079	24.8	0.0
20	CPSC	50	50	3078	3081	3083	3086	24.8	0.0
20	CPSC	50	50	3085	3088	3090	3093	24.8	0.0
20	CPSC	50	50	3092	3095	3097	3100	24.8	0.0
20	CPSC	50	50	3099	3102	3104	3107	24.8	0.0
20	CPSC	50	50	3106	3109	3111	3114	24.8	0.0
20	CPSC	50	50	3113	3116	3118	3121	24.8	0.0
20	CPSC	50	50	3120	3123	3125	3128	24.8	0.0
20	CPSC	50	50	3127	3130	3132	3135	24.8	0.0
20	CPSC	50	50	3134	3137	3139	3142	24.8	0.0
20	CPSC	50	50	3141	3144	3146	3149	24.8	0.0
20	CPSC	50	50	3148	3151	3153	3156	24.8	0.0
20	CPSC	50	50	3155	3158	3160	3163	24.8	0.0
20	CPSC	50	50	3162	3165	3167	3170	24.8	0.0
20	CPSC	50	50	3169	3172	3174	3177	24.8	0.0
20	CPSC	50	50	3176	3179	3181	3184	24.8	0.0
20	CPSC	50	50	3183	3186	3188	3191	24.8	0.0
20	CPSC	50	50	3190	3193	3195	3198	24.8	0.0
20	CPSC	50	50	3197	3200	3202	3205	24.8	0.0
20	CPSC	50	50	3204	3207	3209	3212	24.8	0.0
20	CPSC	50	50	3211	3214	3216	3219	24.8	0.0
20	CPSC	50	50	3218	3221	3223	3226	24.8	0.0
20	CPSC	50	50	3225	3228	3230	3233	24.8	0.0
20	CPSC	50	50	3232	3235	3237	3240	24.8	0.0
20	CPSC	50	50	3239	3242	3244	3247	24.8	0.0
20	CPSC	50	50	3246	3249	3251	3254	24.8	0.0
20	CPSC	50	50	3253	3256	3258	3261	24.8	0.0
20	CPSC	50	50	3260	3263	3265			



e65 Ant 3										
RF ID	Modulation	RF Size	RF Offset	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Time-up Int. (sec)	ERP (dB)
Channel										
20	PUSC-BPSK	1	1	2374	2374	2374	2374	2374	0.0	0.0
20	PUSC-BPSK	1	33	2380	2381	2380	2380	2380	0.0	0.0
20	PUSC-BPSK	1	106	2377	2377	2377	2377	2377	0.0	0.0
20	PUSC-BPSK	30	3	2320	2320	2324	2324	2324	0.0	0.0
20	PUSC-BPSK	30	26	2320	2320	2320	2320	2320	0.0	0.0
20	PUSC-BPSK	30	36	2327	2328	2322	2322	2322	0.0	0.0
20	PUSC-BPSK	100	8	2327	2327	2327	2327	2327	0.0	0.0
20	QPSK	1	1	2377	2379	2326	2326	2326	0.0	0.0
20	QPSK	1	33	2380	2376	2326	2326	2326	0.0	0.0
20	QPSK	1	106	2377	2326	2326	2326	2326	0.0	0.0
20	QPSK	30	3	2320	2324	2324	2324	2324	0.0	0.0
20	QPSK	30	26	2320	2320	2320	2320	2320	0.0	0.0
20	QPSK	30	36	2327	2328	2322	2322	2322	0.0	0.0
20	QPSK	100	8	2327	2327	2327	2327	2327	0.0	0.0
20	HQDM	1	1	2372	2372	2323	2323	2323	0.0	0.0
20	HQDM	1	33	2372	2372	2323	2323	2323	0.0	0.0
20	HQDM	1	106	2372	2372	2323	2323	2323	0.0	0.0
20	HQDM	30	3	2320	2320	2324	2324	2324	0.0	0.0
20	HQDM	30	26	2320	2320	2320	2320	2320	0.0	0.0
20	HQDM	30	36	2327	2328	2322	2322	2322	0.0	0.0
20	HQDM	100	8	2327	2327	2327	2327	2327	0.0	0.0
20	DSSS-BPSK	1	1	1827	1827	1827	1827	1827	0.0	0.0
Frequency (MHz)										
10	PUSC-BPSK	1	1	2372	2372	2323	2323	2323	0.0	0.0
Channel										
10	PUSC-BPSK	1	1	2372	2372	2323	2323	2323	0.0	0.0
Frequency (MHz)										
10	PUSC-BPSK	1	1	2372	2372	2323	2323	2323	0.0	0.0
Channel										
10	PUSC-BPSK	1	1	2372	2372	2323	2323	2323	0.0	0.0
Frequency (MHz)										
5	PUSC-BPSK	1	1	2374	2377	2371	2371	2371	0.0	0.0

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RF ID	Modulation	RF Size	RF Offset	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Time-up Int. (sec)	ERP (dB)
Channel										
20	PUSC-BPSK	1	1	2152	2152	2152	2152	2152	0.0	0.0
20	PUSC-BPSK	1	33	2155	2155	2154	2154	2154	0.0	0.0
20	PUSC-BPSK	1	106	2154	2153	2153	2153	2153	0.0	0.0
20	PUSC-BPSK	30	3	2108	2107	2108	2108	2108	0.0	0.0
20	PUSC-BPSK	30	26	2108	2108	2108	2108	2108	0.0	0.0
20	PUSC-BPSK	30	36	2105	2106	2104	2104	2104	0.0	0.0
20	PUSC-BPSK	100	8	2105	2105	2105	2105	2105	0.0	0.0
20	QPSK	1	1	2152	2154	2102	2102	2102	0.0	0.0
20	QPSK	1	33	2152	2152	2102	2102	2102	0.0	0.0
20	QPSK	1	106	2154	2153	2102	2102	2102	0.0	0.0
20	QPSK	30	3	2108	2107	2107	2107	2107	0.0	0.0
20	QPSK	30	26	2108	2108	2107	2107	2107	0.0	0.0
20	QPSK	30	36	2105	2106	2104	2104	2104	0.0	0.0
20	QPSK	100	8	2105	2105	2105	2105	2105	0.0	0.0
20	HQDM	1	1	2141	2141	2103	2103	2103	0.0	0.0
20	HQDM	1	33	2141	2141	2103	2103	2103	0.0	0.0
20	HQDM	1	106	2141	2141	2103	2103	2103	0.0	0.0
20	HQDM	30	3	2108	2108	2107	2107	2107	0.0	0.0
20	HQDM	30	26	2108	2108	2107	2107	2107	0.0	0.0
20	HQDM	30	36	2105	2106	2104	2104	2104	0.0	0.0
20	HQDM	100	8	2105	2105	2105	2105	2105	0.0	0.0
20	DSSS-BPSK	1	1	1621	1621	1621	1621	1621	0.0	0.0
Frequency (MHz)										
10	PUSC-BPSK	1	1	2152	2152	2102	2102	2102	0.0	0.0
Channel										
10	PUSC-BPSK	1	1	2152	2152	2102	2102	2102	0.0	0.0
Frequency (MHz)										
10	PUSC-BPSK	1	1	2152	2152	2102	2102	2102	0.0	0.0
Channel										
10	PUSC-BPSK	1	1	2152	2152	2102	2102	2102	0.0	0.0
Frequency (MHz)										
5	PUSC-BPSK	1	1	2106	2105	2107	2107	2107	0.0	0.0

e66 Ant 3										
RF ID	Modulation	RF Size	RF Offset	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Time-up Int. (sec)	ERP (dB)
Channel										
20	PUSC-BPSK	1	1	2414	2414	2414	2414	2414	0.0	0.0
20	PUSC-BPSK	1	33	2420	2420	2419	2419	2419	0.0	0.0
20	PUSC-BPSK	1	106	2419	2419	2419	2419	2419	0.0	0.0
20	PUSC-BPSK	30	3	2368	2368	2368	2368	2368	0.0	0.0
20	PUSC-BPSK	30	26	2368	2368	2368	2368	2368	0.0	0.0
20	PUSC-BPSK	30	36	2365	2366	2364	2364	2364	0.0	0.0
20	PUSC-BPSK	100	8	2365	2365	2365	2365	2365	0.0	0.0
20	QPSK	1	1	2412	2418	2366	2366	2366	0.0	0.0
20	QPSK	1	33	2412	2412	2366	2366	2366	0.0	0.0
20	QPSK	1	106	2414	2413	2366	2366	2366	0.0	0.0
20	QPSK	30	3	2368	2367	2367	2367	2367	0.0	0.0
20	QPSK	30	26	2368	2368	2367	2367	2367	0.0	0.0
20	QPSK	30	36	2365	2366	2364	2364	2364	0.0	0.0
20	QPSK	100	8	2365	2365	2365	2365	2365	0.0	0.0
20	HQDM	1	1	2407	2407	2367	2367	2367	0.0	0.0
20	HQDM	1	33	2407	2407	2367	2367	2367	0.0	0.0
20	HQDM	1	106	2407	2407	2367	2367	2367	0.0	0.0
20	HQDM	30	3	2368	2367	2367	2367	2367	0.0	0.0
20	HQDM	30	26	2368	2368	2367	2367	2367	0.0	0.0
20	HQDM	30	36	2365	2366	2364	2364	2364	0.0	0.0
20	HQDM	100	8	2365	2365	2365	2365	2365	0.0	0.0
20	DSSS-BPSK	1	1	1844	1844	1844	1844	1844	0.0	0.0
Frequency (MHz)										
10	PUSC-BPSK	1	1	2412	2412	2366	2366	2366	0.0	0.0
Channel										
10	PUSC-BPSK	1	1	2412	2412	2366	2366	2366	0.0	0.0
Frequency (MHz)										
10	PUSC-BPSK	1	1	2412	2412	2366	2366	2366	0.0	0.0
Channel										
10	PUSC-BPSK	1	1	2412	2412	2366	2366	2366	0.0	0.0
Frequency (MHz)										
5	PUSC-BPSK	1	1	2369	2367	2366	2366	2366	0.0	0.0

n71 Ant 1										
RF ID	Modulation	RF Size	RF Offset	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Time-up Int. (sec)	ERP (dB)
Channel										
20	PUSC-BPSK	1	1	1715	1715	1715	1715	1715	0.0	0.0
20	PUSC-BPSK	1	33	1712	1712	1715	1715	1715	0.0	0.0
20	PUSC-BPSK	1	106	1712	1712	1715	1715	1715	0.0	0.0
20	PUSC-BPSK	30	3	1668	1668	1668	1668	1668	0.0	0.0
20	PUSC-BPSK	30	26	1668	1668	1668	1668	1668	0.0	0.0
20	PUSC-BPSK	30	36	1665	1666	1664	1664	1664	0.0	0.0
20	PUSC-BPSK	100	8	1665	1665	1665	1665	1665	0.0	0.0
20	QPSK	1	1	1712	1718	1666	1666	1666	0.0	0.0
20	QPSK	1	33	1712	1712	1666	1666	1666	0.0	0.0
20	QPSK	1	106	1714	1713	1666	1666	1666	0.0	0.0
20	QPSK	30	3	1668	1667	1667	1667	1667	0.0	0.0
20	QPSK	30	26	1668	1668	1667	1667	1667	0.0	0.0
20	QPSK	30	36	1665	1666	1664	1664	1664	0.0	0.0
20	QPSK	100	8	1665	1665	1665	1665	1665	0.0	0.0
20	HQDM	1	1	1707	1707	1667	1667	1667	0.0	0.0
20	HQDM	1	33	1707	1707	1667	1667	1667	0.0	0.0
20	HQDM	1	106	1707	1707	1667	1667	1667	0.0	0.0
20	HQDM	30	3	1668	1667	1667	1667	1667	0.0	0.0
20	HQDM	30	26	1668	1668	1667	1667	1667	0.0	0.0
20	HQDM	30	36	1665	1666	1664	1664	1664	0.0	0.0
20	HQDM	100	8	1665	1665	1665	1665	1665	0.0	0.0
20	DSSS-BPSK	1	1	1187	1187	1187	1187	1187	0.0	0.0
Frequency (MHz)										
10	PUSC-BPSK	1	1	1712	1712	1666	1666	1666	0.0	0.0
Channel										
10	PUSC-BPSK	1	1	1712	1712	1666	1666	1666	0.0	0.0
Frequency (MHz)										
10	PUSC-BPSK	1	1	1712	1712	1666	1666	1666	0.0	0.0
Channel										
10	PUSC-BPSK	1	1	1712	1712	1666	1666	1666	0.0	0.0
Frequency (MHz)										
5	PUSC-BPSK	1	1	1669	1667	1666	1666	1666	0.0	0.0



n41 FCC Ant 1									
DW (MHz)	Multicast	FE Size	FE Offset	Power Class	Power Class Tx Power	Power Class Tx Power	Turn-up Time (Sec)	MPTI (dB)	
Channel									
Frequency (MHz)									
100	P10 BPSK	1	1	10.07	10.07	10.07	20.3	0.0	
100	P10 BPSK	1	107	10.32	10.32	10.32			
100	P10 BPSK	1	211	10.55	10.55	10.55			
100	P10 BPSK	1	315	10.78	10.78	10.78			
100	P10 BPSK	1	419	11.01	11.01	11.01	20.3	0.0	
100	P10 BPSK	1	523	11.24	11.24	11.24			
100	P10 BPSK	2	627	11.47	11.47	11.47	20.3	0.0	
100	CPFSK	1	137	11.68	11.68	11.68			
100	CPFSK	1	241	11.93	11.93	11.93	20.3	0.0	
100	CPFSK	1	345	12.16	12.16	12.16			
100	CPFSK	1	449	12.41	12.41	12.41	20.3	0.0	
100	CPFSK	1	553	12.64	12.64	12.64			
100	CPFSK	2	657	12.87	12.87	12.87	18.3	1.0	
100	CPFSK	1	761	13.10	13.10	13.10			
100	CPFSK	1	865	13.35	13.35	13.35	20.3	0.0	
100	CPFSK	1	969	13.58	13.58	13.58			
100	CPFSK	1	1073	13.83	13.83	13.83	18.3	1.0	
100	CPFSK	1	1177	14.06	14.06	14.06			
100	CPFSK	1	1281	14.31	14.31	14.31	20.3	0.0	
100	CPFSK	1	1385	14.54	14.54	14.54			
100	CPFSK	1	1489	14.79	14.79	14.79	17.8	2.5	
100	ZSOFDM	1	1	15.14	15.25	14.98	15.8	4.5	
Channel									
Frequency (MHz)									
30	P10 BPSK	1	1	10.07	10.07	10.07	20.3	0.0	
Channel									
Frequency (MHz)									
80	P10 BPSK	1	1	10.55	10.55	10.55	20.3	0.0	
Channel									
Frequency (MHz)									
50	P10 BPSK	1	1	10.46	10.46	10.50	20.3	0.0	
Channel									
Frequency (MHz)									
40	P10 BPSK	1	1	10.50	10.43	10.50	20.3	0.0	
Channel									
Frequency (MHz)									
30	P10 BPSK	1	1	10.48	10.20	10.56	20.3	0.0	
Channel									
Frequency (MHz)									
20	P10 BPSK	1	1	10.57	10.46	10.44	20.3	0.0	

n41(RPUE) FCC Ant 1									
DW (MHz)	Multicast	FE Size	FE Offset	Power Class	Power Class Tx Power	Power Class Tx Power	Turn-up Time (Sec)	MPTI (dB)	
Channel									
Frequency (MHz)									
100	P10 BPSK	1	1	22.42	22.42	22.22			
100	P10 BPSK	1	136	22.62	22.62	22.22	20.3	0.0	
100	P10 BPSK	1	271	22.81	22.81	21.87			
100	P10 BPSK	1	406	23.00	23.01	22.17			
100	P10 BPSK	1	541	23.20	23.21	22.00	20.3	0.0	
100	P10 BPSK	1	676	23.39	23.39	21.21			
100	P10 BPSK	2	811	23.58	23.57	22.01	20.3	0.0	
100	CPFSK	1	1	23.66	23.66	22.50			
100	CPFSK	1	137	23.86	23.86	22.50	20.3	0.0	
100	CPFSK	1	271	24.04	24.02	21.86			
100	CPFSK	1	406	24.23	24.23	21.66			
100	CPFSK	1	541	24.42	24.42	21.66	20.3	0.0	
100	CPFSK	1	676	24.61	24.61	21.61			
100	CPFSK	2	811	24.80	24.79	22.10	18.3	1.0	
100	CPFSK	1	946	25.00	24.99	22.10			
100	CPFSK	1	1081	25.19	25.18	22.10	20.3	0.0	
100	CPFSK	1	1216	25.38	25.37	22.10			
100	CPFSK	1	1351	25.57	25.56	22.10	18.3	1.0	
100	CPFSK	1	1486	25.76	25.75	22.10			
100	CPFSK	1	1621	25.95	25.94	22.10	20.3	0.0	
100	CPFSK	1	1756	26.14	26.13	22.10			
100	CPFSK	1	1891	26.33	26.32	22.10	18.3	1.0	
100	CPFSK	1	2026	26.52	26.51	22.10			
100	CPFSK	1	2161	26.71	26.70	22.10	20.3	0.0	
100	CPFSK	1	2296	26.90	26.89	22.10			
100	CPFSK	1	2431	27.09	27.08	22.10	18.3	1.0	
100	CPFSK	1	2566	27.28	27.27	22.10			
100	CPFSK	1	2701	27.47	27.46	22.10	20.3	0.0	
100	CPFSK	1	2836	27.66	27.65	22.10			
100	CPFSK	1	2971	27.85	27.84	22.10	18.3	1.0	
100	CPFSK	1	3106	28.04	28.03	22.10			
100	CPFSK	1	3241	28.23	28.22	22.10	20.3	0.0	
100	CPFSK	1	3376	28.42	28.41	22.10			
100	CPFSK	1	3511	28.61	28.60	22.10	18.3	1.0	
100	CPFSK	1	3646	28.80	28.79	22.10			
100	CPFSK	1	3781	28.99	28.98	22.10	20.3	0.0	
100	CPFSK	1	3916	29.18	29.17	22.10			
100	CPFSK	1	4051	29.37	29.36	22.10	18.3	1.0	
100	CPFSK	1	4186	29.56	29.55	22.10			
100	CPFSK	1	4321	29.75	29.74	22.10	20.3	0.0	
100	CPFSK	1	4456	29.94	29.93	22.10			
100	CPFSK	1	4591	30.13	30.12	22.10	18.3	1.0	
100	CPFSK	1	4726	30.32	30.31	22.10			
100	CPFSK	1	4861	30.51	30.50	22.10	20.3	0.0	
100	CPFSK	1	4996	30.70	30.69	22.10			
100	CPFSK	1	5131	30.89	30.88	22.10	18.3	1.0	
100	CPFSK	1	5266	31.08	31.07	22.10			
100	CPFSK	1	5401	31.27	31.26	22.10	20.3	0.0	
100	CPFSK	1	5536	31.46	31.45	22.10			
100	CPFSK	1	5671	31.65	31.64	22.10	18.3	1.0	
100	CPFSK	1	5806	31.84	31.83	22.10			
100	CPFSK	1	5941	32.03	32.02	22.10	20.3	0.0	
100	CPFSK	1	6076	32.22	32.21	22.10			
100	CPFSK	1	6211	32.41	32.40	22.10	18.3	1.0	
100	CPFSK	1	6346	32.60	32.59	22.10			
100	CPFSK	1	6481	32.79	32.78	22.10	20.3	0.0	
100	CPFSK	1	6616	32.98	32.97	22.10			
100	CPFSK	1	6751	33.17	33.16	22.10	18.3	1.0	
100	CPFSK	1	6886	33.36	33.35	22.10			
100	CPFSK	1	7021	33.55	33.54	22.10	20.3	0.0	
100	CPFSK	1	7156	33.74	33.73	22.10			
100	CPFSK	1	7291	33.93	33.92	22.10	18.3	1.0	
100	CPFSK	1	7426	34.12	34.11	22.10			
100	CPFSK	1	7561	34.31	34.30	22.10	20.3	0.0	
100	CPFSK	1	7696	34.50	34.49	22.10			
100	CPFSK	1	7831	34.69	34.68	22.10	18.3	1.0	
100	CPFSK	1	7966	34.88	34.87	22.10			
100	CPFSK	1	8101	35.07	35.06	22.10	20.3	0.0	
100	CPFSK	1	8236	35.26	35.25	22.10			
100	CPFSK	1	8371	35.45	35.44	22.10	18.3	1.0	
100	CPFSK	1	8506	35.64	35.63	22.10			
100	CPFSK	1	8641	35.83	35.82	22.10	20.3	0.0	
100	CPFSK	1	8776	36.02	36.01	22.10			
100	CPFSK	1	8911	36.21	36.20	22.10	18.3	1.0	
100	CPFSK	1	9046	36.40	36.39	22.10			
100	CPFSK	1	9181	36.59	36.58	22.10	20.3	0.0	
100	CPFSK	1	9316	36.78	36.77	22.10			
100	CPFSK	1	9451	36.97	36.96	22.10	18.3	1.0	
100	CPFSK	1	9586	37.16	37.15	22.10			
100	CPFSK	1	9721	37.35	37.34	22.10	20.3	0.0	
100	CPFSK	1	9856	37.54	37.53	22.10			
100	CPFSK	1	9991	37.73	37.72	22.10	18.3	1.0	
100	CPFSK	1	10126	37.92	37.91	22.10			
100	CPFSK	1	10261	38.11	38.10	22.10	20.3	0.0	
100	CPFSK	1	10396	38.30	38.29	22.10			
100	CPFSK	1	10531	38.49	38.48	22.10	18.3	1.0	
100	CPFSK	1	10666	38.68	38.67	22.10			
100	CPFSK	1	10801	38.87	38.86	22.10	20.3	0.0	
100	CPFSK	1	10936	39.06	39.05	22.10			
100	CPFSK	1	11071	39.25	39.24	22.10	18.3	1.0	
100	CPFSK	1	11206	39.44	39.43	22.10			
100	CPFSK	1	11341	39.63	39.62	22.10	20.3	0.0	
100	CPFSK	1	11476	39.82	39.81	22.10			
100	CPFSK	1	11611	40.01	39.99	22.10	18.3	1.0	
100	CPFSK	1	11746	40.20	40.19	22.10			
100	CPFSK	1	11881	40.39	40.38	22.10	20.3	0.0	
100	CPFSK	1	12016	40.58	40.57	22.10			
100	CPFSK	1	12151	40.77	40.76	22.10	18.3	1.0	
100	CPFSK	1	12286	40.96	40.95	22.10			
100	CPFSK	1	12421	41.15	41.14	22.10	20.3	0.0	
100	CPFSK	1	12556	41.34	41.33	22.10			
100	CPFSK	1	12691	41.53	41.52	22.10	18.3	1.0	
100	CPFSK	1	12826	41.72	41.71	22.10			
100	CPFSK	1	12961	41.91	41.90	22.10	20.3	0.0	
100	CPFSK	1	13096	42.10	42.09	22.10			
100	CPFSK	1	13231	42.29	42.28	22.10	18.3	1.0	
100	CPFSK	1	13366	42.48	42.47	22.10			
100	CPFSK	1	13501	42.67	42.66	22.10	20.3	0.0	
100	CPFSK	1	13636	42.86	42.85	22.10			
100	CPFSK	1	13771	43.05	43.04	22.10	18.3	1.0	
100	CPFSK	1	13906	43.24	43.23	22.10			
100	CPFSK	1	14041	43.43	43.42	22.10	20.3	0.0	
100	CPFSK	1	14176	43.62	43.61	22.10			
100	CPFSK	1	14311	43.81	43.80	22.10	18.3</		



n2_Ant 2										
RFI (MHz)	Modulation	RF Size	RF Offset	Power Level Ch. 1 Power Power	Power Level Ch. 2 Power Power	Power Level Ch. 3 Power Power	Turn-up time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	PFC BPSK	1	1	21.22	21.12	21.12				
20	PFC BPSK	1	53	21.22	21.12	21.12	21.8	0.0		
20	PFC BPSK	1	104	21.21	21.22	21.12				
20	PFC BPSK	50	0	21.22	21.22	21.17	21.8	0.0		
20	PFC BPSK	50	38	21.20	21.22	21.17	21.8	0.0		
20	PFC BPSK	50	90	21.14	21.22	21.12	21.8	0.0		
20	PFC BPSK	100	0	21.15	21.22	21.12	21.8	0.0		
20	QPSK	1	1	21.22	21.12	21.12				
20	QPSK	1	53	21.22	21.12	21.12	21.8	0.0		
20	QPSK	1	104	21.19	21.14	21.22				
20	QPSK	50	0	21.24	21.22	21.12	21.8	0.0		
20	QPSK	50	38	21.21	21.14	21.12	21.8	0.0		
20	QPSK	50	90	21.13	21.14	21.12	21.8	0.0		
20	QPSK	100	0	21.12	21.12	21.12	21.8	0.0		
20	SSBAM	1	1	18.22	18.22	18.22	18.8	1.0		
20	SSBAM	1	1	18.19	18.22	18.22	18.8	1.0		
20	ZS3DM	1	1	18.21	18.22	18.22	18.8	2.0		
Channel										
Frequency (MHz)										
15	PFC BPSK	1	1	21.21	21.14	21.12				
Channel										
Frequency (MHz)										
10	PFC BPSK	1	1	21.17	21.12	21.12	21.8	0.0		
Channel										
Frequency (MHz)										
5	PFC BPSK	1	1	18.15	18.15	18.15	18.8	0.0		

n5_Ant 0										
RFI (MHz)	Modulation	RF Size	RF Offset	Power Level Ch. 1 Power Power	Power Level Ch. 2 Power Power	Power Level Ch. 3 Power Power	Turn-up time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	PFC BPSK	1	1	22.07	22.42	22.42				
20	PFC BPSK	1	53	22.05	22.42	22.42	23.5	0.0		
20	PFC BPSK	1	104	22.75	22.12	22.42				
20	PFC BPSK	50	0	22.24	21.72	22.42	23.5	0.0		
20	PFC BPSK	50	38	22.03	21.72	22.42	23.5	0.0		
20	PFC BPSK	50	90	22.25	21.67	22.42	23.5	0.0		
20	PFC BPSK	100	0	22.32	21.68	22.42	23.5	0.0		
20	QPSK	1	1	22.38	22.38	22.42				
20	QPSK	1	53	22.35	22.38	22.42	23.5	0.0		
20	QPSK	1	104	22.72	22.32	22.42				
20	QPSK	50	0	21.81	21.27	21.84	23.5	1.0		
20	QPSK	50	38	22.05	21.22	21.82	23.5	0.0		
20	QPSK	50	90	21.80	21.12	21.82	23.5	0.0		
20	QPSK	100	0	21.82	21.22	21.82	23.5	0.0		
20	SSBAM	1	1	18.17	18.18	18.22	18.8	1.0		
20	SSBAM	1	1	18.17	18.18	18.22	18.8	1.0		
20	ZS3DM	1	1	18.19	18.18	18.22	18.8	2.0		
Channel										
Frequency (MHz)										
15	PFC BPSK	1	1	22.15	21.82	21.72				
Channel										
Frequency (MHz)										
10	PFC BPSK	1	1	22.16	22.32	22.42	23.5	0.0		
Channel										
Frequency (MHz)										
5	PFC BPSK	1	1	22.07	22.42	22.42	23.5	0.0		

n7_Ant 2										
RFI (MHz)	Modulation	RF Size	RF Offset	Power Level Ch. 1 Power Power	Power Level Ch. 2 Power Power	Power Level Ch. 3 Power Power	Turn-up time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	PFC BPSK	1	1	20.84	20.77	20.72				
20	PFC BPSK	1	53	20.82	20.72	20.72	21.8	0.0		
20	PFC BPSK	1	104	20.75	20.82	20.72				
20	PFC BPSK	50	0	20.84	20.82	20.72	21.8	0.0		
20	PFC BPSK	50	38	20.80	20.84	20.82	21.8	0.0		
20	PFC BPSK	50	90	20.75	20.84	20.72	21.8	0.0		
20	PFC BPSK	100	0	20.82	20.82	20.72	21.8	0.0		
20	QPSK	1	1	20.82	20.72	20.72				
20	QPSK	1	53	20.82	20.72	20.72	21.8	0.0		
20	QPSK	1	104	20.77	20.72	20.72				
20	QPSK	50	0	19.92	19.81	19.82	20.8	1.0		
20	QPSK	50	38	20.74	20.77	20.82	21.8	0.0		
20	QPSK	50	90	19.85	19.76	19.82	20.8	1.0		
20	QPSK	100	0	19.84	19.72	19.82	20.8	1.0		
20	SSBAM	1	1	18.21	18.22	18.22	18.8	1.0		
20	SSBAM	1	1	18.25	18.14	18.11	18.8	2.0		
20	ZS3DM	1	1	18.24	18.12	18.12	18.8	2.0		
Channel										
Frequency (MHz)										
15	PFC BPSK	1	1	20.85	20.82	20.72				
Channel										
Frequency (MHz)										
10	PFC BPSK	1	1	20.87	20.82	20.82	21.8	0.0		
Channel										
Frequency (MHz)										
5	PFC BPSK	1	1	20.81	20.72	20.82	21.8	0.0		



n25_Ant 2										
BW (MHz)	Modulation	FE Size	FE Offset	Power Level Ch. 1 Power	Power Level Ch. 2 Power	Power Level Ch. 3 Power	Power Level Ch. 4 Power	Power Level Ch. 5 Power	Throughput (Mbps)	MPR (dB)
Channel										
Frequency (MHz)										
20	PV-BPSK	1	1	21.00	20.80	21.21			21.8	0.0
20	PV-BPSK	1	1	21.00	21.00	21.00			21.8	0.0
20	PV-BPSK	1	1	20.80	20.80	20.80			21.8	0.0
20	PV-BPSK	50	0	21.00	20.80	20.80			21.8	0.0
20	PV-BPSK	50	0	21.00	20.80	21.00			21.8	0.0
20	PV-BPSK	100	0	20.80	20.80	20.80			21.8	0.0
20	PV-BPSK	100	0	20.80	20.80	20.80			21.8	0.0
20	QPSK	1	1	21.00	21.00	21.00			21.8	0.0
20	QPSK	1	1	21.00	21.00	21.00			21.8	0.0
20	QPSK	50	0	21.00	20.80	20.80			20.8	1.0
20	QPSK	50	0	21.00	21.00	21.00			20.8	1.0
20	QPSK	100	0	20.80	20.80	20.80			20.8	1.0
20	QPSK	100	0	20.80	20.80	20.80			20.8	1.0
20	8QAM	1	1	18.00	18.00	18.00			18.0	2.0
20	8QAM	1	1	18.00	18.00	18.00			18.0	2.0
20	16QAM	1	1	16.00	16.00	16.00			16.0	4.0
20	16QAM	1	1	16.00	16.00	16.00			16.0	4.0
Channel										
Frequency (MHz)										
15	PV-BPSK	1	1	21.00	20.80	20.80			21.8	0.0
Channel										
Frequency (MHz)										
10	PV-BPSK	1	1	20.80	20.81	21.00			21.8	0.0
Channel										
Frequency (MHz)										
5	PV-BPSK	1	1	18.00	18.00	18.00			21.8	0.0

n66_Ant 0										
BW (MHz)	Modulation	FE Size	FE Offset	Power Level Ch. 1 Power	Power Level Ch. 2 Power	Power Level Ch. 3 Power	Power Level Ch. 4 Power	Power Level Ch. 5 Power	Throughput (Mbps)	MPR (dB)
Channel										
Frequency (MHz)										
20	PV-BPSK	1	1	20.80	20.80	20.80			24.8	0.0
20	PV-BPSK	1	1	20.80	20.80	20.80			24.8	0.0
20	PV-BPSK	1	1	20.80	20.80	20.80			24.8	0.0
20	PV-BPSK	50	0	20.80	20.80	20.80			24.8	0.0
20	PV-BPSK	50	0	20.80	20.80	20.80			24.8	0.0
20	PV-BPSK	100	0	20.80	20.80	20.80			24.8	0.0
20	PV-BPSK	100	0	20.80	20.80	20.80			24.8	0.0
20	QPSK	1	1	20.80	20.80	20.80			24.8	0.0
20	QPSK	1	1	20.80	20.80	20.80			24.8	0.0
20	QPSK	50	0	20.80	20.80	20.80			24.8	1.0
20	QPSK	50	0	20.80	20.80	20.80			24.8	1.0
20	QPSK	100	0	20.80	20.80	20.80			24.8	1.0
20	QPSK	100	0	20.80	20.80	20.80			24.8	1.0
20	16QAM	1	1	16.00	16.00	16.00			24.8	2.0
20	16QAM	1	1	16.00	16.00	16.00			24.8	2.0
20	32QAM	1	1	16.00	16.00	16.00			24.8	4.0
20	32QAM	1	1	16.00	16.00	16.00			24.8	4.0
Channel										
Frequency (MHz)										
15	PV-BPSK	1	1	21.00	20.80	20.80			24.8	0.0
Channel										
Frequency (MHz)										
10	PV-BPSK	1	1	20.80	20.79	20.79			24.8	0.0
Channel										
Frequency (MHz)										
5	PV-BPSK	1	1	20.79	20.79	20.79			24.8	0.0

n66_Ant 2										
BW (MHz)	Modulation	FE Size	FE Offset	Power Level Ch. 1 Power	Power Level Ch. 2 Power	Power Level Ch. 3 Power	Power Level Ch. 4 Power	Power Level Ch. 5 Power	Throughput (Mbps)	MPR (dB)
Channel										
Frequency (MHz)										
20	PV-BPSK	1	1	21.00	20.80	21.00			21.8	0.0
20	PV-BPSK	1	1	21.00	20.80	20.80			21.8	0.0
20	PV-BPSK	1	1	21.00	20.80	21.00			21.8	0.0
20	PV-BPSK	50	0	21.00	20.80	20.80			21.8	0.0
20	PV-BPSK	50	0	21.00	20.80	20.80			21.8	0.0
20	PV-BPSK	100	0	20.80	20.80	20.80			21.8	0.0
20	PV-BPSK	100	0	20.80	20.80	20.80			21.8	0.0
20	QPSK	1	1	21.00	20.80	20.80			21.8	0.0
20	QPSK	1	1	21.00	20.80	20.80			21.8	0.0
20	QPSK	50	0	21.00	20.80	20.80			21.8	1.0
20	QPSK	50	0	21.00	20.80	20.80			21.8	1.0
20	QPSK	100	0	20.80	20.80	20.80			21.8	1.0
20	QPSK	100	0	20.80	20.80	20.80			21.8	1.0
20	16QAM	1	1	16.00	16.00	16.00			21.8	2.0
20	16QAM	1	1	16.00	16.00	16.00			21.8	2.0
20	32QAM	1	1	16.00	16.00	16.00			21.8	4.0
20	32QAM	1	1	16.00	16.00	16.00			21.8	4.0
Channel										
Frequency (MHz)										
15	PV-BPSK	1	1	21.00	20.80	20.80			21.8	0.0
Channel										
Frequency (MHz)										
10	PV-BPSK	1	1	21.00	20.80	21.00			21.8	0.0
Channel										
Frequency (MHz)										
5	PV-BPSK	1	1	21.00	20.80	21.00			21.8	0.0

n71 (NSA) Ant 0										
BW (MHz)	Modulation	FE Size	FE Offset	Power Level Ch. 1 Power	Power Level Ch. 2 Power	Power Level Ch. 3 Power	Power Level Ch. 4 Power	Power Level Ch. 5 Power	Throughput (Mbps)	MPR (dB)
Channel										
Frequency (MHz)										
20	PV-BPSK	1	1	20.80	20.80	20.80			23.5	0.0
20	PV-BPSK	1	1	20.80	20.80	20.80			23.5	0.0
20	PV-BPSK	1	1	20.80	20.80	20.80			23.5	0.0
20	PV-BPSK	50	0	20.80	20.80	20.80			23.5	0.0
20	PV-BPSK	50	0	20.80	20.80	20.80			23.5	0.0
20	PV-BPSK	100	0	20.80	20.80	20.80			23.5	0.0
20	PV-BPSK	100	0	20.80	20.80	20.80			23.5	0.0
20	QPSK	1	1	20.80	20.80	20.80			23.5	0.0
20	QPSK	1	1	20.80	20.80	20.80			23.5	0.0
20	QPSK	50	0	20.80	20.80	20.80			23.5	0.5
20	QPSK	50	0	20.80	20.80	20.80			23.5	0.5
20	QPSK	100	0	20.80	20.80	20.80			23.5	0.5
20	QPSK	100	0	20.80	20.80	20.80			23.5	0.5
20	16QAM	1	1	16.00	16.00	16.00			23.5	2.0
20	16QAM	1	1	16.00	16.00	16.00			23.5	2.0
20	32QAM	1	1	16.00	16.00	16.00			23.5	4.0
20	32QAM	1	1	16.00	16.00	16.00			23.5	4.0
Channel										
Frequency (MHz)										
15	PV-BPSK	1	1	20.80	20.80	20.80			23.5	0.0
Channel										
Frequency (MHz)										
10	PV-BPSK	1	1	20.80	20.80	20.80			23.5	0.0
Channel										
Frequency (MHz)										
5	PV-BPSK	1	1	20.80	20.80	20.80			23.5	0.0



n41 FCC-Ant 0										
DIV (MHz)	Multicast	FE Size	FE Offset	Power Class	Power Class Tx Power	Power Class Tx Power	Power Class Tx Power	Turn-up Time (Sec)	MPTI (dB)	
				Channel	Frequency (MHz)	2500.00	2500.00	2500.00		
100	P10 BPSK	1	1	1	22.02	22.02	22.02		23.8	0.0
100	P10 BPSK	1	1	1	22.07	22.07	22.07			
100	P10 BPSK	1	1	1	22.45	22.45	22.45			
100	P10 BPSK	136	88	88	22.54	22.61	22.64		23.8	0.0
100	P10 BPSK	136	88	88	22.60	22.67	22.70			
100	P10 BPSK	270	9	9	22.22	22.22	22.94	22.3	0.0	
100	QPSK	1	1	1	22.00	22.00	22.00			
100	QPSK	1	1	1	22.08	22.08	22.08		23.8	0.0
100	QPSK	1	1	1	22.39	22.46	22.29			
100	QPSK	136	88	88	22.52	22.59	22.64		23.8	0.0
100	QPSK	136	88	88	22.60	22.67	22.76			
100	QPSK	270	9	9	21.96	21.13	20.96	22.8	1.0	
100	QPSK	1	1	1	21.98	21.98	21.98			
100	QPSK	1	1	1	21.98	20.70	20.78	21.8	2.0	
100	ZSOFDM	1	1	1	18.80	18.70	18.80	19.8	4.0	
Channel										
50	Frequency (MHz)	1	1	22.41	22.50	22.57	22.8	0.0		
Channel										
80	P10 BPSK	1	1	22.79	22.81	22.83	23.8	0.0		
Channel										
50	P10 BPSK	1	1	22.86	22.87	22.91	23.8	0.0		
Channel										
40	Frequency (MHz)	1	1	22.92	22.93	22.93	23.8	0.0		
Channel										
30	P10 BPSK	1	1	22.79	22.83	22.84	23.8	0.0		
Channel										
20	Frequency (MHz)	1	1	22.77	22.81	22.82	23.8	0.0		

n41(RPUE) FCC-Ant 0										
DIV (MHz)	Multicast	FE Size	FE Offset	Power Class	Power Class Tx Power	Power Class Tx Power	Power Class Tx Power	Turn-up Time (Sec)	MPTI (dB)	
				Channel	Frequency (MHz)	2500.00	2500.00	2500.00		
100	P10 BPSK	1	1	1	25.10	25.10	25.10		26.8	0.0
100	P10 BPSK	1	1	1	25.20	25.20	25.20			
100	P10 BPSK	1	1	1	25.30	25.40	25.30			
100	P10 BPSK	136	88	88	25.40	25.50	25.50		26.8	0.0
100	P10 BPSK	136	88	88	25.50	25.60	25.70			
100	P10 BPSK	270	9	9	25.30	25.50	25.31	26.8	0.0	
100	QPSK	1	1	1	25.00	25.00	25.00			
100	QPSK	1	1	1	25.10	25.10	25.10		26.8	0.0
100	QPSK	1	1	1	25.20	25.20	25.21			
100	QPSK	136	88	88	25.30	25.40	25.40		26.8	0.0
100	QPSK	136	88	88	25.40	25.50	25.60			
100	QPSK	270	9	9	24.80	24.80	24.79	25.8	1.0	
100	QPSK	1	1	1	24.80	24.80	24.80			
100	QPSK	1	1	1	24.72	24.80	24.80	24.8	2.0	
100	ZSOFDM	1	1	1	21.20	21.30	21.20	22.8	4.0	
Channel										
50	Frequency (MHz)	1	1	25.14	25.14	25.14	26.8	0.0		
Channel										
80	P10 BPSK	1	1	25.14	25.14	25.14	26.8	0.0		
Channel										
50	P10 BPSK	1	1	25.10	25.14	25.14	26.8	0.0		
Channel										
40	Frequency (MHz)	1	1	25.10	25.14	25.14	26.8	0.0		
Channel										
30	P10 BPSK	1	1	25.04	25.08	25.07	26.8	0.0		
Channel										
20	Frequency (MHz)	1	1	25.03	25.03	25.03	26.8	0.0		

n41 FCC-Ant 2										
DIV (MHz)	Multicast	FE Size	FE Offset	Power Class	Power Class Tx Power	Power Class Tx Power	Power Class Tx Power	Turn-up Time (Sec)	MPTI (dB)	
				Channel	Frequency (MHz)	2500.00	2500.00	2500.00		
100	P10 BPSK	1	1	1	20.80	20.80	20.81			
100	P10 BPSK	1	1	1	20.97	20.98	20.99	21.8	0.0	
100	P10 BPSK	1	1	1	21.30	21.37	21.38			
100	P10 BPSK	136	88	88	20.81	20.83	20.83		21.8	0.0
100	P10 BPSK	136	88	88	20.70	20.74	20.74			
100	P10 BPSK	136	88	88	20.80	20.84	20.84		21.8	0.0
100	P10 BPSK	270	9	9	20.44	20.52	20.51	21.8	0.0	
100	QPSK	1	1	1	20.50	20.50	20.50			
100	QPSK	1	1	1	20.57	20.58	20.58		21.8	0.0
100	QPSK	1	1	1	20.80	20.80	20.80			
100	QPSK	1	1	1	20.81	20.87	20.86		21.8	0.0
100	QPSK	136	88	88	20.90	20.90	20.91		21.8	0.0
100	QPSK	136	88	88	20.90	20.92	20.92			
100	QPSK	136	88	88	20.91	20.94	20.94			
100	QPSK	270	9	9	20.41	20.48	20.47	20.8	1.0	
100	QPSK	1	1	1	20.40	20.40	20.40			
100	QPSK	1	1	1	20.19	20.20	20.19	20.9	1.0	
100	ZSOFDM	1	1	1	18.21	18.31	18.21	19.3	2.8	
Channel										
50	Frequency (MHz)	1	1	20.75	20.78	20.78	21.8	0.0		
Channel										
80	P10 BPSK	1	1	20.75	20.78	20.78	21.8	0.0		
Channel										
50	P10 BPSK	1	1	20.70	20.76	20.76	21.8	0.0		
Channel										
40	Frequency (MHz)	1	1	20.70	20.76	20.76	21.8	0.0		
Channel										
30	P10 BPSK	1	1	20.65	20.62	20.62	21.8	0.0		
Channel										
20	Frequency (MHz)	1	1	20.67	20.69	20.69	21.8	0.0		

n41 FCC (RPUE) Ant 2										
DIV (MHz)	Multicast	FE Size	FE Offset	Power Class	Power Class Tx Power	Power Class Tx Power	Power Class Tx Power	Turn-up Time (Sec)	MPTI (dB)	
				Channel	Frequency (MHz)	2500.00	2500.00	2500.00		
100	P10 BPSK	1	1	1	22.70	22.80	22.81			
100	P10 BPSK	1	1	1	22.71	22.78	22.82	23.8	0.0	
100	P10 BPSK	1	1	1	22.40	22.40	22.40			
100	P10 BPSK	136	88	88	22.74	22.82	22.81		23.8	0.0
100	P10 BPSK	136	88	88	22.80	22.79	22.80			
100	P10 BPSK	136	88	88	22.70	22.74	22.74		23.8	0.0
100	P10 BPSK	270	9	9	22.10	22.14	22.17	23.8	0.0	
100	QPSK	1	1	1	22.70	22.70	22.70			
100	QPSK	1	1	1	22.71	22.78	22.82	23.8	0.0	
100	QPSK	1	1	1	22.40	22.40	22.40			
100	QPSK	136	88	88	22.70	22.74	22.74		23.8	0.0
100	QPSK	136	88	88	22.80	22.79	22.81			
100	QPSK	136	88	88	22.70	22.74	22.74		23.8	0.0
100	QPSK	270	9	9	21.80	21.86	21.79	22.8	1.0	
100	QPSK	1	1	1	21.70	21.84	21.84			
100	QPSK	1	1	1	21.80	20.79	20.82	21.5	2.0	
100	ZSOFDM	1	1	1	18.40	18.34	18.31	19.3	4.0	
Channel										
50	Frequency (MHz)	1	1	22.70	22.78	22.78	23.8	0.0		
Channel										
80	P10 BPSK	1	1	22.70	22.78	22.78	23.8	0.0		
Channel										
50	P10 BPSK	1	1	22.71	22.74	22.74	23.8	0.0		
Channel										
40	Frequency (MHz)	1	1	22.70	22.74	22.74	23.8	0.0		
Channel										
30	P10 BPSK	1	1	22.64	22.64	22.64	23.8	0.0		
Channel										
20	Frequency (MHz)	1	1	22.60	22.60	22.60	23.8	0.0		



n77_FCC_Ant 9								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				65000	65000	66000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	23.50	23.58	23.46	24.8	0.0
100	PI/2 BPSK	1	137	23.45	23.51	23.44		
100	PI/2 BPSK	1	271	23.41	23.50	23.41		
100	PI/2 BPSK	135	0	23.41	23.46	23.32	24.8	0.0
100	PI/2 BPSK	135	69	23.42	23.55	23.38		
100	PI/2 BPSK	135	138	23.38	23.41	23.35		
100	PI/2 BPSK	270	0	23.36	23.43	23.31	24.3	0.5
100	QPSK	1	1	23.44	23.41	23.40	24.8	0.0
100	QPSK	1	137	23.42	23.44	23.37		
100	QPSK	1	271	23.40	23.48	23.36		
100	QPSK	135	0	23.44	23.47	23.38	24.8	0.0
100	QPSK	135	69	23.43	23.41	23.39		
100	QPSK	135	138	23.41	23.39	23.34		
100	QPSK	270	0	23.42	23.35	23.36	23.8	1.0
100	16QAM	1	1	23.21	23.20	23.32	23.8	1.0
100	64QAM	1	1	21.64	21.68	21.66	22.3	2.5
100	256QAM	1	1	19.70	19.72	19.69	20.3	4.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	PI/2 BPSK	1	1	23.41	23.39	23.45	24.8	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	PI/2 BPSK	1	1	23.38	23.41	23.42	24.8	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3960.01		
60	PI/2 BPSK	1	1	23.37	23.42	23.47	24.8	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	PI/2 BPSK	1	1	23.31	23.45	23.41	24.8	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	PI/2 BPSK	1	1	23.46	23.39	23.45	24.8	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	PI/2 BPSK	1	1	23.41	23.31	23.44	24.8	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	PI/2 BPSK	1	1	23.38	23.42	23.48	24.8	0.0



Reduced Power Level 1 for Head

n2_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel									
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	17.88	18.05	17.90			
20	PI2 BPSK	1	53	18.09	18.14	17.99	18.8	0.0	
20	PI2 BPSK	1	104	18.05	18.09	17.92			
20	PI2 BPSK	50	0	17.96	18.03	17.95	18.8	0.0	
20	PI2 BPSK	50	28	18.04	18.09	17.93	18.8	0.0	
20	PI2 BPSK	50	56	17.95	18.01	17.91	18.8	0.0	
20	PI2 BPSK	100	0	17.85	18.02	17.88			
20	QPSK	1	1	18.09	18.01	17.96			
20	QPSK	1	53	17.86	18.04	17.93	18.8	0.0	
20	QPSK	1	104	17.85	17.98	17.89			
20	QPSK	50	0	17.98	18.02	17.91	18.8	0.0	
20	QPSK	50	28	17.96	18.06	17.94	18.8	0.0	
20	QPSK	50	56	18.05	17.99	17.89	18.8	0.0	
20	QPSK	100	0	17.89	18.05	17.95			
20	16QAM	1	1	18.01	17.90	17.84	18.8	0.0	
20	16QAM	1	1	18.02	18.04	18.01	18.8	0.0	
20	256QAM	1	1	18.58	18.06	18.58	17.3	1.5	
Channel									
Frequency (MHz)				1862.5	1880	1902.5	Tune-up limit (dBm)	MPR (dB)	
15	PI2 BPSK	1	1	18.01	17.81	17.85	18.8	0.0	
Channel									
Frequency (MHz)				37000	37600	38000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905			
10	PI2 BPSK	1	1	18.00	17.82	17.94	18.8	0.0	
Channel									
Frequency (MHz)				37050	37650	38050	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5			
5	PI2 BPSK	1	1	17.99	17.80	17.91	18.8	0.0	

n5_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel									
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	22.09	21.93	21.90			
20	PI2 BPSK	1	53	21.95	21.90	21.90	22.5	0.0	
20	PI2 BPSK	1	104	21.86	21.80	21.78			
20	PI2 BPSK	50	0	21.98	21.88	21.83	22.5	0.0	
20	PI2 BPSK	50	28	22.00	21.90	21.85	22.5	0.0	
20	PI2 BPSK	50	56	21.91	21.84	21.80	22.5	0.0	
20	PI2 BPSK	100	0	21.97	21.87	21.83			
20	QPSK	1	1	22.07	22.03	22.00			
20	QPSK	1	53	21.75	21.94	21.93	22.5	0.0	
20	QPSK	1	104	21.45	21.85	21.60			
20	QPSK	50	0	21.97	21.99	21.84	22.5	0.0	
20	QPSK	50	28	21.72	21.91	21.90	22.5	0.0	
20	QPSK	50	56	21.81	21.90	21.86	22.5	0.0	
20	QPSK	100	0	20.86	21.90	20.99			
20	16QAM	1	1	21.91	22.01	21.98	22.5	0.0	
20	16QAM	1	1	20.47	19.60	20.20	21.0	1.5	
20	256QAM	1	1	18.59	17.44	18.38	19.0	3.5	
Channel									
Frequency (MHz)				831.5	838.5	841.5	Tune-up limit (dBm)	MPR (dB)	
15	PI2 BPSK	1	1	22.00	21.90	21.92	22.5	0.0	
Channel									
Frequency (MHz)				16630	16700	16800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				839	838.5	844			
10	PI2 BPSK	1	1	21.99	21.88	21.91	22.5	0.0	
Channel									
Frequency (MHz)				16630	16700	16800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	838.5	842.5			
5	PI2 BPSK	1	1	21.94	21.84	21.87	22.5	0.0	

n7_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel									
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	18.13	18.10	18.08			
20	PI2 BPSK	1	53	18.15	18.12	18.10	19.3	0.0	
20	PI2 BPSK	1	104	17.97	18.06	17.93			
20	PI2 BPSK	50	0	17.94	17.94	17.89	19.3	0.0	
20	PI2 BPSK	50	28	18.07	18.03	17.98	19.3	0.0	
20	PI2 BPSK	50	56	17.99	18.00	17.90	19.3	0.0	
20	PI2 BPSK	100	0	18.03	17.99	17.91			
20	QPSK	1	1	18.03	18.11	18.04			
20	QPSK	1	53	18.01	18.14	18.05	19.3	0.0	
20	QPSK	1	104	18.06	18.10	17.97			
20	QPSK	50	0	17.89	17.98	17.98	19.3	0.0	
20	QPSK	50	28	18.00	18.08	17.95	19.3	0.0	
20	QPSK	50	56	17.96	18.05	17.86	19.3	0.0	
20	QPSK	100	0	17.98	18.06	17.91			
20	16QAM	1	1	17.99	18.00	17.99	19.3	0.0	
20	16QAM	1	1	18.02	18.10	18.03	19.3	0.0	
20	256QAM	1	1	15.97	15.88	15.93	17.3	2.0	
Channel									
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)	MPR (dB)	
15	PI2 BPSK	1	1	18.11	18.06	17.99	19.3	0.0	
Channel									
Frequency (MHz)				50100	50100	51500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	PI2 BPSK	1	1	18.06	18.02	17.96	19.3	0.0	
Channel									
Frequency (MHz)				50050	50700	51300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	PI2 BPSK	1	1	18.04	17.96	17.97	19.3	0.0	



n25 Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1890	1892.5	1905			
20	PI2 BPSK	1	1	17.93	17.95	18.04	18.8	0.0	
20	PI2 BPSK	1	53	17.82	17.90	18.00			
20	PI2 BPSK	1	104	17.78	17.87	17.91			
20	PI2 BPSK	50	0	17.78	17.86	17.96	18.9	0.0	
20	PI2 BPSK	50	28	17.83	17.94	17.98	18.8	0.0	
20	PI2 BPSK	50	56	17.72	17.80	17.83			
20	PI2 BPSK	100	0	17.73	17.80	17.97	18.8	0.0	
20	QPSK	1	1	17.93	18.00	17.91			
20	QPSK	1	53	17.97	17.96	17.85	18.8	0.0	
20	QPSK	1	104	17.87	17.81	17.82			
20	QPSK	50	0	17.94	17.99	17.88	18.8	0.0	
20	QPSK	50	28	18.00	17.90	17.82	18.8	0.0	
20	QPSK	50	56	17.97	17.85	17.87	18.8	0.0	
20	QPSK	100	0	17.92	17.95	17.83			
20	16QAM	1	1	17.71	17.85	17.72	18.8	0.0	
20	64QAM	1	1	17.82	17.96	17.86	18.8	0.0	
20	256QAM	1	1	16.96	16.48	16.34	17.8	1.0	
Channel									
Frequency (MHz)				1897.5	1892.5	1907.5	Tune-up limit (dBm)	MPR (dB)	
15	PI2 BPSK	1	1	17.91	18.02	17.87	18.8	0.0	
Channel									
Frequency (MHz)				31600	31650	32000	Tune-up limit (dBm)	MPR (dB)	
10	PI2 BPSK	1	1	17.90	18.00	17.81	18.8	0.0	
Channel									
Frequency (MHz)				370500	378500	382000	Tune-up limit (dBm)	MPR (dB)	
5	PI2 BPSK	1	1	17.89	18.25	17.60	18.8	0.0	

n66 Ant 0									
BW (MHz)	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	1745	1770			
20	PI2 BPSK	1	1	16.88	16.68	16.60			
20	PI2 BPSK	1	53	16.73	16.60	16.48	17.8	0.0	
20	PI2 BPSK	1	104	16.82	16.69	16.53			
20	PI2 BPSK	50	0	16.74	16.61	16.47	17.8	0.0	
20	PI2 BPSK	50	28	16.75	16.68	16.50	17.8	0.0	
20	PI2 BPSK	50	56	16.65	16.52	16.36			
20	PI2 BPSK	100	0	16.69	16.56	16.40	17.8	0.0	
20	QPSK	1	1	16.83	16.70	16.54			
20	QPSK	1	53	16.69	16.56	16.40	17.8	0.0	
20	QPSK	1	104	16.83	16.70	16.54			
20	QPSK	50	0	16.77	16.64	16.48	17.8	0.0	
20	QPSK	50	28	16.69	16.56	16.42	17.8	0.0	
20	QPSK	50	56	16.73	16.59	16.43	17.8	0.0	
20	QPSK	100	0	16.71	16.58	16.44			
20	16QAM	1	1	16.65	16.53	16.37	17.8	0.0	
20	64QAM	1	1	16.67	16.54	16.38	17.8	0.0	
20	256QAM	1	1	16.60	16.49	16.35	17.8	0.0	
Channel									
Frequency (MHz)				1717.5	1745	1772.5	Tune-up limit (dBm)	MPR (dB)	
15	PI2 BPSK	1	1	16.85	16.79	16.65	17.8	0.0	
Channel									
Frequency (MHz)				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
10	PI2 BPSK	1	1	17.15	17.45	17.75			
10	PI2 BPSK	1	1	16.83	16.80	16.68	17.8	0.0	
Channel									
Frequency (MHz)				342500	349000	355000	Tune-up limit (dBm)	MPR (dB)	
5	PI2 BPSK	1	1	16.79	16.72	16.67	17.8	0.0	

n66 Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1720	1745	1770			
20	PI2 BPSK	1	1	17.95	17.78	17.66			
20	PI2 BPSK	1	53	17.80	17.82	17.83	18.8	0.0	
20	PI2 BPSK	1	104	17.79	17.60	17.48			
20	PI2 BPSK	50	0	17.81	17.63	17.55	18.8	0.0	
20	PI2 BPSK	50	28	17.83	17.87	17.59	18.8	0.0	
20	PI2 BPSK	50	56	17.80	17.60	17.50			
20	PI2 BPSK	100	0	17.78	17.62	17.53	18.8	0.0	
20	QPSK	1	1	17.84	17.75	17.65			
20	QPSK	1	53	17.75	17.81	17.52	18.8	0.0	
20	QPSK	1	104	17.82	17.62	17.56			
20	QPSK	50	0	17.76	17.68	17.59	18.8	0.0	
20	QPSK	50	28	17.81	17.59	17.52	18.8	0.0	
20	QPSK	50	56	17.83	17.58	17.51	18.8	0.0	
20	QPSK	100	0	17.85	17.61	17.51			
20	16QAM	1	1	17.83	17.77	17.56	18.8	0.0	
20	64QAM	1	1	17.78	17.75	17.65	18.8	0.0	
20	256QAM	1	1	16.79	16.66	16.58	17.8	1.0	
Channel									
Frequency (MHz)				1717.5	1745	1772.5	Tune-up limit (dBm)	MPR (dB)	
15	PI2 BPSK	1	1	17.90	17.79	17.72	21.8	0.0	
Channel									
Frequency (MHz)				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
10	PI2 BPSK	1	1	17.91	17.82	17.78	21.8	0.0	
Channel									
Frequency (MHz)				342500	349000	355000	Tune-up limit (dBm)	MPR (dB)	
5	PI2 BPSK	1	1	17.84	17.80	17.75	21.8	0.0	



n41 FCC Ant 0									
BW (MHz)	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)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	15.53	15.64	15.41			
100	PI2 BPSK	1	1	15.45	15.56	15.33			
100	PI2 BPSK	1	271	15.17	15.27	15.05	16.8	0.0	
100	PI2 BPSK	135	0	15.39	15.50	15.27			
100	PI2 BPSK	135	69	15.46	15.67	15.34		0.0	
100	PI2 BPSK	135	138	15.20	15.31	15.08			
100	PI2 BPSK	270	0	15.44	15.55	15.32	16.8	0.0	
100	QPSK	1	1	15.52	15.61	15.38			
100	QPSK	1	137	15.41	15.52	15.29	16.8	0.0	
100	QPSK	1	271	15.14	15.25	15.04			
100	QPSK	135	0	15.43	15.52	15.29			
100	QPSK	135	69	15.33	15.44	15.21	16.8	0.0	
100	QPSK	135	138	15.20	15.31	15.08			
100	QPSK	270	0	15.41	15.52	15.29	16.8	0.0	
100	16QAM	1	1	15.42	15.51	15.28	16.8	0.0	
100	64QAM	1	1	15.47	15.58	15.35	16.8	0.0	
100	256QAM	1	1	15.38	15.47	15.24	16.8	0.0	
Channel									
Frequency (MHz)				2541	2592.99	2644.98	Tune-up limit (dBm)	MPR (dB)	
90	PI2 BPSK	1	1	15.55	15.60	15.49	16.8	0.0	
Channel									
Frequency (MHz)				5022.04	5189.98	5359.98	Tune-up limit (dBm)	MPR (dB)	
80	PI2 BPSK	1	1	15.52	15.62	15.44	16.8	0.0	
Channel									
Frequency (MHz)				5042.04	5189.98	5359.98	Tune-up limit (dBm)	MPR (dB)	
50	PI2 BPSK	1	1	15.50	15.57	15.41	16.8	0.0	
Channel									
Frequency (MHz)				5032.02	5189.98	5340.00	Tune-up limit (dBm)	MPR (dB)	
40	PI2 BPSK	1	1	15.45	15.52	15.39	16.8	0.0	
Channel									
Frequency (MHz)				5022.00	5189.98	5349.96	Tune-up limit (dBm)	MPR (dB)	
30	PI2 BPSK	1	1	15.43	15.58	15.42	16.8	0.0	
Channel									
Frequency (MHz)				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)	
20	PI2 BPSK	1	1	15.51	15.60	15.47	16.8	0.0	

n41 HPUE FCC Ant 0									
BW (MHz)	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)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	15.93	16.04	15.80			
100	PI2 BPSK	1	137	16.10	16.21	15.97	16.8	0.0	
100	PI2 BPSK	1	271	15.67	15.78	15.54			
100	PI2 BPSK	135	0	15.97	16.08	15.84	16.8	0.0	
100	PI2 BPSK	135	69	16.03	16.14	15.90			
100	PI2 BPSK	135	138	15.88	15.99	15.75			
100	PI2 BPSK	270	0	15.96	16.07	15.83	16.8	0.0	
100	QPSK	1	1	16.03	16.14	15.90			
100	QPSK	1	137	16.02	16.13	15.89	16.8	0.0	
100	QPSK	1	271	15.93	16.04	15.70			
100	QPSK	135	0	16.01	16.12	15.88			
100	QPSK	135	69	15.98	16.09	15.85	16.8	0.0	
100	QPSK	135	138	15.87	15.98	15.74			
100	QPSK	270	0	15.91	16.02	15.78	16.8	0.0	
100	16QAM	1	1	15.96	16.07	15.83	16.8	0.0	
100	64QAM	1	1	15.95	16.06	15.82	16.8	0.0	
100	256QAM	1	1	16.03	16.14	15.90	16.8	0.0	
Channel									
Frequency (MHz)				2541	2592.99	2644.98	Tune-up limit (dBm)	MPR (dB)	
90	PI2 BPSK	1	1	16.11	16.20	15.92	16.8	0.0	
Channel									
Frequency (MHz)				5022.04	5189.98	5359.98	Tune-up limit (dBm)	MPR (dB)	
80	PI2 BPSK	1	1	16.02	16.19	15.92	16.8	0.0	
Channel									
Frequency (MHz)				5042.04	5189.98	5359.98	Tune-up limit (dBm)	MPR (dB)	
50	PI2 BPSK	1	1	16.09	16.11	15.91	16.8	0.0	
Channel									
Frequency (MHz)				5032.02	5189.98	5340.00	Tune-up limit (dBm)	MPR (dB)	
40	PI2 BPSK	1	1	16.02	16.07	16.02	16.8	0.0	
Channel									
Frequency (MHz)				5022.00	5189.98	5349.96	Tune-up limit (dBm)	MPR (dB)	
30	PI2 BPSK	1	1	16.06	16.14	15.94	16.8	0.0	
Channel									
Frequency (MHz)				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)	
20	PI2 BPSK	1	1	16.11	16.15	15.97	16.8	0.0	

n41 HPUE FCC Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	20.16	20.27	20.03			
100	PI2 BPSK	1	137	19.93	20.04	19.80	21.3	0.0	
100	PI2 BPSK	1	271	19.63	19.74	19.50			
100	PI2 BPSK	135	0	19.95	20.06	19.82	21.3	0.0	
100	PI2 BPSK	135	69	20.00	20.13	19.89			
100	PI2 BPSK	135	138	19.83	19.94	19.70			
100	PI2 BPSK	270	0	19.98	20.07	19.83	21.3	0.0	
100	QPSK	1	1	20.13	20.23	19.99			
100	QPSK	1	137	19.95	20.06	19.84	21.3	0.0	
100	QPSK	1	271	19.75	19.82	19.58			
100	QPSK	135	0	20.04	20.15	19.91			
100	QPSK	135	69	19.85	19.99	19.75	21.3	0.0	
100	QPSK	135	138	19.71	19.82	19.58			
100	QPSK	270	0	19.98	20.09	19.75	20.8	0.5	
100	16QAM	1	1	20.13	20.21	19.95	20.8	0.5	
100	64QAM	1	1	20.14	20.21	19.99	20.8	0.5	
100	256QAM	1	1	19.85	19.92	19.53	20.8	0.5	
Channel									
Frequency (MHz)				2541	2592.99	2644.98	Tune-up limit (dBm)	MPR (dB)	
90	PI2 BPSK	1	1	20.19	20.22	20.15	21.3	0.0	
Channel									
Frequency (MHz)				5022.04	5189.98	5359.98	Tune-up limit (dBm)	MPR (dB)	
80	PI2 BPSK	1	1	20.15	20.21	20.11	21.3	0.0	
Channel									
Frequency (MHz)				5042.04	5189.98	5359.98	Tune-up limit (dBm)	MPR (dB)	
50	PI2 BPSK	1	1	20.17	20.23	20.12	21.3	0.0	
Channel									
Frequency (MHz)				5032.02	5189.98	5340.00	Tune-up limit (dBm)	MPR (dB)	
40	PI2 BPSK	1	1	20.11	20.19	20.09	21.3	0.0	
Channel									
Frequency (MHz)				5022.00	5189.98	5349.96	Tune-up limit (dBm)	MPR (dB)	
30	PI2 BPSK	1	1	20.12	20.18	20.04	21.3	0.0	
Channel									
Frequency (MHz)				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)	
20	PI2 BPSK	1	1	20.14	20.20	20.05	21.3	0.0	

n77_FCC-Ant 9								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	19.61	19.65	19.64	20.8	0.0
100	PI/2 BPSK	1	137	19.58	19.64	19.62		
100	PI/2 BPSK	1	271	19.57	19.63	19.63		
100	PI/2 BPSK	135	0	19.54	19.59	19.57	20.8	0.0
100	PI/2 BPSK	135	69	19.58	19.64	19.61		
100	PI/2 BPSK	135	138	19.51	19.54	19.60		
100	PI/2 BPSK	270	0	19.54	19.58	19.56	20.8	0.0
100	QPSK	1	1	19.57	19.55	19.54	20.8	0.0
100	QPSK	1	137	19.55	19.57	19.55		
100	QPSK	1	271	19.53	19.61	19.52		
100	QPSK	135	0	19.50	19.50	19.49	20.8	0.0
100	QPSK	135	69	19.53	19.54	19.47		
100	QPSK	135	138	19.54	19.52	19.45		
100	QPSK	270	0	19.55	19.48	19.49	20.8	0.0
100	16QAM	1	1	19.44	19.45	19.48	20.8	0.0
100	64QAM	1	1	19.41	19.44	19.42	20.8	0.0
100	256QAM	1	1	19.36	19.38	19.37	20.3	0.5
Channel				648668	656000	662334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)
90	PI/2 BPSK	1	1	19.52	19.60	19.55	20.8	0.0
Channel				649334	656000	662668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	PI/2 BPSK	1	1	19.48	19.57	19.54	20.8	0.0
Channel				648668	656000	663334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	PI/2 BPSK	1	1	19.48	19.52	19.53	20.8	0.0
Channel				648334	656000	663668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)
50	PI/2 BPSK	1	1	19.49	19.53	19.53	20.8	0.0
Channel				648000	656000	664000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	PI/2 BPSK	1	1	19.46	19.51	19.49	20.8	0.0
Channel				647668	656000	664334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)
30	PI/2 BPSK	1	1	19.44	19.56	19.47	20.8	0.0
Channel				647334	656000	664668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	PI/2 BPSK	1	1	19.53	19.50	19.58	20.8	0.0



n2_Ant 2								
DB (MHz)	Modulation	RB Size	RB Chan	Power Ch. / Freq.	Power Ch. / Freq.	Power Ch. / Freq.	Turnup time (min)	MPF (dB)
Channel								
Frequency (MHz)								
20	P102BPSK	1	1	16.50	16.50	16.50		
20	P102BPSK	1	33	17.03	17.03	16.94	17.8	0.0
20	P102BPSK	1	100	17.60	17.60	17.51		
20	P102BPSK	50	0	16.91	16.90	16.90	17.8	0.0
20	P102BPSK	50	70	16.83	16.84	16.75	17.8	0.0
20	P102BPSK	50	96	16.90	16.90	16.75	17.8	0.0
20	P102BPSK	100	0	16.80	16.87	16.73		
20	QPSK	1	1	16.81	16.80	16.81	17.8	0.0
20	QPSK	1	33	16.81	16.80	16.79	17.8	0.0
20	QPSK	50	0	16.83	16.87	16.74	17.8	0.0
20	QPSK	50	70	16.81	16.84	16.74	17.8	0.0
20	QPSK	50	96	16.90	16.84	16.71	17.8	0.0
20	QPSK	100	0	16.84	16.80	16.80		
20	HSK64Q	1	1	16.96	17.05	16.90	17.8	0.0
20	HSK64Q	1	1	16.97	16.90	16.80	17.8	0.0
20	HSK64Q	1	1	16.93	16.95	16.93	17.8	1.0
Channel								
Frequency (MHz)								
15	P102BPSK	1	1	16.44	16.52	16.44	17.8	0.0
Channel								
Frequency (MHz)								
10	P102BPSK	1	1	17.03	17.00	17.00	17.8	0.0
Channel								
Frequency (MHz)								
2	P102BPSK	1	1	17.00	16.91	17.00	17.8	0.0

n5_Ant 1								
DB (MHz)	Modulation	RB Size	RB Chan	Power Ch. / Freq.	Power Ch. / Freq.	Power Ch. / Freq.	Turnup time (min)	MPF (dB)
Channel								
Frequency (MHz)								
20	P102BPSK	1	1	21.04	21.03	21.00		
20	P102BPSK	1	33	21.00	20.90	20.83	21.5	0.0
20	P102BPSK	1	100	20.91	20.79	20.71		
20	P102BPSK	50	0	20.83	20.83	20.70	21.5	0.0
20	P102BPSK	50	70	20.85	20.85	20.80	21.5	0.0
20	P102BPSK	50	96	20.90	20.79	20.71	21.5	0.0
20	P102BPSK	100	0	20.80	20.82	20.70		
20	QPSK	1	1	21.02	21.00	21.00	21.5	0.0
20	QPSK	1	33	20.70	20.80	20.80	21.5	0.0
20	QPSK	50	0	20.80	20.80	20.70		
20	QPSK	50	70	20.82	20.84	20.80	21.5	0.0
20	QPSK	50	96	20.85	20.85	20.80	21.5	0.0
20	QPSK	100	0	20.81	20.80	20.80		
20	HSK64Q	1	1	20.96	20.90	20.80	21.5	0.0
20	HSK64Q	1	1	20.87	19.90	20.20	20.0	0.0
20	HSK64Q	1	1	19.70	19.70	19.70	19.0	0.0
Channel								
Frequency (MHz)								
15	P102BPSK	1	1	21.03	21.02	20.90	21.5	0.0
Channel								
Frequency (MHz)								
10	P102BPSK	1	1	21.01	20.94	20.80	21.5	0.0
Channel								
Frequency (MHz)								
2	P102BPSK	1	1	21.02	21.00	20.90	21.5	0.0

n7_Ant 2								
DB (MHz)	Modulation	RB Size	RB Chan	Power Ch. / Freq.	Power Ch. / Freq.	Power Ch. / Freq.	Turnup time (min)	MPF (dB)
Channel								
Frequency (MHz)								
20	P102BPSK	1	1	17.00	16.90	16.81		
20	P102BPSK	1	33	17.10	17.07	16.90	16.3	0.0
20	P102BPSK	1	100	17.00	17.00	16.90		
20	P102BPSK	50	0	16.80	16.70	16.60	16.3	0.0
20	P102BPSK	50	70	16.90	16.80	16.71	16.3	0.0
20	P102BPSK	50	96	16.91	16.80	16.71	16.3	0.0
20	P102BPSK	100	0	16.80	16.84	16.80		
20	QPSK	1	1	16.80	17.00	16.80	16.3	0.0
20	QPSK	1	33	16.80	17.00	17.00	16.3	0.0
20	QPSK	50	0	16.84	16.81	16.80	16.3	0.0
20	QPSK	50	70	16.90	16.80	16.70	16.3	0.0
20	QPSK	50	96	16.91	16.80	16.71	16.3	0.0
20	QPSK	100	0	16.80	17.01	16.80		
20	HSK64Q	1	1	16.84	16.80	16.84	16.3	0.0
20	HSK64Q	1	1	16.87	17.00	16.80	16.3	0.0
20	HSK64Q	1	1	16.81	16.81	16.81	17.0	1.0
Channel								
Frequency (MHz)								
15	P102BPSK	1	1	17.02	17.01	16.90	16.3	0.0
Channel								
Frequency (MHz)								
10	P102BPSK	1	1	17.00	17.00	16.90	16.3	0.0
Channel								
Frequency (MHz)								
2	P102BPSK	1	1	17.00	16.90	16.80	16.3	0.0



n25_Ant 2										
RF (MHz)	Modulation	RF Size	RF Chn	Power Ch./T.Freq.	Power Ch./T.Freq.	Power Ch./T.Freq.	Power Ch./T.Freq.	Power Ch./T.Freq.	Power Ch./T.Freq.	MFR (dB)
Channel										
Frequency (MHz)										
20	PV2-BPSK	1	1	17.00	17.10	17.15	17.20	17.25	17.30	0.0
20	PV2-BPSK	1	33	17.00	17.05	17.11	17.17	17.23	17.29	0.0
20	PV2-BPSK	1	65	17.00	17.05	17.11	17.17	17.23	17.29	0.0
20	PV2-BPSK	50	0	16.99	16.99	17.01	17.01	17.03	17.03	0.0
20	PV2-BPSK	50	20	17.00	17.00	17.00	17.00	17.00	17.00	0.0
20	PV2-BPSK	50	40	16.99	16.99	17.00	17.01	17.01	17.01	0.0
20	PV2-BPSK	100	0	16.98	16.98	17.00	17.02	17.02	17.02	0.0
20	QPSK	1	1	17.00	17.10	17.15	17.20	17.25	17.30	0.0
20	QPSK	1	33	17.00	17.11	17.20	17.29	17.38	17.47	0.0
20	QPSK	1	65	17.00	17.11	17.20	17.29	17.38	17.47	0.0
20	QPSK	50	0	17.00	17.14	17.23	17.32	17.41	17.50	0.0
20	QPSK	50	20	17.00	17.00	17.00	17.00	17.00	17.00	0.0
20	QPSK	50	40	17.00	17.00	17.00	17.00	17.00	17.00	0.0
20	QPSK	100	0	17.00	17.00	17.00	17.00	17.00	17.00	0.0
20	QPSK	1	1	16.98	17.00	17.01	17.02	17.03	17.04	0.0
20	QPSK	1	33	16.97	17.11	17.21	17.31	17.41	17.51	0.0
20	QPSK	1	65	16.97	17.11	17.21	17.31	17.41	17.51	0.0
Channel										
Frequency (MHz)										
10	PV2-BPSK	1	1	17.00	17.10	17.15	17.20	17.25	17.30	0.0
10	PV2-BPSK	1	33	17.00	17.05	17.11	17.17	17.23	17.29	0.0
10	PV2-BPSK	1	65	17.00	17.05	17.11	17.17	17.23	17.29	0.0
Channel										
Frequency (MHz)										
10	PV2-BPSK	1	1	17.00	17.10	17.15	17.20	17.25	17.30	0.0

n26_Ant 0										
RF (MHz)	Modulation	RF Size	RF Chn	Power Ch./T.Freq.	Power Ch./T.Freq.	Power Ch./T.Freq.	Power Ch./T.Freq.	Power Ch./T.Freq.	Power Ch./T.Freq.	MFR (dB)
Channel										
Frequency (MHz)										
20	PV2-BPSK	1	1	15.00	15.10	15.15	15.20	15.25	15.30	0.0
20	PV2-BPSK	1	33	15.00	15.10	15.15	15.20	15.25	15.30	0.0
20	PV2-BPSK	1	65	15.00	15.10	15.15	15.20	15.25	15.30	0.0
20	PV2-BPSK	50	0	14.99	14.99	15.01	15.01	15.03	15.03	0.0
20	PV2-BPSK	50	20	15.00	15.00	15.00	15.00	15.00	15.00	0.0
20	PV2-BPSK	50	40	14.99	14.99	15.00	15.01	15.01	15.01	0.0
20	PV2-BPSK	100	0	14.98	14.98	15.00	15.02	15.02	15.02	0.0
20	QPSK	1	1	15.00	15.10	15.15	15.20	15.25	15.30	0.0
20	QPSK	1	33	15.00	15.11	15.20	15.29	15.38	15.47	0.0
20	QPSK	1	65	15.00	15.11	15.20	15.29	15.38	15.47	0.0
20	QPSK	50	0	15.00	15.00	15.00	15.00	15.00	15.00	0.0
20	QPSK	50	20	15.00	15.00	15.00	15.00	15.00	15.00	0.0
20	QPSK	50	40	15.00	15.00	15.00	15.00	15.00	15.00	0.0
20	QPSK	100	0	15.00	15.00	15.00	15.00	15.00	15.00	0.0
20	QPSK	1	1	14.98	15.11	15.20	15.29	15.38	15.47	0.0
20	QPSK	1	33	14.97	15.11	15.21	15.31	15.41	15.51	0.0
20	QPSK	1	65	14.97	15.11	15.21	15.31	15.41	15.51	0.0
Channel										
Frequency (MHz)										
10	PV2-BPSK	1	1	15.00	15.10	15.15	15.20	15.25	15.30	0.0
10	PV2-BPSK	1	33	15.00	15.05	15.11	15.17	15.23	15.29	0.0
10	PV2-BPSK	1	65	15.00	15.05	15.11	15.17	15.23	15.29	0.0
Channel										
Frequency (MHz)										
10	PV2-BPSK	1	1	15.00	15.10	15.15	15.20	15.25	15.30	0.0

n26_Ant 2										
RF (MHz)	Modulation	RF Size	RF Chn	Power Ch./T.Freq.	Power Ch./T.Freq.	Power Ch./T.Freq.	Power Ch./T.Freq.	Power Ch./T.Freq.	Power Ch./T.Freq.	MFR (dB)
Channel										
Frequency (MHz)										
20	PV2-BPSK	1	1	16.00	16.10	16.15	16.20	16.25	16.30	0.0
20	PV2-BPSK	1	33	16.00	16.05	16.11	16.17	16.23	16.29	0.0
20	PV2-BPSK	1	65	16.00	16.05	16.11	16.17	16.23	16.29	0.0
20	PV2-BPSK	50	0	15.99	15.99	16.01	16.01	16.03	16.03	0.0
20	PV2-BPSK	50	20	16.00	16.00	16.00	16.00	16.00	16.00	0.0
20	PV2-BPSK	50	40	15.99	15.99	16.00	16.01	16.01	16.01	0.0
20	PV2-BPSK	100	0	15.98	15.98	16.00	16.02	16.02	16.02	0.0
20	QPSK	1	1	16.00	16.10	16.15	16.20	16.25	16.30	0.0
20	QPSK	1	33	16.00	16.11	16.20	16.29	16.38	16.47	0.0
20	QPSK	1	65	16.00	16.11	16.20	16.29	16.38	16.47	0.0
20	QPSK	50	0	16.00	16.00	16.00	16.00	16.00	16.00	0.0
20	QPSK	50	20	16.00	16.00	16.00	16.00	16.00	16.00	0.0
20	QPSK	50	40	16.00	16.00	16.00	16.00	16.00	16.00	0.0
20	QPSK	100	0	16.00	16.00	16.00	16.00	16.00	16.00	0.0
20	QPSK	1	1	15.98	16.11	16.20	16.29	16.38	16.47	0.0
20	QPSK	1	33	15.97	16.11	16.21	16.31	16.41	16.51	0.0
20	QPSK	1	65	15.97	16.11	16.21	16.31	16.41	16.51	0.0
Channel										
Frequency (MHz)										
10	PV2-BPSK	1	1	16.00	16.10	16.15	16.20	16.25	16.30	0.0
10	PV2-BPSK	1	33	16.00	16.05	16.11	16.17	16.23	16.29	0.0
10	PV2-BPSK	1	65	16.00	16.05	16.11	16.17	16.23	16.29	0.0
Channel										
Frequency (MHz)										
10	PV2-BPSK	1	1	16.00	16.10	16.15	16.20	16.25	16.30	0.0

n71 (NSA)										
RF (MHz)	Modulation	RF Size	RF Chn	Power Ch./T.Freq.	Power Ch./T.Freq.	Power Ch./T.Freq.	Power Ch./T.Freq.	Power Ch./T.Freq.	Power Ch./T.Freq.	MFR (dB)
Channel										
Frequency (MHz)										
20	PV2-BPSK	1	1	20.00	20.10	20.15	20.20	20.25	20.30	0.0
20	PV2-BPSK	1	33	20.00	20.05	20.11	20.17	20.23	20.29	0.0
20	PV2-BPSK	1	65	20.00	20.05	20.11	20.17	20.23	20.29	0.0
20	PV2-BPSK	50	0	19.99	19.99	20.01	20.01	20.03	20.03	0.0
20	PV2-BPSK	50	20	20.00	20.00	20.00	20.00	20.00	20.00	0.0
20	PV2-BPSK	50	40	19.99	19.99	20.00	20.01	20.01	20.01	0.0
20	PV2-BPSK	100	0	19.98	19.98	20.00	20.02	20.02	20.02	0.0
20	QPSK	1	1	20.00	20.10	20.15	20.20	20.25	20.30	0.0
20	QPSK	1	33	20.00	20.11	20.20	20.29	20.38	20.47	0.0
20	QPSK	1	65	20.00	20.11	20.20	20.29	20.38	20.47	0.0
20	QPSK	50	0	20.00	20.00	20.00	20.00	20.00	20.00	0.0
20	QPSK	50	20	20.00	20.00	20.00	20.00	20.00	20.00	0.0
20	QPSK	50	40	20.00	20.00	20.00	20.00	20.00	20.00	0.0
20	QPSK	100	0	20.00	20.00	20.00	20.00	20.00	20.00	0.0
20	QPSK	1	1	19.98	20.11	20.20	20.29	20.38	20.47	0.0
20	QPSK	1	33	19.97	20.11	20.21	20.31	20.41	20.51	0.0
20	QPSK	1	65	19.97	20.11	20.21	20.31	20.41	20.51	0.0
Channel										
Frequency (MHz)										
10	PV2-BPSK	1	1	20.00	20.10	20.15	20.20	20.25	20.30	0.0
10	PV2-BPSK	1	33	20.00	20.05	20.11	20.17	20.23	20.29	0.0
10	PV2-BPSK	1	65	20.00	20.05	20.11	20.17	20.23	20.29	0.0
Channel										
Frequency (MHz)										
10	PV2-BPSK	1	1	20.00	20.10	20.15	20.20	20.25	20.30	0.0



n77_FCC-Ant 9								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	18.11	18.16	18.03	19.3	0.0
100	PI/2 BPSK	1	137	18.02	18.12	17.95		
100	PI/2 BPSK	1	271	18.01	18.14	17.91		
100	PI/2 BPSK	135	0	18.06	18.03	17.88	19.3	0.0
100	PI/2 BPSK	135	69	18.08	18.14	17.92		
100	PI/2 BPSK	135	138	18.06	18.11	17.84		
100	PI/2 BPSK	270	0	18.02	18.11	17.99	19.3	0.0
100	QPSK	1	1	18.01	18.05	17.82	19.3	0.0
100	QPSK	1	137	18.05	18.09	17.83		
100	QPSK	1	271	17.86	18.07	17.86		
100	QPSK	135	0	17.92	18.03	17.81	19.3	0.0
100	QPSK	135	69	17.96	18.01	17.84		
100	QPSK	135	138	17.72	18.06	17.82		
100	QPSK	270	0	17.96	18.01	17.87	19.3	0.0
100	16QAM	1	1	17.82	18.05	17.83	19.3	0.0
100	64QAM	1	1	17.96	18.04	17.84	19.3	0.0
100	256QAM	1	1	17.79	17.82	17.85	19.3	0.0
Channel				649668	650000	662334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)
90	PI/2 BPSK	1	1	17.99	17.97	18.01	19.3	0.0
Channel				649334	650000	662668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	PI/2 BPSK	1	1	17.97	18.01	17.92	19.3	0.0
Channel				648668	650000	663334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	PI/2 BPSK	1	1	17.91	17.95	17.83	19.3	0.0
Channel				648334	650000	663668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)
50	PI/2 BPSK	1	1	18.03	17.99	17.94	19.3	0.0
Channel				648000	650000	664000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	PI/2 BPSK	1	1	17.98	18.01	17.97	19.3	0.0
Channel				647668	650000	664334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)
30	PI/2 BPSK	1	1	17.99	18.09	17.92	19.3	0.0
Channel				647334	650000	664668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	PI/2 BPSK	1	1	18.02	18.05	17.95	19.3	0.0



n41 FCC Ant 0										
RF (MHz)	Modulation	RF Size	RF Offset	Power Level Ch. 1 Power	Power Level Ch. 2 Power	Power Level Ch. 3 Power	Turn-up Rate (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
100	P102BPSK	1	1	14.00	14.00	14.00				
100	P102BPSK	1	1	14.00	14.00	14.00	15.0	0.0		
100	P102BPSK	1	271	14.22	14.22	14.22				
100	P102BPSK	1	271	14.22	14.22	14.22	15.0	0.0		
100	P102BPSK	100	0	14.44	14.44	14.44				
100	P102BPSK	100	0	14.44	14.44	14.44	15.0	0.0		
100	P102BPSK	100	0	14.44	14.44	14.44				
100	P102BPSK	270	0	14.44	14.44	14.44	15.0	0.0		
100	QPSK	1	1	14.00	14.00	14.00				
100	QPSK	1	137	14.00	14.00	14.00	15.0	0.0		
100	QPSK	1	271	14.19	14.20	14.20				
100	QPSK	100	0	14.48	14.47	14.54				
100	QPSK	100	0	14.38	14.40	14.29	15.0	0.0		
100	QPSK	100	0	14.40	14.42	14.34				
100	QPSK	270	0	14.40	14.42	14.34	15.0	0.0		
100	SSBAM	1	1	14.47	14.48	14.49	15.0	0.0		
100	SSBAM	1	1	14.32	14.30	14.30	15.0	0.0		
100	ZS3DMM	1	1	14.43	14.42	14.50	15.0	0.0		
Channel										
Frequency (MHz)										
30	P102BPSK	1	1	14.56	14.56	14.56				
30	P102BPSK	1	1	14.56	14.56	14.56	15.0	0.0		
Channel										
Frequency (MHz)										
80	P102BPSK	1	1	14.51	14.50	14.44				
80	P102BPSK	1	1	14.51	14.50	14.44	15.0	0.0		
Channel										
Frequency (MHz)										
30	P102BPSK	1	1	14.52	14.40	14.40	15.0	0.0		
Channel										
Frequency (MHz)										
40	P102BPSK	1	1	14.53	14.50	14.40	15.0	0.0		
Channel										
Frequency (MHz)										
30	P102BPSK	1	1	14.48	14.50	14.42	15.0	0.0		
Channel										
Frequency (MHz)										
30	P102BPSK	1	1	14.51	14.50	14.47	15.0	0.0		

n41 HPUE FCC Ant 0										
RF (MHz)	Modulation	RF Size	RF Offset	Power Level Ch. 1 Power	Power Level Ch. 2 Power	Power Level Ch. 3 Power	Turn-up Rate (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
100	P102BPSK	1	1	14.00	14.00	14.00				
100	P102BPSK	1	137	14.15	14.20	14.20	15.0	0.0		
100	P102BPSK	1	271	14.72	14.83	14.29				
100	P102BPSK	100	0	14.02	14.13	14.28				
100	P102BPSK	100	0	14.08	14.22	14.20	15.0	0.0		
100	P102BPSK	100	0	14.03	14.04	14.20				
100	P102BPSK	270	0	14.01	14.12	14.28	15.0	0.0		
100	QPSK	1	1	14.00	14.00	14.00				
100	QPSK	1	137	14.07	14.18	14.28	15.0	0.0		
100	QPSK	1	271	14.68	14.99	14.25				
100	QPSK	100	0	14.06	14.17	14.20				
100	QPSK	100	0	14.03	14.14	14.20	15.0	0.0		
100	QPSK	100	0	14.04	14.03	14.25				
100	QPSK	270	0	14.06	14.07	14.23	15.0	0.0		
100	SSBAM	1	1	14.01	14.02	14.20	15.0	0.0		
100	SSBAM	1	1	14.04	14.11	14.21	15.0	0.0		
100	ZS3DMM	1	1	14.08	14.16	14.25	15.0	0.0		
Channel										
Frequency (MHz)										
30	P102BPSK	1	1	14.11	14.21	14.21	15.0	0.0		
Channel										
Frequency (MHz)										
80	P102BPSK	1	1	14.10	14.19	14.23	15.0	0.0		
Channel										
Frequency (MHz)										
30	P102BPSK	1	1	14.11	14.16	14.24	15.0	0.0		
Channel										
Frequency (MHz)										
40	P102BPSK	1	1	14.12	14.20	14.23	15.0	0.0		
Channel										
Frequency (MHz)										
30	P102BPSK	1	1	14.06	14.17	14.20	15.0	0.0		
Channel										
Frequency (MHz)										
30	P102BPSK	1	1	14.10	14.10	14.21	15.0	0.0		

n41 HPUE FCC Ant 2										
RF (MHz)	Modulation	RF Size	RF Offset	Power Level Ch. 1 Power	Power Level Ch. 2 Power	Power Level Ch. 3 Power	Turn-up Rate (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
100	P102BPSK	1	1	14.16	14.33	14.32				
100	P102BPSK	1	137	14.31	14.36	14.37	20.3	0.0		
100	P102BPSK	1	271	14.32	14.34	14.55				
100	P102BPSK	100	0	14.20	14.20	14.51				
100	P102BPSK	100	0	14.20	14.11	14.50	20.3	0.0		
100	P102BPSK	100	0	14.21	14.21	14.54				
100	P102BPSK	270	0	14.24	14.33	14.50	20.3	0.0		
100	QPSK	1	1	14.00	14.00	14.00				
100	QPSK	1	137	14.16	14.11	14.52	20.3	0.0		
100	QPSK	1	271	14.40	14.41	14.52				
100	QPSK	100	0	14.09	14.11	14.52				
100	QPSK	100	0	14.10	14.04	14.52	20.3	0.0		
100	QPSK	100	0	14.02	14.04	14.50				
100	QPSK	270	0	14.02	14.04	14.50	20.3	0.0		
100	SSBAM	1	1	14.11	14.26	14.50	20.3	0.0		
100	SSBAM	1	1	14.14	14.26	14.57	20.3	0.0		
100	ZS3DMM	1	1	14.16	14.30	14.51	20.3	0.0		
Channel										
Frequency (MHz)										
30	P102BPSK	1	1	14.16	14.22	14.24	20.3	0.0		
Channel										
Frequency (MHz)										
80	P102BPSK	1	1	14.11	14.20	14.27	20.3	0.0		
Channel										
Frequency (MHz)										
30	P102BPSK	1	1	14.12	14.16	14.24	20.3	0.0		
Channel										
Frequency (MHz)										
40	P102BPSK	1	1	14.12	14.16	14.22	20.3	0.0		
Channel										
Frequency (MHz)										
30	P102BPSK	1	1	14.11	14.21	14.23	20.3	0.0		
Channel										
Frequency (MHz)										
30	P102BPSK	1	1	14.12	14.16	14.21	20.3	0.0		

Reduced Power for Hotspot on

n66_Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	19.76	19.67	19.56		
20	PI/2 BPSK	1	53	19.52	19.47	19.44	20.3	0.0
20	PI/2 BPSK	1	104	19.50	19.46	19.45		
20	PI/2 BPSK	50	0	19.35	19.29	19.28	20.3	0.0
20	PI/2 BPSK	50	28	19.49	19.39	19.35	20.3	0.0
20	PI/2 BPSK	50	56	19.38	19.30	19.28		
20	PI/2 BPSK	100	0	19.47	19.36	19.37	20.3	0.0
20	QPSK	1	1	19.65	19.52	19.51		
20	QPSK	1	53	19.53	19.41	19.43	20.3	0.0
20	QPSK	1	104	19.57	19.43	19.47		
20	QPSK	50	0	19.54	19.40	19.44	20.3	0.0
20	QPSK	50	28	19.51	19.36	19.41	20.3	0.0
20	QPSK	50	56	19.47	19.38	19.43		
20	QPSK	100	0	19.49	19.39	19.40	20.3	0.0
20	16QAM	1	1	19.65	19.63	19.51	20.3	0.0
20	64QAM	1	1	19.48	19.34	19.24	20.3	0.0
20	256QAM	1	1	19.43	19.33	19.22	20.3	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	PI/2 BPSK	1	1	19.70	19.62	19.50	20.3	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	PI/2 BPSK	1	1	19.68	19.60	19.49	20.3	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	PI/2 BPSK	1	1	19.82	19.51	19.44	20.3	0.0



n41 FCC Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				50202	51898	53593			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	18.10	19.17	18.93			
100	PI2 BPSK	1	137	18.72	18.52	18.35	19.8	na	
100	PI2 BPSK	1	271	18.66	18.44	18.26			
100	PI2 BPSK	135	0	18.61	18.66	18.49			
100	PI2 BPSK	135	69	18.76	19.07	18.48	19.8	na	
100	PI2 BPSK	135	138	18.62	18.49	18.15			
100	PI2 BPSK	270	0	18.62	18.98	18.47	19.8	0.0	
100	GFSK	1	1	18.43	18.53	18.43			
100	GFSK	1	137	18.65	18.40	18.27	19.8	1.5	
100	GFSK	1	271	18.41	18.08	17.92			
100	GFSK	135	0	18.41	18.35	18.25			
100	GFSK	135	69	18.42	18.32	18.16	19.8	1.5	
100	GFSK	135	138	18.44	18.22	18.05			
100	GFSK	270	0	18.45	18.33	18.13	19.8	0.0	
100	16QAM	1	1	18.57	18.65	18.51	19.8	0.0	
100	16QAM	1	1	18.29	18.42	18.23	19.8	0.0	
100	256QAM	1	1	18.35	18.47	18.33	19.8	0.0	
Channel				50200	51898	53596	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	PI2 BPSK	1	1	18.80	18.82	18.82	19.8	na	
Channel				50204	51898	53598	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2648.99			
80	PI2 BPSK	1	1	18.77	18.80	18.67	19.8	na	
Channel				504204	51898	53298	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2681.69	2592.99	2688.99			
50	PI2 BPSK	1	1	18.74	18.82	18.69	19.8	na	
Channel				503202	51898	53400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	PI2 BPSK	1	1	18.70	18.79	18.63	19.8	na	
Channel				502200	51898	53496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	PI2 BPSK	1	1	18.60	18.77	18.65	19.8	na	
Channel				50204	51898	53298	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2678.99			
20	PI2 BPSK	1	1	18.70	18.78	18.63	19.8	na	



n41(HPUE) FCC Ant 0									
Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)				
100	PI2 BPSK	1	1	19.44	19.45	19.24			
100	PI2 BPSK	1	137	19.31	19.43	19.12			
100	PI2 BPSK	1	271	19.13	19.09	18.77	19.8	0.0	
100	PI2 BPSK	135	0	19.06	19.20	18.90			
100	PI2 BPSK	135	69	19.22	19.23	19.11	19.8	0.0	
100	PI2 BPSK	135	138	19.05	19.10	18.70			
100	PI2 BPSK	270	0	19.06	19.13	19.01	19.8	0.0	
100	QPSK	1	1	18.74	19.06	18.81			
100	QPSK	1	137	18.93	18.95	18.62	19.8	0.0	
100	QPSK	1	271	18.54	18.63	18.34			
100	QPSK	135	0	18.75	18.92	18.64			
100	QPSK	135	69	18.78	18.89	18.66	19.8	0.0	
100	QPSK	135	138	18.79	18.77	18.43			
100	QPSK	270	0	18.80	18.90	18.58	19.8	0.0	
100	16QAM	1	1	18.47	18.81	18.55	19.8	0.0	
100	64QAM	1	1	18.74	19.11	18.84	19.8	0.0	
100	256QAM	1	1	18.72	19.04	18.75	19.8	0.0	
Channel				2565.02	2565.99	2565.99	Tune-up limit (dBm)	MFR (dB)	
Channel				2541	2592.99	2844.98			
90	PI2 BPSK	1	1	19.35	19.44	19.23	19.8	0.0	
Channel				502204	518598	532998	Tune-up limit (dBm)	MFR (dB)	
Channel				2536.02	2592.99	2849.99			
80	PI2 BPSK	1	1	19.32	19.40	19.21	19.8	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MFR (dB)	
Channel				2623.62	2692.99	2844.99			
50	PI2 BPSK	1	1	19.33	19.42	19.25	19.8	0.0	
Channel				502002	518598	534000	Tune-up limit (dBm)	MFR (dB)	
Channel				2516.01	2592.99	2930			
40	PI2 BPSK	1	1	19.31	19.40	19.20	19.8	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MFR (dB)	
Channel				2511	2592.99	2674.98			
30	PI2 BPSK	1	1	19.33	19.43	19.22	19.8	0.0	
Channel				502204	518598	532998	Tune-up limit (dBm)	MFR (dB)	
Channel				2566.02	2592.99	2879.99			
20	PI2 BPSK	1	1	19.29	19.39	19.20	19.8	0.0	

n5 Ant3										
W (MHz)	Modulation	RB (kHz)	RB (Ch)	Time Ch. 1 (ms)	Time Ch. 2 (ms)	Time Ch. 3 (ms)	Time Ch. 4 (ms)	Time Ch. 5 (ms)	Power dBm (dB)	MCS
Channel										
Frequency (MHz)										
10	PSK256QAM	1	F	2150	2150	2150	2150	2150	24.4	64
20	PSK256QAM	1	F	2170	2170	2170	2170	2170	24.4	64
30	PSK256QAM	1	F	2190	2190	2190	2190	2190	24.4	64
40	PSK256QAM	1	F	2210	2210	2210	2210	2210	24.4	64
50	PSK256QAM	1	F	2230	2230	2230	2230	2230	24.4	64
60	PSK256QAM	1	F	2250	2250	2250	2250	2250	24.4	64
70	PSK256QAM	1	F	2270	2270	2270	2270	2270	24.4	64
80	PSK256QAM	1	F	2290	2290	2290	2290	2290	24.4	64
90	PSK256QAM	1	F	2310	2310	2310	2310	2310	24.4	64
100	PSK256QAM	1	F	2330	2330	2330	2330	2330	24.4	64
110	PSK256QAM	1	F	2350	2350	2350	2350	2350	24.4	64
120	PSK256QAM	1	F	2370	2370	2370	2370	2370	24.4	64
130	PSK256QAM	1	F	2390	2390	2390	2390	2390	24.4	64
140	PSK256QAM	1	F	2410	2410	2410	2410	2410	24.4	64
150	PSK256QAM	1	F	2430	2430	2430	2430	2430	24.4	64
160	PSK256QAM	1	F	2450	2450	2450	2450	2450	24.4	64
170	PSK256QAM	1	F	2470	2470	2470	2470	2470	24.4	64
180	PSK256QAM	1	F	2490	2490	2490	2490	2490	24.4	64
190	PSK256QAM	1	F	2510	2510	2510	2510	2510	24.4	64
200	PSK256QAM	1	F	2530	2530	2530	2530	2530	24.4	64
210	PSK256QAM	1	F	2550	2550	2550	2550	2550	24.4	64
220	PSK256QAM	1	F	2570	2570	2570	2570	2570	24.4	64
230	PSK256QAM	1	F	2590	2590	2590	2590	2590	24.4	64
240	PSK256QAM	1	F	2610	2610	2610	2610	2610	24.4	64
250	PSK256QAM	1	F	2630	2630	2630	2630	2630	24.4	64
260	PSK256QAM	1	F	2650	2650	2650	2650	2650	24.4	64
270	PSK256QAM	1	F	2670	2670	2670	2670	2670	24.4	64
280	PSK256QAM	1	F	2690	2690	2690	2690	2690	24.4	64
290	PSK256QAM	1	F	2710	2710	2710	2710	2710	24.4	64
300	PSK256QAM	1	F	2730	2730	2730	2730	2730	24.4	64
310	PSK256QAM	1	F	2750	2750	2750	2750	2750	24.4	64
320	PSK256QAM	1	F	2770	2770	2770	2770	2770	24.4	64
330	PSK256QAM	1	F	2790	2790	2790	2790	2790	24.4	64
340	PSK256QAM	1	F	2810	2810	2810	2810	2810	24.4	64
350	PSK256QAM	1	F	2830	2830	2830	2830	2830	24.4	64
360	PSK256QAM	1	F	2850	2850	2850	2850	2850	24.4	64
370	PSK256QAM	1	F	2870	2870	2870	2870	2870	24.4	64
380	PSK256QAM	1	F	2890	2890	2890	2890	2890	24.4	64
390	PSK256QAM	1	F	2910	2910	2910	2910	2910	24.4	64
400	PSK256QAM	1	F	2930	2930	2930	2930	2930	24.4	64
410	PSK256QAM	1	F	2950	2950	2950	2950	2950	24.4	64
420	PSK256QAM	1	F	2970	2970	2970	2970	2970	24.4	64
430	PSK256QAM	1	F	2990	2990	2990	2990	2990	24.4	64
440	PSK256QAM	1	F	3010	3010	3010	3010	3010	24.4	64
450	PSK256QAM	1	F	3030	3030	3030	3030	3030	24.4	64
460	PSK256QAM	1	F	3050	3050	3050	3050	3050	24.4	64
470	PSK256QAM	1	F	3070	3070	3070	3070	3070	24.4	64
480	PSK256QAM	1	F	3090	3090	3090	3090	3090	24.4	64
490	PSK256QAM	1	F	3110	3110	3110	3110	3110	24.4	64
500	PSK256QAM	1	F	3130	3130	3130	3130	3130	24.4	64
510	PSK256QAM	1	F	3150	3150	3150	3150	3150	24.4	64
520	PSK256QAM	1	F	3170	3170	3170	3170	3170	24.4	64
530	PSK256QAM	1	F	3190	3190	3190	3190	3190	24.4	64
540	PSK256QAM	1	F	3210	3210	3210	3210	3210	24.4	64
550	PSK256QAM	1	F	3230	3230	3230	3230	3230	24.4	64
560	PSK256QAM	1	F	3250	3250	3250	3250	3250	24.4	64
570	PSK256QAM	1	F	3270	3270	3270	3270	3270	24.4	64
580	PSK256QAM	1	F	3290	3290	3290	3290	3290	24.4	64
590	PSK256QAM	1	F	3310	3310	3310	3310	3310	24.4	64
600	PSK256QAM	1	F	3330	3330	3330	3330	3330	24.4	64
610	PSK256QAM	1	F	3350	3350	3350	3350	3350	24.4	64
620	PSK256QAM	1	F	3370	3370	3370	3370	3370	24.4	64
630	PSK256QAM	1	F	3390	3390	3390	3390	3390	24.4	64
640	PSK256QAM	1	F	3410	3410	3410	3410	3410	24.4	64
650	PSK256QAM	1	F	3430	3430	3430	3430	3430	24.4	64
660	PSK256QAM	1	F	3450	3450	3450	3450	3450	24.4	64
670	PSK256QAM	1	F	3470	3470	3470	3470	3470	24.4	64
680	PSK256QAM	1	F	3490	3490	3490	3490	3490	24.4	64
690	PSK256QAM	1	F	3510	3510	3510	3510	3510	24.4	64
700	PSK256QAM	1	F	3530	3530	3530	3530	3530	24.4	64
710	PSK256QAM	1	F	3550	3550	3550	3550	3550	24.4	64
720	PSK256QAM	1	F	3570	3570	3570	3570	3570	24.4	64
730	PSK256QAM	1	F	3590	3590	3590	3590	3590	24.4	64
740	PSK256QAM	1	F	3610	3610	3610	3610	3610	24.4	64
750	PSK256QAM	1	F	3630	3630	3630	3630	3630	24.4	64
760	PSK256QAM	1	F	3650	3650	3650	3650	3650	24.4	64
770	PSK256QAM	1	F	3670	3670	3670	3670	3670	24.4	64
780	PSK256QAM	1	F	3690	3690	3690	3690	3690	24.4	64
790	PSK256QAM	1	F	3710	3710	3710	3710	3710	24.4	64
800	PSK256QAM	1	F	3730	3730	3730	3730	3730	24.4	64
810	PSK256QAM	1	F	3750	3750	3750	3750	3750	24.4	64
820	PSK256QAM	1	F	3770	3770	3770	3770	3770	24.4	64
830	PSK256QAM	1	F	3790	3790	3790	3790	3790	24.4	64
840	PSK256QAM	1	F	3810	3810	3810	3810	3810	24.4	64
850	PSK256QAM	1	F	3830	3830	3830	3830	3830	24.4	64
860	PSK256QAM	1	F	3850	3850	3850	3850	3850	24.4	64
870	PSK256QAM	1	F	3870	3870	3870	3870	3870	24.4	64
880	PSK256QAM	1	F	3890	3890	3890	3890	3890	24.4	64
890	PSK256QAM	1	F	3910	3910	3910	3910	3910	24.4	64
900	PSK256QAM	1	F	3930	3930	3930	3930	3930	24.4	64
910	PSK256QAM	1	F	3950	3950	3950	3950	3950	24.4	64
920	PSK256QAM	1	F	3970	3970	3970	3970	3970	24.4	64
930	PSK256QAM	1	F	3990	3990	3990	3990	3990	24.4	64
940	PSK256QAM	1	F	4010	4010	4010	4010	4010	24.4	64
950	PSK256QAM	1	F	4030	4030	4030	4030	4030	24.4	64
960	PSK256QAM	1	F	4050	4050	4050	4050	4050	24.4	64
970	PSK256QAM	1	F	4070	4070	4070	4070	4070	24.4	64
980	PSK256QAM	1	F	4090	4090	4090	4090	4090	24.4	64
990	PSK256QAM	1	F	4110	4110	4110	4110	4110	24.4	64
1000	PSK256QAM	1	F	4130	4130	4130	4130	4130	24.4	64
1010	PSK256QAM	1	F	4150	4150	4150	4150	4150	24.4	64
1020	PSK256QAM	1	F	4170	4170	4170	4170	4170	24.4	64
1030	PSK256QAM	1	F	4190	4190	4190	4190	4190	24.4	64
1040	PSK256QAM	1	F	4210	4210	4210	4210	4210	24.4	64
1050	PSK256QAM	1	F	4230	4230	4230	4230	4230	24.4	64
1060	PSK256QAM	1	F	4250	4250	4250	4250	4250	24.4	64
1070	PSK256QAM	1	F	4270	4270	4270	4270	4270	24.4	64
1080	PSK256QAM	1	F	4290	4290	4290	4290	4290	24.4	64
1090	PSK256QAM	1	F	4310	4310	4310	4310	4310	24.4	64
1100	PSK256QAM	1	F	4330	4330	4330	4330	4330	24.4	64
1110	PSK256QAM	1	F	4350	4350	4350	4350	4350	24.4	64
1120	PSK256QAM	1	F	4370	4370	4370	4370	4370	24.4	64
1130	PSK256QAM	1	F	4390	4390	4390	4390	4390	24.4	64
1140	PSK256QAM	1	F	4410	4410	4410	4410	4410	24.4	64
1150	PSK256QAM	1	F	4430	4430	4430	4430	4430	24.4	64
1160	PSK256QAM	1	F	4450	4450	4450	4450	4450	24.4	64
1170	PSK256QAM	1	F	4470	4470	4470	4470	4470	24.4	64
1180	PSK256QAM	1	F	4490	4490	4490	4490	4490	24.4	64
1190	PSK256QAM	1	F	4510	4510	4510	4510	4510	24.4	64
1200	PSK256QAM	1	F	4530	4530	4530	4530	4530	24.4	64
1210	PSK256QAM	1	F	4550	4550	4550	4550	4550	24.4	64
1220	PSK256QAM	1	F	4570	4570	4570	4570	4570	24.4	64
1230	PSK256QAM	1	F	4590	4590	4590	4590	4590	24.4	64
1240	PSK256QAM	1	F	4610	4610	4610	4610	4610	24.4	64
1250	PSK256QAM	1	F	4630	4630	4630	4630	4630	24.4	64
126										



n41 FCC Ant 3 (and HPUE)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518588	528000		
Frequency (MHz)				2546.01	2592.99	2639.98		
100	PI/2 BPSK	1	1	21.08	21.16	20.95	21.8	0.0
100	PI/2 BPSK	1	137	21.04	20.98	20.83		
100	PI/2 BPSK	1	271	21.06	20.78	20.72		
100	PI/2 BPSK	135	0	21.01	20.91	20.77	21.8	0.0
100	PI/2 BPSK	135	69	21.06	21.11	20.78		
100	PI/2 BPSK	135	138	20.81	20.98	20.74		
100	PI/2 BPSK	270	0	20.81	20.89	20.67	21.8	0.0
100	QPSK	1	1	21.11	21.01	20.82	21.8	0.0
100	QPSK	1	137	21.07	20.94	20.80		
100	QPSK	1	271	21.05	20.91	20.74		
100	QPSK	135	0	21.04	20.89	20.72	21.8	0.0
100	QPSK	135	69	21.06	20.84	20.71		
100	QPSK	135	138	21.10	20.93	20.77		
100	QPSK	270	0	21.01	20.95	21.01	21.8	0.0
100	16QAM	1	1	21.03	20.94	20.88	21.8	0.0
100	64QAM	1	1	21.08	20.91	20.61	21.8	0.0
100	256QAM	1	1	19.96	19.83	19.54	20.8	1.0
Channel				508200	518598	528996	Tune-up limit	MPR
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	PI/2 BPSK	1	1	21.07	20.90	20.92	21.8	0.0
Channel				507204	518598	529998	Tune-up limit	MPR
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)
80	PI/2 BPSK	1	1	21.04	20.91	20.85	21.8	0.0
Channel				504204	518598	532998	Tune-up limit	MPR
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)
50	PI/2 BPSK	1	1	20.95	20.96	20.91	21.8	0.0
Channel				503202	518598	534000	Tune-up limit	MPR
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	PI/2 BPSK	1	1	20.95	21.00	20.76	21.8	0.0
Channel				502200	518598	534996	Tune-up limit	MPR
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	PI/2 BPSK	1	1	20.96	20.95	20.75	21.8	0.0
Channel				501204	518598	535998	Tune-up limit	MPR
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	PI/2 BPSK	1	1	20.98	21.03	20.90	21.8	0.0



Reduced Power for Sensor On

n2 Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	21.85	21.71	21.86			
20	PI2 BPSK	1	53	21.75	21.57	21.60	22.8	0.0	
20	PI2 BPSK	1	104	21.76	21.44	21.55			
20	PI2 BPSK	50	0	21.73	21.60	21.66	22.8	0.0	
20	PI2 BPSK	50	28	21.75	21.57	21.58	22.8	0.0	
20	PI2 BPSK	50	56	21.71	21.51	21.60	22.8	0.0	
20	PI2 BPSK	100	0	21.72	21.54	21.56			
20	QPSK	1	1	21.74	21.55	21.74			
20	QPSK	1	53	21.72	21.62	21.71	22.8	0.0	
20	QPSK	1	104	21.77	21.51	21.64			
20	QPSK	50	9	21.75	21.62	21.66	22.8	0.0	
20	QPSK	50	28	21.73	21.58	21.60	22.8	0.0	
20	QPSK	50	56	21.72	21.61	21.59	22.8	0.0	
20	QPSK	100	0	21.75	21.56	21.63			
20	16QAM	1	1	21.51	21.22	21.41	22.8	0.0	
20	64QAM	1	1	21.50	21.31	21.29	22.8	0.0	
20	256QAM	1	1	19.03	18.81	19.30	20.3	2.5	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	21.82	21.70	21.77	22.8	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	21.80	21.68	21.73	22.8	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	21.84	21.72	21.70	22.8	0.0	

n7 Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	20.90	20.97	20.88			
20	PI2 BPSK	1	53	20.76	20.84	20.72	21.8	0.0	
20	PI2 BPSK	1	104	20.81	20.90	20.75			
20	PI2 BPSK	50	0	20.78	20.81	20.71	21.8	0.0	
20	PI2 BPSK	50	28	20.75	20.86	20.68	21.8	0.0	
20	PI2 BPSK	50	56	20.73	20.81	20.66	21.8	0.0	
20	PI2 BPSK	100	0	20.72	20.82	20.65			
20	QPSK	1	1	20.72	20.77	20.65			
20	QPSK	1	53	20.65	20.78	20.58	21.8	0.0	
20	QPSK	1	104	20.69	20.69	20.62			
20	QPSK	50	9	20.75	20.74	20.68	21.8	0.0	
20	QPSK	50	28	20.72	20.83	20.65	21.8	0.0	
20	QPSK	50	56	20.73	20.77	20.66	21.8	0.0	
20	QPSK	100	0	20.69	20.81	20.62			
20	16QAM	1	1	20.73	20.81	20.72	21.8	0.0	
20	64QAM	1	1	19.35	19.52	19.30	20.8	1.0	
20	256QAM	1	1	19.67	19.63	19.60	20.3	1.5	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	20.81	20.92	20.77	21.8	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	20.82	20.90	20.74	21.8	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	20.80	20.88	20.71	21.8	0.0	

n25 Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	21.95	22.00	21.88			
20	PI2 BPSK	1	53	21.77	21.92	21.75	22.8	0.0	
20	PI2 BPSK	1	104	21.74	21.69	21.72			
20	PI2 BPSK	50	0	21.83	21.88	21.81	22.8	0.0	
20	PI2 BPSK	50	28	21.79	21.94	21.78	22.8	0.0	
20	PI2 BPSK	50	56	21.80	21.85	21.76	22.8	0.0	
20	PI2 BPSK	100	0	21.75	21.80	21.73			
20	QPSK	1	1	21.76	21.91	21.74			
20	QPSK	1	53	21.71	21.86	21.69	22.8	0.0	
20	QPSK	1	104	21.64	21.79	21.62			
20	QPSK	50	9	21.70	21.85	21.68	22.8	0.0	
20	QPSK	50	28	21.63	21.78	21.61	22.8	0.0	
20	QPSK	50	56	21.69	21.84	21.67	22.8	0.0	
20	QPSK	100	0	21.66	21.81	21.64			
20	16QAM	1	1	21.57	21.72	21.55	22.8	0.0	
20	64QAM	1	1	21.39	21.54	21.37	21.8	1.0	
20	256QAM	1	1	19.42	19.57	19.40	20.3	2.5	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	21.92	21.99	21.85	22.8	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	21.88	21.94	21.79	22.8	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	21.82	21.91	21.77	22.8	0.0	



n41 FCC Ant 3 (HPUE)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518588	528000		
Frequency (MHz)				2546.01	2592.99	2639.98		
100	PI/2 BPSK	1	1	21.08	21.16	20.95	21.8	0.0
100	PI/2 BPSK	1	137	21.13	20.98	20.83		
100	PI/2 BPSK	1	271	21.06	20.78	20.72		
100	PI/2 BPSK	135	0	21.01	20.91	20.77	21.8	0.0
100	PI/2 BPSK	135	69	21.06	21.11	20.78		
100	PI/2 BPSK	135	138	20.81	20.98	20.74		
100	PI/2 BPSK	270	0	20.81	20.89	20.67	21.8	0.0
100	QPSK	1	1	21.11	21.01	20.82	21.8	0.0
100	QPSK	1	137	21.07	20.94	20.80		
100	QPSK	1	271	21.05	20.91	20.74		
100	QPSK	135	0	21.04	20.89	20.72	21.8	0.0
100	QPSK	135	69	21.06	20.84	20.71		
100	QPSK	135	138	21.10	20.93	20.77		
100	QPSK	270	0	21.01	20.95	21.01	21.8	0.0
100	16QAM	1	1	21.03	20.94	20.88	21.8	0.0
100	64QAM	1	1	21.08	20.91	20.61	21.8	0.0
100	256QAM	1	1	19.96	19.83	19.54	20.8	1.0
Channel				508200	518598	528996	Tune-up limit	MPR
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	PI/2 BPSK	1	1	21.07	20.90	20.92	21.8	0.0
Channel				507204	518598	529998	Tune-up limit	MPR
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)
80	PI/2 BPSK	1	1	21.04	20.91	20.85	21.8	0.0
Channel				504204	518598	532998	Tune-up limit	MPR
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)
50	PI/2 BPSK	1	1	20.95	20.96	20.91	21.8	0.0
Channel				503202	518598	534000	Tune-up limit	MPR
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	PI/2 BPSK	1	1	20.95	21.00	20.76	21.8	0.0
Channel				502200	518598	534996	Tune-up limit	MPR
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	PI/2 BPSK	1	1	20.96	20.95	20.75	21.8	0.0
Channel				501204	518598	535998	Tune-up limit	MPR
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	PI/2 BPSK	1	1	20.98	21.03	20.90	21.8	0.0

Full Power

BT 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	13.50	12.90	12.70	13.70	13.10	12.80	13.50	13.10	12.80	14.70
	CH 39	2441	14.60	14.20	14.00	14.90	14.40	14.20	14.90	14.50	14.20	16.00
	CH 78	2480	13.00	12.40	12.10	13.30	12.50	12.30	13.40	12.60	12.30	14.10

BT LE 4.0

Mode	Channel	Frequency (MHz)	Average power (dBm)		tune-up limit
			GFSK		
LE	CH 00	2402	8.00		10.00
	CH 19	2440	9.60		11.60
	CH 39	2480	8.50		10.50

BT LE 5.0

Mode	Channel	Frequency (MHz)	Average power (dBm)		tune-up limit
			1Mbps	2Mbps	
LE	CH 00	2402		8.00	10.00
	CH 19	2440		9.60	11.60
	CH 39	2480		8.50	10.50

BT Ant+

Mode	Channel	Frequency (MHz)	Average power (dBm)		tune-up limit
			GFSK		
Ant+	CH 02	2402 MHz	-6.00		-4.00
	CH 41	2441 MHz	-4.00		-2.00
	CH 80	2480 MHz	-4.90		-2.90



Full Power

Avt 2						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %	
802.11b 18Mbps	1	2412	19.95	20.50	97.93	
	6	2437	19.95	20.50		
	11	2462	19.95	20.50		
802.11g 6Mbps	1	2412	18.75	19.90	98.43	
	6	2437	18.80	19.90		
	11	2462	18.90	19.90		
802.11a+HT20 MCS0	1	2412	18.75	19.90	100.00	
	6	2437	18.90	19.90		
	11	2462	18.40	19.90		
802.11a+HT40 MCS0	3	2422	18.75	17.90	100.00	
	6	2437	18.90	17.90		
	9	2452	18.40	17.90		
802.11ac VHT20 MCS0	1	2412	18.60	19.90	100.00	
	6	2437	18.40	19.90		
	11	2462	18.30	19.90		
802.11ac VHT40 MCS0	3	2422	18.60	17.90	100.00	
	6	2437	18.40	17.90		
	9	2452	18.30	17.90		
802.11ax HE30 MCS0	1	2412	17.75	18.90	100.00	
	6	2437	17.80	18.90		
	11	2462	17.40	18.90		
802.11ax HE40 MCS0	3	2422	17.60	18.90	100.00	
	6	2437	17.40	18.90		
	9	2452	17.30	18.90		

Avt 112						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %	
802.11b 18Mbps	1	2412	22.44	23.90	98.35	
	6	2437	22.81	23.90		
	11	2462	22.94	23.90		
802.11g 6Mbps	1	2412	21.81	22.90	99.11	
	6	2437	21.78	22.90		
	11	2462	21.48	22.90		
802.11a+HT20 MCS0	1	2412	21.71	22.90	100.00	
	6	2437	21.68	22.90		
	11	2462	21.38	22.90		
802.11a+HT40 MCS0	3	2422	19.60	20.90	100.00	
	6	2437	19.81	20.90		
	9	2452	19.48	20.90		
802.11ac VHT20 MCS0	1	2412	21.81	22.90	100.00	
	6	2437	21.58	22.90		
	11	2462	21.28	22.90		
802.11ac VHT40 MCS0	3	2422	19.88	20.90	100.00	
	6	2437	19.48	20.90		
	9	2452	19.38	20.90		
802.11ax HE30 MCS0	1	2412	20.81	21.90	100.00	
	6	2437	20.71	21.90		
	11	2462	20.38	21.90		
802.11ax HE40 MCS0	3	2422	20.80	21.90	100.00	
	6	2437	20.51	21.90		
	9	2452	20.41	21.90		

Avt 112						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %	
802.11a 6Mbps	36	5180	21.15	22.00	98.35	
	40	5200	21.30	22.00		
	44	5220	21.22	22.00		
802.11a+HT20 MCS0	36	5180	20.88	22.00	100.00	
	40	5200	20.88	22.00		
	44	5220	21.01	22.00		
802.11a+HT40 MCS0	36	5180	20.81	22.00	100.00	
	40	5200	21.14	22.00		
	44	5220	20.89	22.00		
802.11ac VHT20 MCS0	36	5180	20.89	22.00	100.00	
	40	5200	20.73	22.00		
	44	5220	20.93	22.00		
802.11ac VHT40 MCS0	36	5180	20.92	22.00	100.00	
	40	5200	20.92	22.00		
	44	5220	21.03	22.00		
802.11ax HE30 MCS0	36	5180	21.81	22.00	100.00	
	40	5200	21.90	22.00		
	44	5220	21.11	22.00		
802.11ax HE40 MCS0	36	5180	20.89	22.00	100.00	
	40	5200	21.08	22.00		
	44	5220	20.25	21.00		

Avt 112						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %	
802.11a 6Mbps	52	5280	21.00	22.00	98.35	
	56	5300	21.05	22.00		
	60	5320	21.80	22.00		
802.11a+HT20 MCS0	52	5280	20.83	22.00	100.00	
	56	5300	20.77	22.00		
	60	5320	20.84	22.00		
802.11a+HT40 MCS0	54	5270	20.93	22.00	100.00	
	60	5320	21.05	22.00		
	64	5360	20.90	22.00		
802.11ac VHT20 MCS0	52	5280	20.75	22.00	100.00	
	56	5300	20.73	22.00		
	60	5320	20.70	22.00		
802.11ac VHT40 MCS0	54	5270	20.81	22.00	100.00	
	56	5300	20.91	22.00		
	60	5320	20.93	22.00		
802.11ax HE30 MCS0	52	5280	20.92	22.00	100.00	
	56	5300	20.91	22.00		
	60	5320	21.08	22.00		
802.11ax HE40 MCS0	54	5270	20.90	22.00	100.00	
	56	5300	20.95	22.00		
	60	5320	20.18	21.00		

Avt 112						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %	
802.11a 6Mbps	100	5560	21.00	22.00	98.35	
	118	5580	21.18	22.00		
	124	5620	21.08	22.00		
	132	5660	20.90	22.00		
	140	5700	20.93	22.00		
	144	5720	20.99	22.00		
802.11a+HT20 MCS0	118	5580	20.90	22.00	100.00	
	124	5620	20.85	22.00		
	132	5660	20.72	22.00		
	140	5700	20.78	22.00		
	144	5720	20.81	22.00		
	152	5760	20.88	22.00		
802.11a+HT40 MCS0	110	5550	21.25	22.00	100.00	
	128	5630	21.11	22.00		
	134	5670	20.97	22.00		
	142	5710	20.83	22.00		
	150	5750	20.75	22.00		
	158	5790	20.82	22.00		
802.11ac VHT20 MCS0	118	5580	20.82	22.00	100.00	
	124	5620	20.83	22.00		
	132	5660	20.78	22.00		
	140	5700	20.84	22.00		
	144	5720	20.73	22.00		
	152	5760	20.88	22.00		
802.11ac VHT40 MCS0	110	5550	21.12	22.00	100.00	
	128	5630	21.00	22.00		
	134	5670	20.85	22.00		
	142	5710	20.81	22.00		
	150	5750	20.81	22.00		
	158	5790	20.88	22.00		
802.11ax HE30 MCS0	100	5560	19.80	21.00	100.00	
	122	5670	19.84	21.00		
	138	5690	19.90	21.00		
	154	5710	20.23	21.00		
	160	5750	20.94	22.00		
	178	5880	21.10	22.00		
802.11ax HE30 MCS0	124	5620	21.80	22.00	100.00	
	132	5660	20.94	22.00		
	140	5700	20.84	22.00		
	144	5720	20.89	22.00		
	152	5760	20.96	22.00		
	160	5800	20.91	22.00		
802.11ax HE40 MCS0	110	5550	21.18	22.00	100.00	
	128	5630	21.00	22.00		
	134	5670	20.94	22.00		
	142	5710	20.88	22.00		
	150	5750	20.81	21.00		
	158	5790	20.83	21.00		
802.11ax HE40 MCS0	138	5690	20.63	21.00	100.00	
	154	5710	20.30	21.00		

Avt 112						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %	
802.11a 6Mbps	140	5740	20.81	22.00	98.35	
	157	5785	20.88	22.00		
	165	5820	20.78	22.00		
802.11a+HT20 MCS0	140	5740	20.82	22.00	100.00	
	157	5785	20.94	22.00		
	165	5820	20.82	22.00		
802.11a+HT40 MCS0	151	5795	20.74	22.00	100.00	
	159	5795	20.84	22.00		
	167	5795	20.41	22.00		
802.11ac VHT20 MCS0	140	5740	20.81	22.00	100.00	
	157	5785	20.81	22.00		
	165	5820	20.51	22.00		
802.11ac VHT40 MCS0	151	5795	20.82	22.00	100.00	
	159	5795	20.72	22.00		
	167	5775	19.74	21.00		
802.11ax HE30 MCS0	140	5740	20.83	22.00	100.00	
	157	5785	20.86	22.00		
	165	5820	20.74	22.00		
802.11ax HE40 MCS0	151	5795	20.89	22.00	100.00	
	159	5795	20.81	22.00		
	167	5795	20.81	22.00		
802.11ax HE40 MCS0	155	5775	19.88	21.00	100.00	



Reudced Power for Head

BT BR/EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)								Tune-up Limit
			Packet Type								
			DH1	DH3	DH5	2DH3	2DH5	3DH1	3DH3	3DH5	
Bluetooth	CH 0	2402	8.10	8.00	8.00	6.10	6.10	6.20	6.10	6.10	10.00
	CH 39	2441	9.50	9.40	9.40	7.70	7.60	7.70	7.60	7.60	11.40
	CH 78	2480	8.40	8.30	8.30	6.40	6.40	6.50	6.40	6.40	10.30



Reduced Power Level 1						Reduced Power Level 2						Reduced Power Level 3						Reduced Power Level 4						Reduced Power Level 5						Reduced Power Level 6											
Area	Room	Power (W)	Power (W)	Power (W)	Power (W)	Area	Room	Power (W)	Power (W)	Power (W)	Power (W)	Area	Room	Power (W)	Power (W)	Power (W)	Power (W)	Area	Room	Power (W)	Power (W)	Power (W)	Power (W)	Area	Room	Power (W)	Power (W)	Power (W)	Power (W)	Area	Room	Power (W)	Power (W)	Power (W)	Power (W)						
Lobby Area	BB1-T1a	1000	1000	1000	1000	Lobby Area	BB1-T1a	1000	1000	1000	1000	Lobby Area	BB1-T1a	1000	1000	1000	1000	Lobby Area	BB1-T1a	1000	1000	1000	1000	Lobby Area	BB1-T1a	1000	1000	1000	1000	Lobby Area	BB1-T1a	1000	1000	1000	1000	Lobby Area	BB1-T1a	1000	1000	1000	1000



Reduced Power Level 1							Reduced Power Level 2							Reduced Power Level 3							Reduced Power Level 4							Reduced Power Level 5							Reduced Power Level 6							
Area	Channel	Frequency (MHz)	Power (dBm)	Usage (dBm)	Usage (dBm)	Usage (dBm)	Area	Channel	Frequency (MHz)	Power (dBm)	Usage (dBm)	Usage (dBm)	Usage (dBm)	Area	Channel	Frequency (MHz)	Power (dBm)	Usage (dBm)	Usage (dBm)	Usage (dBm)	Area	Channel	Frequency (MHz)	Power (dBm)	Usage (dBm)	Usage (dBm)	Usage (dBm)	Area	Channel	Frequency (MHz)	Power (dBm)	Usage (dBm)	Usage (dBm)	Usage (dBm)	Area	Channel	Frequency (MHz)	Power (dBm)	Usage (dBm)	Usage (dBm)	Usage (dBm)	
Landing Area	MSL 100 MHz	1	2000	2000	2000	2000	MSL 100 MHz	1	2000	2000	2000	2000	MSL 100 MHz	1	2000	2000	2000	2000	MSL 100 MHz	1	2000	2000	2000	2000	MSL 100 MHz	1	2000	2000	2000	2000	MSL 100 MHz	1	2000	2000	2000	2000	MSL 100 MHz	1	2000	2000	2000	2000



Reduced Power for Body-worn/Extremity

Grid of 24 tables for Reduced Power Levels 1-6, each with columns for Mode, Channel, Frequency, Power, and Duty Cycle %.

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Grid of 24 tables for Reduced Power Levels 1-6, each with columns for Mode, Channel, Frequency, Power, and Duty Cycle %.



Appendix F. Supplemental Tuner Head & Body SAR Results

The results are shown as follows.



RF exposure position-Ant 0										Aperture 00					Aperture 01					Aperture 02				
										Average Value of Time Sweep (W/kg)					Average Value of Time Sweep (W/kg)					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)	0	30	60	90	120	0	30	60	90	120	0	30	60	90	120
CDMA2000 BCD	RC3+S055	Reduced Power Level 1	777	848.31	N/A	N/A	Right Cheek	0mm	0.972	0.096	0	0	0	0	0.073	0	0.04	0	0	0.307	0	0.057	0	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	1	31	61	91	121	1	31	61	91	121	1	31	61	91	121
CDMA2000 BC10	RC3+S055	Reduced Power Level 1	684	823.1	N/A	N/A	Right Cheek	0mm	0.926	0.14	0	0	0	0	0.11	0	0	0	0	0.415	0	0.04	0	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	2	32	62	92	122	2	32	62	92	122	2	32	62	92	122
WCDMA V	RMC 12.2Kops	Reduced Power Level 1	4233	846.6	N/A	N/A	Right Cheek	0mm	0.906	0.108	0	0	0	0	0.096	0	0	0	0	0.22	0	0	0	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	3	33	63	93	123	3	33	63	93	123	3	33	63	93	123
LTE Band 71	20M-QPSK	Reduced Power Level 1	13322	883	50	0	Right Cheek	0mm	0.967	0.378	0.947	0	0	0	0.42	0.043	0	0	0	0.144	0.158	0	0	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	4	34	64	94	124	4	34	64	94	124	4	34	64	94	124
LTE Band 12	10M-QPSK	Reduced Power Level 1	23095	707.5	50	0	Right Cheek	0mm	0.83	0.63	0	0	0	0	0.595	0	0	0	0	0.438	0	0	0	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	5	35	65	95	125	5	35	65	95	125	5	35	65	95	125
LTE Band 13	10M-QPSK	Reduced Power Level 1	23230	782	1	25	Right Cheek	0mm	0.879	0.246	0	0.129	0	0	0.213	0	0.136	0	0	0.447	0	0	0	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	6	36	66	96	126	6	36	66	96	126	6	36	66	96	126
LTE Band 5	10M-QPSK	Reduced Power Level 1	20525	836.5	25	25	Right Cheek	0mm	0.753	0.129	0.432	0	0	0	0.118	0.377	0	0	0	0.205	0.157	0.109	0	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	7	37	67	97	127	7	37	67	97	127	7	37	67	97	127
LTE Band 26	15M-QPSK	Reduced Power Level 1	26865	841.5	1	0	Right Cheek	0mm	0.771	0.16	0.552	0	0	0	0.145	0.491	0	0	0	0.219	0.264	0.073	0	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	8	38	68	98	128	8	38	68	98	128	8	38	68	98	128
LTE Band 66_Ant 0	20M-QPSK	Reduced Power Level 1	132572	1770	50	24	Right Tilted	0mm	0.755	0.199	0.143	0.226	0.204	0.2	0.617	0.321	0.383	0.443	0.453	0.336	0.18	0.443	0.37	0.261
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	9	39	69	99	129	9	39	69	99	129	9	39	69	99	129
LTE Band 7_Ant 0	20M-QPSK	Reduced Power Level 1	20850	2510	1	99	Right Tilted	0mm	0.889	0.271	0.206	0.13	0.109	0.106	0.291	0.306	0.151	0.136	0.131	0.289	0.305	0.153	0.151	0.12
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	10	40	70	100	130	10	40	70	100	130	10	40	70	100	130
N71_Ant 0	20M-BPSK	Full power	136100	680.5	50	28	Right Cheek	0mm	0.912	0.348	0.175	0.175	0	0	0.432	0.19	0.148	0	0	0.104	0.088	0.283	0	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	11	41	71	101	131	11	41	71	101	131	11	41	71	101	131
NS_Ant 0	20M-BPSK	Reduced Power Level 1	167300	836.5	1	1	Right Cheek	0mm	0.729	0.155	0.553	0	0	0	0.131	0.478	0	0	0	0.329	0.727	0	0	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	12	42	72	102	0	12	42	72	102	0	12	42	72	102	0
N66_Ant 0	20M-BPSK	Reduced Power Level 1	354000	1770	1	1	Right Tilted	0mm	0.636	0.197	0.195	0	0	0.058	0.405	0.455	0.189	0.198	0.142	0.255	0.261	0.048	0.047	0.067
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	13	43	73	103	1	13	43	73	103	1	13	43	73	103	1
N41_Ant 0	10M-BPSK	Reduced Power Level 1	528000	2640	135	69	Right Tilted	0mm	0.801	0.372	0.386	0.545	0.538	0.332	0.397	0.413	0.558	0.567	0.346	0.389	0.408	0.545	0.557	0.347
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	14	44	74	104	2	14	44	74	104	2	14	44	74	104	2
N41(H)UE_Ant 0	10M-BPSK	Reduced Power Level 1	528000	2640	135	69	Right Tilted	0mm	0.89	0.443	0.447	0.551	0.543	0.396	0.473	0.506	0.588	0.589	0.41	0.47	0.485	0.585	0.612	0.412
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	15	45	75	105	3	15	45	75	105	3	15	45	75	105	3
CDMA2000 BCD	RTAP 153.8Kops	Full power	384	836.52	N/A	N/A	Back	10mm	0.436	0.055	0.252	0	0	0.086	0.049	0.273	0	0	0.071	0.075	0.055	0	0	0.181
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	16	46	76	106	4	16	46	76	106	4	16	46	76	106	4
CDMA2000 BC10	RTAP 153.9Kops	Full power	476	917.9	N/A	N/A	Back	10mm	0.426	0.052	0.33	0	0	0.103	0.051	0.324	0	0	0.091	0.063	0.118	0	0	0.202
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	17	47	77	107	5	17	47	77	107	5	17	47	77	107	5
WCDMA V	RMC 12.2Kops	Full power	4182	836.4	N/A	N/A	Back	10mm	0.465	0.069	0.284	0	0	0.101	0.07	0.21	0	0	0.088	0.062	0.387	0	0	0.174
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	18	48	78	108	6	18	48	78	108	6	18	48	78	108	6
LTE Band 71	20M-QPSK	Full power	13322	883	1	0	Back	10mm	0.295	0	0.042	0	0	0.276	0	0.047	0	0	0.285	0	0	0	0	0.161
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	19	49	79	109	7	19	49	79	109	7	19	49	79	109	7
LTE Band 12	10M-QPSK	Full power	23095	707.5	1	0	Back	10mm	0.398	0	0.148	0	0	0.221	0	0.165	0	0	0.211	0	0.098	0	0	0.242
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	20	50	80	110	8	20	50	80	110	8	20	50	80	110	8
LTE Band 13	10M-QPSK	Full power	23230	782	1	25	Back	10mm	0.456	0	0.238	0	0	0.089	0	0.238	0	0	0.088	0	0.207	0	0	0.092
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	21	51	81	111	9	21	51	81	111	9	21	51	81	111	9
LTE Band 5	10M-QPSK	Full power	20525	836.5	1	49	Back	10mm	0.316	0	0.099	0	0	0.049	0	0.089	0	0	0	0	0.133	0	0	0.192
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	22	52	82	112	10	22	52	82	112	10	22	52	82	112	10
LTE Band 26	15M-QPSK	Full power	26865	831.5	1	0	Front	10mm	0.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.067
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	23	53	83	113	11	23	53	83	113	11	23	53	83	113	11
LTE Band 66_Ant 0	20M-QPSK	Hotspot on	132572	1770	1	0	Top Side	10mm	0.658	0.143	0.077	0.051	0.045	0.095	0.29	0.531	0.362	0.431	0.347	0.295	0.21	0.115	0.102	0.141
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	24	54	84	114	12	24	54	84	114	12	24	54	84	114	12
LTE Band 7_Ant 0	20M-QPSK	Hotspot on	20850	2510	1	99	Top Side	10mm	0.682	0.215	0.322	0.4	0.394	0.401	0.192	0.268	0.305	0.264	0.182	0.247	0.261	0.332	0.324	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	25	55	85	115	13	25	55	85	115	13	25	55	85	115	13
N71_Ant 0	20M-BPSK	Full power	136100	680.5	1	1	Back	10mm	0.294	0	0	0	0	0.289	0	0	0	0	0.277	0.041	0	0	0	0.184
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	26	56	86	116	14	26	56	86	116	14	26	56	86	116	14
NS_Ant 0	20M-BPSK	Full power	167300	836.5	1	1	Back	10mm	0.497	0	0.083	0	0	0.064	0	0.054	0	0	0.058					



Aperture 03					Aperture 04					Aperture 05					Aperture 06					Aperture 07					Aperture 08					Aperture 09									
Average Value of Time Sweep (W/kg)					Average Value of Time Sweep (W/kg)					Average Value of Time Sweep (W/kg)					Average Value of Time Sweep (W/kg)					Average Value of Time Sweep (W/kg)					Average Value of Time Sweep (W/kg)					Average Value of Time Sweep (W/kg)									
0	30	60	90	120	0	30	60	90	120	0	30	60	90	120	0	30	60	90	120	0	30	60	90	120	0	30	60	90	120	0	30	60	90	120	0	30	60	90	120
0.504	0.063	0.106	0	0	0.401	0	0.067	0	0	0.279	0	0.054	0	0	0.38	0	0.067	0	0	0.542	0	0.08	0	0	0.528	0	0.077	0	0	0.546	0.044	0.109	0	0	0.546	0.044	0.109	0	0
1	31	61	91	121	1	31	61	91	121	1	31	61	91	121	1	31	61	91	121	1	31	61	91	121	1	31	61	91	121	1	31	61	91	121	1	31	61	91	121
0.524	0.051	0.058	0	0	0.498	0	0.046	0	0	0.38	0	0	0	0	0.482	0	0.044	0	0	0.625	0	0.049	0	0	0.614	0.039	0.065	0	0	0.563	0.051	0.079	0	0	0.563	0.051	0.079	0	0
2	32	62	92	122	2	32	62	92	122	2	32	62	92	122	2	32	62	92	122	2	32	62	92	122	2	32	62	92	122	2	32	62	92	122	2	32	62	92	122
0.436	0	0	0	0	0.276	0	0	0	0	0.217	0	0	0	0	0.269	0	0	0	0	0.343	0	0	0	0	0.338	0	0	0	0	0.461	0	0	0	0	0.461	0	0	0	0
3	33	63	93	123	3	33	63	93	123	3	33	63	93	123	3	33	63	93	123	3	33	63	93	123	3	33	63	93	123	3	33	63	93	123	3	33	63	93	123
0.088	0.049	0	0	0	0.118	0.138	0	0	0	0.118	0.104	0	0	0	0.122	0.131	0	0	0	0.087	0.122	0	0	0	0.085	0.117	0	0	0	0.086	0.082	0	0	0	0.086	0.082	0	0	0
4	34	64	94	124	4	34	64	94	124	4	34	64	94	124	4	34	64	94	124	4	34	64	94	124	4	34	64	94	124	4	34	64	94	124	4	34	64	94	124
0.189	0	0	0	0	0.188	0	0	0	0	0.445	0	0	0	0	0.357	0	0	0	0	0.291	0	0	0	0	0.293	0	0	0	0	0.196	0	0	0	0	0.196	0	0	0	0
5	35	65	95	125	5	35	65	95	125	5	35	65	95	125	5	35	65	95	125	5	35	65	95	125	5	35	65	95	125	5	35	65	95	125	5	35	65	95	125
0.564	0	0	0	0	0.499	0	0	0	0	0.434	0	0	0	0	0.482	0	0	0	0	0.568	0	0	0	0	0.556	0	0	0	0	0.591	0	0	0	0	0.591	0	0	0	0
6	36	66	96	126	6	36	66	96	126	6	36	66	96	126	6	36	66	96	126	6	36	66	96	126	6	36	66	96	126	6	36	66	96	126	6	36	66	96	126
0.292	0.091	0.12	0	0	0.223	0.117	0.14	0	0	0.195	0.169	0.098	0	0	0.219	0.12	0.131	0	0	0.251	0.093	0.169	0	0	0.225	0.098	0.164	0	0	0.206	0.061	0.131	0	0	0.206	0.061	0.131	0	0
7	37	67	97	127	7	37	67	97	127	7	37	67	97	127	7	37	67	97	127	7	37	67	97	127	7	37	67	97	127	7	37	67	97	127	7	37	67	97	127
0.27	0.11	0.124	0	0	0.233	0.207	0.094	0	0	0.211	0.262	0.086	0	0	0.228	0.205	0.091	0	0	0.252	0.165	0.134	0	0	0.248	0.165	0.125	0	0	0.281	0.107	0.138	0	0	0.281	0.107	0.138	0	0
8	38	68	98	128	8	38	68	98	128	8	38	68	98	128	8	38	68	98	128	8	38	68	98	128	8	38	68	98	128	8	38	68	98	128	8	38	68	98	128
0.435	0.233	0.526	0.442	0.437	0.369	0.19	0.467	0.395	0.368	0.223	0.148	0.245	0.224	0.213	0.316	0.174	0.412	0.347	0.352	0.199	0.465	0.428	0.395	0.191	0.471	0.401	0.41	0.436	0.21	0.496	0.448	0.448	0.436	0.21	0.496	0.448	0.448		
9	39	69	99	129	9	39	69	99	129	9	39	69	99	129	9	39	69	99	129	9	39	69	99	129	9	39	69	99	129	9	39	69	99	129	9	39	69	99	129
0.288	0.303	0.148	0.141	0.126	0.288	0.302	0.136	0.135	0.131	0.293	0.315	0.147	0.133	0.128	0.291	0.311	0.151	0.142	0.121	0.291	0.312	0.153	0.128	0.108	0.293	0.31	0.158	0.136	0.123	0.287	0.305	0.163	0.136	0.123	0.287	0.305	0.163	0.136	
10	40	70	100	130	10	40	70	100	130	10	40	70	100	130	10	40	70	100	130	10	40	70	100	130	10	40	70	100	130	10	40	70	100	130	10	40	70	100	130
0.045	0.061	0.121	0	0	0.078	0.087	0.237	0	0	0.107	0.1	0.281	0	0	0.08	0.085	0.233	0	0	0.085	0.076	0.208	0	0	0.067	0.079	0.2	0	0	0.051	0.072	0.115	0	0	0.051	0.072	0.115	0	0
11	41	71	101	131	11	41	71	101	131	11	41	71	101	131	11	41	71	101	131	11	41	71	101	131	11	41	71	101	131	11	41	71	101	131	11	41	71	101	131
0.629	0.614	0	0	0	0.385	0.715	0	0	0	0.322	0.715	0	0	0	0.379	0.718	0	0	0	0.502	0.721	0	0	0	0.486	0.72	0	0	0	0.679	0.62	0	0	0	0.679	0.62	0	0	0
12	42	72	102	0	12	42	72	102	0	12	42	72	102	0	12	42	72	102	0	12	42	72	102	0	12	42	72	102	0	12	42	72	102	0	12	42	72	102	0
0.289	0.311	0.068	0.089	0.078	0.26	0.279	0.056	0.056	0.069	0.201	0.203	0.039	0	0.058	0.253	0.257	0.047	0.045	0.069	0.272	0.294	0.062	0.056	0.069	0.263	0.281	0.056	0.056	0.074	0.289	0.316	0.069	0.068	0.078	0.289	0.316	0.069	0.068	
13	43	73	103	1	13	43	73	103	1	13	43	73	103	1	13	43	73	103	1	13	43	73	103	1	13	43	73	103	1	13	43	73	103	1	13	43	73	103	1
0.413	0.426	0.565	0.572	0.345	0.4	0.414	0.553	0.565	0.346	0.396	0.418	0.559	0.565	0.35	0.4	0.425	0.559	0.566	0.349	0.408	0.419	0.572	0.567	0.348	0.403	0.414	0.567	0.573	0.345	0.406	0.419	0.579	0.592	0.345	0.406	0.419	0.579	0.592	
14	44	74	104	2	14	44	74	104	2	14	44	74	104	2	14	44	74	104	2	14	44	74	104	2	14	44	74	104	2	14	44	74	104	2	14	44	74	104	2
0.485	0.505	0.602	0.578	0.417	0.48	0.493	0.583	0.585	0.402	0.481	0.493	0.588	0.582	0.398	0.479	0.493	0.585	0.604	0.411	0.48	0.507	0.589	0.589	0.402	0.483	0.506	0.584	0.598	0.408	0.502	0.511	0.588	0.602	0.419	0.502	0.511	0.588	0.602	
15	45	75	105	3	15	45	75	105	3	15	45	75	105	3	15	45	75	105	3	15	45	75	105	3	15	45	75	105	3	15	45	75	105	3	15	45	75	105	3
0.105	0	0	0	0.3	0.081	0	0	0	0.213	0.074	0.072	0	0	0.17	0.081	0.048	0	0	0.209	0.09	0	0	0	0.26	0.09	0	0	0	0.257	0.109	0	0	0	0.257	0.109	0	0	0	
16	46	76	106	4	16	46	76	106	4	16	46	76	106	4	16	46	76	106	4	16	46	76	106	4	16	46	76	106	4	16	46	76	106	4	16	46	76	106	4
0.083	0	0	0	0.298	0.071	0.049	0	0	0.23	0.062	0.085	0	0	0.183	0.073	0.053	0	0	0.216	0.083	0	0	0	0.275	0.08	0	0	0	0.268	0.085	0.052	0	0	0.268	0.085	0.052	0	0	
17	47	77	107	5	17	47	77	107	5	17	47	77	107	5	17	47	77	107	5	17	47	77	107	5	17	47	77	107	5	17	47	77	107	5	17	47	77	107	5
0.054	0.193	0	0	0.257	0.058	0.33	0	0	0.197	0.061	0.383	0	0	0.166	0.058	0.332	0	0	0.189	0.057	0.29	0	0	0.225	0.06	0.297	0	0	0.224	0.056	0.193	0	0	0.267	0.056	0.193	0	0	
18	48	78	108	6	18	48	78	108	6	18	48	78	108	6	18	48	78	108	6	18	48	78	108	6	18	48	78	108	6	18	48	78	108	6	18	48	78	108	6
0	0	0	0	0.088	0	0	0	0	0.138	0	0	0	0	0.165	0	0	0	0	0.138	0	0	0	0	0.124	0	0	0	0	0.121	0	0	0	0	0.089	0	0	0		



RF exposure position-Ant 1										Aperture 00					Aperture 01					Aperture 02					
										Average Value of Time Sweep (W/kg)					Average Value of Time Sweep (W/kg)					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)	0	30	60	90	120	0	30	60	90	120	0	30	60	90	120	
CDMA2000 BC0	Mode	Full power	384	836.52	NA	NA	Right Cheek	0mm	0.174	0	0.076	0	0	0	0	0.094	0	0	0	0	0.088	0	0	0	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	1	31	61	91	121	1	31	61	91	121	1	31	61	91	121	1
CDMA2000 BC10	Mode	Full power	684	823.1	NA	NA	Right Cheek	0mm	0.176	0	0	0	0	0	0	0	0	0	0	0	0.049	0	0	0	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	2	32	62	92	122	2	32	62	92	122	2	32	62	92	122	2
WCDMA V	Mode	Full power	4132	826.4	NA	NA	Right Cheek	0mm	0.185	0	0	0	0	0.043	0	0	0	0	0.065	0	0	0	0	0	0.077
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	3	33	63	93	123	3	33	63	93	123	3	33	63	93	123	3
LTE Band 71	Mode	Full power	13332	683	1	0	Right Cheek	0mm	0.167	0	0	0	0	0.075	0	0	0	0.091	0	0	0	0	0	0	0.087
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	4	34	64	94	124	4	34	64	94	124	4	34	64	94	124	4
LTE Band 12	Mode	Full power	23095	707.5	1	0	Right Cheek	0mm	0.21	0	0.143	0	0	0.047	0	0	0	0	0.086	0	0	0	0	0	0.099
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	5	35	65	95	125	5	35	65	95	125	5	35	65	95	125	5
LTE Band 13	Mode	Full power	23230	792	1	25	Right Cheek	0mm	0.235	0	0	0	0.087	0	0.075	0	0	0.089	0	0.103	0	0	0	0	0.101
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	6	36	66	96	126	6	36	66	96	126	6	36	66	96	126	6
LTE Band 5	Mode	Full power	20525	836.5	1	0	Right Cheek	0mm	0.168	0	0	0	0	0.05	0	0	0	0.093	0	0	0	0	0	0	0.12
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	7	37	67	97	127	7	37	67	97	127	7	37	67	97	127	7
LTE Band 26	Mode	Full power	26965	841.5	1	0	Right Cheek	0mm	0.156	0	0	0	0	0	0	0	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)	8	38	68	98	128	8	38	68	98	128	8	38	68	98	128	8
LTE Band 66_Ant 1	Mode	Full power	130072	1720	1	0	Right Cheek	0mm	0.105	0	0.042	0	0	0	0.043	0	0	0	0	0.043	0	0	0	0	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	9	39	69	99	129	9	39	69	99	129	9	39	69	99	129	9
LTE Band 7_Ant 1	Mode	Full power	20850	2510	1	99	Right Cheek	0mm	0.121	0.084	0.083	0.042	0.06	0.084	0.085	0.042	0.038	0.042	0.08	0.072	0.045	0.041	0	0	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	10	40	70	100	130	10	40	70	100	130	10	40	70	100	130	10
N71_Ant 1	Mode	Full power	136100	680.5	50	28	Right Cheek	0mm	0.14	0	0	0	0.056	0	0	0.053	0	0	0.078	0	0.048	0	0	0	0.048
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	11	41	71	101	131	11	41	71	101	131	11	41	71	101	131	11
NC_Ant 1	Mode	Full power	167300	836.5	50	28	Right Cheek	0mm	0.146	0.085	0	0.088	0	0	0.104	0	0.093	0	0	0.113	0	0.089	0.044	0	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	12	42	72	102	132	12	42	72	102	132	12	42	72	102	132	12
N66_Ant 1	Mode	Full power	354000	1770	1	1	Right Cheek	0mm	0.114	0	0	0	0	0	0	0	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)	13	43	73	103	133	13	43	73	103	133	13	43	73	103	133	13
N41_Ant 1	Mode	Full power	510000	2550	1	1	Right Cheek	0mm	0.08	0.05	0.054	0	0.048	0.04	0.05	0.052	0	0.048	0	0.047	0.051	0	0	0	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	14	44	74	104	134	14	44	74	104	134	14	44	74	104	134	14
N41(HPLUE)_Ant 1	Mode	Full power	510000	2550	1	1	Right Cheek	0mm	0.149	0.056	0.052	0.083	0.051	0	0.056	0.056	0.085	0.052	0	0.048	0.049	0.071	0.047	0	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	15	45	75	105	135	15	45	75	105	135	15	45	75	105	135	15
CDMA2000 BC0	Mode	Full power	1013	824.7	NA	NA	Right Side	10mm	0.428	0	0	0	0	0	0	0.068	0	0	0	0	0.093	0	0	0	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	16	46	76	106	136	16	46	76	106	136	16	46	76	106	136	16
CDMA2000 BC10	Mode	Full power	684	823.1	NA	NA	Right Side	10mm	0.407	0	0	0	0	0.044	0	0	0	0	0.071	0	0	0	0	0	0.097
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	17	47	77	107	137	17	47	77	107	137	17	47	77	107	137	17
WCDMA V	Mode	Full power	4233	846.6	NA	NA	Right Side	10mm	0.405	0	0	0	0.077	0	0.057	0	0.057	0	0.092	0	0.076	0.049	0	0.105	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	18	48	78	108	138	18	48	78	108	138	18	48	78	108	138	18
LTE Band 71	Mode	Full power	13332	683	1	0	Right Side	10mm	0.511	0	0	0.082	0.293	0.25	0	0	0.137	0.27	0.302	0	0	0.198	0.210	0.293	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	19	49	79	109	139	19	49	79	109	139	19	49	79	109	139	19
LTE Band 12	Mode	Full power	23095	707.5	1	0	Right Side	10mm	0.48	0	0.054	0.134	0.298	0	0	0.083	0.23	0.194	0	0	0.102	0.294	0.152	0	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	20	50	80	110	140	20	50	80	110	140	20	50	80	110	140	20
LTE Band 13	Mode	Full power	23230	792	1	25	Right Side	10mm	0.515	0	0.079	0.066	0	0	0	0.097	0.106	0	0	0	0.112	0.136	0	0.043	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	21	51	81	111	141	21	51	81	111	141	21	51	81	111	141	21
LTE Band 5	Mode	Full power	20525	836.5	1	49	Right Side	10mm	0.4	0.048	0.091	0	0	0.05	0.053	0.139	0	0	0.069	0.059	0.172	0	0	0.083	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	22	52	82	112	142	22	52	82	112	142	22	52	82	112	142	22
LTE Band 26	Mode	Full power	26865	831.5	1	0	Right Side	10mm	0.409	0.053	0.095	0.044	0	0.12	0.059	0.163	0.076	0	0.161	0.063	0.213	0.102	0	0.189	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	23	53	83	113	143	23	53	83	113	143	23	53	83	113	143	23
LTE Band 66_Ant 1	Mode	Full power	130072	1720	1	0	Front	10mm	0.363	0	0	0.053	0	0	0	0.054	0	0	0	0	0	0.052	0	0	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	24	54	84	114	144	24	54	84	114	144	24	54	84	114	144	24
LTE Band 7_Ant 1	Mode	Full power	20850	2510	1	99	Right Side	10mm	0.6	0.042	0.05	0.057	0.043	0.058	0.044	0.05	0.06	0.048	0.057	0.044	0.047	0.065	0.044	0.089	0
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	25	55	85	115	1	25	55	85	115	1	25	55	85	115	1	
N71_Ant 1	Mode	Full power	136100	680.5	50	28	Right Side	10mm	0.389	0	0.151	0.223	0.363	0	0	0.17	0.334	0.308	0	0	0.161	0.36	0.254	0	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	26	56	86	116	2	26	56	86	116	2	26	56	86	116	2	
NC_Ant 1	Mode	Full power	167300	836.5	1	1	Right Side	10mm	0.406	0.073	0.101	0	0	0.063	0.152	0.061	0	0	0.062	0.179					



Aperture 03					Aperture 04					Aperture 05					Aperture 06					Aperture 07					Aperture 08					Aperture 09											
Average Value of Time Sweep (W/kg)					Average Value of Time Sweep (W/kg)					Average Value of Time Sweep (W/kg)					Average Value of Time Sweep (W/kg)					Average Value of Time Sweep (W/kg)					Average Value of Time Sweep (W/kg)					Average Value of Time Sweep (W/kg)											
0	30	60	90	120	0	30	60	90	120	0	30	60	90	120	0	30	60	90	120	0	30	60	90	120	0	30	60	90	120	0	30	60	90	120	0	30	60	90	120		
0	0.061	0	0	0	0	0.075	0	0	0	0	0.084	0	0	0	0	0.074	0	0	0	0	0	0.069	0	0	0	0	0	0.067	0	0	0	0	0.061	0	0	0	0				
1	31	61	91	121	1	31	61	91	121	1	31	61	91	121	1	31	61	91	121	1	31	61	91	121	1	31	61	91	121	1	31	61	91	121	1	31	61	91	121		
0	0.104	0	0	0	0	0.073	0	0	0	0	0.06	0	0	0	0	0.078	0	0	0	0	0	0.083	0	0	0	0	0	0.085	0	0	0	0	0.106	0	0	0	0				
2	32	62	92	122	2	32	62	92	122	2	32	62	92	122	2	32	62	92	122	2	32	62	92	122	2	32	62	92	122	2	32	62	92	122	2	32	62	92	122		
0	0	0	0	0	0.111	0	0	0	0	0.094	0	0	0	0	0.085	0	0	0	0	0.098	0	0	0	0	0	0.102	0	0	0	0	0.103	0	0	0	0	0.114	0	0	0	0	
3	33	63	93	123	3	33	63	93	123	3	33	63	93	123	3	33	63	93	123	3	33	63	93	123	3	33	63	93	123	3	33	63	93	123	3	33	63	93	123		
0	0	0	0	0	0.048	0	0.046	0	0	0.068	0	0	0	0.078	0	0.046	0	0	0.067	0	0.046	0	0	0.064	0	0.046	0	0	0.062	0	0	0.062	0	0	0	0	0.049	0	0	0	0
4	34	64	94	124	4	34	64	94	124	4	34	64	94	124	4	34	64	94	124	4	34	64	94	124	4	34	64	94	124	4	34	64	94	124	4	34	64	94	124		
0	0	0	0	0	0.07	0	0	0	0.093	0	0	0	0	0.104	0	0	0	0	0.132	0	0	0	0	0	0.09	0	0	0	0	0.09	0	0	0	0	0.071	0	0	0	0	0	
5	35	65	95	125	5	35	65	95	125	5	35	65	95	125	5	35	65	95	125	5	35	65	95	125	5	35	65	95	125	5	35	65	95	125	5	35	65	95	125		
0	0.145	0	0	0.108	0	0.128	0	0	0.121	0	0	0.105	0	0.145	0	0.112	0	0.148	0	0.109	0	0.152	0	0.111	0	0.148	0	0.111	0	0.148	0	0	0.148	0	0	0	0.106	0	0	0	0
6	36	66	96	126	6	36	66	96	126	6	36	66	96	126	6	36	66	96	126	6	36	66	96	126	6	36	66	96	126	6	36	66	96	126	6	36	66	96	126		
0	0	0	0	0	0.102	0	0	0	0.158	0	0	0	0	0.135	0	0	0	0.161	0	0	0	0	0.166	0	0	0	0.146	0	0	0	0.146	0	0	0	0	0.156	0	0	0	0	
7	37	67	97	127	7	37	67	97	127	7	37	67	97	127	7	37	67	97	127	7	37	67	97	127	7	37	67	97	127	7	37	67	97	127	7	37	67	97	127		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	38	68	98	128	8	38	68	98	128	8	38	68	98	128	8	38	68	98	128	8	38	68	98	128	8	38	68	98	128	8	38	68	98	128	8	38	68	98	128		
0	0.054	0	0	0	0	0.048	0	0	0	0.045	0	0	0	0.052	0	0	0	0.051	0	0	0	0	0.052	0	0	0	0.048	0	0	0.048	0	0.056	0	0	0	0	0.049	0	0	0	0
9	39	69	99	129	9	39	69	99	129	9	39	69	99	129	9	39	69	99	129	9	39	69	99	129	9	39	69	99	129	9	39	69	99	129	9	39	69	99	129		
0.115	0.111	0.105	0.106	0.101	0.068	0.063	0	0.04	0	0.078	0.075	0.041	0.043	0	0.069	0.071	0.043	0.045	0	0.072	0.074	0.044	0.041	0.032	0.072	0.079	0.04	0.046	0	0.111	0.108	0.105	0.107	0.105	0.105	0.105	0.105	0.105	0.105		
10	40	70	100	130	10	40	70	100	130	10	40	70	100	130	10	40	70	100	130	10	40	70	100	130	10	40	70	100	130	10	40	70	100	130	10	40	70	100	130		
0	0.104	0	0.045	0	0	0.095	0	0	0	0.088	0	0	0	0.044	0	0	0.1	0	0.046	0	0	0.102	0	0	0	0.103	0	0	0	0	0	0.106	0	0	0	0	0	0	0	0	
11	41	71	101	131	11	41	71	101	131	11	41	71	101	131	11	41	71	101	131	11	41	71	101	131	11	41	71	101	131	11	41	71	101	131	11	41	71	101	131		
0.116	0	0.074	0.098	0	0.117	0	0.083	0.067	0	0.112	0	0.072	0.056	0	0.118	0	0.078	0.074	0	0.117	0	0.081	0.077	0	0.112	0	0.065	0.079	0	0.115	0	0.08	0.102	0	0	0.102	0	0	0	0	
12	42	72	102	132	12	42	72	102	132	12	42	72	102	132	12	42	72	102	132	12	42	72	102	132	12	42	72	102	132	12	42	72	102	132	12	42	72	102	132		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	43	73	103	133	13	43	73	103	133	13	43	73	103	133	13	43	73	103	133	13	43	73	103	133	13	43	73	103	133	13	43	73	103	133	13	43	73	103	133		
0.078	0.078	0.071	0.052	0.078	0.042	0.045	0	0	0	0.047	0.05	0	0	0	0	0.046	0	0	0	0.041	0.05	0	0	0	0.045	0.052	0	0	0	0.075	0.078	0.077	0.049	0.078	0.078	0.078	0.049	0.078	0.078		
14	44	74	104	134	14	44	74	104	134	14	44	74	104	134	14	44	74	104	134	14	44	74	104	134	14	44	74	104	134	14	44	74	104	134	14	44	74	104	134		
0.84	0.067	0.042	0.064	0.065	0.04	0.048	0	0	0	0.055	0.052	0.072	0.046	0	0	0.46	0	0	0	0.041	0.051	0	0	0	0.043	0.049	0	0	0.067	0.086	0.04	0.072	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	
15	45	75	105	135	15	45	75	105	135	15	45	75	105	135	15	45	75	105	135	15	45	75	105	135	15	45	75	105	135	15	45	75	105	135	15	45	75	105	135		
0	0.208	0	0.05	0.04	0	0.14	0	0	0	0	0.112	0	0	0	0	0.15	0	0	0	0	0.157	0	0	0	0.162	0	0	0	0.209	0	0.209	0	0.052	0	0	0	0	0	0		
16	46	76	106	136	16	46	76	106	136	16	46	76	106	136	16	46	76	106	136	16	46	76	106	136	16	46	76	106	136	16	46	76	106	136	16	46	76	106	136		
0	0	0	0	0	0.193	0	0	0	0	0.138	0	0	0	0	0.114	0	0	0	0.147	0	0	0	0.153	0	0	0.158	0	0	0.193	0	0.193	0	0.067	0.196	0.196	0.196	0.196	0.196	0.196	0.196	
17	47	77	107	137	17	47	77	107	137	17	47	77	107	137	17	47	77	107	137	17	47	77	107	137	17	47	77	107	137	17	47	77	107	137	17	47	77	107	137		
0.166	0.086	0	0.141	0	0	0.116	0.064	0	0.125	0	0.094	0.056	0	0.113	0	0.123	0.067	0	0.127	0	0.125	0.073	0	0.129	0	0.13	0.072	0	0.152	0	0.17	0.084	0	0.143	0	0	0	0	0	0	
18	48	78	108	138	18	48	78	108	138	18	48	78	108	138	18	48	78	108	138	18	48	78	108	138	18	48	78	108	138	18	48	78	108	138	18	48	78	108	138		
0	0	0.098	0.1	0.2	0	0	0.15	0.148	0.25	0	0	0.169	0.194	0.277	0	0.045	0.145	0.139	0.246	0	0.046	0.139	0.135	0.241	0	0.046	0.136	0.131	0.238	0	0	0.099	0.102	0.199	0.199	0.199	0.199	0.199	0.199		
19	49	79	109	139	19	49	79	109	139	19	49	79	109	139	19	49	79	109	139	19	49	79	109	139	19	49	79	109	139	19	49	79	109	139	19	49	79	109	139		
0	0.189	0.398	0.077	0	0	0.137	0.379	0.106	0	0	0.118	0.331	0.131	0	0	0.144	0.394	0.191	0	0	0.152	0.389	0.097	0	0	0.155	0.4	0.095	0	0	0.193	0.404	0.079	0	0	0	0	0	0		
20	50	80	110	140	20	50	80	110	140	20	50	80																													

RF exposure position-Ant 2											Impedance				
											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)	0	30	60	90	120
WWAN_Ant 2 Head	CDMA2000 BC1	RC3 SOS	Reduced Power Level 1	1175	1908.75	N/A	N/A	Right Cheek	0mm	0.986	0.398	0.643	0.769	0.33	0.513
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	1	31	61	91	121
	WCDMA IV	RMC 12.2Kbps	Reduced Power Level 1	1413	1732.6	N/A	N/A	Right Cheek	0mm	0.867	0.207	0.23	0.466	0.216	0.305
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	2	32	62	92	122
	WCDMA II	RMC 12.2Kbps	Reduced Power Level 1	9538	1907.6	N/A	N/A	Right Cheek	0mm	1.05	0.44	0.537	0.549	0.388	0.428
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	3	33	63	93	123
	LTE Band 66	20M-QPSK	Reduced Power Level 1	132572	1770	1	0	Right Cheek	0mm	0.868	0.343	0.324	0.111	0.342	0.384
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	4	34	64	94	124
	LTE Band 25	20M-QPSK	Reduced Power Level 1	26590	1905	1	0	Right Cheek	0mm	0.927	0.47	0.503	0.503	0.431	0.425
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	5	35	65	95	125
	LTE Band 30	10M-QPSK	Reduced Power Level 1	27710	2310	1	25	Right Cheek	0mm	0.746	0.741	0.486	0.729	0.688	0.359
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	6	36	66	96	126
	LTE Band 7	20M-QPSK	Reduced Power Level 1	21350	2560	50	50	Right Cheek	0mm	0.777	0.121	0.404	0.091	0.108	0.371
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	7	37	67	97	127
	LTE Band 41	20M-QPSK	Reduced Power Level 1	39790	2510	1	49	Right Cheek	0mm	0.616	0.133	0.306	0.101	0.118	0.287
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	8	38	68	98	128
	LTE Band 41-HPUE	20M-QPSK	Reduced Power Level 1	39750	2506	1	99	Right Cheek	0mm	0.587	0.086	0.16	0.055	0.078	0.164
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	9	39	69	99	129
	N66_Ant 2	20M-BPSK	Reduced Power Level 1	349000	1745	1	1	Right Cheek	0mm	0.713	0.116	0.49	0.45	0.132	0.497
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	10	40	70	100	130
	N2_Ant 2	20M-BPSK	Reduced Power Level 1	376000	1880	1	1	Right Cheek	0mm	0.992	0.25	0.612	0.652	0.237	0.559
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	11	41	71	101	131
	N25_Ant 2	20M-BPSK	Reduced Power Level 1	376500	1882.5	1	1	Right Cheek	0mm	0.978	0.359	0.668	0.864	0.343	0.608
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	12	42	72	102	132
N7_Ant 2	20M-BPSK	Reduced Power Level 1	512000	2560	50	28	Right Cheek	0mm	0.725	0	0.114	0.123	0	0.09	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	13	43	73	103	133	
N41_Ant 2	100M-BPSK	Reduced Power Level 1	510000	2550	1	1	Right Cheek	0mm	0.837	0.131	0.327	0.473	0.133	0.328	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	14	44	74	104	134	
N41(HPUE)_Ant 2	100M-BPSK	Reduced Power Level 1	510000	2550	1	1	Right Cheek	0mm	0.837	0.122	0.266	0.39	0.125	0.249	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	15	45	75	105	135	
WWAN_Ant 2 Body	CDMA2000 BC1	RTAP-153.6Kbps	Full power	600	1680	N/A	N/A	Left Side	10mm	0.644	0.454	0.103	0.402	0.436	0.097
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	16	46	76	106	136
	WCDMA IV	RMC 12.2Kbps	Full power	1413	1732.6	N/A	N/A	Left Side	10mm	0.921	0.508	0.286	0.624	0.55	0.314
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	17	47	77	107	137
	WCDMA II	RMC 12.2Kbps	Full power	9262	1852.4	N/A	N/A	Left Side	10mm	0.898	0.677	0.335	0.691	0.672	0.322
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	18	48	78	108	138
	LTE Band 66	20M-QPSK	Full power	132572	1770	1	0	Left Side	10mm	0.877	0.198	0.354	0.584	0.258	0.371
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	19	49	79	109	139
	LTE Band 25	20M-QPSK	Full power	26140	1860	1	0	Left Side	10mm	0.739	0.244	0.325	0.493	0.236	0.311
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	20	50	80	110	140
	LTE Band 30	10M-QPSK	Full power	27710	2310	1	25	Left Side	10mm	0.482	0.458	0.411	0.38	0.28	0.405
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	21	51	81	111	141
	LTE Band 7	20M-QPSK	Full power	21100	2535	1	99	Left Side	10mm	0.540	0.244	0.115	0.174	0.405	0.135
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	22	52	82	112	142
	LTE Band 41	20M-QPSK	Full power	40185	2549.5	1	49	Left Side	10mm	0.315	0.066	0	0.051	0.099	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	23	53	83	113	143
	LTE Band 41-HPUE	20M-QPSK	Full power	40185	2549.5	1	99	Left Side	10mm	0.324	0.065	0	0	0.084	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	24	54	84	114	0
	N66_Ant 2	20M-BPSK	Full power	349000	1745	50	28	Left Side	10mm	0.612	0.455	0.2	0.271	0.54	0.173
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	25	55	85	115	1
	N2_Ant 2	20M-BPSK	Full power	372000	1860	50	28	Left Side	10mm	0.645	0.632	0.285	0.419	0.569	0.319
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	26	56	86	116	2
	N25_Ant 2	20M-BPSK	Full power	376500	1882.5	1	1	Left Side	10mm	0.653	0.536	0.339	0.434	0.43	0.392
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	27	57	87	117	3
	N7_Ant 2	20M-BPSK	Full power	507000	2535	50	28	Left Side	10mm	0.761	0.088	0.187	0.39	0.349	0.138
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	28	58	88	118	4
	N41_Ant 2	100M-BPSK	Full power	509202	2546.01	1	1	Left Side	10mm	0.447	0.098	0.203	0.054	0.342	0.166
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	29	59	89	119	5
	N41(HPUE)_Ant 2	100M-BPSK	Full power	509202	2546.01	1	1	Left Side	10mm	0.652	0.091	0.215	0.052	0.282	0.185



RF exposure position-Ant 3											Impedance				
											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)	0	30	60	90	120
WWAN_Ant 3 Head	CDMA2000 BC1	RC3-SOSS	Full power	1175	1908.75	N/A	N/A	Right Cheek	0mm	0.342	0	0.099	0.167	0	0.187
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	1	31	61	91	121
	WCDMA IV	RMC 12.2Kbps	Full power	1513	1752.6	N/A	N/A	Right Cheek	0mm	0.278	0.046	0.12	0.172	0.045	0.179
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	2	32	62	92	122
	WCDMA II	RMC 12.2Kbps	Full power	9538	1907.6	N/A	N/A	Right Cheek	0mm	0.329	0.093	0.168	0.213	0.095	0.266
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	3	33	63	93	123
	LTE Band 66	20M-QPSK	Full power	132572	1770	1	0	Left Cheek	0mm	0.261	0.044	0.069	0	0	0.117
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	4	34	64	94	124
	LTE Band 25	20M-QPSK	Full power	26590	1905	1	0	Left Cheek	0mm	0.273	0.071	0.096	0.07	0.071	0.173
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	5	35	65	95	125
	LTE Band 30	10M-QPSK	Full power	27710	2310	1	25	Left Cheek	0mm	0.329	0.206	0.189	0.192	0.168	0.116
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	6	36	66	96	126
	LTE Band 7	20M-QPSK	Full power	20850	2510	1	99	Left Cheek	0mm	0.359	0.145	0.174	0.132	0.095	0.062
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	7	37	67	97	127
	LTE Band 41	20M-QPSK	Full power	39790	2510	1	49	Left Cheek	0mm	0.213	0.074	0.093	0.07	0.05	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	8	38	68	98	128
	LTE Band 41-HPUE	20M-QPSK	Full power	39750	2506	1	99	Left Cheek	0mm	0.222	0.066	0.084	0.064	0.055	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	9	39	69	99	129
	N6_Ant 3	20M-BPSK	Full power	344000	1720	50	28	Right Cheek	0mm	0.179	0.053	0.096	0.152	0	0.072
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	10	40	70	100	130
	N2_Ant 3	20M-BPSK	Full power	376000	1880	50	28	Right Cheek	0mm	0.262	0.061	0.157	0.188	0.064	0.153
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	11	41	71	101	131
	N25_Ant 3	20M-BPSK	Full power	376500	1882.5	1	1	Right Cheek	0mm	0.259	0.081	0.143	0.166	0.076	0.135
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	12	42	72	102	132
N7_Ant 3	20M-BPSK	Full power	512000	2560	1	1	Right Cheek	0mm	0.251	0.108	0.092	0.097	0.073	0.083	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	13	43	73	103	133	
N41_Ant 3	100M-BPSK	Full power	509202	2546.01	1	1	Left Cheek	0mm	0.321	0.222	0.204	0.219	0.17	0.193	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	14	44	74	104	134	
N41(HPUE)_Ant 3	100M-BPSK	Full power	509202	2546.01	1	1	Left Cheek	0mm	0.355	0.213	0.212	0.219	0.186	0.205	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	15	45	75	105	135	
WWAN_Ant 3 Body	CDMA2000 BC1	RTAP-153.6Kbps	Hotspot on	1175	1908.75	N/A	N/A	Bottom Side	10mm	0.91	0.765	0.389	0.572	0.749	0.277
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	16	46	76	106	136
	WCDMA IV	RMC 12.2Kbps	Hotspot on	1413	1732.6	N/A	N/A	Bottom Side	10mm	0.772	0.628	0.462	0.482	0.616	0.246
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	17	47	77	107	137
	WCDMA II	RMC 12.2Kbps	Hotspot on	9538	1907.6	N/A	N/A	Bottom Side	10mm	0.785	0.715	0.603	0.607	0.705	0.509
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	18	48	78	108	138
	LTE Band 66	20M-QPSK	Hotspot on	132572	1770	1	0	Bottom Side	10mm	0.598	0.07	0.501	0.45	0.124	0.369
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	19	49	79	109	139
	LTE Band 25	20M-QPSK	Hotspot on	26590	1905	50	24	Bottom Side	10mm	0.788	0.135	0.668	0.580	0.3	0.603
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	20	50	80	110	140
	LTE Band 30	10M-QPSK	Hotspot on	27710	2310	25	25	Bottom Side	10mm	0.625	0.369	0.425	0.54	0.523	0.457
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	21	51	81	111	141
	LTE Band 7	20M-QPSK	Hotspot on	20850	2510	50	50	Bottom Side	10mm	0.858	0.31	0.483	0.617	0.553	0.479
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	22	52	82	112	142
	LTE Band 41	20M-QPSK	Hotspot on	41055	2636.5	50	50	Bottom Side	10mm	0.909	0.196	0.275	0.452	0.286	0.282
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	23	53	83	113	143
	LTE Band 41-HPUE	20M-QPSK	Hotspot on	41055	2636.5	1	99	Bottom Side	10mm	0.98	0.135	0.168	0.241	0.181	0.188
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	24	54	84	114	0
	N6_Ant 3	20M-BPSK	Hotspot on	354000	1770	50	28	Bottom Side	10mm	0.761	0.298	0.123	0.585	0.583	0.132
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	25	55	85	115	1
	N2_Ant 3	20M-BPSK	Hotspot on	376000	1880	50	28	Bottom Side	10mm	0.786	0.426	0.245	0.709	0.776	0.22
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	26	56	86	116	2
	N25_Ant 3	20M-BPSK	Hotspot on	381000	1905	50	28	Bottom Side	10mm	0.849	0.526	0.398	0.766	0.848	0.346
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	27	57	87	117	3
	N7_Ant 3	20M-BPSK	Hotspot on	512000	2560	1	1	Bottom Side	10mm	0.739	0.253	0.321	0.407	0.584	0.432
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	28	58	88	118	4
	N41_Ant 3	100M-BPSK	Hotspot on	510000	2550	1	1	Bottom Side	10mm	0.85	0.313	0.375	0.456	0.637	0.474
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	29	59	89	119	5
	N41-HPUE_Ant 3	100M-BPSK	Hotspot on	510000	2550	1	1	Bottom Side	10mm	0.85	0.355	0.409	0.438	0.534	0.466