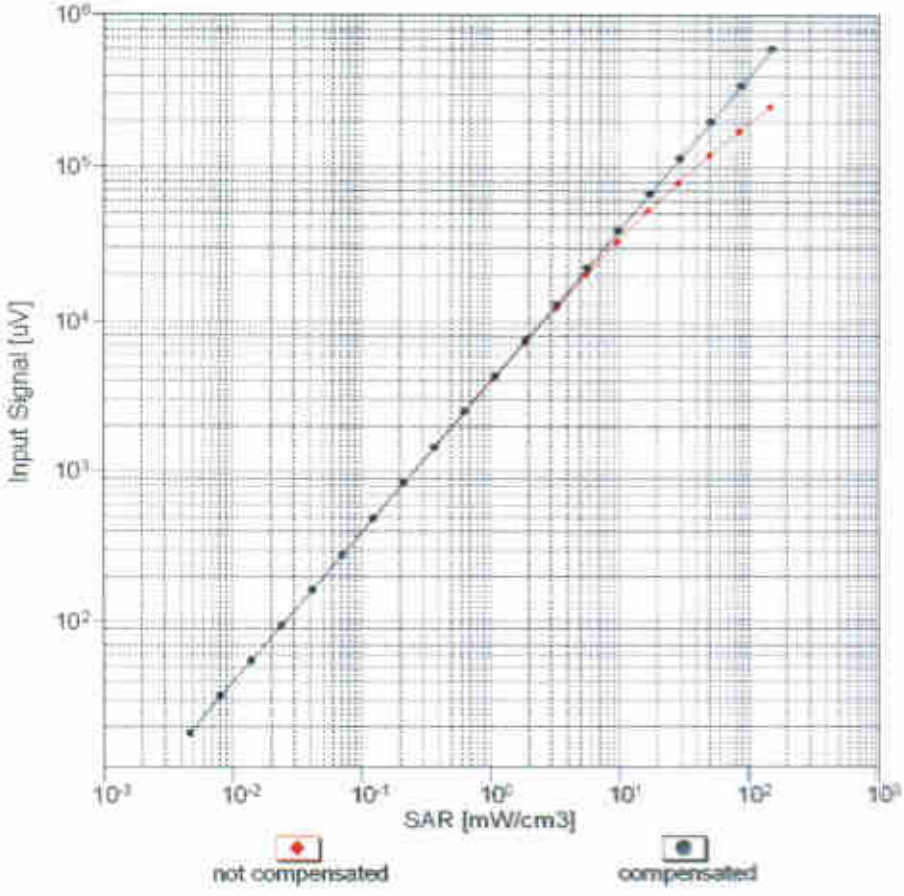
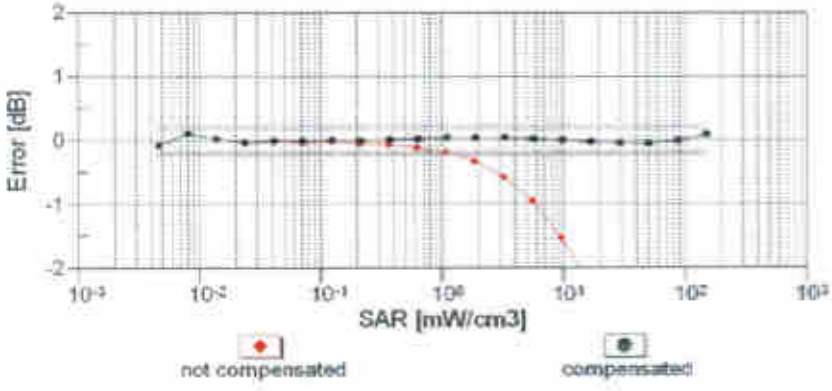
Dynamic Range f(SAR$_{head}$)

(TEM cell , f_{eval}= 1900 MHz)

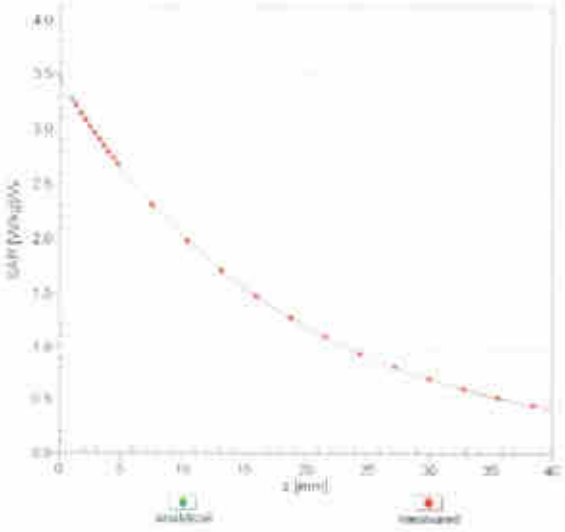




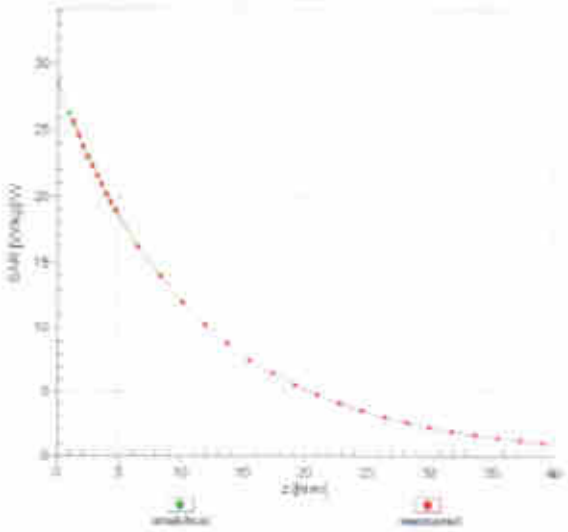
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment

f = 835 MHz,WGLS R9 (H_convF)

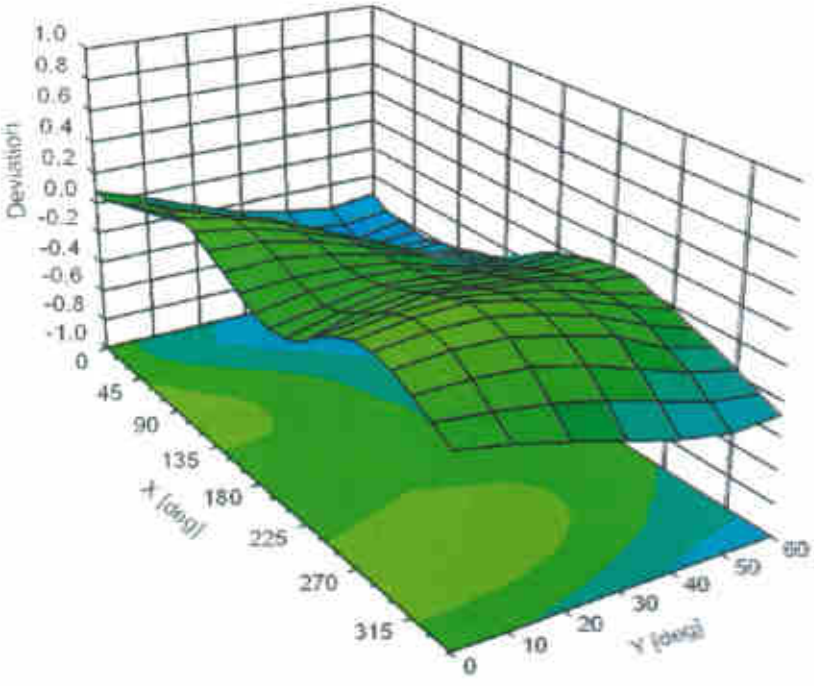


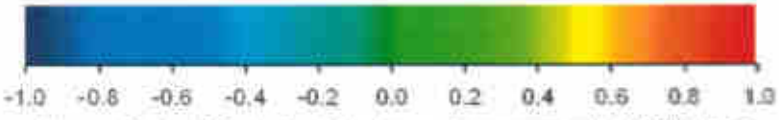
f = 1900 MHz,WGLS R22 (H_convF)



Deviation from Isotropy in Liquid

Error (ϕ, ϑ), f = 900 MHz





Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2

Appendix E. Conducted RF Output Power Table

The detailed power tables are shown as follows.

Full Power 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	31.75	31.64	31.58	32.50	22.75	22.64	22.58	23.50
GPRS 1 Tx slot	31.72	31.62	31.56	32.50	22.72	22.62	22.56	23.50
GPRS 2 Tx slots	30.09	30.11	29.93	31.00	24.09	24.11	23.93	25.00
GPRS 3 Tx slots	28.73	28.52	28.76	29.30	24.47	24.26	24.50	25.04
GPRS 4 Tx slots	27.99	27.75	27.87	28.30	24.99	24.75	24.87	25.30
EDGE 1 Tx slot	25.64	25.56	25.64	26.50	16.64	16.56	16.64	17.50
EDGE 2 Tx slots	24.12	23.93	24.19	25.00	18.12	17.93	18.19	19.00
EDGE 3 Tx slots	23.38	23.12	23.22	24.00	19.12	18.86	18.96	19.74
EDGE 4 Tx slots	22.76	22.37	22.63	23.50	19.76	19.37	19.63	20.50

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	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	28.87	29.08	28.81	30.00	19.87	20.08	19.81	21.00
GPRS 1 Tx slot	28.86	29.07	28.80	30.00	19.86	20.07	19.80	21.00
GPRS 2 Tx slots	25.95	25.90	26.23	27.00	19.95	19.90	20.23	21.00
GPRS 3 Tx slots	24.87	24.51	25.01	26.00	20.61	20.25	20.75	21.74
GPRS 4 Tx slots	24.26	23.88	24.20	25.00	21.26	20.88	21.20	22.00
EDGE 1 Tx slot	24.70	24.39	24.51	25.50	15.70	15.39	15.51	16.50
EDGE 2 Tx slots	23.83	23.50	23.74	24.50	17.83	17.50	17.74	18.50
EDGE 3 Tx slots	22.68	22.36	22.70	23.50	18.42	18.10	18.44	19.24
EDGE 4 Tx slots	22.53	22.15	22.54	23.50	19.53	19.15	19.54	20.50

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	23.60	23.73	23.64	24.00	23.43	23.54	23.42	24.00	24.02	24.03	23.99	24.50
3GPP Rel 99	RMC 12.2Kbps	23.62	23.75	23.65	24.00	23.45	23.56	23.44	24.00	24.03	24.05	24.01	24.50
3GPP Rel 6	HSDPA Subtest-1	22.61	22.81	22.65	23.00	22.42	22.57	22.46	23.00	23.02	23.03	23.07	23.50
3GPP Rel 6	HSDPA Subtest-2	22.69	22.83	22.64	23.00	22.44	22.60	22.48	23.00	22.99	23.03	23.10	23.50
3GPP Rel 6	HSDPA Subtest-3	22.17	22.26	22.16	22.50	21.94	22.06	21.99	22.50	22.48	22.56	22.56	23.00
3GPP Rel 6	HSDPA Subtest-4	22.15	22.34	22.16	22.50	21.94	22.08	21.95	22.50	22.50	22.55	22.52	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	22.58	22.62	22.55	23.00	22.33	22.45	22.37	23.00	22.89	22.90	22.92	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	22.62	22.66	22.60	23.00	22.35	22.44	22.39	23.00	22.91	22.92	22.95	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	22.08	22.12	22.10	22.50	21.98	22.12	22.05	22.50	22.36	22.41	22.47	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	22.10	22.08	22.12	22.50	21.97	22.10	22.04	22.50	22.31	22.37	22.33	23.00
3GPP Rel 6	HSUPA Subtest-1	22.65	22.81	22.71	23.00	22.44	22.61	22.47	23.00	22.98	23.06	23.06	23.50
3GPP Rel 6	HSUPA Subtest-2	20.69	20.80	20.65	21.00	20.44	20.66	20.48	21.00	20.96	21.03	21.02	21.50
3GPP Rel 6	HSUPA Subtest-3	20.63	20.81	20.69	21.00	20.46	20.59	20.50	21.00	22.00	22.04	22.01	22.50
3GPP Rel 6	HSUPA Subtest-4	20.62	20.81	20.68	21.00	20.44	20.56	20.49	21.00	20.99	21.05	21.00	21.50
3GPP Rel 6	HSUPA Subtest-5	22.60	22.80	22.70	23.00	22.50	22.70	22.50	23.00	22.50	22.90	22.90	23.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.24	20.36	20.29	20.50	20.17	20.25	20.15	20.50	20.45	20.51	20.46	21.00

Band 2 (1900MHz Band)
Part 24E

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100		
Frequency (MHz)				1850	1880	1900		
20	QPSK	1	0	22.25	22.37	22.35	23.5	0
20	QPSK	1	49	22.24	22.30	22.23		
20	QPSK	1	99	22.16	22.20	22.17		
20	QPSK	50	0	21.35	21.41	21.37	22.5	1
20	QPSK	50	24	21.40	21.45	21.42		
20	QPSK	50	50	21.39	21.43	21.41		
20	QPSK	100	0	21.37	21.42	21.37		
20	16QAM	1	0	21.60	21.71	21.71	22.5	1
20	16QAM	1	49	21.59	21.68	21.60		
20	16QAM	1	99	21.50	21.59	21.43		
20	16QAM	50	0	20.30	20.35	20.32	21.5	2
20	16QAM	50	24	20.38	20.36	20.33		
20	16QAM	50	50	20.34	20.38	20.39		
20	16QAM	100	0	20.35	20.31	20.27		
20	64QAM	1	0	20.35	20.55	20.44	21.5	2
20	64QAM	1	49	20.47	20.46	20.43		
20	64QAM	1	99	20.43	20.42	20.36		
20	64QAM	50	0	19.28	19.38	19.33	20.5	3
20	64QAM	50	24	19.37	19.41	19.35		
20	64QAM	50	50	19.36	19.45	19.41		
20	64QAM	100	0	19.35	19.34	19.31		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	22.20	22.36	22.29	23.5	0
15	QPSK	1	37	22.25	22.28	22.28		
15	QPSK	1	74	22.22	22.26	22.19		
15	QPSK	36	0	21.25	21.35	21.31	22.5	1
15	QPSK	36	20	21.39	21.45	21.42		
15	QPSK	36	39	21.36	21.39	21.36		
15	QPSK	75	0	21.34	21.31	21.31		
15	16QAM	1	0	21.65	21.64	21.66	22.5	1
15	16QAM	1	37	21.63	21.68	21.65		
15	16QAM	1	74	21.55	21.59	21.52		
15	16QAM	36	0	20.29	20.34	20.31	21.5	2
15	16QAM	36	20	20.40	20.45	20.39		
15	16QAM	36	39	20.38	20.45	20.35		
15	16QAM	75	0	20.37	20.33	20.30		
15	64QAM	1	0	20.53	20.54	20.47	21.5	2
15	64QAM	1	37	20.28	20.43	20.45		
15	64QAM	1	74	20.49	20.45	20.27		
15	64QAM	36	0	19.32	19.34	19.36	20.5	3
15	64QAM	36	20	19.41	19.47	19.46		
15	64QAM	36	39	19.38	19.51	19.37		
15	64QAM	75	0	19.42	19.37	19.34		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	22.16	22.20	22.31	23.5	0
10	QPSK	1	25	22.21	22.29	22.22		
10	QPSK	1	49	22.14	22.26	22.21		
10	QPSK	25	0	21.22	21.30	21.30	22.5	1
10	QPSK	25	12	21.29	21.33	21.30		
10	QPSK	25	25	21.35	21.45	21.38		
10	QPSK	50	0	21.30	21.36	21.31		
10	16QAM	1	0	21.63	21.58	21.65	22.5	1
10	16QAM	1	25	21.63	21.65	21.60		
10	16QAM	1	49	21.66	21.62	21.57		
10	16QAM	25	0	20.25	20.35	20.29	21.5	2
10	16QAM	25	12	20.27	20.37	20.34		
10	16QAM	25	25	20.31	20.42	20.36		
10	16QAM	50	0	20.28	20.34	20.30		
10	64QAM	1	0	20.21	20.38	20.26	21.5	2
10	64QAM	1	25	20.33	20.42	20.28		
10	64QAM	1	49	20.21	20.62	20.26		
10	64QAM	25	0	19.37	19.38	19.34	20.5	3
10	64QAM	25	12	19.48	19.41	19.37		
10	64QAM	25	25	19.47	19.48	19.49		
10	64QAM	50	0	19.27	19.40	19.29		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	22.25	22.25	22.19	23.5	0
5	QPSK	1	12	22.21	22.35	22.27		
5	QPSK	1	24	22.27	22.35	22.28		
5	QPSK	12	0	21.30	21.32	21.26	22.5	1
5	QPSK	12	7	21.32	21.46	21.38		
5	QPSK	12	13	21.36	21.39	21.34		
5	QPSK	25	0	21.31	21.33	21.31		
5	16QAM	1	0	21.53	21.63	21.50	22.5	1
5	16QAM	1	12	21.55	21.63	21.60		
5	16QAM	1	24	21.57	21.71	21.59		
5	16QAM	12	0	20.33	20.34	20.33	21.5	2
5	16QAM	12	7	20.35	20.45	20.39		
5	16QAM	12	13	20.34	20.41	20.34		
5	16QAM	25	0	20.29	20.38	20.32		
5	64QAM	1	0	20.49	20.54	20.55	21.5	2
5	64QAM	1	12	20.52	20.62	20.54		
5	64QAM	1	24	20.55	20.76	20.55		
5	64QAM	12	0	19.45	19.48	19.41	20.5	3
5	64QAM	12	7	19.39	19.59	19.37		
5	64QAM	12	13	19.41	19.44	19.39		
5	64QAM	25	0	19.26	19.30	19.20		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	22.24	22.25	22.22	23.5	0
3	QPSK	1	8	22.28	22.36	22.31		
3	QPSK	1	14	22.23	22.33	22.23		
3	QPSK	8	0	21.30	21.36	21.32	22.5	1
3	QPSK	8	4	21.32	21.44	21.39		
3	QPSK	8	7	21.32	21.41	21.34		
3	QPSK	15	0	21.25	21.43	21.37		
3	16QAM	1	0	21.58	21.63	21.59	22.5	1
3	16QAM	1	8	21.60	21.71	21.65		
3	16QAM	1	14	21.58	21.73	21.65		
3	16QAM	8	0	20.35	20.38	20.38	21.5	2
3	16QAM	8	4	20.35	20.49	20.41		
3	16QAM	8	7	20.33	20.45	20.43		
3	16QAM	15	0	20.32	20.43	20.38		
3	64QAM	1	0	20.50	20.28	20.39	21.5	2
3	64QAM	1	8	20.65	20.68	20.41		
3	64QAM	1	14	20.59	20.55	20.41		
3	64QAM	8	0	19.55	19.42	19.36	20.5	3
3	64QAM	8	4	19.48	19.44	19.35		
3	64QAM	8	7	19.46	19.49	19.35		
3	64QAM	15	0	19.31	19.54	19.33		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	22.15	22.23	22.14	23.5	0
1.4	QPSK	1	3	22.22	22.32	22.23		
1.4	QPSK	1	5	21.96	22.25	22.17		
1.4	QPSK	3	0	22.16	22.27	22.15		
1.4	QPSK	3	1	22.16	22.32	22.24		
1.4	QPSK	3	3	22.17	22.27	22.19		
1.4	QPSK	6	0	21.22	21.35	21.26	22.5	1
1.4	16QAM	1	0	21.41	21.55	21.49	22.5	1
1.4	16QAM	1	3	21.57	21.70	21.57		
1.4	16QAM	1	5	21.45	21.63	21.46		
1.4	16QAM	3	0	21.22	21.30	21.30		
1.4	16QAM	3	1	21.27	21.36	21.30		
1.4	16QAM	3	3	21.21	21.31	21.26		
1.4	16QAM	6	0	20.32	20.41	20.38	21.5	2
1.4	64QAM	1	0	20.18	20.31	20.50	21.5	2
1.4	64QAM	1	3	20.55	20.63	20.57		
1.4	64QAM	1	5	20.52	20.64	20.46		
1.4	64QAM	3	0	20.45	20.54	20.43		
1.4	64QAM	3	1	20.52	20.63	20.48		
1.4	64QAM	3	3	20.44	20.59	20.42		
1.4	64QAM	6	0	19.16	19.27	19.18	20.5	3

Band 4 (AWS Band)
Part 27L (only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	22.25	22.36	22.30	23.5	0
20	QPSK	1	49	22.14	22.12	22.04		
20	QPSK	1	99	22.06	22.06	21.96		
20	QPSK	50	0	21.33	21.36	21.24	22.5	1
20	QPSK	50	24	21.36	21.37	21.29		
20	QPSK	50	50	21.24	21.23	21.15		
20	QPSK	100	0	21.28	21.30	21.18		
20	16QAM	1	0	21.55	21.60	21.59	22.5	1
20	16QAM	1	49	21.51	21.49	21.40		
20	16QAM	1	99	21.47	21.27	21.29		
20	16QAM	50	0	20.29	20.33	20.26	21.5	2
20	16QAM	50	24	20.35	20.27	20.17		
20	16QAM	50	50	20.22	20.18	20.13		
20	16QAM	100	0	20.29	20.24	20.13		
20	64QAM	1	0	20.35	20.39	20.43	21.5	2
20	64QAM	1	49	20.19	20.28	20.27		
20	64QAM	1	99	20.19	20.28	20.24		
20	64QAM	50	0	19.19	19.27	19.28	20.5	3
20	64QAM	50	24	19.18	19.22	19.18		
20	64QAM	50	50	19.12	19.19	19.16		
20	64QAM	100	0	19.19	19.21	19.11		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	22.31	22.33	22.31	23.5	0
15	QPSK	1	37	22.13	22.17	22.00		
15	QPSK	1	74	22.11	22.10	21.96		
15	QPSK	36	0	21.26	21.29	21.22	22.5	1
15	QPSK	36	20	21.29	21.22	21.22		
15	QPSK	36	39	21.21	21.23	21.14		
15	QPSK	75	0	21.28	21.21	21.22		
15	16QAM	1	0	21.55	21.66	21.58	22.5	1
15	16QAM	1	37	21.51	21.46	21.41		
15	16QAM	1	74	21.35	21.40	21.33		
15	16QAM	36	0	20.27	20.31	20.22	21.5	2
15	16QAM	36	20	20.27	20.22	20.20		
15	16QAM	36	39	20.23	20.20	20.10		
15	16QAM	75	0	20.30	20.23	20.23		
15	64QAM	1	0	20.34	20.56	20.54	21.5	2
15	64QAM	1	37	20.38	20.47	20.45		
15	64QAM	1	74	20.17	20.33	20.20		
15	64QAM	36	0	19.17	19.38	19.16	20.5	3
15	64QAM	36	20	19.19	19.42	19.09		
15	64QAM	36	39	19.13	19.14	19.13		
15	64QAM	75	0	19.22	19.16	19.25		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	22.18	22.21	22.12	23.5	0
10	QPSK	1	25	22.14	22.17	22.05		
10	QPSK	1	49	22.14	22.12	22.00		
10	QPSK	25	0	21.17	21.24	21.10	22.5	1
10	QPSK	25	12	21.30	21.23	21.15		
10	QPSK	25	25	21.28	21.29	21.19		
10	QPSK	50	0	21.28	21.23	21.11		
10	16QAM	1	0	21.48	21.54	21.50	22.5	1
10	16QAM	1	25	21.51	21.55	21.46		
10	16QAM	1	49	21.52	21.45	21.42		
10	16QAM	25	0	20.14	20.17	20.15	21.5	2
10	16QAM	25	12	20.28	20.22	20.16		
10	16QAM	25	25	20.25	20.30	20.16		
10	16QAM	50	0	20.27	20.18	20.07		
10	64QAM	1	0	20.41	20.29	20.23	21.5	2
10	64QAM	1	25	20.16	20.59	20.37		
10	64QAM	1	49	20.13	20.49	20.53		
10	64QAM	25	0	19.18	19.19	19.24	20.5	3
10	64QAM	25	12	19.23	19.31	19.19		
10	64QAM	25	25	19.22	19.41	19.20		
10	64QAM	50	0	19.23	19.12	19.10		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	22.09	22.13	22.04	23.5	0
5	QPSK	1	12	22.21	22.25	22.10		
5	QPSK	1	24	22.20	22.22	22.08		
5	QPSK	12	0	21.18	21.22	21.10	22.5	1
5	QPSK	12	7	21.25	21.24	21.18		
5	QPSK	12	13	21.29	21.29	21.12		
5	QPSK	25	0	21.23	21.24	21.08		
5	16QAM	1	0	21.37	21.42	21.37	22.5	1
5	16QAM	1	12	21.44	21.49	21.42		
5	16QAM	1	24	21.48	21.53	21.37		
5	16QAM	12	0	20.21	20.26	20.12	21.5	2
5	16QAM	12	7	20.29	20.31	20.23		
5	16QAM	12	13	20.26	20.31	20.16		
5	16QAM	25	0	20.24	20.21	20.08		
5	64QAM	1	0	20.22	20.30	20.26	21.5	2
5	64QAM	1	12	20.29	20.56	20.43		
5	64QAM	1	24	20.35	20.42	20.28		
5	64QAM	12	0	19.14	19.28	19.10	20.5	3
5	64QAM	12	7	19.21	19.26	19.20		
5	64QAM	12	13	19.16	19.32	19.10		
5	64QAM	25	0	19.13	19.30	19.10		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	22.08	22.15	22.05	23.5	0
3	QPSK	1	8	22.23	22.26	22.10		
3	QPSK	1	14	22.22	22.21	22.06		
3	QPSK	8	0	21.23	21.19	21.15	22.5	1
3	QPSK	8	4	21.25	21.21	21.17		
3	QPSK	8	7	21.27	21.28	21.10		
3	QPSK	15	0	21.24	21.22	21.14		
3	16QAM	1	0	21.38	21.44	21.37	22.5	1
3	16QAM	1	8	21.52	21.54	21.52		
3	16QAM	1	14	21.49	21.53	21.39		
3	16QAM	8	0	20.29	20.26	20.21	21.5	2
3	16QAM	8	4	20.35	20.35	20.24		
3	16QAM	8	7	20.31	20.38	20.17		
3	16QAM	15	0	20.28	20.25	20.16		
3	64QAM	1	0	20.22	20.51	20.36	21.5	2
3	64QAM	1	8	20.20	20.55	20.54		
3	64QAM	1	14	20.22	20.53	20.42		
3	64QAM	8	0	19.13	19.24	19.17	20.5	3
3	64QAM	8	4	19.17	19.25	18.92		
3	64QAM	8	7	19.38	19.31	19.14		
3	64QAM	15	0	19.13	19.30	19.17		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	21.99	22.11	21.93	23.5	0
1.4	QPSK	1	3	22.14	22.14	22.01		
1.4	QPSK	1	5	22.06	22.08	21.95		
1.4	QPSK	3	0	22.07	22.14	21.99		
1.4	QPSK	3	1	22.11	22.20	22.07		
1.4	QPSK	3	3	22.07	22.18	21.99		
1.4	QPSK	6	0	21.17	21.18	21.05	22.5	1
1.4	16QAM	1	0	21.27	21.44	21.29	22.5	1
1.4	16QAM	1	3	21.36	21.49	21.36		
1.4	16QAM	1	5	21.37	21.44	21.30		
1.4	16QAM	3	0	21.20	21.24	21.08		
1.4	16QAM	3	1	21.23	21.26	21.12		
1.4	16QAM	3	3	21.18	21.24	21.05		
1.4	16QAM	6	0	20.24	20.30	20.12	21.5	2
1.4	64QAM	1	0	20.15	20.33	20.11	21.5	2
1.4	64QAM	1	3	20.19	20.42	20.21		
1.4	64QAM	1	5	20.36	20.16	20.03		
1.4	64QAM	3	0	20.08	20.30	20.03		
1.4	64QAM	3	1	20.16	20.23	20.12		
1.4	64QAM	3	3	20.08	20.15	20.09		
1.4	64QAM	6	0	19.21	19.09	18.98	20.5	3

Band 5 (Cellular Band)
Part 22H(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				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	22.87	22.85	22.86	23.5	0
10	QPSK	1	25	22.78	22.77	22.80		
10	QPSK	1	49	22.76	22.81	22.80		
10	QPSK	25	0	21.91	21.91	21.91	22.5	1
10	QPSK	25	12	22.00	21.92	21.95		
10	QPSK	25	25	21.95	21.90	21.94		
10	QPSK	50	0	21.99	21.88	21.91		
10	16QAM	1	0	22.14	22.12	22.16	22.5	1
10	16QAM	1	25	22.08	22.11	22.12		
10	16QAM	1	49	22.03	22.05	22.03		
10	16QAM	25	0	20.79	20.81	20.82	21.5	2
10	16QAM	25	12	20.90	20.80	20.81		
10	16QAM	25	25	20.84	20.84	20.83		
10	16QAM	50	0	20.89	20.79	20.82		
10	64QAM	1	0	20.89	20.88	20.98	21.5	2
10	64QAM	1	25	20.91	20.97	21.01		
10	64QAM	1	49	20.93	20.93	20.91		
10	64QAM	25	0	19.75	19.77	19.78	20.5	3
10	64QAM	25	12	19.83	19.75	19.81		
10	64QAM	25	25	19.79	19.81	19.82		
10	64QAM	50	0	19.79	19.75	19.80		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	22.80	22.81	22.79	23.5	0
5	QPSK	1	12	22.79	22.80	22.81		
5	QPSK	1	24	22.73	22.73	22.70		
5	QPSK	12	0	21.83	21.82	21.80	22.5	1
5	QPSK	12	7	21.90	21.80	21.85		
5	QPSK	12	13	21.82	21.82	21.80		
5	QPSK	25	0	21.88	21.77	21.79		
5	16QAM	1	0	22.13	22.08	22.09	22.5	1
5	16QAM	1	12	22.10	22.06	22.05		
5	16QAM	1	24	22.04	22.07	21.95		
5	16QAM	12	0	20.88	20.85	20.84	21.5	2
5	16QAM	12	7	20.88	20.81	20.87		
5	16QAM	12	13	20.83	20.85	20.79		
5	16QAM	25	0	20.89	20.79	20.80		
5	64QAM	1	0	20.93	20.96	21.05	21.5	2
5	64QAM	1	12	20.92	20.93	20.99		
5	64QAM	1	24	20.89	20.99	20.94		
5	64QAM	12	0	19.84	19.83	19.84	20.5	3
5	64QAM	12	7	19.86	19.80	19.88		
5	64QAM	12	13	19.80	19.82	19.82		
5	64QAM	25	0	19.77	19.77	19.78		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	22.77	22.77	22.75	23.5	0
3	QPSK	1	8	22.84	22.79	22.85		
3	QPSK	1	14	22.73	22.73	22.71		
3	QPSK	8	0	21.86	21.80	21.80	22.5	1
3	QPSK	8	4	21.85	21.80	21.86		
3	QPSK	8	7	21.83	21.79	21.83		
3	QPSK	15	0	21.85	21.76	21.83		
3	16QAM	1	0	22.05	22.05	22.09	22.5	1
3	16QAM	1	8	22.11	22.07	22.05		
3	16QAM	1	14	22.01	21.97	21.99		
3	16QAM	8	0	20.94	20.87	20.88	21.5	2
3	16QAM	8	4	20.93	20.85	20.92		
3	16QAM	8	7	20.87	20.87	20.86		
3	16QAM	15	0	20.90	20.79	20.87		
3	64QAM	1	0	20.91	20.94	20.95	21.5	2
3	64QAM	1	8	20.98	20.98	21.04		
3	64QAM	1	14	20.86	20.92	20.91		
3	64QAM	8	0	19.83	19.77	19.80	20.5	3
3	64QAM	8	4	19.84	19.77	19.88		
3	64QAM	8	7	19.77	19.75	19.81		
3	64QAM	15	0	19.78	19.75	19.82		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	22.66	22.60	22.68	23.5	0
1.4	QPSK	1	3	22.71	22.73	22.72		
1.4	QPSK	1	5	22.63	22.62	22.63		
1.4	QPSK	3	0	22.73	22.63	22.70		
1.4	QPSK	3	1	22.75	22.65	22.76		
1.4	QPSK	3	3	22.72	22.69	22.66		
1.4	QPSK	6	0	21.74	21.68	21.72	22.5	1
1.4	16QAM	1	0	21.94	21.97	22.05	22.5	1
1.4	16QAM	1	3	22.03	22.09	22.07		
1.4	16QAM	1	5	21.96	21.95	21.97		
1.4	16QAM	3	0	21.82	21.71	21.75		
1.4	16QAM	3	1	21.85	21.75	21.81		
1.4	16QAM	3	3	21.80	21.73	21.70		
1.4	16QAM	6	0	20.86	20.77	20.84	21.5	2
1.4	64QAM	1	0	20.82	20.80	20.89	21.5	2
1.4	64QAM	1	3	20.92	20.92	20.95		
1.4	64QAM	1	5	20.81	20.83	20.82		
1.4	64QAM	3	0	20.83	20.78	20.86		
1.4	64QAM	3	1	20.83	20.81	20.89		
1.4	64QAM	3	3	20.79	20.79	20.82		
1.4	64QAM	6	0	19.74	19.67	19.74	20.5	3

Band 7 (2600MHz Band)
Part 27

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	22.51	22.41	22.35	23.5	0
20	QPSK	1	49	22.48	22.40	22.33		
20	QPSK	1	99	22.44	22.34	22.29		
20	QPSK	50	0	21.63	21.54	21.53	22.5	1
20	QPSK	50	24	21.71	21.55	21.59		
20	QPSK	50	50	21.67	21.48	21.54		
20	QPSK	100	0	21.70	21.51	21.59		
20	16QAM	1	0	21.82	21.76	21.77	22.5	1
20	16QAM	1	49	21.84	21.77	21.72		
20	16QAM	1	99	21.74	21.74	21.75		
20	16QAM	50	0	20.61	20.50	20.54	21.5	2
20	16QAM	50	24	20.69	20.52	20.59		
20	16QAM	50	50	20.68	20.47	20.48		
20	16QAM	100	0	20.64	20.49	20.49		
20	64QAM	1	0	20.44	20.49	20.54	21.5	2
20	64QAM	1	49	20.46	20.58	20.56		
20	64QAM	1	99	20.55	20.55	20.37		
20	64QAM	50	0	19.46	19.50	19.52	20.5	3
20	64QAM	50	24	19.54	19.55	19.58		
20	64QAM	50	50	19.53	19.52	19.57		
20	64QAM	100	0	19.52	19.49	19.55		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	22.50	22.39	22.23	23.5	0
15	QPSK	1	37	22.46	22.44	22.26		
15	QPSK	1	74	22.48	22.42	22.29		
15	QPSK	36	0	21.65	21.53	21.40	22.5	1
15	QPSK	36	20	21.65	21.54	21.42		
15	QPSK	36	39	21.61	21.50	21.39		
15	QPSK	75	0	21.62	21.49	21.37		
15	16QAM	1	0	21.89	21.72	21.63	22.5	1
15	16QAM	1	37	21.83	21.76	21.60		
15	16QAM	1	74	21.84	21.72	21.56		
15	16QAM	36	0	20.62	20.48	20.38	21.5	2
15	16QAM	36	20	20.61	20.49	20.37		
15	16QAM	36	39	20.64	20.46	20.36		
15	16QAM	75	0	20.64	20.48	20.37		
15	64QAM	1	0	20.58	20.62	20.61	21.5	2
15	64QAM	1	37	20.85	20.70	20.53		
15	64QAM	1	74	20.79	20.69	20.72		
15	64QAM	36	0	19.49	19.69	19.38	20.5	3
15	64QAM	36	20	19.49	19.59	19.45		
15	64QAM	36	39	19.49	19.58	19.39		
15	64QAM	75	0	19.52	19.50	19.38		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	22.47	22.33	22.09	23.5	0
10	QPSK	1	25	22.41	22.33	22.17		
10	QPSK	1	49	22.47	22.30	22.15		
10	QPSK	25	0	21.64	21.45	21.37	22.5	1
10	QPSK	25	12	21.67	21.50	21.38		
10	QPSK	25	25	21.63	21.42	21.34		
10	QPSK	50	0	21.66	21.44	21.37		
10	16QAM	1	0	21.79	21.75	21.56	22.5	1
10	16QAM	1	25	21.79	21.74	21.53		
10	16QAM	1	49	21.79	21.74	21.59		
10	16QAM	25	0	20.60	20.45	20.34	21.5	2
10	16QAM	25	12	20.69	20.48	20.37		
10	16QAM	25	25	20.62	20.44	20.32		
10	16QAM	50	0	20.62	20.45	20.37		
10	64QAM	1	0	20.38	20.44	20.37	21.5	2
10	64QAM	1	25	20.42	20.55	20.32		
10	64QAM	1	49	20.35	20.33	20.55		
10	64QAM	25	0	19.40	19.49	19.30	20.5	3
10	64QAM	25	12	19.49	19.49	19.41		
10	64QAM	25	25	19.49	19.57	19.40		
10	64QAM	50	0	19.35	19.40	19.45		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	22.43	22.34	22.17	23.5	0
5	QPSK	1	12	22.44	22.36	22.23		
5	QPSK	1	24	22.50	22.39	22.24		
5	QPSK	12	0	21.64	21.45	21.33	22.5	1
5	QPSK	12	7	21.64	21.54	21.32		
5	QPSK	12	13	21.65	21.54	21.34		
5	QPSK	25	0	21.66	21.46	21.34		
5	16QAM	1	0	21.78	21.62	21.56	22.5	1
5	16QAM	1	12	21.82	21.65	21.52		
5	16QAM	1	24	21.83	21.69	21.56		
5	16QAM	12	0	20.72	20.46	20.38	21.5	2
5	16QAM	12	7	20.64	20.52	20.33		
5	16QAM	12	13	20.65	20.52	20.33		
5	16QAM	25	0	20.64	20.46	20.33		
5	64QAM	1	0	20.63	20.46	20.35	21.5	2
5	64QAM	1	12	20.41	20.51	20.43		
5	64QAM	1	24	20.46	20.52	20.39		
5	64QAM	12	0	19.41	19.48	19.39	20.5	3
5	64QAM	12	7	19.45	19.52	19.43		
5	64QAM	12	13	19.38	19.55	19.40		
5	64QAM	25	0	19.38	19.49	19.38		

Band 12 (700MHz Low Band)
Part 27F(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	22.68	22.68	22.75	23.5	0
10	QPSK	1	25	22.73	22.76	22.72		
10	QPSK	1	49	22.77	22.77	22.81		
10	QPSK	25	0	21.88	21.90	21.89	22.5	1
10	QPSK	25	12	21.95	21.94	21.97		
10	QPSK	25	25	21.93	21.92	21.96		
10	QPSK	50	0	21.93	21.91	21.95		
10	16QAM	1	0	22.01	21.99	22.01	22.5	1
10	16QAM	1	25	22.03	22.05	22.05		
10	16QAM	1	49	22.09	22.06	22.06		
10	16QAM	25	0	20.83	20.82	20.81	21.5	2
10	16QAM	25	12	20.86	20.77	20.88		
10	16QAM	25	25	20.80	20.80	20.81		
10	16QAM	50	0	20.87	20.82	20.87		
10	64QAM	1	0	20.79	20.82	20.78	21.5	2
10	64QAM	1	25	20.95	20.98	20.90		
10	64QAM	1	49	20.99	20.96	20.95		
10	64QAM	25	0	19.82	19.82	19.82	20.5	3
10	64QAM	25	12	19.90	19.78	19.93		
10	64QAM	25	25	19.89	19.86	19.87		
10	64QAM	50	0	19.86	19.78	19.86		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	22.70	22.71	22.62	23.5	0
5	QPSK	1	12	22.72	22.70	22.71		
5	QPSK	1	24	22.70	22.72	22.71		
5	QPSK	12	0	21.79	21.84	21.81	22.5	1
5	QPSK	12	7	21.84	21.80	21.84		
5	QPSK	12	13	21.78	21.80	21.81		
5	QPSK	25	0	21.80	21.79	21.83		
5	16QAM	1	0	22.03	22.06	21.96	22.5	1
5	16QAM	1	12	22.05	22.02	22.03		
5	16QAM	1	24	22.05	22.07	22.06		
5	16QAM	12	0	20.83	20.85	20.82	21.5	2
5	16QAM	12	7	20.87	20.81	20.88		
5	16QAM	12	13	20.84	20.84	20.84		
5	16QAM	25	0	20.82	20.81	20.85		
5	64QAM	1	0	20.89	20.96	20.87	21.5	2
5	64QAM	1	12	20.91	20.88	20.87		
5	64QAM	1	24	20.96	20.87	21.01		
5	64QAM	12	0	19.84	19.86	19.85	20.5	3
5	64QAM	12	7	19.87	19.84	19.88		
5	64QAM	12	13	19.85	19.87	19.85		
5	64QAM	25	0	19.80	19.80	19.81		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	22.66	22.72	22.75	23.5	0
3	QPSK	1	8	22.73	22.76	22.75		
3	QPSK	1	14	22.67	22.70	22.69		
3	QPSK	8	0	21.81	21.79	21.80	22.5	1
3	QPSK	8	4	21.82	21.84	21.82		
3	QPSK	8	7	21.78	21.82	21.80		
3	QPSK	15	0	21.80	21.78	21.83		
3	16QAM	1	0	22.03	22.02	21.99	22.5	1
3	16QAM	1	8	22.04	22.04	22.06		
3	16QAM	1	14	21.95	22.02	22.00		
3	16QAM	8	0	20.83	20.85	20.83	21.5	2
3	16QAM	8	4	20.89	20.91	20.89		
3	16QAM	8	7	20.84	20.88	20.87		
3	16QAM	15	0	20.83	20.82	20.85		
3	64QAM	1	0	20.93	20.92	20.87	21.5	2
3	64QAM	1	8	20.97	20.91	20.96		
3	64QAM	1	14	20.87	20.86	20.93		
3	64QAM	8	0	19.81	19.85	19.82	20.5	3
3	64QAM	8	4	19.87	19.88	19.89		
3	64QAM	8	7	19.81	19.87	19.85		
3	64QAM	15	0	19.81	19.78	19.81		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	22.55	22.60	22.60	23.5	0
1.4	QPSK	1	3	22.64	22.69	22.69		
1.4	QPSK	1	5	22.59	22.63	22.58		
1.4	QPSK	3	0	22.64	22.60	22.68		
1.4	QPSK	3	1	22.67	22.62	22.68		
1.4	QPSK	3	3	22.64	22.64	22.63		
1.4	QPSK	6	0	21.73	21.69	21.76	22.5	1
1.4	16QAM	1	0	21.93	21.90	21.96	22.5	1
1.4	16QAM	1	3	22.00	21.97	22.01		
1.4	16QAM	1	5	21.93	21.91	21.91		
1.4	16QAM	3	0	21.74	21.72	21.75		
1.4	16QAM	3	1	21.76	21.75	21.76		
1.4	16QAM	3	3	21.69	21.70	21.69		
1.4	16QAM	6	0	20.82	20.77	20.81	21.5	2
1.4	64QAM	1	0	20.76	20.82	20.88	21.5	2
1.4	64QAM	1	3	20.85	20.88	20.84		
1.4	64QAM	1	5	20.77	20.78	20.84		
1.4	64QAM	3	0	20.78	20.75	20.83		
1.4	64QAM	3	1	20.82	20.82	20.85		
1.4	64QAM	3	3	20.77	20.84	20.79		
1.4	64QAM	6	0	19.68	19.68	19.72	20.5	3

Band 17 (700MHz Band)
Part 27H(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				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	22.65	22.67	22.72	23.5	0
10	QPSK	1	25	22.72	22.73	22.73		
10	QPSK	1	49	22.76	22.76	22.78		
10	QPSK	25	0	21.78	21.79	21.80	22.5	1
10	QPSK	25	12	21.94	21.90	21.92		
10	QPSK	25	25	21.88	21.89	21.90		
10	QPSK	50	0	21.83	21.83	21.84		
10	16QAM	1	0	22.00	21.94	21.99	22.5	1
10	16QAM	1	25	22.05	22.05	22.04		
10	16QAM	1	49	22.06	22.04	22.07		
10	16QAM	25	0	20.74	20.71	20.73	21.5	2
10	16QAM	25	12	20.90	20.81	20.80		
10	16QAM	25	25	20.88	20.85	20.81		
10	16QAM	50	0	20.80	20.77	20.76		
10	64QAM	1	0	20.90	20.88	20.84	21.5	2
10	64QAM	1	25	20.96	20.99	20.95		
10	64QAM	1	49	21.00	20.94	20.96		
10	64QAM	25	0	19.76	19.75	19.74	20.5	3
10	64QAM	25	12	19.90	19.82	19.81		
10	64QAM	25	25	19.91	19.91	19.88		
10	64QAM	50	0	19.79	19.78	19.80		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				708.5	710	713.5		
5	QPSK	1	0	22.62	22.62	22.61	23.5	0
5	QPSK	1	12	22.71	22.73	22.71		
5	QPSK	1	24	22.77	22.76	22.73		
5	QPSK	12	0	21.77	21.77	21.77	22.5	1
5	QPSK	12	7	21.86	21.79	21.75		
5	QPSK	12	13	21.83	21.81	21.83		
5	QPSK	25	0	21.83	21.77	21.77		
5	16QAM	1	0	21.99	21.94	21.98	22.5	1
5	16QAM	1	12	21.96	22.00	22.02		
5	16QAM	1	24	22.07	22.06	22.05		
5	16QAM	12	0	20.78	20.80	20.79	21.5	2
5	16QAM	12	7	20.87	20.79	20.80		
5	16QAM	12	13	20.85	20.84	20.84		
5	16QAM	25	0	20.86	20.80	20.78		
5	64QAM	1	0	20.89	20.90	20.86	21.5	2
5	64QAM	1	12	20.85	20.91	20.89		
5	64QAM	1	24	20.92	20.97	21.05		
5	64QAM	12	0	19.81	19.84	19.77	20.5	3
5	64QAM	12	7	19.90	19.83	19.81		
5	64QAM	12	13	19.89	19.86	19.84		
5	64QAM	25	0	19.85	19.79	19.78		

Band 26 for FCC (only on channel required)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26705	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	22.70	22.69	22.72	23.8	0
15	QPSK	1	37	22.70	22.65	22.68		
15	QPSK	1	74	22.69	22.63	22.57		
15	QPSK	36	0	21.86	21.82	21.80	22.8	1
15	QPSK	36	20	21.87	21.84	21.88		
15	QPSK	36	39	21.85	21.81	21.83		
15	QPSK	75	0	21.82	21.80	21.85		
15	16QAM	1	0	22.00	21.89	21.91	22.8	1
15	16QAM	1	37	21.93	21.95	21.92		
15	16QAM	1	74	21.91	21.83	21.79		
15	16QAM	36	0	20.79	20.75	20.70	21.8	2
15	16QAM	36	20	20.82	20.72	20.76		
15	16QAM	36	39	20.77	20.77	20.71		
15	16QAM	75	0	20.82	20.70	20.66		
15	64QAM	1	0	20.68	20.69	20.69	21.8	2
15	64QAM	1	37	20.74	20.69	20.69		
15	64QAM	1	74	20.73	20.68	20.68		
15	64QAM	36	0	19.70	19.73	19.73	20.8	3
15	64QAM	36	20	19.74	19.71	19.71		
15	64QAM	36	39	19.77	19.74	19.74		
15	64QAM	75	0	19.73	19.65	19.65		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	22.70	22.62	22.70	23.8	0
10	QPSK	1	25	22.65	22.59	22.62		
10	QPSK	1	49	22.68	22.63	22.56		
10	QPSK	25	0	21.75	21.72	21.74	22.8	1
10	QPSK	25	12	21.83	21.82	21.75		
10	QPSK	25	25	21.75	21.70	21.74		
10	QPSK	50	0	21.80	21.77	21.72		
10	16QAM	1	0	22.08	22.06	22.01	22.8	1
10	16QAM	1	25	22.02	21.99	22.03		
10	16QAM	1	49	22.00	21.98	21.96		
10	16QAM	25	0	20.74	20.74	20.74	21.8	2
10	16QAM	25	12	20.85	20.82	20.71		
10	16QAM	25	25	20.77	20.74	20.74		
10	16QAM	50	0	20.80	20.78	20.70		
10	64QAM	1	0	20.80	20.77	20.90	21.8	2
10	64QAM	1	25	20.89	20.86	20.85		
10	64QAM	1	49	20.79	20.84	20.81		
10	64QAM	25	0	19.72	19.69	19.74	20.8	3
10	64QAM	25	12	19.77	19.69	19.73		
10	64QAM	25	25	19.68	19.69	19.70		
10	64QAM	50	0	19.74	19.68	19.70		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	22.66	22.65	22.65	23.8	0
5	QPSK	1	12	22.66	22.63	22.66		
5	QPSK	1	24	22.62	22.67	22.61		
5	QPSK	12	0	21.78	21.77	21.72	22.8	1
5	QPSK	12	7	21.84	21.77	21.77		
5	QPSK	12	13	21.74	21.73	21.67		
5	QPSK	25	0	21.79	21.76	21.68		
5	16QAM	1	0	21.97	21.97	21.99	22.8	1
5	16QAM	1	12	21.98	22.01	21.94		
5	16QAM	1	24	22.07	21.99	21.90		
5	16QAM	12	0	20.78	20.77	20.73	21.8	2
5	16QAM	12	7	20.84	20.81	20.76		
5	16QAM	12	13	20.77	20.74	20.67		
5	16QAM	25	0	20.81	20.77	20.70		
5	64QAM	1	0	20.86	20.82	20.87	21.8	2
5	64QAM	1	12	20.82	20.86	20.82		
5	64QAM	1	24	20.82	20.85	20.77		
5	64QAM	12	0	19.77	19.73	19.77	20.8	3
5	64QAM	12	7	19.80	19.72	19.80		
5	64QAM	12	13	19.73	19.70	19.71		
5	64QAM	25	0	19.75	19.69	19.70		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	22.66	22.69	22.68	23.8	0
3	QPSK	1	8	22.65	22.71	22.67		
3	QPSK	1	14	22.71	22.68	22.58		
3	QPSK	8	0	21.76	21.73	21.74	22.8	1
3	QPSK	8	4	21.82	21.79	21.73		
3	QPSK	8	7	21.78	21.73	21.67		
3	QPSK	15	0	21.81	21.77	21.72		
3	16QAM	1	0	21.98	22.00	21.96	22.8	1
3	16QAM	1	8	22.00	22.02	21.97		
3	16QAM	1	14	21.99	21.96	21.95		
3	16QAM	8	0	20.83	20.81	20.86	21.8	2
3	16QAM	8	4	20.89	20.84	20.81		
3	16QAM	8	7	20.83	20.77	20.76		
3	16QAM	15	0	20.83	20.79	20.76		
3	64QAM	1	0	20.81	20.78	20.91	21.8	2
3	64QAM	1	8	20.92	20.88	20.87		
3	64QAM	1	14	20.87	20.86	20.83		
3	64QAM	8	0	19.75	19.74	19.81	20.8	3
3	64QAM	8	4	19.80	19.76	19.75		
3	64QAM	8	7	19.73	19.72	19.73		
3	64QAM	15	0	19.73	19.67	19.70		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	22.62	22.57	22.57	23.8	0
1.4	QPSK	1	3	22.71	22.66	22.57		
1.4	QPSK	1	5	22.61	22.56	22.50		
1.4	QPSK	3	0	22.63	22.59	22.59		
1.4	QPSK	3	1	22.65	22.62	22.64		
1.4	QPSK	3	3	22.65	22.61	22.57		
1.4	QPSK	6	0	21.75	21.65	21.65	22.8	1
1.4	16QAM	1	0	21.94	21.91	21.88	22.8	1
1.4	16QAM	1	3	22.04	22.03	21.93		
1.4	16QAM	1	5	22.01	21.93	21.80		
1.4	16QAM	3	0	21.74	21.69	21.67		
1.4	16QAM	3	1	21.79	21.75	21.72		
1.4	16QAM	3	3	21.72	21.70	21.61		
1.4	16QAM	6	0	20.84	20.72	20.72	21.8	2
1.4	64QAM	1	0	20.77	20.71	20.82	21.8	2
1.4	64QAM	1	3	20.84	20.82	20.82		
1.4	64QAM	1	5	20.78	20.72	20.74		
1.4	64QAM	3	0	20.75	20.70	20.76		
1.4	64QAM	3	1	20.82	20.74	20.81		
1.4	64QAM	3	3	20.75	20.71	20.69		
1.4	64QAM	6	0	19.63	19.56	19.62	20.8	3

Band 66								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	22.35	22.36	22.23	23.5	0
20	QPSK	1	49	22.24	22.25	22.09		
20	QPSK	1	99	22.12	22.01	21.95		
20	QPSK	50	0	21.29	21.32	21.29	22.5	1
20	QPSK	50	24	21.31	21.36	21.33		
20	QPSK	50	50	21.23	21.34	21.22		
20	QPSK	100	0	21.22	21.35	21.29		
20	16QAM	1	0	21.70	21.71	21.61	22.5	1
20	16QAM	1	49	21.65	21.52	21.44		
20	16QAM	1	99	21.62	21.38	21.34		
20	16QAM	50	0	20.33	20.34	20.28	21.5	2
20	16QAM	50	24	20.41	20.29	20.34		
20	16QAM	50	50	20.33	20.23	20.23		
20	16QAM	100	0	20.36	20.22	20.30		
20	64QAM	1	0	20.48	20.51	20.39	21.5	2
20	64QAM	1	49	20.36	20.39	20.23		
20	64QAM	1	99	20.36	20.23	20.13		
20	64QAM	50	0	19.23	19.31	19.23	20.5	3
20	64QAM	50	24	19.29	19.29	19.26		
20	64QAM	50	50	19.25	19.29	19.19		
20	64QAM	100	0	19.29	19.27	19.23		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	22.27	22.22	22.21	23.5	0
15	QPSK	1	37	22.25	22.17	22.13		
15	QPSK	1	74	22.18	22.11	22.01		
15	QPSK	36	0	21.31	21.27	21.25	22.5	1
15	QPSK	36	20	21.37	21.32	21.20		
15	QPSK	36	39	21.30	21.26	21.21		
15	QPSK	75	0	21.37	21.18	21.20		
15	16QAM	1	0	21.56	21.54	21.57	22.5	1
15	16QAM	1	37	21.69	21.52	21.41		
15	16QAM	1	74	21.52	21.31	21.34		
15	16QAM	36	0	20.32	20.27	20.29	21.5	2
15	16QAM	36	20	20.37	20.38	20.25		
15	16QAM	36	39	20.37	20.29	20.22		
15	16QAM	75	0	20.39	20.24	20.22		
15	64QAM	1	0	20.53	20.42	20.29	21.5	2
15	64QAM	1	37	20.53	20.53	20.41		
15	64QAM	1	74	20.13	20.19	20.47		
15	64QAM	36	0	19.27	19.31	19.14	20.5	3
15	64QAM	36	20	19.32	19.43	19.20		
15	64QAM	36	39	19.24	19.42	19.12		
15	64QAM	75	0	19.26	19.28	19.16		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	22.21	22.28	22.15	23.5	0
10	QPSK	1	25	22.20	22.17	22.10		
10	QPSK	1	49	22.19	22.14	22.05		
10	QPSK	25	0	21.29	21.30	21.17	22.5	1
10	QPSK	25	12	21.43	21.25	21.15		
10	QPSK	25	25	21.32	21.27	21.20		
10	QPSK	50	0	21.41	21.28	21.17		
10	16QAM	1	0	21.61	21.61	21.53	22.5	1
10	16QAM	1	25	21.57	21.56	21.49		
10	16QAM	1	49	21.54	21.50	21.43		
10	16QAM	25	0	20.30	20.33	20.22	21.5	2
10	16QAM	25	12	20.43	20.31	20.19		
10	16QAM	25	25	20.33	20.26	20.18		
10	16QAM	50	0	20.42	20.25	20.20		
10	64QAM	1	0	20.61	20.53	20.40	21.5	2
10	64QAM	1	25	20.56	20.46	20.42		
10	64QAM	1	49	20.48	20.60	20.17		
10	64QAM	25	0	19.22	19.36	19.16	20.5	3
10	64QAM	25	12	19.26	19.32	19.21		
10	64QAM	25	25	19.14	19.15	19.11		
10	64QAM	50	0	19.21	19.29	19.11		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	22.17	22.15	22.13	23.5	0
5	QPSK	1	12	22.23	22.26	22.11		
5	QPSK	1	24	22.22	22.18	22.09		
5	QPSK	12	0	21.40	21.31	21.18	22.5	1
5	QPSK	12	7	21.44	21.37	21.25		
5	QPSK	12	13	21.36	21.31	21.17		
5	QPSK	25	0	21.37	21.30	21.15		
5	16QAM	1	0	21.52	21.48	21.33	22.5	1
5	16QAM	1	12	21.45	21.44	21.35		
5	16QAM	1	24	21.48	21.49	21.35		
5	16QAM	12	0	20.41	20.30	20.21	21.5	2
5	16QAM	12	7	20.40	20.34	20.27		
5	16QAM	12	13	20.39	20.33	20.21		
5	16QAM	25	0	20.38	20.33	20.18		
5	64QAM	1	0	20.16	20.47	19.97	21.5	2
5	64QAM	1	12	20.21	20.28	20.06		
5	64QAM	1	24	20.20	20.12	20.01		
5	64QAM	12	0	19.32	19.43	19.19	20.5	3
5	64QAM	12	7	19.33	19.39	19.25		
5	64QAM	12	13	19.35	19.37	19.21		
5	64QAM	25	0	19.33	19.39	19.15		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	22.21	22.20	22.10	23.5	0
3	QPSK	1	8	22.32	22.24	22.18		
3	QPSK	1	14	22.26	22.22	22.14		
3	QPSK	8	0	21.40	21.27	21.19	22.5	1
3	QPSK	8	4	21.39	21.38	21.17		
3	QPSK	8	7	21.39	21.33	21.21		
3	QPSK	15	0	21.41	21.32	21.20		
3	16QAM	1	0	21.53	21.49	21.43	22.5	1
3	16QAM	1	8	21.54	21.47	21.52		
3	16QAM	1	14	21.57	21.48	21.45		
3	16QAM	8	0	20.45	20.37	20.26	21.5	2
3	16QAM	8	4	20.50	20.38	20.22		
3	16QAM	8	7	20.40	20.39	20.25		
3	16QAM	15	0	20.38	20.39	20.22		
3	64QAM	1	0	20.45	20.34	20.22	21.5	2
3	64QAM	1	8	20.58	20.35	20.50		
3	64QAM	1	14	20.54	20.28	20.14		
3	64QAM	8	0	19.32	19.28	19.12	20.5	3
3	64QAM	8	4	19.36	19.39	19.14		
3	64QAM	8	7	19.31	19.40	19.21		
3	64QAM	15	0	19.35	19.29	19.21		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	22.11	22.14	22.04	23.5	0
1.4	QPSK	1	3	22.22	22.23	22.13		
1.4	QPSK	1	5	22.14	22.13	22.03		
1.4	QPSK	3	0	22.17	22.13	22.07		
1.4	QPSK	3	1	22.20	22.18	22.13		
1.4	QPSK	3	3	22.20	22.16	22.08		
1.4	QPSK	6	0	21.29	21.26	21.12	22.5	1
1.4	16QAM	1	0	21.47	21.46	21.42	22.5	1
1.4	16QAM	1	3	21.57	21.53	21.47		
1.4	16QAM	1	5	21.52	21.43	21.34		
1.4	16QAM	3	0	21.26	21.22	21.17		
1.4	16QAM	3	1	21.33	21.24	21.22		
1.4	16QAM	3	3	21.27	21.23	21.14		
1.4	16QAM	6	0	20.40	20.39	20.22	21.5	2
1.4	64QAM	1	0	20.38	20.53	20.34	21.5	2
1.4	64QAM	1	3	20.43	20.56	20.43		
1.4	64QAM	1	5	20.39	20.39	20.26		
1.4	64QAM	3	0	20.28	20.32	20.20		
1.4	64QAM	3	1	20.31	20.48	20.14		
1.4	64QAM	3	3	20.30	20.26	20.18		
1.4	64QAM	6	0	19.07	19.47	19.26	20.5	3

Band 38(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				37850	38000	38150		
Frequency (MHz)				2580	2590	2610		
20	QPSK	1	0	22.82	22.76	22.81	23.5	0
20	QPSK	1	49	22.84	22.79	22.83		
20	QPSK	1	99	22.92	22.80	22.85		
20	QPSK	50	0	21.87	21.74	21.85	22.5	1
20	QPSK	50	24	22.00	21.79	21.97		
20	QPSK	50	50	21.88	21.81	21.90		
20	QPSK	100	0	21.98	21.78	21.94		
20	16QAM	1	0	21.97	21.80	22.08	22.5	1
20	16QAM	1	49	21.82	21.83	21.89		
20	16QAM	1	99	22.04	21.85	21.84		
20	16QAM	50	0	20.89	20.82	20.93	21.5	2
20	16QAM	50	24	20.99	20.83	21.01		
20	16QAM	50	50	21.04	20.81	21.03		
20	16QAM	100	0	21.03	20.78	21.01		
20	64QAM	1	0	20.82	20.68	20.86	21.5	2
20	64QAM	1	49	20.68	20.63	20.88		
20	64QAM	1	99	20.77	20.71	20.81		
20	64QAM	50	0	19.73	19.79	19.81	20.5	3
20	64QAM	50	24	19.88	19.74	19.89		
20	64QAM	50	50	19.86	19.81	19.96		
20	64QAM	100	0	20.06	19.83	19.94		
Channel				37625	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	22.71	22.66	22.72	23.5	0
15	QPSK	1	37	22.69	22.64	22.81		
15	QPSK	1	74	22.81	22.77	22.71		
15	QPSK	36	0	21.83	21.76	21.84	22.5	1
15	QPSK	36	20	22.01	21.79	21.90		
15	QPSK	36	39	21.92	21.81	21.87		
15	QPSK	75	0	21.93	21.79	21.82		
15	16QAM	1	0	21.89	21.73	21.94	22.5	1
15	16QAM	1	37	21.83	21.61	22.01		
15	16QAM	1	74	22.04	21.80	21.86		
15	16QAM	36	0	20.88	20.80	20.87	21.5	2
15	16QAM	36	20	20.97	20.64	20.89		
15	16QAM	36	39	20.87	20.79	20.81		
15	16QAM	75	0	21.01	20.74	20.77		
15	64QAM	1	0	20.78	20.49	20.90	21.5	2
15	64QAM	1	37	20.81	20.47	20.60		
15	64QAM	1	74	20.66	20.58	20.47		
15	64QAM	36	0	19.89	19.76	19.85	20.5	3
15	64QAM	36	20	19.99	19.77	19.86		
15	64QAM	36	39	20.06	19.83	19.96		
15	64QAM	75	0	19.92	19.82	19.86		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	22.83	22.58	22.86	23.5	0
10	QPSK	1	25	22.83	22.69	22.82		
10	QPSK	1	49	22.85	22.71	22.81		
10	QPSK	25	0	21.88	21.74	21.85	22.5	1
10	QPSK	25	12	21.94	21.84	21.83		
10	QPSK	25	25	21.99	21.86	21.96		
10	QPSK	50	0	21.94	21.69	21.81		
10	16QAM	1	0	22.01	21.85	22.06	22.5	1
10	16QAM	1	25	21.90	21.90	21.88		
10	16QAM	1	49	21.98	21.81	22.06		
10	16QAM	25	0	20.77	20.75	20.92	21.5	2
10	16QAM	25	12	21.14	20.87	20.93		
10	16QAM	25	25	21.07	20.79	21.06		
10	16QAM	50	0	20.95	20.80	20.94		
10	64QAM	1	0	20.83	20.84	20.84	21.5	2
10	64QAM	1	25	20.83	20.74	20.83		
10	64QAM	1	49	20.91	21.06	20.81		
10	64QAM	25	0	19.81	20.01	19.94	20.5	3
10	64QAM	25	12	20.08	19.90	19.85		
10	64QAM	25	25	19.92	19.89	20.09		
10	64QAM	50	0	19.97	19.82	19.88		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	22.83	22.64	22.79	23.5	0
5	QPSK	1	12	22.83	22.66	22.80		
5	QPSK	1	24	22.79	22.75	22.85		
5	QPSK	12	0	21.98	21.76	21.97	22.5	1
5	QPSK	12	7	21.96	21.84	21.97		
5	QPSK	12	13	21.98	21.84	21.98		
5	QPSK	25	0	21.98	21.78	21.89		
5	16QAM	1	0	22.00	21.78	21.93	22.5	1
5	16QAM	1	12	22.24	22.02	22.02		
5	16QAM	1	24	22.03	21.83	22.00		
5	16QAM	12	0	20.93	20.84	20.96	21.5	2
5	16QAM	12	7	21.03	20.80	20.87		
5	16QAM	12	13	20.94	20.80	20.98		
5	16QAM	25	0	20.94	20.86	20.96		
5	64QAM	1	0	20.79	20.64	20.71	21.5	2
5	64QAM	1	12	20.90	20.65	20.81		
5	64QAM	1	24	20.81	20.62	20.81		
5	64QAM	12	0	19.85	19.74	19.96	20.5	3
5	64QAM	12	7	19.94	19.82	19.88		
5	64QAM	12	13	19.94	19.81	19.97		
5	64QAM	25	0	19.99	19.75	19.88		

Band 41 (2.6G Band)--Class 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.05	22.33	22.62	22.66	22.42	24	0
20	QPSK	1	49	22.01	22.43	22.65	22.62	22.40		
20	QPSK	1	99	22.08	22.57	22.77	22.68	22.49		
20	QPSK	50	0	21.14	21.54	21.72	21.62	21.44	23	1
20	QPSK	50	24	21.18	21.64	21.88	21.65	21.45		
20	QPSK	50	50	21.16	21.59	21.81	21.62	21.44		
20	QPSK	100	0	21.27	21.55	21.78	21.69	21.42		
20	16QAM	1	0	21.16	21.49	21.89	21.79	21.76	23	1
20	16QAM	1	49	21.12	21.54	21.75	21.70	21.42		
20	16QAM	1	99	21.10	21.78	21.88	21.77	21.48		
20	16QAM	50	0	20.16	20.51	20.73	20.69	20.47	22	2
20	16QAM	50	24	20.14	20.57	20.82	20.71	20.37		
20	16QAM	50	50	20.16	20.62	20.89	20.74	20.54		
20	16QAM	100	0	20.30	20.54	20.74	20.67	20.45		
20	64QAM	1	0	19.92	20.01	20.56	20.55	20.55	22	2
20	64QAM	1	49	19.85	20.24	20.60	20.47	20.01		
20	64QAM	1	99	19.77	20.53	20.66	20.58	19.95		
20	64QAM	50	0	19.13	19.51	19.78	19.63	19.51	21	3
20	64QAM	50	24	19.21	19.61	19.81	19.68	19.55		
20	64QAM	50	50	19.16	19.66	19.87	19.71	19.49		
20	64QAM	100	0	19.17	19.59	19.80	19.68	19.55		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	22.18	22.40	22.68	22.57	22.30	24	0
15	QPSK	1	37	22.17	22.40	22.65	22.36	22.28		
15	QPSK	1	74	22.06	22.55	22.76	22.50	22.34		
15	QPSK	36	0	21.27	21.45	21.69	21.56	21.43	23	1
15	QPSK	36	20	21.30	21.66	21.74	21.67	21.44		
15	QPSK	36	39	21.25	21.59	21.78	21.64	21.36		
15	QPSK	75	0	21.29	21.52	21.68	21.54	21.38		
15	16QAM	1	0	21.33	21.68	21.82	21.84	21.65	23	1
15	16QAM	1	37	21.25	21.29	21.61	21.53	21.34		
15	16QAM	1	74	21.21	21.58	21.84	21.82	21.47		
15	16QAM	36	0	20.18	20.51	20.74	20.81	20.31	22	2
15	16QAM	36	20	20.25	20.51	20.75	20.53	20.46		
15	16QAM	36	39	20.27	20.50	20.76	20.66	20.47		
15	16QAM	75	0	20.27	20.57	20.83	20.67	20.42		
15	64QAM	1	0	20.14	20.23	20.45	20.43	20.21	22	2
15	64QAM	1	37	20.05	20.32	20.54	20.58	20.09		
15	64QAM	1	74	20.05	20.53	20.79	20.42	20.03		
15	64QAM	36	0	19.26	19.52	19.79	19.72	19.49	21	3
15	64QAM	36	20	19.34	19.58	19.73	19.64	19.52		
15	64QAM	36	39	19.28	19.59	19.82	19.66	19.53		
15	64QAM	75	0	19.23	19.65	19.71	19.54	19.46		
Channel				39750	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	22.09	22.52	22.59	22.73	22.52	24	0
10	QPSK	1	25	22.06	22.34	22.74	22.49	22.32		
10	QPSK	1	49	22.26	22.27	22.72	22.45	22.22		
10	QPSK	25	0	21.15	21.44	21.67	21.59	21.45	23	1
10	QPSK	25	12	21.15	21.61	21.76	21.74	21.49		
10	QPSK	25	25	21.06	21.49	21.84	21.66	21.47		
10	QPSK	50	0	21.08	21.55	21.76	21.54	21.49		
10	16QAM	1	0	21.21	21.67	21.80	21.77	21.52	23	1
10	16QAM	1	25	21.17	21.67	21.85	21.77	21.48		
10	16QAM	1	49	21.18	21.62	21.80	21.70	21.53		
10	16QAM	25	0	20.06	20.74	20.72	20.58	20.57	22	2
10	16QAM	25	12	20.15	20.67	20.75	20.73	20.51		
10	16QAM	25	25	20.15	20.58	20.90	20.66	20.57		
10	16QAM	50	0	20.19	20.57	20.72	20.60	20.50		
10	64QAM	1	0	20.07	20.41	20.69	20.56	20.21	22	2
10	64QAM	1	25	20.11	20.37	20.87	20.81	20.25		
10	64QAM	1	49	20.16	20.44	20.65	20.64	20.28		
10	64QAM	25	0	19.23	19.59	19.87	19.71	19.52	21	3
10	64QAM	25	12	19.24	19.71	19.83	19.78	19.68		
10	64QAM	25	25	19.22	19.58	19.92	19.71	19.50		
10	64QAM	50	0	19.14	19.62	19.85	19.59	19.50		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	22.03	22.35	22.66	22.61	22.35	24	0
5	QPSK	1	12	22.08	22.53	22.76	22.50	22.41		
5	QPSK	1	24	22.01	22.43	22.72	22.59	22.30		
5	QPSK	12	0	21.07	21.55	21.80	21.66	21.42	23	1
5	QPSK	12	7	21.23	21.64	21.80	21.67	21.48		
5	QPSK	12	13	21.11	21.57	21.85	21.67	21.39		
5	QPSK	25	0	21.15	21.59	21.81	21.65	21.49		
5	16QAM	1	0	21.11	21.43	21.70	21.82	21.62	23	1
5	16QAM	1	12	21.18	21.43	21.84	21.66	21.45		
5	16QAM	1	24	21.15	21.50	21.86	21.77	21.66		
5	16QAM	12	0	20.13	20.40	20.80	20.66	20.45	22	2
5	16QAM	12	7	20.09	20.53	20.78	20.66	20.49		
5	16QAM	12	13	20.08	20.55	20.82	20.65	20.42		
5	16QAM	25	0	20.15	20.64	20.77	20.68	20.44		
5	64QAM	1	0	20.10	20.27	20.63	20.55	20.29	22	2
5	64QAM	1	12	20.05	20.37	20.65	20.55	20.32		
5	64QAM	1	24	20.02	20.48	20.70	20.55	20.30		
5	64QAM	12	0	19.20	19.50	19.82	19.70	19.48	21	3
5	64QAM	12	7	19.15	19.60	19.86	19.71	19.48		
5	64QAM	12	13	19.15	19.54	19.92	19.69	19.49		
5	64QAM	25	0	19.23	19.61	19.87	19.71	19.48		

Band 41 (2.6G Band) HPUE (Limit 27)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	25.09	25.27	25.58	25.57	25.37	26.2	0
20	QPSK	1	49	25.06	25.44	25.72	25.39	25.35		
20	QPSK	1	99	25.11	25.46	25.75	25.60	25.39		
20	QPSK	50	0	24.25	24.60	24.84	24.72	24.53	25.2	1
20	QPSK	50	24	24.30	24.78	24.90	24.78	24.57		
20	QPSK	50	50	24.29	24.72	24.89	24.75	24.51		
20	QPSK	100	0	24.37	24.75	24.81	24.65	24.46		
20	16QAM	1	0	24.49	24.66	24.93	24.99	24.90	25.2	1
20	16QAM	1	49	24.37	24.80	24.97	24.86	24.57		
20	16QAM	1	99	24.19	24.89	25.03	24.78	24.76		
20	16QAM	50	0	23.25	23.61	23.74	23.70	23.56	24.2	2
20	16QAM	50	24	23.32	23.65	23.88	23.62	23.49		
20	16QAM	50	50	23.27	23.21	24.00	23.67	23.55		
20	16QAM	100	0	23.23	23.71	23.80	23.69	23.50		
20	64QAM	1	0	23.31	23.56	23.60	23.82	23.90	24.2	2
20	64QAM	1	49	23.27	23.62	23.81	23.68	23.95		
20	64QAM	1	99	23.17	23.79	24.14	23.73	23.60		
20	64QAM	50	0	22.06	22.64	22.63	22.71	22.60	23.2	3
20	64QAM	50	24	22.33	22.78	22.82	22.77	22.67		
20	64QAM	50	50	22.17	22.65	22.93	22.77	22.82		
20	64QAM	100	0	22.20	22.67	22.81	22.72	22.59		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	24.98	25.45	25.65	25.44	25.29	26.2	0
15	QPSK	1	37	24.93	25.30	25.58	25.42	25.14		
15	QPSK	1	74	24.87	25.55	25.63	25.45	25.30		
15	QPSK	36	0	24.05	24.50	24.76	24.53	24.33	25.2	1
15	QPSK	36	20	24.14	24.56	24.80	24.65	24.45		
15	QPSK	36	39	24.15	24.58	24.89	24.62	24.40		
15	QPSK	75	0	24.13	24.59	24.76	24.55	24.34		
15	16QAM	1	0	24.40	24.62	25.05	24.89	24.74	25.2	1
15	16QAM	1	37	24.37	24.50	25.06	24.76	24.46		
15	16QAM	1	74	24.19	24.84	25.04	24.90	24.38		
15	16QAM	36	0	23.10	23.54	23.71	23.55	23.45	24.2	2
15	16QAM	36	20	23.19	23.66	23.73	23.58	23.35		
15	16QAM	36	39	23.15	23.51	23.83	23.62	23.44		
15	16QAM	75	0	23.24	23.59	23.81	23.64	23.34		
15	64QAM	1	0	23.15	23.50	23.29	23.67	23.66	24.2	2
15	64QAM	1	37	23.22	23.70	23.63	23.70	23.67		
15	64QAM	1	74	23.07	23.86	23.85	23.66	23.28		
15	64QAM	36	0	22.09	22.55	22.52	22.71	22.45	23.2	3
15	64QAM	36	20	22.34	22.55	22.76	22.65	22.50		
15	64QAM	36	39	22.18	22.64	22.89	22.67	22.44		
15	64QAM	75	0	22.27	22.58	22.62	22.66	22.35		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	25.02	25.26	25.62	25.56	25.18	26.2	0
10	QPSK	1	25	24.95	25.29	25.63	25.34	25.2		
10	QPSK	1	49	25.07	25.55	25.7	25.49	25.16		
10	QPSK	25	0	24.16	24.48	24.76	24.61	24.43	25.2	1
10	QPSK	25	12	24.16	24.55	24.82	24.7	24.46		
10	QPSK	25	25	24.09	24.58	24.9	24.62	24.4		
10	QPSK	50	0	24.11	24.47	24.85	24.62	24.5		
10	16QAM	1	0	24.42	24.67	24.86	24.93	24.6	25.2	1
10	16QAM	1	25	24.26	24.7	24.91	24.78	24.59		
10	16QAM	1	49	24.24	24.66	24.93	24.66	24.63		
10	16QAM	25	0	23.05	23.5	23.85	23.7	23.51	24.2	2
10	16QAM	25	12	23.24	23.63	23.82	23.76	23.5		
10	16QAM	25	25	23.23	23.57	23.88	23.59	23.41		
10	16QAM	50	0	23.22	23.56	23.85	23.7	23.55		
10	64QAM	1	0	22.92	23.56	23.21	23.81	23.61	24.2	2
10	64QAM	1	25	22.94	23.87	23.62	23.99	23.91		
10	64QAM	1	49	23.21	23.72	23.83	23.72	23.52		
10	64QAM	25	0	21.99	22.58	22.67	22.70	22.55	23.2	3
10	64QAM	25	12	22.11	22.71	22.77	22.81	22.62		
10	64QAM	25	25	22.13	22.62	22.82	22.78	22.65		
10	64QAM	50	0	22.09	22.61	22.82	22.69	22.52		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	25.00	25.39	25.52	25.54	25.29	26.2	0
5	QPSK	1	12	24.94	25.46	25.72	25.52	25.19		
5	QPSK	1	24	24.96	25.48	25.62	25.53	25.26		
5	QPSK	12	0	24.12	24.52	24.82	24.66	24.44	25.2	1
5	QPSK	12	7	24.19	24.48	24.86	24.67	24.45		
5	QPSK	12	13	24.10	24.50	24.86	24.57	24.47		
5	QPSK	25	0	24.17	24.51	24.74	24.62	24.34		
5	16QAM	1	0	24.23	24.57	24.91	24.76	24.47	25.2	1
5	16QAM	1	12	24.25	24.71	24.95	24.76	24.42		
5	16QAM	1	24	24.41	24.75	24.94	24.67	24.50		
5	16QAM	12	0	23.20	23.53	23.82	23.64	23.46	24.2	2
5	16QAM	12	7	23.28	23.59	23.87	23.74	23.49		
5	16QAM	12	13	23.14	23.61	23.91	23.73	23.41		
5	16QAM	25	0	23.19	23.55	23.83	23.73	23.42		
5	64QAM	1	0	22.81	23.51	23.46	23.65	23.34	24.2	2
5	64QAM	1	12	22.87	23.52	23.58	23.82	23.35		
5	64QAM	1	24	22.95	23.68	23.73	23.74	23.53		
5	64QAM	12	0	21.90	22.53	22.63	22.78	22.49	23.2	3
5	64QAM	12	7	21.97	22.65	22.69	22.78	22.50		
5	64QAM	12	13	21.97	22.63	22.74	22.67	22.51		
5	64QAM	25	0	21.93	22.65	22.67	22.67	22.54		

Reduced power level 1 for Head-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	30.60	30.72	30.62	31.50	21.60	21.72	21.62	22.50
GPRS 1 Tx slot	30.64	30.75	30.64	31.50	21.64	21.75	21.64	22.50
GPRS 2 Tx slots	28.99	29.22	29.06	30.00	22.99	23.22	23.06	24.00
GPRS 3 Tx slots	27.77	27.55	27.72	28.30	23.51	23.29	23.46	24.04
GPRS 4 Tx slots	26.97	26.84	26.82	27.30	23.97	23.84	23.82	24.30
EDGE 1 Tx slot	23.83	24.26	23.82	25.50	14.83	15.26	14.82	16.50
EDGE 2 Tx slots	22.79	23.25	23.07	24.00	16.79	17.25	17.07	18.00
EDGE 3 Tx slots	21.61	21.80	21.90	23.00	17.35	17.54	17.64	18.74
EDGE 4 Tx slots	20.93	21.11	21.09	22.50	17.93	18.11	18.09	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	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	26.58	26.66	26.70	27.50	17.58	17.66	17.70	18.50
GPRS 1 Tx slot	26.61	26.73	26.73	27.50	17.61	17.73	17.73	18.50
GPRS 2 Tx slots	23.44	23.66	23.72	24.50	17.44	17.66	17.72	18.50
GPRS 3 Tx slots	22.74	22.44	22.62	23.50	18.48	18.18	18.36	19.24
GPRS 4 Tx slots	21.88	21.80	21.83	22.50	18.88	18.80	18.83	19.50
EDGE 1 Tx slot	22.19	22.58	22.18	23.00	13.19	13.58	13.18	14.00
EDGE 2 Tx slots	20.99	21.27	21.08	22.00	14.99	15.27	15.08	16.00
EDGE 3 Tx slots	20.25	20.30	20.23	21.00	15.99	16.04	15.97	16.74
EDGE 4 Tx slots	20.08	20.23	19.84	21.00	17.08	17.23	16.84	18.00

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	17.00	17.12	17.01	17.50	17.35	17.51	17.44	18.00	20.81	20.83	20.78	21.50
3GPP Rel 99	RMC 12.2Kbps	17.02	17.16	17.03	17.50	17.37	17.54	17.46	18.00	20.83	20.88	20.81	21.50
3GPP Rel 6	HSDPA Subtest-1	16.15	16.31	16.13	16.50	16.18	16.33	16.29	17.00	19.90	19.90	19.91	20.50
3GPP Rel 6	HSDPA Subtest-2	16.13	16.30	16.17	16.50	16.20	16.32	16.28	17.00	19.91	19.90	19.90	20.50
3GPP Rel 6	HSDPA Subtest-3	15.64	15.82	15.66	16.00	15.65	15.86	15.75	16.50	19.39	19.42	19.38	20.00
3GPP Rel 6	HSDPA Subtest-4	15.62	15.78	15.68	16.00	15.65	15.82	15.78	16.50	19.39	19.39	19.43	20.00
3GPP Rel 8	DC-HSDPA Subtest-1	16.10	16.15	16.08	16.50	16.10	16.18	16.18	17.00	19.78	19.80	19.80	20.50
3GPP Rel 8	DC-HSDPA Subtest-2	16.08	16.13	16.12	16.50	16.07	16.21	16.14	17.00	19.83	19.75	19.82	20.50
3GPP Rel 8	DC-HSDPA Subtest-3	15.60	15.62	15.58	16.00	15.51	15.77	15.60	16.50	19.29	19.34	19.26	20.00
3GPP Rel 8	DC-HSDPA Subtest-4	15.54	15.60	15.60	16.00	15.51	15.71	15.63	16.50	19.26	19.27	19.35	20.00
3GPP Rel 6	HSUPA Subtest-1	16.12	16.21	16.11	16.50	16.22	16.35	16.18	17.00	19.86	19.89	19.88	20.50
3GPP Rel 6	HSUPA Subtest-2	14.14	14.28	14.15	14.50	14.18	14.26	14.28	15.00	17.87	17.94	17.84	18.50
3GPP Rel 6	HSUPA Subtest-3	14.03	14.24	14.05	14.50	14.17	14.24	14.30	15.00	18.84	18.92	18.86	19.50
3GPP Rel 6	HSUPA Subtest-4	14.15	14.25	14.19	14.50	14.18	14.31	14.30	15.00	17.86	17.86	17.83	18.50
3GPP Rel 6	HSUPA Subtest-5	16.10	16.30	16.10	16.50	16.20	16.30	16.20	17.00	19.90	19.90	19.90	20.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	13.68	13.72	13.70	14.00	13.63	13.75	13.72	14.50	17.33	17.35	17.30	18.00

Band 2 (1900MHz Band)
Part 24E

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	16.87	16.92	16.86	18	0
20	QPSK	1	49	16.73	16.84	16.81		
20	QPSK	1	99	16.70	16.77	16.73		
20	QPSK	50	0	16.73	16.86	16.79	18	0
20	QPSK	50	24	16.82	16.88	16.80		
20	QPSK	50	50	16.76	16.87	16.75		
20	QPSK	100	0	16.81	16.85	16.84		
20	16QAM	1	0	16.86	16.84	16.82	18	0
20	16QAM	1	49	16.76	16.82	16.81		
20	16QAM	1	99	16.68	16.68	16.74		
20	16QAM	50	0	16.85	16.74	16.69	18	0
20	16QAM	50	24	16.74	16.77	16.73		
20	16QAM	50	50	16.72	16.79	16.77		
20	16QAM	100	0	16.71	16.72	16.76		
20	64QAM	1	0	16.72	16.72	16.70	18	0
20	64QAM	1	49	16.60	16.61	16.66		
20	64QAM	1	99	16.53	16.71	16.59		
20	64QAM	50	0	16.68	16.75	16.72	18	0
20	64QAM	50	24	16.74	16.79	16.75		
20	64QAM	50	50	16.67	16.82	16.80		
20	64QAM	100	0	16.75	16.74	16.77		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	16.82	16.89	16.85	18	0
15	QPSK	1	37	16.73	16.85	16.85		
15	QPSK	1	74	16.78	16.83	16.78		
15	QPSK	36	0	16.67	16.70	16.68	18	0
15	QPSK	36	20	16.71	16.73	16.75		
15	QPSK	36	39	16.69	16.79	16.73		
15	QPSK	75	0	16.67	16.72	16.76		
15	16QAM	1	0	16.84	16.83	16.84	18	0
15	16QAM	1	37	16.75	16.82	16.79		
15	16QAM	1	74	16.72	16.88	16.79		
15	16QAM	36	0	16.70	16.72	16.66	18	0
15	16QAM	36	20	16.70	16.72	16.74		
15	16QAM	36	39	16.70	16.82	16.74		
15	16QAM	75	0	16.70	16.74	16.74		
15	64QAM	1	0	16.75	16.79	16.74	18	0
15	64QAM	1	37	16.71	16.82	16.75		
15	64QAM	1	74	16.68	16.74	16.69		
15	64QAM	36	0	16.72	16.76	16.70	18	0
15	64QAM	36	20	16.78	16.75	16.81		
15	64QAM	36	39	16.69	16.87	16.76		
15	64QAM	75	0	16.69	16.72	16.77		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	16.78	16.79	16.80	18	0
10	QPSK	1	25	16.69	16.84	16.81		
10	QPSK	1	49	16.76	16.85	16.80		
10	QPSK	25	0	16.66	16.66	16.63	18	0
10	QPSK	25	12	16.68	16.76	16.74		
10	QPSK	25	25	16.71	16.80	16.78		
10	QPSK	50	0	16.73	16.73	16.75		
10	16QAM	1	0	16.85	16.83	16.84	18	0
10	16QAM	1	25	16.73	16.85	16.85		
10	16QAM	1	49	16.77	16.85	16.86		
10	16QAM	25	0	16.62	16.67	16.59	18	0
10	16QAM	25	12	16.69	16.75	16.77		
10	16QAM	25	25	16.72	16.83	16.68		
10	16QAM	50	0	16.70	16.74	16.74		
10	64QAM	1	0	16.84	16.87	16.75	18	0
10	64QAM	1	25	16.79	16.84	16.74		
10	64QAM	1	49	16.73	16.75	16.82		
10	64QAM	25	0	16.71	16.69	16.64	18	0
10	64QAM	25	12	16.70	16.75	16.77		
10	64QAM	25	25	16.66	16.87	16.78		
10	64QAM	50	0	16.75	16.71	16.77		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	16.84	16.79	16.70	18	0
5	QPSK	1	12	16.85	16.89	16.80		
5	QPSK	1	24	16.76	16.91	16.80		
5	QPSK	12	0	16.72	16.68	16.64	18	0
5	QPSK	12	7	16.78	16.82	16.69		
5	QPSK	12	13	16.70	16.80	16.71		
5	QPSK	25	0	16.70	16.72	16.65		
5	16QAM	1	0	16.88	16.85	16.81	18	0
5	16QAM	1	12	16.81	16.86	16.85		
5	16QAM	1	24	16.81	16.85	16.88		
5	16QAM	12	0	16.76	16.73	16.67	18	0
5	16QAM	12	7	16.79	16.83	16.71		
5	16QAM	12	13	16.69	16.83	16.74		
5	16QAM	25	0	16.66	16.74	16.67		
5	64QAM	1	0	16.79	16.79	16.74	18	0
5	64QAM	1	12	16.80	16.83	16.86		
5	64QAM	1	24	16.78	16.87	16.80		
5	64QAM	12	0	16.79	16.76	16.66	18	0
5	64QAM	12	7	16.82	16.85	16.70		
5	64QAM	12	13	16.73	16.84	16.75		
5	64QAM	25	0	16.70	16.72	16.67		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	16.78	16.73	16.68	18	0
3	QPSK	1	8	16.82	16.84	16.76		
3	QPSK	1	14	16.71	16.80	16.71		
3	QPSK	8	0	16.76	16.71	16.66	18	0
3	QPSK	8	4	16.80	16.77	16.74		
3	QPSK	8	7	16.77	16.81	16.69		
3	QPSK	15	0	16.73	16.72	16.71		
3	16QAM	1	0	16.83	16.87	16.84	18	0
3	16QAM	1	8	16.80	16.84	16.87		
3	16QAM	1	14	16.82	16.85	16.85		
3	16QAM	8	0	16.82	16.79	16.75	18	0
3	16QAM	8	4	16.81	16.81	16.83		
3	16QAM	8	7	16.82	16.83	16.77		
3	16QAM	15	0	16.80	16.75	16.73		
3	64QAM	1	0	16.78	16.77	16.79	18	0
3	64QAM	1	8	16.84	16.88	16.84		
3	64QAM	1	14	16.74	16.88	16.88		
3	64QAM	8	0	16.79	16.77	16.70	18	0
3	64QAM	8	4	16.81	16.88	16.73		
3	64QAM	8	7	16.79	16.83	16.74		
3	64QAM	15	0	16.80	16.74	16.76		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	16.78	16.78	16.68	18	0
1.4	QPSK	1	3	16.87	16.86	16.76		
1.4	QPSK	1	5	16.80	16.78	16.72		
1.4	QPSK	3	0	16.58	16.66	16.53		
1.4	QPSK	3	1	16.64	16.66	16.56		
1.4	QPSK	3	3	16.65	16.63	16.53		
1.4	QPSK	6	0	16.70	16.67	16.58	18	0
1.4	16QAM	1	0	16.78	16.81	16.65	18	0
1.4	16QAM	1	3	16.83	16.80	16.79		
1.4	16QAM	1	5	16.82	16.84	16.72		
1.4	16QAM	3	0	16.70	16.72	16.59		
1.4	16QAM	3	1	16.70	16.78	16.64		
1.4	16QAM	3	3	16.69	16.74	16.57		
1.4	16QAM	6	0	16.79	16.80	16.65	18	0
1.4	64QAM	1	0	16.70	16.80	16.75	18	0
1.4	64QAM	1	3	16.78	16.86	16.83		
1.4	64QAM	1	5	16.72	16.79	16.75		
1.4	64QAM	3	0	16.86	16.84	16.74		
1.4	64QAM	3	1	16.81	16.86	16.79		
1.4	64QAM	3	3	16.80	16.83	16.77		
1.4	64QAM	6	0	16.73	16.74	16.65	18	0

Band 4 (AWS Band)
Part 27L (only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	16.73	16.83	16.74	18	0
20	QPSK	1	49	16.59	16.69	16.61		
20	QPSK	1	99	16.53	16.63	16.62		
20	QPSK	50	0	16.74	16.75	16.76	18	0
20	QPSK	50	24	16.77	16.78	16.77		
20	QPSK	50	50	16.70	16.70	16.74		
20	QPSK	100	0	16.75	16.77	16.76		
20	16QAM	1	0	16.70	16.80	16.73	18	0
20	16QAM	1	49	16.72	16.72	16.78		
20	16QAM	1	99	16.75	16.75	16.81		
20	16QAM	50	0	16.56	16.56	16.65	18	0
20	16QAM	50	24	16.57	16.57	16.62		
20	16QAM	50	50	16.50	16.50	16.52		
20	16QAM	100	0	16.55	16.55	16.58		
20	64QAM	1	0	16.67	16.67	16.74	18	0
20	64QAM	1	49	16.58	16.58	16.72		
20	64QAM	1	99	16.52	16.52	16.73		
20	64QAM	50	0	16.57	16.57	16.66	18	0
20	64QAM	50	24	16.59	16.59	16.67		
20	64QAM	50	50	16.53	16.53	16.53		
20	64QAM	100	0	16.61	16.61	16.65		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	16.49	16.61	16.59	18	0
15	QPSK	1	37	16.34	16.37	16.39		
15	QPSK	1	74	16.37	16.38	16.39		
15	QPSK	36	0	16.53	16.61	16.59	18	0
15	QPSK	36	20	16.54	16.54	16.50		
15	QPSK	36	39	16.51	16.57	16.52		
15	QPSK	75	0	16.53	16.54	16.51		
15	16QAM	1	0	16.69	16.67	16.69	18	0
15	16QAM	1	37	16.73	16.80	16.68		
15	16QAM	1	74	16.72	16.72	16.70		
15	16QAM	36	0	16.54	16.63	16.58	18	0
15	16QAM	36	20	16.53	16.57	16.55		
15	16QAM	36	39	16.49	16.58	16.56		
15	16QAM	75	0	16.58	16.56	16.58		
15	64QAM	1	0	16.74	16.82	16.78	18	0
15	64QAM	1	37	16.63	16.68	16.68		
15	64QAM	1	74	16.57	16.63	16.66		
15	64QAM	36	0	16.59	16.67	16.64	18	0
15	64QAM	36	20	16.54	16.58	16.55		
15	64QAM	36	39	16.55	16.62	16.57		
15	64QAM	75	0	16.55	16.58	16.56		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	16.36	16.46	16.40	18	0
10	QPSK	1	25	16.36	16.40	16.40		
10	QPSK	1	49	16.37	16.41	16.38		
10	QPSK	25	0	16.38	16.47	16.44	18	0
10	QPSK	25	12	16.49	16.50	16.48		
10	QPSK	25	25	16.51	16.54	16.53		
10	QPSK	50	0	16.53	16.51	16.54		
10	16QAM	1	0	16.61	16.80	16.75	18	0
10	16QAM	1	25	16.70	16.78	16.70		
10	16QAM	1	49	16.72	16.78	16.69		
10	16QAM	25	0	16.43	16.50	16.41	18	0
10	16QAM	25	12	16.52	16.53	16.47		
10	16QAM	25	25	16.47	16.57	16.52		
10	16QAM	50	0	16.51	16.50	16.54		
10	64QAM	1	0	16.57	16.64	16.60	18	0
10	64QAM	1	25	16.57	16.74	16.76		
10	64QAM	1	49	16.58	16.68	16.72		
10	64QAM	25	0	16.40	16.50	16.49	18	0
10	64QAM	25	12	16.53	16.55	16.49		
10	64QAM	25	25	16.51	16.50	16.53		
10	64QAM	50	0	16.51	16.52	16.54		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	16.41	16.45	16.45	18	0
5	QPSK	1	12	16.43	16.55	16.46		
5	QPSK	1	24	16.45	16.56	16.52		
5	QPSK	12	0	16.52	16.54	16.48	18	0
5	QPSK	12	7	16.57	16.65	16.56		
5	QPSK	12	13	16.56	16.63	16.57		
5	QPSK	25	0	16.52	16.53	16.50		
5	16QAM	1	0	16.70	16.75	16.72	18	0
5	16QAM	1	12	16.65	16.71	16.68		
5	16QAM	1	24	16.75	16.80	16.81		
5	16QAM	12	0	16.52	16.59	16.48	18	0
5	16QAM	12	7	16.57	16.66	16.57		
5	16QAM	12	13	16.55	16.64	16.56		
5	16QAM	25	0	16.60	16.60	16.55		
5	64QAM	1	0	16.65	16.74	16.64	18	0
5	64QAM	1	12	16.61	16.69	16.61		
5	64QAM	1	24	16.67	16.75	16.65		
5	64QAM	12	0	16.58	16.60	16.55	18	0
5	64QAM	12	7	16.63	16.73	16.65		
5	64QAM	12	13	16.60	16.72	16.65		
5	64QAM	25	0	16.53	16.59	16.54		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	16.37	16.46	16.34	18	0
3	QPSK	1	8	16.45	16.50	16.47		
3	QPSK	1	14	16.39	16.52	16.41		
3	QPSK	8	0	16.48	16.52	16.42	18	0
3	QPSK	8	4	16.52	16.60	16.53		
3	QPSK	8	7	16.51	16.56	16.50		
3	QPSK	15	0	16.44	16.50	16.48		
3	16QAM	1	0	16.73	16.77	16.60	18	0
3	16QAM	1	8	16.73	16.79	16.71		
3	16QAM	1	14	16.70	16.82	16.73		
3	16QAM	8	0	16.52	16.57	16.43	18	0
3	16QAM	8	4	16.54	16.65	16.53		
3	16QAM	8	7	16.53	16.62	16.53		
3	16QAM	15	0	16.51	16.56	16.52		
3	64QAM	1	0	16.64	16.55	16.61	18	0
3	64QAM	1	8	16.66	16.70	16.70		
3	64QAM	1	14	16.51	16.71	16.65		
3	64QAM	8	0	16.54	16.57	16.44	18	0
3	64QAM	8	4	16.55	16.65	16.58		
3	64QAM	8	7	16.54	16.64	16.54		
3	64QAM	15	0	16.49	16.56	16.47		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	16.28	16.37	16.22	18	0
1.4	QPSK	1	3	16.35	16.43	16.41		
1.4	QPSK	1	5	16.28	16.43	16.27		
1.4	QPSK	3	0	16.34	16.41	16.27		
1.4	QPSK	3	1	16.37	16.39	16.26		
1.4	QPSK	3	3	16.31	16.42	16.32		
1.4	QPSK	6	0	16.38	16.49	16.34	18	0
1.4	16QAM	1	0	16.56	16.73	16.54	18	0
1.4	16QAM	1	3	16.69	16.76	16.69		
1.4	16QAM	1	5	16.59	16.68	16.60		
1.4	16QAM	3	0	16.39	16.45	16.32		
1.4	16QAM	3	1	16.47	16.47	16.37		
1.4	16QAM	3	3	16.39	16.46	16.35		
1.4	16QAM	6	0	16.48	16.57	16.45	18	0
1.4	64QAM	1	0	16.52	16.58	16.53	18	0
1.4	64QAM	1	3	16.57	16.66	16.63		
1.4	64QAM	1	5	16.44	16.59	16.55		
1.4	64QAM	3	0	16.51	16.60	16.49		
1.4	64QAM	3	1	16.54	16.63	16.54		
1.4	64QAM	3	3	16.47	16.59	16.51		
1.4	64QAM	6	0	16.40	16.47	16.34	18	0

Band 5 (Cellular Band)
Part 22H(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				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	21.22	21.19	21.20	22	0
10	QPSK	1	25	21.17	21.16	21.13		
10	QPSK	1	49	21.10	21.15	21.15		
10	QPSK	25	0	21.14	21.10	21.14	22	0
10	QPSK	25	12	21.16	21.16	21.15		
10	QPSK	25	25	21.12	21.13	21.10		
10	QPSK	50	0	21.14	21.12	21.12		
10	16QAM	1	0	21.06	21.09	21.02	22	0
10	16QAM	1	25	21.02	21.06	21.04		
10	16QAM	1	49	21.01	21.05	21.00		
10	16QAM	25	0	20.64	20.68	20.63	21	1
10	16QAM	25	12	20.71	20.68	20.63		
10	16QAM	25	25	20.66	20.70	20.65		
10	16QAM	50	0	20.72	20.64	20.63		
10	64QAM	1	0	20.76	20.79	20.80	21	1
10	64QAM	1	25	20.85	20.85	20.82		
10	64QAM	1	49	20.79	20.79	20.78		
10	64QAM	25	0	19.61	19.70	19.67	20	2
10	64QAM	25	12	19.78	19.68	19.71		
10	64QAM	25	25	19.74	19.72	19.70		
10	64QAM	50	0	19.75	19.65	19.64		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	21.04	21.06	21.06	22	0
5	QPSK	1	12	21.07	21.09	21.08		
5	QPSK	1	24	21.02	21.04	20.98		
5	QPSK	12	0	21.14	21.16	21.14	22	0
5	QPSK	12	7	21.16	21.19	21.11		
5	QPSK	12	13	21.11	21.13	21.09		
5	QPSK	25	0	21.14	21.11	21.12		
5	16QAM	1	0	21.07	21.10	21.08	22	0
5	16QAM	1	12	21.00	21.04	21.00		
5	16QAM	1	24	21.04	21.06	21.17		
5	16QAM	12	0	20.61	20.69	20.67	21	1
5	16QAM	12	7	20.65	20.70	20.63		
5	16QAM	12	13	20.59	20.67	20.62		
5	16QAM	25	0	20.61	20.64	20.62		
5	64QAM	1	0	20.81	20.87	20.86	21	1
5	64QAM	1	12	20.76	20.80	20.77		
5	64QAM	1	24	20.78	20.83	20.74		
5	64QAM	12	0	19.73	19.75	19.73	20	2
5	64QAM	12	7	19.78	19.74	19.72		
5	64QAM	12	13	19.71	19.73	19.66		
5	64QAM	25	0	19.72	19.65	19.66		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	21.03	21.08	21.02	22	0
3	QPSK	1	8	21.08	21.12	21.07		
3	QPSK	1	14	20.98	21.00	20.98		
3	QPSK	8	0	21.08	21.13	21.07	22	0
3	QPSK	8	4	21.15	21.16	21.07		
3	QPSK	8	7	21.07	21.14	21.05		
3	QPSK	15	0	21.14	21.14	21.06		
3	16QAM	1	0	21.18	21.01	21.15	22	0
3	16QAM	1	8	21.05	21.06	21.03		
3	16QAM	1	14	21.16	21.03	21.09		
3	16QAM	8	0	20.64	20.71	20.66	21	1
3	16QAM	8	4	20.68	20.76	20.64		
3	16QAM	8	7	20.67	20.72	20.65		
3	16QAM	15	0	20.64	20.71	20.61		
3	64QAM	1	0	20.76	20.82	20.80	21	1
3	64QAM	1	8	20.83	20.88	20.84		
3	64QAM	1	14	20.71	20.79	20.69		
3	64QAM	8	0	19.65	19.72	19.65	20	2
3	64QAM	8	4	19.70	19.77	19.66		
3	64QAM	8	7	19.64	19.73	19.66		
3	64QAM	15	0	19.60	19.71	19.61		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	20.89	21.00	20.92	22	0
1.4	QPSK	1	3	21.02	21.00	20.94		
1.4	QPSK	1	5	20.89	20.98	20.86		
1.4	QPSK	3	0	20.96	20.99	20.96		
1.4	QPSK	3	1	21.01	21.04	21.00		
1.4	QPSK	3	3	20.98	20.97	20.92		
1.4	QPSK	6	0	21.04	21.10	21.01	22	0
1.4	16QAM	1	0	21.08	21.00	21.17	22	0
1.4	16QAM	1	3	21.19	21.03	21.14		
1.4	16QAM	1	5	21.13	21.15	21.00		
1.4	16QAM	3	0	21.06	21.09	21.02		
1.4	16QAM	3	1	21.13	21.14	21.05		
1.4	16QAM	3	3	21.03	21.05	20.99		
1.4	16QAM	6	0	20.61	20.72	20.62	21	1
1.4	64QAM	1	0	20.64	20.77	20.71	21	1
1.4	64QAM	1	3	20.74	20.82	20.72		
1.4	64QAM	1	5	20.66	20.71	20.63		
1.4	64QAM	3	0	20.70	20.69	20.66		
1.4	64QAM	3	1	20.70	20.74	20.70		
1.4	64QAM	3	3	20.64	20.69	20.62		
1.4	64QAM	6	0	19.53	19.62	19.57	20	2

Band 7 (2600MHz Band)
Part 27

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	14.96	14.94	14.83	16	0
20	QPSK	1	49	14.83	14.77	14.62		
20	QPSK	1	99	14.81	14.83	14.68		
20	QPSK	50	0	14.83	14.81	14.74	16	0
20	QPSK	50	24	14.95	14.93	14.84		
20	QPSK	50	50	14.93	14.94	14.78		
20	QPSK	100	0	14.94	14.91	14.85		
20	16QAM	1	0	14.95	14.89	14.86	16	0
20	16QAM	1	49	14.94	14.88	14.93		
20	16QAM	1	99	14.93	14.88	14.88		
20	16QAM	50	0	14.72	14.79	14.64	16	0
20	16QAM	50	24	14.85	14.88	14.75		
20	16QAM	50	50	14.92	14.94	14.75		
20	16QAM	100	0	14.82	14.87	14.73		
20	64QAM	1	0	14.77	14.92	14.72	16	0
20	64QAM	1	49	14.89	14.89	14.78		
20	64QAM	1	99	14.89	14.87	14.83		
20	64QAM	50	0	14.81	14.86	14.63	16	0
20	64QAM	50	24	14.78	14.80	14.73		
20	64QAM	50	50	14.85	14.85	14.67		
20	64QAM	100	0	14.71	14.79	14.61		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	14.84	14.81	14.80	16	0
15	QPSK	1	37	14.69	14.71	14.87		
15	QPSK	1	74	14.65	14.83	14.80		
15	QPSK	36	0	14.64	14.70	14.79	16	0
15	QPSK	36	20	14.70	14.80	14.88		
15	QPSK	36	39	14.75	14.81	14.74		
15	QPSK	75	0	14.69	14.76	14.77		
15	16QAM	1	0	14.90	14.87	14.84	16	0
15	16QAM	1	37	14.93	14.91	14.79		
15	16QAM	1	74	14.87	14.94	14.84		
15	16QAM	36	0	14.65	14.71	14.79	16	0
15	16QAM	36	20	14.70	14.81	14.71		
15	16QAM	36	39	14.75	14.80	14.71		
15	16QAM	75	0	14.72	14.76	14.79		
15	64QAM	1	0	14.78	14.76	14.80	16	0
15	64QAM	1	37	14.87	14.86	14.81		
15	64QAM	1	74	14.74	14.81	14.65		
15	64QAM	36	0	14.64	14.78	14.83	16	0
15	64QAM	36	20	14.72	14.86	14.73		
15	64QAM	36	39	14.74	14.92	14.80		
15	64QAM	75	0	14.68	14.83	14.81		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	14.68	14.78	14.83	16	0
10	QPSK	1	25	14.69	14.70	14.85		
10	QPSK	1	49	14.77	14.88	14.89		
10	QPSK	25	0	14.66	14.78	14.90	16	0
10	QPSK	25	12	14.76	14.88	14.95		
10	QPSK	25	25	14.79	14.92	14.91		
10	QPSK	50	0	14.73	14.86	14.90	16	0
10	QPSK	1	0	14.82	14.90	14.94		
10	16QAM	1	25	14.81	14.90	14.94		
10	16QAM	1	49	14.90	14.92	14.91		
10	16QAM	25	0	14.68	14.82	14.89	16	0
10	16QAM	25	12	14.79	14.90	14.94		
10	16QAM	25	25	14.74	14.90	14.91		
10	16QAM	50	0	14.72	14.83	14.86		
10	64QAM	1	0	14.80	14.84	14.91	16	0
10	64QAM	1	25	14.87	14.94	14.89		
10	64QAM	1	49	14.90	14.90	14.92		
10	64QAM	25	0	14.69	14.81	14.90	16	0
10	64QAM	25	12	14.83	14.87	14.91		
10	64QAM	25	25	14.79	14.91	14.92		
10	64QAM	50	0	14.73	14.88	14.93		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	14.63	14.76	14.83	16	0
5	QPSK	1	12	14.77	14.78	14.95		
5	QPSK	1	24	14.68	14.86	14.86		
5	QPSK	12	0	14.58	14.70	14.79	16	0
5	QPSK	12	7	14.60	14.73	14.86		
5	QPSK	12	13	14.63	14.72	14.88		
5	QPSK	25	0	14.61	14.73	14.84		
5	16QAM	1	0	14.78	14.95	14.81	16	0
5	16QAM	1	12	14.82	14.73	14.74		
5	16QAM	1	24	14.81	14.80	14.80		
5	16QAM	12	0	14.59	14.69	14.81	16	0
5	16QAM	12	7	14.61	14.75	14.88		
5	16QAM	12	13	14.66	14.76	14.86		
5	16QAM	25	0	14.63	14.75	14.59		
5	64QAM	1	0	14.68	14.85	14.77	16	0
5	64QAM	1	12	14.73	14.89	14.86		
5	64QAM	1	24	14.77	14.91	14.87		
5	64QAM	12	0	14.64	14.73	14.85	16	0
5	64QAM	12	7	14.64	14.76	14.81		
5	64QAM	12	13	14.66	14.76	14.61		
5	64QAM	25	0	14.61	14.77	14.82		

Band 26 for FCC
(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	20.08	20.12	20.19	21.3	0
15	QPSK	1	37	20.08	20.14	20.14		
15	QPSK	1	74	20.11	20.08	20.08		
15	QPSK	36	0	19.95	20.04	20.03	21.3	0
15	QPSK	36	20	20.03	20.05	20.08		
15	QPSK	36	39	20.02	20.04	20.00		
15	QPSK	75	0	20.00	20.00	20.07		
15	16QAM	1	0	20.03	20.09	20.17	21.3	0
15	16QAM	1	37	20.03	20.10	20.13		
15	16QAM	1	74	20.04	20.02	20.07		
15	16QAM	36	0	19.99	20.01	20.04	21.3	0
15	16QAM	36	20	20.02	19.99	20.00		
15	16QAM	36	39	20.00	20.05	20.03		
15	16QAM	75	0	20.03	20.02	20.11		
15	64QAM	1	0	20.03	20.04	20.08	21.3	0
15	64QAM	1	37	20.10	20.09	20.16		
15	64QAM	1	74	20.06	20.03	20.07		
15	64QAM	36	0	19.52	19.58	19.54	20.8	0.5
15	64QAM	36	20	19.54	19.57	19.53		
15	64QAM	36	39	19.56	19.58	19.63		
15	64QAM	75	0	19.55	19.52	19.60		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	19.87	19.92	20.03	21.3	0
10	QPSK	1	25	19.85	19.96	19.95		
10	QPSK	1	49	19.91	19.96	19.92		
10	QPSK	25	0	19.99	20.04	20.02	21.3	0
10	QPSK	25	12	20.06	20.05	20.11		
10	QPSK	25	25	19.96	20.07	20.07		
10	QPSK	50	0	20.02	20.00	20.10		
10	16QAM	1	0	20.13	20.14	20.17	21.3	0
10	16QAM	1	25	20.15	20.15	20.15		
10	16QAM	1	49	20.10	20.15	20.14		
10	16QAM	25	0	19.99	20.07	20.00	21.3	0
10	16QAM	25	12	20.06	20.03	20.10		
10	16QAM	25	25	19.95	20.01	20.05		
10	16QAM	50	0	20.04	20.01	20.08		
10	64QAM	1	0	20.10	20.08	20.11	21.3	0
10	64QAM	1	25	20.15	20.18	20.12		
10	64QAM	1	49	20.14	20.09	20.11		
10	64QAM	25	0	19.40	19.55	19.55	20.8	0.5
10	64QAM	25	12	19.55	19.55	19.64		
10	64QAM	25	25	19.49	19.59	19.57		
10	64QAM	50	0	19.55	19.54	19.57		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	19.91	19.94	19.97	21.3	0
5	QPSK	1	12	19.96	20.00	20.07		
5	QPSK	1	24	19.88	19.98	19.98		
5	QPSK	12	0	19.99	20.03	20.07	21.3	0
5	QPSK	12	7	20.06	20.06	20.05		
5	QPSK	12	13	19.99	20.03	20.01		
5	QPSK	25	0	20.02	20.01	20.02		
5	16QAM	1	0	20.07	20.08	20.16	21.3	0
5	16QAM	1	12	20.06	20.11	20.18		
5	16QAM	1	24	20.09	20.18	20.14		
5	16QAM	12	0	20.04	20.06	20.06	21.3	0
5	16QAM	12	7	20.05	20.05	20.07		
5	16QAM	12	13	20.03	20.04	20.03		
5	16QAM	25	0	20.05	20.03	20.02		
5	64QAM	1	0	20.02	20.09	20.14	21.3	0
5	64QAM	1	12	20.04	20.15	20.17		
5	64QAM	1	24	20.06	20.16	20.09		
5	64QAM	12	0	19.57	19.57	19.61	20.8	0.5
5	64QAM	12	7	19.58	19.62	19.59		
5	64QAM	12	13	19.54	19.58	19.58		
5	64QAM	25	0	19.55	19.54	19.55		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	19.91	19.94	19.99	21.3	0
3	QPSK	1	8	19.96	20.00	20.01		
3	QPSK	1	14	19.91	19.97	19.92		
3	QPSK	8	0	20.00	20.01	20.08	21.3	0
3	QPSK	8	4	20.03	20.06	20.07		
3	QPSK	8	7	19.98	20.04	20.03		
3	QPSK	15	0	20.02	20.00	20.08		
3	16QAM	1	0	20.00	20.13	20.16	21.3	0
3	16QAM	1	8	20.07	20.16	20.16		
3	16QAM	1	14	20.06	20.15	20.10		
3	16QAM	8	0	20.03	20.10	20.13	21.3	0
3	16QAM	8	4	20.08	20.09	20.12		
3	16QAM	8	7	20.04	20.08	20.06		
3	16QAM	15	0	20.05	20.03	20.07		
3	64QAM	1	0	20.01	20.04	20.17	21.3	0
3	64QAM	1	8	20.12	20.17	20.14		
3	64QAM	1	14	20.07	20.09	20.09		
3	64QAM	8	0	19.53	19.57	19.61	20.8	0.5
3	64QAM	8	4	19.62	19.62	19.59		
3	64QAM	8	7	19.53	19.57	19.56		
3	64QAM	15	0	19.53	19.53	19.55		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	20.07	19.87	19.87	21.3	0
1.4	QPSK	1	3	19.94	19.97	19.92		
1.4	QPSK	1	5	19.85	19.88	19.82		
1.4	QPSK	3	0	19.91	19.88	19.91		
1.4	QPSK	3	1	19.92	19.88	19.95		
1.4	QPSK	3	3	19.87	19.89	19.88		
1.4	QPSK	6	0	19.96	19.94	19.97	21.3	0
1.4	16QAM	1	0	19.99	20.05	20.01	21.3	0
1.4	16QAM	1	3	20.11	20.16	20.10		
1.4	16QAM	1	5	20.00	20.04	20.04		
1.4	16QAM	3	0	19.97	19.95	19.98		
1.4	16QAM	3	1	20.02	19.97	20.01		
1.4	16QAM	3	3	19.92	19.97	19.94		
1.4	16QAM	6	0	19.99	20.01	20.03	21.3	0
1.4	64QAM	1	0	20.02	20.01	20.08	21.3	0
1.4	64QAM	1	3	20.05	20.12	20.10		
1.4	64QAM	1	5	19.96	20.03	20.00		
1.4	64QAM	3	0	20.07	20.09	20.12		
1.4	64QAM	3	1	20.13	20.14	20.10		
1.4	64QAM	3	3	20.05	20.12	20.09		
1.4	64QAM	6	0	19.47	19.45	19.46	20.8	0.5

Band 66

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	16.59	16.67	16.62	18	0
20	QPSK	1	49	16.42	16.57	16.47		
20	QPSK	1	99	16.40	16.44	16.42		
20	QPSK	50	0	16.42	16.51	16.44	18	0
20	QPSK	50	24	16.57	16.63	16.61		
20	QPSK	50	50	16.39	16.49	16.42		
20	QPSK	100	0	16.50	16.58	16.55		
20	16QAM	1	0	16.52	16.53	16.55	18	0
20	16QAM	1	49	16.60	16.60	16.54		
20	16QAM	1	99	16.56	16.52	16.48		
20	16QAM	50	0	16.41	16.54	16.45	18	0
20	16QAM	50	24	16.48	16.51	16.43		
20	16QAM	50	50	16.44	16.52	16.41		
20	16QAM	100	0	16.41	16.56	16.40		
20	64QAM	1	0	16.62	16.62	16.62	18	0
20	64QAM	1	49	16.59	16.60	16.44		
20	64QAM	1	99	16.50	16.50	16.48		
20	64QAM	50	0	16.40	16.55	16.42	18	0
20	64QAM	50	24	16.46	16.51	16.42		
20	64QAM	50	50	16.39	16.52	16.59		
20	64QAM	100	0	16.44	16.56	16.40		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	16.30	16.46	16.46	18	0
15	QPSK	1	37	16.28	16.42	16.34		
15	QPSK	1	74	16.25	16.34	16.29		
15	QPSK	36	0	16.35	16.52	16.43	18	0
15	QPSK	36	20	16.42	16.56	16.51		
15	QPSK	36	39	16.40	16.51	16.42		
15	QPSK	75	0	16.39	16.56	16.47		
15	16QAM	1	0	16.44	16.64	16.60	18	0
15	16QAM	1	37	16.58	16.62	16.54		
15	16QAM	1	74	16.45	16.56	16.49		
15	16QAM	36	0	16.34	16.51	16.40	18	0
15	16QAM	36	20	16.45	16.59	16.47		
15	16QAM	36	39	16.38	16.52	16.39		
15	16QAM	75	0	16.44	16.56	16.44		
15	64QAM	1	0	16.50	16.62	16.60	18	0
15	64QAM	1	37	16.58	16.66	16.59		
15	64QAM	1	74	16.43	16.48	16.48		
15	64QAM	36	0	16.38	16.52	16.42	18	0
15	64QAM	36	20	16.45	16.59	16.47		
15	64QAM	36	39	16.42	16.50	16.42		
15	64QAM	75	0	16.41	16.55	16.40		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	16.27	16.48	16.40	18	0
10	QPSK	1	25	16.28	16.39	16.29		
10	QPSK	1	49	16.23	16.34	16.23		
10	QPSK	25	0	16.33	16.50	16.37	18	0
10	QPSK	25	12	16.43	16.47	16.36		
10	QPSK	25	25	16.40	16.50	16.40		
10	QPSK	50	0	16.42	16.56	16.38		
10	16QAM	1	0	16.55	16.60	16.58	18	0
10	16QAM	1	25	16.46	16.66	16.46		
10	16QAM	1	49	16.48	16.56	16.44		
10	16QAM	25	0	16.29	16.46	16.42	18	0
10	16QAM	25	12	16.43	16.47	16.36		
10	16QAM	25	25	16.38	16.46	16.37		
10	16QAM	50	0	16.40	16.55	16.34		
10	64QAM	1	0	16.35	16.58	16.39	18	0
10	64QAM	1	25	16.37	16.62	16.50		
10	64QAM	1	49	16.38	16.51	16.42		
10	64QAM	25	0	16.30	16.50	16.42	18	0
10	64QAM	25	12	16.47	16.49	16.40		
10	64QAM	25	25	16.36	16.53	16.41		
10	64QAM	50	0	16.43	16.52	16.36		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	16.28	16.40	16.26	18	0
5	QPSK	1	12	16.36	16.46	16.31		
5	QPSK	1	24	16.30	16.41	16.29		
5	QPSK	12	0	16.43	16.51	16.36	18	0
5	QPSK	12	7	16.46	16.57	16.41		
5	QPSK	12	13	16.42	16.53	16.40		
5	QPSK	25	0	16.40	16.54	16.40		
5	16QAM	1	0	16.48	16.61	16.43	18	0
5	16QAM	1	12	16.45	16.59	16.41		
5	16QAM	1	24	16.47	16.60	16.44		
5	16QAM	12	0	16.44	16.49	16.36	18	0
5	16QAM	12	7	16.45	16.57	16.42		
5	16QAM	12	13	16.40	16.52	16.38		
5	16QAM	25	0	16.41	16.52	16.38		
5	64QAM	1	0	16.35	16.59	16.42	18	0
5	64QAM	1	12	16.40	16.54	16.44		
5	64QAM	1	24	16.34	16.44	16.35		
5	64QAM	12	0	16.43	16.57	16.43	18	0
5	64QAM	12	7	16.46	16.63	16.46		
5	64QAM	12	13	16.41	16.56	16.43		
5	64QAM	25	0	16.39	16.56	16.38		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	16.36	16.40	16.26	18	0
3	QPSK	1	8	16.42	16.48	16.36		
3	QPSK	1	14	16.35	16.40	16.32		
3	QPSK	8	0	16.33	16.47	16.33	18	0
3	QPSK	8	4	16.46	16.57	16.36		
3	QPSK	8	7	16.43	16.54	16.36		
3	QPSK	15	0	16.42	16.54	16.30		
3	16QAM	1	0	16.44	16.61	16.44	18	0
3	16QAM	1	8	16.50	16.66	16.59		
3	16QAM	1	14	16.48	16.60	16.50		
3	16QAM	8	0	16.42	16.52	16.39	18	0
3	16QAM	8	4	16.46	16.59	16.39		
3	16QAM	8	7	16.41	16.58	16.43		
3	16QAM	15	0	16.40	16.56	16.34		
3	64QAM	1	0	16.37	16.55	16.39	18	0
3	64QAM	1	8	16.48	16.63	16.47		
3	64QAM	1	14	16.38	16.49	16.35		
3	64QAM	8	0	16.40	16.55	16.42	18	0
3	64QAM	8	4	16.45	16.59	16.44		
3	64QAM	8	7	16.43	16.59	16.40		
3	64QAM	15	0	16.42	16.52	16.38		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	16.34	16.39	16.23	18	0
1.4	QPSK	1	3	16.28	16.44	16.30		
1.4	QPSK	1	5	16.19	16.36	16.23		
1.4	QPSK	3	0	16.21	16.41	16.25		
1.4	QPSK	3	1	16.23	16.42	16.29		
1.4	QPSK	3	3	16.19	16.42	16.24		
1.4	QPSK	6	0	16.28	16.51	16.34	18	0
1.4	16QAM	1	0	16.35	16.56	16.41	18	0
1.4	16QAM	1	3	16.45	16.65	16.49		
1.4	16QAM	1	5	16.37	16.58	16.38		
1.4	16QAM	3	0	16.34	16.47	16.34		
1.4	16QAM	3	1	16.34	16.48	16.36		
1.4	16QAM	3	3	16.24	16.41	16.30		
1.4	16QAM	6	0	16.35	16.54	16.40	18	0
1.4	64QAM	1	0	16.35	16.59	16.48	18	0
1.4	64QAM	1	3	16.51	16.64	16.52		
1.4	64QAM	1	5	16.42	16.56	16.44		
1.4	64QAM	3	0	16.41	16.56	16.45		
1.4	64QAM	3	1	16.46	16.64	16.51		
1.4	64QAM	3	3	16.41	16.56	16.41		
1.4	64QAM	6	0	16.30	16.40	16.35	18	0

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				37850	38000	38150		
Frequency (MHz)				2580	2590	2610		
20	QPSK	1	0	17.49	17.37	17.37	18	0
20	QPSK	1	49	17.45	17.29	17.38		
20	QPSK	1	99	17.43	17.34	17.23		
20	QPSK	50	0	17.33	17.26	17.35	18	0
20	QPSK	50	24	17.42	17.26	17.42		
20	QPSK	50	50	17.33	17.29	17.40		
20	QPSK	100	0	17.39	17.33	17.33		
20	16QAM	1	0	17.44	17.43	17.36	18	0
20	16QAM	1	49	17.44	17.33	17.37		
20	16QAM	1	99	17.30	17.37	17.40		
20	16QAM	50	0	17.45	17.33	17.38	18	0
20	16QAM	50	24	17.48	17.21	17.41		
20	16QAM	50	50	17.32	17.36	17.39		
20	16QAM	100	0	17.44	17.29	17.41		
20	64QAM	1	0	17.07	16.91	17.10	18	0
20	64QAM	1	49	17.10	16.99	17.22		
20	64QAM	1	99	17.07	17.08	17.09		
20	64QAM	50	0	17.17	17.29	17.39	18	0
20	64QAM	50	24	17.32	17.35	17.32		
20	64QAM	50	50	17.37	17.41	17.41		
20	64QAM	100	0	17.46	17.23	17.40		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	17.19	17.10	17.26	18	0
15	QPSK	1	37	17.31	17.10	17.27		
15	QPSK	1	74	17.44	17.25	17.29		
15	QPSK	36	0	17.44	17.20	17.37	18	0
15	QPSK	36	20	17.37	17.25	17.36		
15	QPSK	36	39	17.48	17.33	17.44		
15	QPSK	75	0	17.45	17.30	17.35		
15	16QAM	1	0	17.32	17.37	17.37	18	0
15	16QAM	1	37	17.15	17.27	17.44		
15	16QAM	1	74	17.40	17.39	17.47		
15	16QAM	36	0	17.40	17.29	17.31	18	0
15	16QAM	36	20	17.40	17.24	17.35		
15	16QAM	36	39	17.40	17.28	17.38		
15	16QAM	75	0	17.21	17.26	17.37		
15	64QAM	1	0	17.01	16.97	17.20	18	0
15	64QAM	1	37	17.09	17.11	17.16		
15	64QAM	1	74	17.18	17.08	16.93		
15	64QAM	36	0	17.37	17.27	17.41	18	0
15	64QAM	36	20	17.45	17.25	17.42		
15	64QAM	36	39	17.45	17.42	17.41		
15	64QAM	75	0	17.43	17.26	17.46		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	17.38	17.09	17.17	18	0
10	QPSK	1	25	17.37	17.09	17.36		
10	QPSK	1	49	17.19	17.16	17.42		
10	QPSK	25	0	17.34	17.18	17.37	18	0
10	QPSK	25	12	17.42	17.19	17.37		
10	QPSK	25	25	17.43	17.41	17.48		
10	QPSK	50	0	17.31	17.30	17.39		
10	16QAM	1	0	17.40	17.26	17.46	18	0
10	16QAM	1	25	17.42	17.45	17.47		
10	16QAM	1	49	17.43	17.32	17.31		
10	16QAM	25	0	17.27	17.28	17.31	18	0
10	16QAM	25	12	17.33	17.27	17.43		
10	16QAM	25	25	17.31	17.35	17.47		
10	16QAM	50	0	17.42	17.28	17.37		
10	64QAM	1	0	16.89	16.95	17.44	18	0
10	64QAM	1	25	17.14	17.35	16.97		
10	64QAM	1	49	17.02	17.14	17.02		
10	64QAM	25	0	17.35	17.40	17.32	18	0
10	64QAM	25	12	17.42	17.48	17.41		
10	64QAM	25	25	17.40	17.35	17.31		
10	64QAM	50	0	17.47	17.27	17.39		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	17.30	17.25	17.41	18	0
5	QPSK	1	12	17.48	17.32	17.40		
5	QPSK	1	24	17.44	17.30	17.41		
5	QPSK	12	0	17.45	17.28	17.42	18	0
5	QPSK	12	7	17.32	17.32	17.44		
5	QPSK	12	13	17.42	17.30	17.45		
5	QPSK	25	0	17.46	17.25	17.40		
5	16QAM	1	0	17.32	17.20	17.40	18	0
5	16QAM	1	12	17.38	17.28	17.22		
5	16QAM	1	24	17.36	17.39	17.36		
5	16QAM	12	0	17.36	17.22	17.37	18	0
5	16QAM	12	7	17.45	17.25	17.33		
5	16QAM	12	13	17.35	17.28	17.41		
5	16QAM	25	0	17.44	17.30	17.41		
5	64QAM	1	0	17.29	17.06	17.15	18	0
5	64QAM	1	12	17.23	17.13	17.25		
5	64QAM	1	24	17.02	17.17	17.22		
5	64QAM	12	0	17.41	17.31	17.41	18	0
5	64QAM	12	7	17.31	17.28	17.47		
5	64QAM	12	13	17.43	17.38	17.46		
5	64QAM	25	0	17.44	17.26	17.46		

Band 41 (2.5G Band)--Class 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	16.50	16.78	17.04	17.11	16.90	18.5	0
20	QPSK	1	49	16.52	17.04	17.07	17.10	16.86		
20	QPSK	1	99	16.74	16.98	17.14	17.13	17.02		
20	QPSK	50	0	16.72	16.97	17.10	17.05	17.07	18.5	0
20	QPSK	50	24	16.76	17.10	17.12	17.08	17.03		
20	QPSK	50	50	16.68	17.08	17.11	17.08	17.07		
20	QPSK	100	0	16.99	17.08	17.13	17.09	17.01		
20	16QAM	1	0	16.56	16.62	16.96	17.04	17.08	18.5	0
20	16QAM	1	49	16.50	16.75	17.06	16.92	16.75		
20	16QAM	1	99	16.54	16.87	16.96	17.00	16.80		
20	16QAM	50	0	16.64	16.80	17.02	17.07	16.81	18.5	0
20	16QAM	50	24	16.58	16.99	17.08	16.96	16.87		
20	16QAM	50	50	16.61	16.98	17.12	17.11	16.96		
20	16QAM	100	0	16.51	17.00	17.02	16.96	16.93		
20	64QAM	1	0	16.18	16.22	16.76	16.54	16.67	18.5	0
20	64QAM	1	49	16.20	16.37	16.74	16.53	16.35		
20	64QAM	1	99	16.12	16.52	16.78	16.81	16.29		
20	64QAM	50	0	16.55	17.07	17.00	16.97	16.96	18.5	0
20	64QAM	50	24	16.61	16.93	17.13	16.94	16.97		
20	64QAM	50	50	16.53	16.93	17.13	17.09	17.04		
20	64QAM	100	0	16.59	16.93	17.06	17.03	17.07		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	16.58	16.71	17.01	16.80	16.67	18.5	0
15	QPSK	1	37	16.57	16.72	16.88	16.85	16.80		
15	QPSK	1	74	16.56	16.91	16.97	16.94	16.78		
15	QPSK	36	0	16.75	16.87	17.00	16.96	16.86	18.5	0
15	QPSK	36	20	16.76	16.89	16.98	17.02	16.86		
15	QPSK	36	39	16.70	16.96	17.10	17.04	16.91		
15	QPSK	75	0	16.75	16.99	16.98	17.00	16.86		
15	16QAM	1	0	16.64	16.70	17.08	17.00	16.98	18.5	0
15	16QAM	1	37	16.57	16.82	17.05	16.63	16.76		
15	16QAM	1	74	16.62	16.88	17.02	17.00	16.97		
15	16QAM	36	0	16.75	16.70	16.90	16.95	16.82	18.5	0
15	16QAM	36	20	16.65	16.89	16.93	16.89	16.84		
15	16QAM	36	39	16.73	16.85	17.05	17.03	16.92		
15	16QAM	75	0	16.84	16.95	17.00	17.06	16.91		
15	64QAM	1	0	16.53	16.59	16.66	16.61	17.12	18.5	0
15	64QAM	1	37	16.55	16.65	16.89	16.66	16.60		
15	64QAM	1	74	16.50	16.50	17.06	16.70	16.64		
15	64QAM	36	0	16.78	16.82	16.98	17.05	16.87	18.5	0
15	64QAM	36	20	16.70	16.83	17.08	17.01	16.96		
15	64QAM	36	39	16.72	16.89	16.95	17.06	16.91		
15	64QAM	75	0	16.73	16.87	17.05	16.99	16.87		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	16.65	16.88	17.01	16.94	16.83	18.5	0
10	QPSK	1	25	16.60	16.90	17.05	16.88	16.79		
10	QPSK	1	49	16.63	16.97	17.06	16.83	16.83		
10	QPSK	25	0	16.82	16.84	17.00	16.89	16.89	18.5	0
10	QPSK	25	12	16.78	17.03	17.11	17.07	16.99		
10	QPSK	25	25	16.75	16.88	17.12	17.04	16.93		
10	QPSK	50	0	16.69	16.88	16.97	17.11	16.95		
10	16QAM	1	0	16.78	16.87	17.09	16.98	16.91	18.5	0
10	16QAM	1	25	16.72	16.99	17.03	16.98	16.88		
10	16QAM	1	49	16.74	16.91	17.12	16.98	16.89		
10	16QAM	25	0	16.79	16.74	17.00	16.83	16.98	18.5	0
10	16QAM	25	12	16.78	16.91	17.11	17.10	16.99		
10	16QAM	25	25	16.90	16.86	17.08	17.05	16.92		
10	16QAM	50	0	17.06	16.85	17.06	17.13	17.06		
10	64QAM	1	0	16.58	16.59	16.87	16.62	16.88	18.5	0
10	64QAM	1	25	16.50	16.87	16.92	16.77	16.95		
10	64QAM	1	49	16.57	16.82	16.98	17.03	16.67		
10	64QAM	25	0	16.75	16.99	17.01	16.92	16.93	18.5	0
10	64QAM	25	12	17.01	17.04	17.01	17.13	17.07		
10	64QAM	25	25	16.99	16.89	17.03	17.08	16.99		
10	64QAM	50	0	16.72	16.88	16.96	17.01	16.97		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	16.79	16.67	16.90	16.84	16.78	18.5	0
5	QPSK	1	12	16.56	16.85	17.03	16.86	16.74		
5	QPSK	1	24	16.64	16.73	17.01	16.92	16.74		
5	QPSK	12	0	16.81	16.68	17.09	17.07	16.92	18.5	0
5	QPSK	12	7	16.79	16.98	17.11	17.12	16.85		
5	QPSK	12	13	16.81	16.91	17.12	16.97	16.83		
5	QPSK	25	0	16.72	16.93	17.09	17.06	16.90		
5	16QAM	1	0	16.78	16.70	17.13	17.11	17.01	18.5	0
5	16QAM	1	12	16.69	17.06	16.98	16.93	16.83		
5	16QAM	1	24	16.79	17.09	17.01	17.13	16.97		
5	16QAM	12	0	16.72	16.84	17.12	17.06	16.87	18.5	0
5	16QAM	12	7	16.80	16.93	17.10	17.10	16.85		
5	16QAM	12	13	16.71	16.85	17.10	16.96	16.82		
5	16QAM	25	0	16.80	16.94	17.11	17.00	16.97		
5	64QAM	1	0	16.50	16.51	16.85	16.68	16.73	18.5	0
5	64QAM	1	12	16.50	16.65	16.98	16.83	16.72		
5	64QAM	1	24	16.52	16.55	17.01	16.70	16.65		
5	64QAM	12	0	16.79	16.81	16.97	17.09	16.99	18.5	0
5	64QAM	12	7	16.77	16.99	17.05	17.12	17.01		
5	64QAM	12	13	16.79	16.92	17.12	17.10	16.96		
5	64QAM	25	0	16.75	16.96	16.96	17.10	16.97		

Band 41 (2.6G Band) HPUE (Limit 27)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	19.05	19.30	19.49	19.51	19.53	20.2	0
20	QPSK	1	49	19.01	19.37	19.53	19.49	19.35		
20	QPSK	1	99	18.97	19.47	19.50	19.56	19.40		
20	QPSK	50	0	18.97	19.34	19.50	19.39	19.30	20.2	0
20	QPSK	50	24	19.05	19.38	19.55	19.54	19.46		
20	QPSK	50	50	18.94	19.37	19.52	19.52	19.25		
20	QPSK	100	0	19.17	19.37	19.54	19.42	19.33		
20	16QAM	1	0	19.16	19.52	19.44	19.47	19.51	20.2	0
20	16QAM	1	49	19.13	19.46	19.44	19.44	19.30		
20	16QAM	1	99	18.91	19.49	19.50	19.56	19.37		
20	16QAM	50	0	19.03	19.28	19.49	19.55	19.29	20.2	0
20	16QAM	50	24	19.06	19.10	19.51	19.47	19.33		
20	16QAM	50	50	19.00	19.34	19.47	19.45	19.40		
20	16QAM	100	0	18.95	19.42	19.57	19.47	19.34		
20	64QAM	1	0	19.01	19.17	19.43	19.53	19.48	20.2	0
20	64QAM	1	49	18.91	19.23	19.54	19.44	19.18		
20	64QAM	1	99	18.87	19.53	19.54	19.52	19.27		
20	64QAM	50	0	19.05	19.25	19.53	19.42	19.35	20.2	0
20	64QAM	50	24	19.08	19.40	19.55	19.41	19.34		
20	64QAM	50	50	18.97	19.42	19.56	19.51	19.30		
20	64QAM	100	0	19.08	19.34	19.54	19.46	19.39		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	18.71	19.13	19.23	19.23	19.03	20.2	0
15	QPSK	1	37	18.72	19.10	19.28	19.19	19.14		
15	QPSK	1	74	18.68	19.09	19.32	19.33	19.14		
15	QPSK	36	0	18.96	19.17	19.35	19.39	19.20	20.2	0
15	QPSK	36	20	18.92	19.34	19.44	19.34	19.38		
15	QPSK	36	39	18.85	19.30	19.52	19.48	19.33		
15	QPSK	75	0	18.89	19.32	19.49	19.41	19.18		
15	16QAM	1	0	19.12	19.36	19.51	19.42	19.55	20.2	0
15	16QAM	1	37	19.11	19.44	19.46	19.48	19.24		
15	16QAM	1	74	19.04	19.43	19.58	19.45	19.48		
15	16QAM	36	0	18.95	19.25	19.45	19.39	19.33	20.2	0
15	16QAM	36	20	18.88	19.26	19.38	19.34	19.30		
15	16QAM	36	39	18.88	19.23	19.56	19.36	19.22		
15	16QAM	75	0	19.02	19.35	19.42	19.33	19.23		
15	64QAM	1	0	18.99	19.21	19.47	19.41	19.45	20.2	0
15	64QAM	1	37	18.92	19.37	19.51	19.42	19.34		
15	64QAM	1	74	18.97	19.57	19.58	19.55	19.08		
15	64QAM	36	0	18.88	19.26	19.42	19.48	19.31	20.2	0
15	64QAM	36	20	18.95	19.35	19.53	19.43	19.23		
15	64QAM	36	39	18.88	19.35	19.55	19.46	19.36		
15	64QAM	75	0	18.93	19.40	19.45	19.44	19.22		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	18.8	19.09	19.34	19.32	19.28	20.2	0
10	QPSK	1	25	18.65	19.08	19.37	19.19	19.15		
10	QPSK	1	49	18.75	19.15	19.53	19.39	19.04		
10	QPSK	25	0	18.98	19.27	19.46	19.42	19.35	20.2	0
10	QPSK	25	12	18.94	19.32	19.48	19.48	19.36		
10	QPSK	25	25	18.92	19.32	19.52	19.45	19.28		
10	QPSK	50	0	19.03	19.27	19.51	19.46	19.33		
10	16QAM	1	0	19.24	19.5	19.5	19.52	19.44	20.2	0
10	16QAM	1	25	19.09	19.49	19.5	19.49	19.43		
10	16QAM	1	49	19.13	19.51	19.52	19.57	19.34		
10	16QAM	25	0	18.89	19.12	19.51	19.36	19.34	20.2	0
10	16QAM	25	12	18.95	19.29	19.53	19.48	19.35		
10	16QAM	25	25	19.01	19.26	19.49	19.43	19.37		
10	16QAM	50	0	19.02	19.41	19.45	19.5	19.41		
10	64QAM	1	0	19.21	19.42	19.58	19.45	19.44	20.2	0
10	64QAM	1	25	19.16	19.39	19.52	19.57	19.43		
10	64QAM	1	49	19.13	19.55	19.58	19.48	19.40		
10	64QAM	25	0	18.97	19.25	19.50	19.47	19.45	20.2	0
10	64QAM	25	12	19.00	19.45	19.51	19.43	19.36		
10	64QAM	25	25	19.11	19.40	19.58	19.50	19.30		
10	64QAM	50	0	18.97	19.35	19.50	19.51	19.40		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	18.83	19.15	19.32	19.20	19.25	20.2	0
5	QPSK	1	12	18.69	19.14	19.42	19.31	19.05		
5	QPSK	1	24	18.80	19.13	19.45	19.26	19.17		
5	QPSK	12	0	18.93	19.26	19.49	19.42	19.33	20.2	0
5	QPSK	12	7	19.02	19.33	19.50	19.48	19.37		
5	QPSK	12	13	18.94	19.34	19.51	19.49	19.26		
5	QPSK	25	0	18.94	19.35	19.49	19.48	19.23		
5	16QAM	1	0	19.21	19.30	19.58	19.52	19.43	20.2	0
5	16QAM	1	12	19.01	19.31	19.50	19.51	19.39		
5	16QAM	1	24	19.13	19.55	19.50	19.44	19.47		
5	16QAM	12	0	19.03	19.28	19.51	19.45	19.36	20.2	0
5	16QAM	12	7	19.11	19.41	19.56	19.50	19.40		
5	16QAM	12	13	19.03	19.34	19.56	19.45	19.34		
5	16QAM	25	0	18.96	19.40	19.55	19.53	19.34		
5	64QAM	1	0	19.13	19.27	19.38	19.42	19.42	20.2	0
5	64QAM	1	12	19.04	19.48	19.52	19.35	19.18		
5	64QAM	1	24	18.95	19.50	19.54	19.50	19.24		
5	64QAM	12	0	19.08	19.33	19.55	19.49	19.36	20.2	0
5	64QAM	12	7	19.07	19.40	19.55	19.54	19.40		
5	64QAM	12	13	19.08	19.36	19.51	19.45	19.29		
5	64QAM	25	0	19.04	19.39	19.57	19.53	19.32		

Reduced power level 2/3/4 for Head-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	28.94	28.48	28.73	30.00	19.94	19.48	19.73	21.00
GPRS 1 Tx slot	28.92	28.46	28.72	30.00	19.92	19.46	19.72	21.00
GPRS 2 Tx slots	27.44	27.59	27.48	28.50	21.44	21.59	21.48	22.50
GPRS 3 Tx slots	25.91	26.08	25.62	26.80	21.65	21.82	21.36	22.54
GPRS 4 Tx slots	25.06	24.65	24.81	25.80	22.06	21.65	21.81	22.80
EDGE 1 Tx slot	22.35	22.64	22.38	24.00	13.35	13.64	13.38	15.00
EDGE 2 Tx slots	21.38	21.63	21.51	22.50	15.38	15.63	15.51	16.50
EDGE 3 Tx slots	20.21	20.31	20.25	21.50	15.95	16.05	15.99	17.24
EDGE 4 Tx slots	19.45	19.67	19.45	21.00	16.45	16.67	16.45	18.00

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	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	25.64	25.85	26.01	26.50	16.64	16.85	17.01	17.50
GPRS 1 Tx slot	25.62	25.75	25.75	26.50	16.62	16.75	16.75	17.50
GPRS 2 Tx slots	22.60	22.92	22.77	23.50	16.60	16.92	16.77	17.50
GPRS 3 Tx slots	21.69	21.77	21.79	22.50	17.43	17.51	17.53	18.24
GPRS 4 Tx slots	20.83	20.80	20.79	21.50	17.83	17.80	17.79	18.50
EDGE 1 Tx slot	21.38	21.51	21.23	22.00	12.38	12.51	12.23	13.00
EDGE 2 Tx slots	20.11	20.41	20.28	21.00	14.11	14.41	14.28	15.00
EDGE 3 Tx slots	19.25	19.44	19.15	20.00	14.99	15.18	14.89	15.74
EDGE 4 Tx slots	19.02	19.32	19.03	20.00	16.02	16.32	16.03	17.00

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	17.00	17.12	17.01	17.50	17.35	17.51	17.44	18.00	19.79	19.85	19.78	20.50
3GPP Rel 99	RMC 12.2Kbps	17.02	17.16	17.03	17.50	17.37	17.54	17.46	18.00	19.81	19.87	19.81	20.50
3GPP Rel 6	HSDPA Subtest-1	16.15	16.31	16.13	16.50	16.18	16.33	16.29	17.00	18.83	18.85	18.85	19.50
3GPP Rel 6	HSDPA Subtest-2	16.13	16.30	16.17	16.50	16.20	16.32	16.28	17.00	18.52	18.87	18.89	19.50
3GPP Rel 6	HSDPA Subtest-3	15.64	15.82	15.66	16.00	15.65	15.86	15.75	16.50	18.35	18.02	18.36	19.00
3GPP Rel 6	HSDPA Subtest-4	15.62	15.78	15.68	16.00	15.65	15.82	15.78	16.50	18.38	18.39	18.33	19.00
3GPP Rel 8	DC-HSDPA Subtest-1	16.10	16.15	16.08	16.50	16.10	16.18	16.18	17.00	18.73	18.70	18.76	19.50
3GPP Rel 8	DC-HSDPA Subtest-2	16.08	16.13	16.12	16.50	16.07	16.21	16.14	17.00	18.40	18.75	18.74	19.50
3GPP Rel 8	DC-HSDPA Subtest-3	15.60	15.62	15.58	16.00	15.51	15.77	15.60	16.50	18.23	17.92	18.22	19.00
3GPP Rel 8	DC-HSDPA Subtest-4	15.54	15.60	15.60	16.00	15.51	15.71	15.63	16.50	18.27	18.30	18.20	19.00
3GPP Rel 6	HSUPA Subtest-1	16.12	16.21	16.11	16.50	16.22	16.35	16.18	17.00	18.84	18.91	18.84	19.50
3GPP Rel 6	HSUPA Subtest-2	14.14	14.28	14.15	14.50	14.18	14.26	14.28	15.00	16.83	16.86	16.86	17.50
3GPP Rel 6	HSUPA Subtest-3	14.03	14.24	14.05	14.50	14.17	14.24	14.30	15.00	17.85	17.80	17.84	18.50
3GPP Rel 6	HSUPA Subtest-4	14.15	14.25	14.19	14.50	14.18	14.31	14.30	15.00	16.85	16.89	16.84	17.50
3GPP Rel 6	HSUPA Subtest-5	16.10	16.30	16.10	16.50	16.20	16.30	16.20	17.00	18.80	18.90	18.90	19.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	13.68	13.72	13.70	14.00	13.63	13.75	13.72	14.50	16.33	16.37	16.34	17.00

Reduced power level 2 for Head-UAT

Band 2 (1900MHz Band)
Part 24E

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	16.87	16.92	16.86	18	0
20	QPSK	1	49	16.73	16.84	16.81		
20	QPSK	1	99	16.70	16.77	16.73		
20	QPSK	50	0	16.73	16.86	16.79	18	0
20	QPSK	50	24	16.82	16.88	16.80		
20	QPSK	50	50	16.76	16.87	16.75		
20	QPSK	100	0	16.81	16.85	16.84		
20	16QAM	1	0	16.86	16.84	16.82	18	0
20	16QAM	1	49	16.76	16.82	16.81		
20	16QAM	1	99	16.68	16.88	16.74		
20	16QAM	50	0	16.65	16.74	16.69	18	0
20	16QAM	50	24	16.74	16.77	16.73		
20	16QAM	50	50	16.72	16.79	16.77		
20	16QAM	100	0	16.71	16.72	16.76		
20	64QAM	1	0	16.72	16.72	16.70	18	0
20	64QAM	1	49	16.60	16.61	16.66		
20	64QAM	1	99	16.53	16.71	16.59		
20	64QAM	50	0	16.68	16.75	16.72	18	0
20	64QAM	50	24	16.74	16.79	16.75		
20	64QAM	50	50	16.67	16.82	16.80		
20	64QAM	100	0	16.75	16.74	16.77		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	16.82	16.89	16.85	18	0
15	QPSK	1	37	16.73	16.85	16.85		
15	QPSK	1	74	16.78	16.83	16.78		
15	QPSK	36	0	16.67	16.70	16.68	18	0
15	QPSK	36	20	16.71	16.73	16.75		
15	QPSK	36	39	16.69	16.79	16.73		
15	QPSK	75	0	16.67	16.72	16.76		
15	16QAM	1	0	16.84	16.83	16.84	18	0
15	16QAM	1	37	16.75	16.82	16.79		
15	16QAM	1	74	16.72	16.88	16.79		
15	16QAM	36	0	16.70	16.72	16.66	18	0
15	16QAM	36	20	16.70	16.72	16.74		
15	16QAM	36	39	16.70	16.82	16.74		
15	16QAM	75	0	16.70	16.74	16.74		
15	64QAM	1	0	16.75	16.79	16.74	18	0
15	64QAM	1	37	16.71	16.82	16.75		
15	64QAM	1	74	16.68	16.74	16.69		
15	64QAM	36	0	16.72	16.76	16.70	18	0
15	64QAM	36	20	16.78	16.75	16.81		
15	64QAM	36	39	16.69	16.87	16.76		
15	64QAM	75	0	16.69	16.72	16.77		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	16.78	16.79	16.80	18	0
10	QPSK	1	25	16.69	16.84	16.81		
10	QPSK	1	49	16.76	16.85	16.80		
10	QPSK	25	0	16.66	16.66	16.63	18	0
10	QPSK	25	12	16.68	16.76	16.74		
10	QPSK	25	25	16.71	16.80	16.78		
10	QPSK	50	0	16.73	16.73	16.75		
10	16QAM	1	0	16.85	16.83	16.84	18	0
10	16QAM	1	25	16.73	16.85	16.85		
10	16QAM	1	49	16.77	16.85	16.86		
10	16QAM	25	0	16.62	16.67	16.59	18	0
10	16QAM	25	12	16.69	16.75	16.77		
10	16QAM	25	25	16.72	16.83	16.68		
10	16QAM	50	0	16.70	16.74	16.74		
10	64QAM	1	0	16.84	16.87	16.75	18	0
10	64QAM	1	25	16.79	16.84	16.74		
10	64QAM	1	49	16.73	16.75	16.82		
10	64QAM	25	0	16.71	16.69	16.64	18	0
10	64QAM	25	12	16.70	16.75	16.77		
10	64QAM	25	25	16.66	16.87	16.78		
10	64QAM	50	0	16.75	16.71	16.77		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	16.84	16.79	16.70	18	0
5	QPSK	1	12	16.85	16.89	16.80		
5	QPSK	1	24	16.76	16.91	16.80		
5	QPSK	12	0	16.72	16.68	16.64	18	0
5	QPSK	12	7	16.78	16.82	16.69		
5	QPSK	12	13	16.70	16.80	16.71		
5	QPSK	25	0	16.70	16.72	16.65		
5	16QAM	1	0	16.88	16.85	16.81	18	0
5	16QAM	1	12	16.81	16.86	16.85		
5	16QAM	1	24	16.81	16.85	16.88		
5	16QAM	12	0	16.76	16.73	16.67	18	0
5	16QAM	12	7	16.79	16.83	16.71		
5	16QAM	12	13	16.69	16.83	16.74		
5	16QAM	25	0	16.66	16.74	16.67		
5	64QAM	1	0	16.79	16.79	16.74	18	0
5	64QAM	1	12	16.80	16.83	16.86		
5	64QAM	1	24	16.78	16.87	16.80		
5	64QAM	12	0	16.79	16.76	16.66	18	0
5	64QAM	12	7	16.82	16.85	16.70		
5	64QAM	12	13	16.73	16.84	16.75		
5	64QAM	25	0	16.70	16.72	16.67		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	16.78	16.73	16.68	18	0
3	QPSK	1	8	16.82	16.84	16.76		
3	QPSK	1	14	16.71	16.80	16.71		
3	QPSK	8	0	16.76	16.71	16.66	18	0
3	QPSK	8	4	16.80	16.77	16.74		
3	QPSK	8	7	16.77	16.81	16.69		
3	QPSK	15	0	16.73	16.72	16.71		
3	16QAM	1	0	16.83	16.87	16.84	18	0
3	16QAM	1	8	16.80	16.84	16.87		
3	16QAM	1	14	16.82	16.85	16.85		
3	16QAM	8	0	16.82	16.79	16.75	18	0
3	16QAM	8	4	16.81	16.81	16.83		
3	16QAM	8	7	16.82	16.83	16.77		
3	16QAM	15	0	16.80	16.75	16.73		
3	64QAM	1	0	16.78	16.77	16.79	18	0
3	64QAM	1	8	16.84	16.88	16.84		
3	64QAM	1	14	16.74	16.88	16.88		
3	64QAM	8	0	16.79	16.77	16.70	18	0
3	64QAM	8	4	16.81	16.88	16.73		
3	64QAM	8	7	16.79	16.83	16.74		
3	64QAM	15	0	16.80	16.74	16.76		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	16.78	16.78	16.68	18	0
1.4	QPSK	1	3	16.87	16.86	16.76		
1.4	QPSK	1	5	16.80	16.78	16.72		
1.4	QPSK	3	0	16.58	16.66	16.53		
1.4	QPSK	3	1	16.64	16.66	16.56		
1.4	QPSK	3	3	16.65	16.63	16.53		
1.4	QPSK	6	0	16.70	16.67	16.58	18	0
1.4	16QAM	1	0	16.78	16.81	16.65	18	0
1.4	16QAM	1	3	16.83	16.80	16.79		
1.4	16QAM	1	5	16.82	16.84	16.72		
1.4	16QAM	3	0	16.70	16.72	16.59		
1.4	16QAM	3	1	16.70	16.78	16.64		
1.4	16QAM	3	3	16.69	16.74	16.57		
1.4	16QAM	6	0	16.79	16.80	16.65	18	0
1.4	64QAM	1	0	16.70	16.80	16.75	18	0
1.4	64QAM	1	3	16.78	16.86	16.83		
1.4	64QAM	1	5	16.72	16.79	16.75		
1.4	64QAM	3	0	16.86	16.84	16.74		
1.4	64QAM	3	1	16.81	16.86	16.79		
1.4	64QAM	3	3	16.80	16.83	16.77		
1.4	64QAM	6	0	16.73	16.74	16.65	18	0

Band 4 (AWS Band)
Part 27L (only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	16.73	16.83	16.74	18	0
20	QPSK	1	49	16.59	16.69	16.61		
20	QPSK	1	99	16.53	16.63	16.62		
20	QPSK	50	0	16.74	16.75	16.76	18	0
20	QPSK	50	24	16.77	16.78	16.77		
20	QPSK	50	50	16.70	16.70	16.74		
20	QPSK	100	0	16.75	16.77	16.76		
20	16QAM	1	0	16.70	16.80	16.73	18	0
20	16QAM	1	49	16.72	16.72	16.78		
20	16QAM	1	99	16.75	16.75	16.81		
20	16QAM	50	0	16.56	16.56	16.65	18	0
20	16QAM	50	24	16.57	16.57	16.62		
20	16QAM	50	50	16.50	16.50	16.52		
20	16QAM	100	0	16.55	16.55	16.58		
20	64QAM	1	0	16.67	16.67	16.74	18	0
20	64QAM	1	49	16.56	16.56	16.72		
20	64QAM	1	99	16.52	16.52	16.73		
20	64QAM	50	0	16.57	16.57	16.66	18	0
20	64QAM	50	24	16.59	16.59	16.67		
20	64QAM	50	50	16.53	16.53	16.53		
20	64QAM	100	0	16.61	16.61	16.65		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	16.49	16.61	16.59	18	0
15	QPSK	1	37	16.36	16.39	16.39		
15	QPSK	1	74	16.37	16.38	16.39		
15	QPSK	36	0	16.53	16.61	16.59	18	0
15	QPSK	36	20	16.54	16.54	16.50		
15	QPSK	36	39	16.51	16.57	16.52		
15	QPSK	75	0	16.53	16.54	16.51		
15	16QAM	1	0	16.69	16.67	16.69	18	0
15	16QAM	1	37	16.73	16.80	16.68		
15	16QAM	1	74	16.72	16.72	16.70		
15	16QAM	36	0	16.54	16.63	16.58	18	0
15	16QAM	36	20	16.53	16.57	16.55		
15	16QAM	36	39	16.49	16.58	16.56		
15	16QAM	75	0	16.56	16.56	16.58		
15	64QAM	1	0	16.74	16.82	16.78	18	0
15	64QAM	1	37	16.63	16.68	16.68		
15	64QAM	1	74	16.57	16.63	16.66		
15	64QAM	36	0	16.59	16.67	16.64	18	0
15	64QAM	36	20	16.54	16.58	16.55		
15	64QAM	36	39	16.55	16.62	16.57		
15	64QAM	75	0	16.55	16.58	16.56		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	16.36	16.46	16.40	18	0
10	QPSK	1	25	16.36	16.40	16.40		
10	QPSK	1	49	16.37	16.41	16.38		
10	QPSK	25	0	16.36	16.47	16.44	18	0
10	QPSK	25	12	16.49	16.50	16.48		
10	QPSK	25	25	16.51	16.54	16.53		
10	QPSK	50	0	16.53	16.51	16.54		
10	16QAM	1	0	16.77	16.80	16.75	18	0
10	16QAM	1	25	16.70	16.78	16.70		
10	16QAM	1	49	16.72	16.78	16.69		
10	16QAM	25	0	16.43	16.50	16.41	18	0
10	16QAM	25	12	16.52	16.53	16.47		
10	16QAM	25	25	16.47	16.57	16.52		
10	16QAM	50	0	16.51	16.50	16.54		
10	64QAM	1	0	16.57	16.64	16.60	18	0
10	64QAM	1	25	16.57	16.76	16.76		
10	64QAM	1	49	16.58	16.68	16.72		
10	64QAM	25	0	16.40	16.50	16.49	18	0
10	64QAM	25	12	16.53	16.55	16.49		
10	64QAM	25	25	16.51	16.56	16.53		
10	64QAM	50	0	16.51	16.52	16.54		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	16.41	16.45	16.45	18	0
5	QPSK	1	12	16.43	16.55	16.46		
5	QPSK	1	24	16.45	16.56	16.52		
5	QPSK	12	0	16.52	16.54	16.48	18	0
5	QPSK	12	7	16.57	16.65	16.56		
5	QPSK	12	13	16.56	16.63	16.57		
5	QPSK	25	0	16.52	16.53	16.50		
5	16QAM	1	0	16.70	16.75	16.72	18	0
5	16QAM	1	12	16.65	16.71	16.68		
5	16QAM	1	24	16.75	16.80	16.81		
5	16QAM	12	0	16.52	16.59	16.48	18	0
5	16QAM	12	7	16.57	16.66	16.57		
5	16QAM	12	13	16.55	16.64	16.56		
5	16QAM	25	0	16.60	16.60	16.55		
5	64QAM	1	0	16.65	16.74	16.64	18	0
5	64QAM	1	12	16.61	16.69	16.61		
5	64QAM	1	24	16.67	16.75	16.65		
5	64QAM	12	0	16.58	16.60	16.55	18	0
5	64QAM	12	7	16.63	16.73	16.65		
5	64QAM	12	13	16.60	16.72	16.65		
5	64QAM	25	0	16.53	16.59	16.54		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	16.37	16.46	16.34	18	0
3	QPSK	1	8	16.45	16.50	16.47		
3	QPSK	1	14	16.39	16.52	16.41		
3	QPSK	8	0	16.48	16.52	16.42	18	0
3	QPSK	8	4	16.52	16.60	16.53		
3	QPSK	8	7	16.51	16.56	16.50		
3	QPSK	15	0	16.44	16.50	16.48		
3	16QAM	1	0	16.73	16.77	16.60	18	0
3	16QAM	1	8	16.73	16.79	16.71		
3	16QAM	1	14	16.70	16.82	16.73		
3	16QAM	8	0	16.52	16.57	16.43	18	0
3	16QAM	8	4	16.54	16.65	16.53		
3	16QAM	8	7	16.53	16.62	16.53		
3	16QAM	15	0	16.51	16.56	16.52		
3	64QAM	1	0	16.64	16.55	16.61	18	0
3	64QAM	1	8	16.66	16.70	16.70		
3	64QAM	1	14	16.51	16.71	16.65		
3	64QAM	8	0	16.54	16.57	16.44	18	0
3	64QAM	8	4	16.55	16.65	16.58		
3	64QAM	8	7	16.54	16.64	16.54		
3	64QAM	15	0	16.49	16.56	16.47		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	16.28	16.37	16.22	18	0
1.4	QPSK	1	3	16.35	16.43	16.41		
1.4	QPSK	1	5	16.28	16.43	16.27		
1.4	QPSK	3	0	16.34	16.41	16.27		
1.4	QPSK	3	1	16.37	16.39	16.26		
1.4	QPSK	3	3	16.31	16.42	16.32		
1.4	QPSK	6	0	16.38	16.49	16.34	18	0
1.4	16QAM	1	0	16.56	16.73	16.54	18	0
1.4	16QAM	1	3	16.69	16.76	16.69		
1.4	16QAM	1	5	16.59	16.68	16.60		
1.4	16QAM	3	0	16.39	16.43	16.32		
1.4	16QAM	3	1	16.47	16.47	16.37		
1.4	16QAM	3	3	16.39	16.46	16.35		
1.4	16QAM	6	0	16.48	16.57	16.45	18	0
1.4	64QAM	1	0	16.52	16.58	16.53	18	0
1.4	64QAM	1	3	16.57	16.66	16.63		
1.4	64QAM	1	5	16.44	16.59	16.55		
1.4	64QAM	3	0	16.51	16.60	16.49		
1.4	64QAM	3	1	16.54	16.63	16.54		
1.4	64QAM	3	3	16.47	16.59	16.51		
1.4	64QAM	6	0	16.40	16.47	16.34	18	0

Band 5 (Cellular Band)
Part 22H(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				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	20.43	20.39	20.42	21	0
10	QPSK	1	25	20.28	20.39	20.37		
10	QPSK	1	49	20.02	19.98	19.99		
10	QPSK	25	0	20.06	20.10	20.12	21	0
10	QPSK	25	12	20.21	20.10	20.18		
10	QPSK	25	25	20.11	20.14	20.17		
10	QPSK	50	0	20.16	20.10	20.14		
10	16QAM	1	0	20.30	20.41	20.38	21	0
10	16QAM	1	25	20.33	20.40	20.35		
10	16QAM	1	49	20.39	20.40	20.37		
10	16QAM	25	0	20.03	20.08	20.08	21	0
10	16QAM	25	12	20.14	20.10	20.17		
10	16QAM	25	25	20.08	20.14	20.09		
10	16QAM	50	0	20.13	20.09	20.17		
10	64QAM	1	0	20.22	20.20	20.30	21	0
10	64QAM	1	25	20.22	20.29	20.33		
10	64QAM	1	49	20.24	20.25	20.29		
10	64QAM	25	0	19.63	19.68	19.66	20.5	0.5
10	64QAM	25	12	19.72	19.68	19.78		
10	64QAM	25	25	19.68	19.68	19.70		
10	64QAM	50	0	19.68	19.65	19.70		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	20.01	20.07	20.10	21	0
5	QPSK	1	12	20.03	20.14	20.09		
5	QPSK	1	24	19.99	20.05	20.00		
5	QPSK	12	0	20.06	20.14	20.13	21	0
5	QPSK	12	7	20.09	20.15	20.11		
5	QPSK	12	13	20.08	20.13	20.09		
5	QPSK	25	0	20.08	20.15	20.09		
5	16QAM	1	0	19.92	20.01	20.06	21	0
5	16QAM	1	12	19.96	19.99	20.01		
5	16QAM	1	24	20.28	20.35	20.31		
5	16QAM	12	0	20.08	20.15	20.17	21	0
5	16QAM	12	7	20.11	20.19	20.13		
5	16QAM	12	13	20.07	20.13	20.07		
5	16QAM	25	0	20.09	20.19	20.10		
5	64QAM	1	0	20.31	20.33	20.22	21	0
5	64QAM	1	12	20.24	20.35	20.32		
5	64QAM	1	24	20.23	20.37	20.24		
5	64QAM	12	0	19.62	19.70	19.74	20.5	0.5
5	64QAM	12	7	19.63	19.75	19.69		
5	64QAM	12	13	19.58	19.69	19.65		
5	64QAM	25	0	19.60	19.71	19.66		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	19.99	20.06	20.05	21	0
3	QPSK	1	8	20.04	20.11	20.09		
3	QPSK	1	14	19.94	20.00	19.99		
3	QPSK	8	0	20.04	20.11	20.09	21	0
3	QPSK	8	4	20.10	20.16	20.09		
3	QPSK	8	7	20.05	20.10	20.06		
3	QPSK	15	0	20.09	20.14	20.09		
3	16QAM	1	0	20.28	20.38	20.31	21	0
3	16QAM	1	8	20.38	20.25	20.41		
3	16QAM	1	14	20.28	20.32	20.26		
3	16QAM	8	0	20.09	20.17	20.14	21	0
3	16QAM	8	4	20.12	20.23	20.12		
3	16QAM	8	7	20.09	20.15	20.13		
3	16QAM	15	0	20.09	20.20	20.09		
3	64QAM	1	0	20.21	20.29	20.29	21	0
3	64QAM	1	8	20.25	20.37	20.33		
3	64QAM	1	14	20.18	20.22	20.23		
3	64QAM	8	0	19.57	19.67	19.67	20.5	0.5
3	64QAM	8	4	19.65	19.72	19.66		
3	64QAM	8	7	19.59	19.69	19.64		
3	64QAM	15	0	19.59	19.69	19.64		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	19.84	20.02	19.97	21	0
1.4	QPSK	1	3	19.96	20.02	19.98		
1.4	QPSK	1	5	19.91	19.92	19.93		
1.4	QPSK	3	0	19.90	20.01	19.96		
1.4	QPSK	3	1	19.97	20.03	20.00		
1.4	QPSK	3	3	19.93	19.98	19.96		
1.4	QPSK	6	0	20.01	20.06	20.01	21	0
1.4	16QAM	1	0	20.17	20.32	20.30	21	0
1.4	16QAM	1	3	20.29	20.35	20.31		
1.4	16QAM	1	5	20.17	20.28	20.22		
1.4	16QAM	3	0	19.95	20.10	20.09		
1.4	16QAM	3	1	20.05	20.14	20.11		
1.4	16QAM	3	3	20.00	20.08	20.04		
1.4	16QAM	6	0	20.06	20.13	20.12	21	0
1.4	64QAM	1	0	20.10	20.26	20.20	21	0
1.4	64QAM	1	3	20.21	20.28	20.27		
1.4	64QAM	1	5	20.13	20.19	20.20		
1.4	64QAM	3	0	20.08	20.21	20.19		
1.4	64QAM	3	1	20.18	20.30	20.21		
1.4	64QAM	3	3	20.12	20.20	20.16		
1.4	64QAM	6	0	19.52	19.58	19.57	20.5	0.5

Band 7 (2600MHz Band)
Part 27

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	14.96	14.94	14.83	16	0
20	QPSK	1	49	14.83	14.77	14.62		
20	QPSK	1	99	14.81	14.83	14.68		
20	QPSK	50	0	14.83	14.81	14.74	16	0
20	QPSK	50	24	14.95	14.93	14.84		
20	QPSK	50	50	14.93	14.94	14.78		
20	QPSK	100	0	14.94	14.91	14.85		
20	16QAM	1	0	14.95	14.89	14.86	16	0
20	16QAM	1	49	14.94	14.88	14.93		
20	16QAM	1	99	14.93	14.88	14.88		
20	16QAM	50	0	14.72	14.79	14.64	16	0
20	16QAM	50	24	14.85	14.88	14.75		
20	16QAM	50	50	14.92	14.94	14.75		
20	16QAM	100	0	14.82	14.87	14.73		
20	64QAM	1	0	14.77	14.92	14.72	16	0
20	64QAM	1	49	14.89	14.89	14.78		
20	64QAM	1	99	14.89	14.87	14.83		
20	64QAM	50	0	14.81	14.86	14.63	16	0
20	64QAM	50	24	14.78	14.80	14.73		
20	64QAM	50	50	14.85	14.85	14.67		
20	64QAM	100	0	14.71	14.79	14.61		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	14.64	14.81	14.80	16	0
15	QPSK	1	37	14.69	14.71	14.87		
15	QPSK	1	74	14.65	14.83	14.80		
15	QPSK	36	0	14.64	14.70	14.79	16	0
15	QPSK	36	20	14.70	14.80	14.88		
15	QPSK	36	39	14.75	14.81	14.74		
15	QPSK	75	0	14.69	14.76	14.77		
15	16QAM	1	0	14.90	14.87	14.84	16	0
15	16QAM	1	37	14.93	14.91	14.79		
15	16QAM	1	74	14.87	14.84	14.84		
15	16QAM	36	0	14.65	14.71	14.79	16	0
15	16QAM	36	20	14.70	14.81	14.71		
15	16QAM	36	39	14.75	14.80	14.71		
15	16QAM	75	0	14.72	14.76	14.79		
15	64QAM	1	0	14.78	14.76	14.80	16	0
15	64QAM	1	37	14.87	14.86	14.81		
15	64QAM	1	74	14.74	14.81	14.65		
15	64QAM	36	0	14.64	14.78	14.83	16	0
15	64QAM	36	20	14.72	14.86	14.73		
15	64QAM	36	39	14.74	14.92	14.80		
15	64QAM	75	0	14.68	14.83	14.81		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	14.68	14.78	14.83	16	0
10	QPSK	1	25	14.69	14.70	14.85		
10	QPSK	1	49	14.77	14.88	14.89		
10	QPSK	25	0	14.66	14.78	14.90	16	0
10	QPSK	25	12	14.76	14.88	14.95		
10	QPSK	25	25	14.79	14.92	14.91		
10	QPSK	50	0	14.73	14.86	14.90		
10	16QAM	1	0	14.82	14.90	14.94	16	0
10	16QAM	1	25	14.81	14.90	14.94		
10	16QAM	1	49	14.90	14.92	14.91		
10	16QAM	25	0	14.68	14.82	14.89	16	0
10	16QAM	25	12	14.79	14.90	14.94		
10	16QAM	25	25	14.74	14.90	14.91		
10	16QAM	50	0	14.72	14.83	14.86		
10	64QAM	1	0	14.80	14.84	14.91	16	0
10	64QAM	1	25	14.87	14.94	14.89		
10	64QAM	1	49	14.90	14.90	14.92		
10	64QAM	25	0	14.69	14.81	14.90	16	0
10	64QAM	25	12	14.83	14.87	14.91		
10	64QAM	25	25	14.79	14.91	14.92		
10	64QAM	50	0	14.73	14.88	14.93		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	14.63	14.76	14.83	16	0
5	QPSK	1	12	14.77	14.78	14.95		
5	QPSK	1	24	14.68	14.86	14.86		
5	QPSK	12	0	14.58	14.70	14.79	16	0
5	QPSK	12	7	14.60	14.73	14.86		
5	QPSK	12	13	14.63	14.72	14.88		
5	QPSK	25	0	14.61	14.73	14.84		
5	16QAM	1	0	14.78	14.95	14.81	16	0
5	16QAM	1	12	14.82	14.73	14.74		
5	16QAM	1	24	14.81	14.80	14.80		
5	16QAM	12	0	14.59	14.69	14.81	16	0
5	16QAM	12	7	14.61	14.75	14.88		
5	16QAM	12	13	14.66	14.76	14.86		
5	16QAM	25	0	14.63	14.75	14.59		
5	64QAM	1	0	14.68	14.85	14.77	16	0
5	64QAM	1	12	14.73	14.89	14.86		
5	64QAM	1	24	14.77	14.91	14.87		
5	64QAM	12	0	14.64	14.73	14.85	16	0
5	64QAM	12	7	14.64	14.76	14.61		
5	64QAM	12	13	14.66	14.76	14.61		
5	64QAM	25	0	14.61	14.77	14.82		

Band 12 (700MHz Low Band)
Part 27F(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	21.57	21.59	21.66	22.5	0
10	QPSK	1	25	21.65	21.69	21.76		
10	QPSK	1	49	21.80	21.75	21.82		
10	QPSK	25	0	21.64	21.68	21.68	22.5	0
10	QPSK	25	12	21.73	21.69	21.77		
10	QPSK	25	25	21.70	21.66	21.75		
10	QPSK	50	0	21.73	21.70	21.75		
10	16QAM	1	0	21.64	21.73	21.77	22.5	0
10	16QAM	1	25	21.68	21.75	21.77		
10	16QAM	1	49	21.78	21.75	21.72		
10	16QAM	25	0	20.57	20.61	20.58	21.5	1
10	16QAM	25	12	20.63	20.58	20.66		
10	16QAM	25	25	20.58	20.59	20.62		
10	16QAM	50	0	20.62	20.59	20.66		
10	64QAM	1	0	20.64	20.62	20.71	21.5	1
10	64QAM	1	25	20.75	20.73	20.84		
10	64QAM	1	49	20.84	20.74	20.85		
10	64QAM	25	0	19.57	19.64	19.60	20.5	2
10	64QAM	25	12	19.66	19.65	19.71		
10	64QAM	25	25	19.65	19.68	19.68		
10	64QAM	50	0	19.62	19.60	19.73		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	21.43	21.52	21.45	22.5	0
5	QPSK	1	12	21.46	21.53	21.52		
5	QPSK	1	24	21.47	21.52	21.55		
5	QPSK	12	0	21.51	21.60	21.58	22.5	0
5	QPSK	12	7	21.59	21.58	21.63		
5	QPSK	12	13	21.54	21.61	21.59		
5	QPSK	25	0	21.57	21.56	21.60		
5	16QAM	1	0	21.67	21.68	21.64	22.5	0
5	16QAM	1	12	21.69	21.69	21.70		
5	16QAM	1	24	21.69	21.74	21.79		
5	16QAM	12	0	20.59	20.62	20.61	21.5	1
5	16QAM	12	7	20.62	20.59	20.65		
5	16QAM	12	13	20.59	20.60	20.64		
5	16QAM	25	0	20.60	20.59	20.64		
5	64QAM	1	0	20.72	20.73	20.71	21.5	1
5	64QAM	1	12	20.69	20.66	20.77		
5	64QAM	1	24	20.74	20.65	20.85		
5	64QAM	12	0	19.66	19.65	19.66	20.5	2
5	64QAM	12	7	19.68	19.64	19.70		
5	64QAM	12	13	19.64	19.68	19.68		
5	64QAM	25	0	19.58	19.63	19.65		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	21.45	21.50	21.53	22.5	0
3	QPSK	1	8	21.52	21.56	21.57		
3	QPSK	1	14	21.43	21.53	21.52		
3	QPSK	8	0	21.51	21.57	21.58	22.5	0
3	QPSK	8	4	21.55	21.55	21.63		
3	QPSK	8	7	21.51	21.59	21.59		
3	QPSK	15	0	21.54	21.56	21.56		
3	16QAM	1	0	21.68	21.68	21.78	22.5	0
3	16QAM	1	8	21.72	21.80	21.81		
3	16QAM	1	14	21.64	21.73	21.78		
3	16QAM	8	0	20.58	20.62	20.59	21.5	1
3	16QAM	8	4	20.62	20.64	20.68		
3	16QAM	8	7	20.59	20.64	20.64		
3	16QAM	15	0	20.60	20.60	20.55		
3	64QAM	1	0	20.68	20.72	20.73	21.5	1
3	64QAM	1	8	20.75	20.77	20.80		
3	64QAM	1	14	20.68	20.69	20.82		
3	64QAM	8	0	19.58	19.64	19.64	20.5	2
3	64QAM	8	4	19.65	19.66	19.70		
3	64QAM	8	7	19.61	19.68	19.65		
3	64QAM	15	0	19.59	19.60	19.59		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	21.34	21.39	21.39	22.5	0
1.4	QPSK	1	3	21.42	21.50	21.50		
1.4	QPSK	1	5	21.37	21.42	21.40		
1.4	QPSK	3	0	21.42	21.39	21.41		
1.4	QPSK	3	1	21.43	21.40	21.49		
1.4	QPSK	3	3	21.37	21.49	21.46		
1.4	QPSK	6	0	21.49	21.47	21.52	22.5	0
1.4	16QAM	1	0	21.57	21.59	21.64	22.5	0
1.4	16QAM	1	3	21.65	21.73	21.78		
1.4	16QAM	1	5	21.57	21.62	21.71		
1.4	16QAM	3	0	21.46	21.48	21.52		
1.4	16QAM	3	1	21.52	21.50	21.60		
1.4	16QAM	3	3	21.42	21.52	21.56		
1.4	16QAM	6	0	20.56	20.55	20.63	21.5	1
1.4	64QAM	1	0	20.58	20.60	20.60	21.5	1
1.4	64QAM	1	3	20.64	20.68	20.72		
1.4	64QAM	1	5	20.56	20.62	20.65		
1.4	64QAM	3	0	20.58	20.55	20.65		
1.4	64QAM	3	1	20.63	20.58	20.74		
1.4	64QAM	3	3	20.54	20.61	20.68		
1.4	64QAM	6	0	19.46	19.50	19.54	20.5	2

Band 17 (700MHz Band)
Part 27H(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				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	21.65	21.62	21.68	22.5	0
10	QPSK	1	25	21.71	21.66	21.69		
10	QPSK	1	49	21.75	21.75	21.78		
10	QPSK	25	0	21.60	21.60	21.59	22.5	0
10	QPSK	25	12	21.71	21.68	21.74		
10	QPSK	25	25	21.73	21.63	21.72		
10	QPSK	50	0	21.65	21.62	21.69		
10	16QAM	1	0	21.64	21.64	21.68	22.5	0
10	16QAM	1	25	21.70	21.72	21.69		
10	16QAM	1	49	21.75	21.75	21.77		
10	16QAM	25	0	20.57	20.55	20.56	21.5	1
10	16QAM	25	12	20.70	20.58	20.69		
10	16QAM	25	25	20.67	20.70	20.72		
10	16QAM	50	0	20.60	20.59	20.60		
10	64QAM	1	0	20.66	20.73	20.73	21.5	1
10	64QAM	1	25	20.83	20.85	20.82		
10	64QAM	1	49	20.86	20.87	20.85		
10	64QAM	25	0	19.58	19.59	19.59	20.5	2
10	64QAM	25	12	19.75	19.63	19.75		
10	64QAM	25	25	19.74	19.73	19.71		
10	64QAM	50	0	19.64	19.59	19.58		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	21.47	21.44	21.48	22.5	0
5	QPSK	1	12	21.54	21.55	21.55		
5	QPSK	1	24	21.60	21.63	21.64		
5	QPSK	12	0	21.58	21.59	21.56	22.5	0
5	QPSK	12	7	21.67	21.61	21.61		
5	QPSK	12	13	21.66	21.64	21.66		
5	QPSK	25	0	21.64	21.58	21.57		
5	16QAM	1	0	21.63	21.58	21.61	22.5	0
5	16QAM	1	12	21.70	21.63	21.65		
5	16QAM	1	24	21.77	21.74	21.74		
5	16QAM	12	0	20.59	20.63	20.59	21.5	1
5	16QAM	12	7	20.65	20.59	20.62		
5	16QAM	12	13	20.65	20.67	20.66		
5	16QAM	25	0	20.63	20.62	20.62		
5	64QAM	1	0	20.76	20.77	20.70	21.5	1
5	64QAM	1	12	20.77	20.79	20.83		
5	64QAM	1	24	20.83	20.91	20.93		
5	64QAM	12	0	19.62	19.64	19.65	20.5	2
5	64QAM	12	7	19.74	19.68	19.67		
5	64QAM	12	13	19.69	19.71	19.72		
5	64QAM	25	0	19.67	19.64	19.63		

Band 26 for FCC (only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	19.07	19.06	19.11	20.3	0
15	QPSK	1	37	18.91	18.97	19.00		
15	QPSK	1	74	18.96	18.95	18.95		
15	QPSK	36	0	18.86	18.96	19.00	20.3	0
15	QPSK	36	20	19.02	18.94	19.03		
15	QPSK	36	39	18.91	18.97	18.82		
15	QPSK	75	0	18.82	18.86	19.06		
15	16QAM	1	0	18.96	19.01	19.02	20.3	0
15	16QAM	1	37	18.91	18.98	18.96		
15	16QAM	1	74	19.08	18.88	19.05		
15	16QAM	36	0	19.01	18.87	19.07	20.3	0
15	16QAM	36	20	19.01	19.01	18.97		
15	16QAM	36	39	19.02	18.89	18.88		
15	16QAM	75	0	18.94	18.85	18.94		
15	64QAM	1	0	19.02	19.07	18.92	20.3	0
15	64QAM	1	37	19.05	18.99	19.00		
15	64QAM	1	74	18.95	18.96	19.00		
15	64QAM	36	0	18.55	18.42	18.55	19.8	0.5
15	64QAM	36	20	18.42	18.56	18.40		
15	64QAM	36	39	18.41	18.56	18.51		
15	64QAM	75	0	18.50	18.54	18.61		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	18.71	18.77	18.84	20.3	0
10	QPSK	1	25	18.71	18.74	18.84		
10	QPSK	1	49	18.75	18.89	18.77		
10	QPSK	25	0	18.76	18.93	18.96	20.3	0
10	QPSK	25	12	18.85	18.90	19.04		
10	QPSK	25	25	18.87	18.90	18.85		
10	QPSK	50	0	18.94	18.89	18.94		
10	16QAM	1	0	18.90	18.93	19.06	20.3	0
10	16QAM	1	25	19.09	19.00	19.10		
10	16QAM	1	49	18.89	19.08	18.90		
10	16QAM	25	0	18.88	18.96	18.90	20.3	0
10	16QAM	25	12	18.86	18.82	18.95		
10	16QAM	25	25	18.72	18.88	18.92		
10	16QAM	50	0	18.85	18.92	18.84		
10	64QAM	1	0	19.04	18.90	18.90	20.3	0
10	64QAM	1	25	18.97	19.09	18.96		
10	64QAM	1	49	19.03	19.01	19.07		
10	64QAM	25	0	18.34	18.33	18.33	19.8	0.5
10	64QAM	25	12	18.44	18.46	18.56		
10	64QAM	25	25	18.32	18.48	18.37		
10	64QAM	50	0	18.47	18.34	18.38		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	18.86	18.73	18.75	20.3	0
5	QPSK	1	12	18.81	18.82	18.95		
5	QPSK	1	24	18.66	18.91	18.92		
5	QPSK	12	0	18.90	18.83	19.00	20.3	0
5	QPSK	12	7	18.88	19.01	18.84		
5	QPSK	12	13	18.75	18.81	18.93		
5	QPSK	25	0	18.90	18.90	18.99		
5	16QAM	1	0	18.97	19.05	19.01	20.3	0
5	16QAM	1	12	18.99	19.00	18.95		
5	16QAM	1	24	18.85	19.05	19.09		
5	16QAM	12	0	18.85	18.94	19.03	20.3	0
5	16QAM	12	7	18.99	18.97	18.84		
5	16QAM	12	13	18.91	18.85	18.84		
5	16QAM	25	0	19.03	18.90	18.81		
5	64QAM	1	0	18.91	18.85	18.92	20.3	0
5	64QAM	1	12	18.88	19.01	18.99		
5	64QAM	1	24	18.92	18.93	18.98		
5	64QAM	12	0	18.47	18.41	18.45	19.8	0.5
5	64QAM	12	7	18.54	18.39	18.46		
5	64QAM	12	13	18.39	18.56	18.55		
5	64QAM	25	0	18.52	18.52	18.37		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	18.77	18.78	18.67	20.3	0
3	QPSK	1	8	18.87	18.80	18.79		
3	QPSK	1	14	18.66	18.61	18.65		
3	QPSK	8	0	18.78	18.68	18.94	20.3	0
3	QPSK	8	4	18.76	18.89	18.90		
3	QPSK	8	7	18.81	18.75	18.71		
3	QPSK	15	0	18.73	18.71	18.88		
3	16QAM	1	0	18.90	18.82	18.95	20.3	0
3	16QAM	1	8	18.84	18.90	18.96		
3	16QAM	1	14	18.96	19.00	18.95		
3	16QAM	8	0	18.81	18.93	18.82	20.3	0
3	16QAM	8	4	18.91	18.78	18.87		
3	16QAM	8	7	18.69	18.75	18.86		
3	16QAM	15	0	18.72	18.72	18.93		
3	64QAM	1	0	18.95	18.83	18.96	20.3	0
3	64QAM	1	8	18.88	18.93	18.96		
3	64QAM	1	14	18.83	18.90	18.81		
3	64QAM	8	0	18.36	18.34	18.40	19.8	0.5
3	64QAM	8	4	18.43	18.39	18.40		
3	64QAM	8	7	18.36	18.39	18.34		
3	64QAM	15	0	18.30	18.32	18.33		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	18.77	18.70	18.63	20.3	0
1.4	QPSK	1	3	18.59	18.64	18.59		
1.4	QPSK	1	5	18.59	18.62	18.58		
1.4	QPSK	3	0	18.72	18.71	18.73		
1.4	QPSK	3	1	18.64	18.70	18.71		
1.4	QPSK	3	3	18.53	18.65	18.57		
1.4	QPSK	6	0	18.63	18.78	18.62	20.3	0
1.4	16QAM	1	0	18.65	18.88	18.71	20.3	0
1.4	16QAM	1	3	18.80	18.96	18.93		
1.4	16QAM	1	5	18.86	18.79	18.88		
1.4	16QAM	3	0	18.80	18.78	18.79		
1.4	16QAM	3	1	18.75	18.82	18.65		
1.4	16QAM	3	3	18.70	18.83	18.79		
1.4	16QAM	6	0	18.81	18.69	18.67	20.3	0
1.4	64QAM	1	0	18.88	18.79	18.74	20.3	0
1.4	64QAM	1	3	18.74	18.89	18.79		
1.4	64QAM	1	5	18.76	18.75	18.69		
1.4	64QAM	3	0	18.90	18.83	18.87		
1.4	64QAM	3	1	18.80	18.89	18.93		
1.4	64QAM	3	3	18.81	18.87	18.82		
1.4	64QAM	6	0	18.34	18.37	18.34	19.8	0.5

Band 66

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	16.59	16.67	16.62	18	0
20	QPSK	1	49	16.42	16.57	16.47		
20	QPSK	1	99	16.40	16.44	16.42		
20	QPSK	50	0	16.42	16.51	16.44	18	0
20	QPSK	50	24	16.57	16.63	16.61		
20	QPSK	50	50	16.39	16.49	16.42		
20	QPSK	100	0	16.50	16.58	16.55		
20	16QAM	1	0	16.52	16.53	16.55	18	0
20	16QAM	1	49	16.60	16.60	16.54		
20	16QAM	1	99	16.56	16.52	16.48		
20	16QAM	50	0	16.41	16.54	16.45	18	0
20	16QAM	50	24	16.48	16.51	16.43		
20	16QAM	50	50	16.44	16.52	16.41		
20	16QAM	100	0	16.41	16.56	16.40		
20	64QAM	1	0	16.62	16.62	16.62	18	0
20	64QAM	1	49	16.59	16.60	16.44		
20	64QAM	1	99	16.50	16.50	16.48		
20	64QAM	50	0	16.40	16.55	16.42	18	0
20	64QAM	50	24	16.46	16.51	16.42		
20	64QAM	50	50	16.39	16.52	16.59		
20	64QAM	100	0	16.44	16.56	16.40		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	16.30	16.46	16.46	18	0
15	QPSK	1	37	16.28	16.42	16.34		
15	QPSK	1	74	16.25	16.34	16.29		
15	QPSK	36	0	16.35	16.52	16.43	18	0
15	QPSK	36	20	16.42	16.56	16.51		
15	QPSK	36	39	16.40	16.51	16.42		
15	QPSK	75	0	16.39	16.56	16.47		
15	16QAM	1	0	16.44	16.64	16.60	18	0
15	16QAM	1	37	16.58	16.62	16.54		
15	16QAM	1	74	16.45	16.56	16.49		
15	16QAM	36	0	16.34	16.51	16.40	18	0
15	16QAM	36	20	16.45	16.59	16.47		
15	16QAM	36	39	16.38	16.52	16.39		
15	16QAM	75	0	16.44	16.56	16.44		
15	64QAM	1	0	16.50	16.62	16.60	18	0
15	64QAM	1	37	16.58	16.66	16.59		
15	64QAM	1	74	16.43	16.48	16.48		
15	64QAM	36	0	16.38	16.52	16.42	18	0
15	64QAM	36	20	16.45	16.59	16.47		
15	64QAM	36	39	16.42	16.50	16.42		
15	64QAM	75	0	16.41	16.55	16.40		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	16.27	16.48	16.40	18	0
10	QPSK	1	25	16.28	16.39	16.29		
10	QPSK	1	49	16.23	16.34	16.23		
10	QPSK	25	0	16.33	16.50	16.37	18	0
10	QPSK	25	12	16.43	16.47	16.36		
10	QPSK	25	25	16.40	16.50	16.40		
10	QPSK	50	0	16.42	16.56	16.36		
10	16QAM	1	0	16.55	16.60	16.58	18	0
10	16QAM	1	25	16.46	16.66	16.46		
10	16QAM	1	49	16.48	16.56	16.44		
10	16QAM	25	0	16.29	16.46	16.42	18	0
10	16QAM	25	12	16.43	16.47	16.36		
10	16QAM	25	25	16.38	16.46	16.37		
10	16QAM	50	0	16.40	16.55	16.34		
10	64QAM	1	0	16.35	16.58	16.39	18	0
10	64QAM	1	25	16.37	16.62	16.50		
10	64QAM	1	49	16.38	16.51	16.42		
10	64QAM	25	0	16.30	16.50	16.42	18	0
10	64QAM	25	12	16.47	16.49	16.40		
10	64QAM	25	25	16.36	16.53	16.41		
10	64QAM	50	0	16.43	16.52	16.36		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	16.28	16.40	16.26	18	0
5	QPSK	1	12	16.36	16.46	16.31		
5	QPSK	1	24	16.30	16.41	16.29		
5	QPSK	12	0	16.43	16.51	16.36	18	0
5	QPSK	12	7	16.46	16.57	16.41		
5	QPSK	12	13	16.42	16.53	16.40		
5	QPSK	25	0	16.40	16.54	16.40		
5	16QAM	1	0	16.48	16.61	16.43	18	0
5	16QAM	1	12	16.45	16.59	16.41		
5	16QAM	1	24	16.47	16.60	16.44		
5	16QAM	12	0	16.44	16.49	16.36	18	0
5	16QAM	12	7	16.45	16.57	16.42		
5	16QAM	12	13	16.40	16.52	16.38		
5	16QAM	25	0	16.41	16.52	16.38		
5	64QAM	1	0	16.35	16.59	16.42	18	0
5	64QAM	1	12	16.40	16.54	16.44		
5	64QAM	1	24	16.34	16.44	16.35		
5	64QAM	12	0	16.43	16.57	16.43	18	0
5	64QAM	12	7	16.46	16.63	16.46		
5	64QAM	12	13	16.41	16.56	16.43		
5	64QAM	25	0	16.39	16.56	16.38		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	16.36	16.40	16.26	18	0
3	QPSK	1	8	16.42	16.48	16.36		
3	QPSK	1	14	16.35	16.40	16.32		
3	QPSK	8	0	16.33	16.47	16.33	18	0
3	QPSK	8	4	16.46	16.57	16.36		
3	QPSK	8	7	16.43	16.54	16.36		
3	QPSK	15	0	16.42	16.54	16.30		
3	16QAM	1	0	16.44	16.61	16.44	18	0
3	16QAM	1	8	16.50	16.66	16.59		
3	16QAM	1	14	16.48	16.60	16.50		
3	16QAM	8	0	16.42	16.52	16.39	18	0
3	16QAM	8	4	16.46	16.59	16.39		
3	16QAM	8	7	16.41	16.58	16.43		
3	16QAM	15	0	16.40	16.56	16.34		
3	64QAM	1	0	16.37	16.55	16.39	18	0
3	64QAM	1	8	16.48	16.63	16.47		
3	64QAM	1	14	16.38	16.49	16.35		
3	64QAM	8	0	16.40	16.55	16.42	18	0
3	64QAM	8	4	16.45	16.59	16.44		
3	64QAM	8	7	16.43	16.59	16.40		
3	64QAM	15	0	16.42	16.52	16.38		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	16.34	16.39	16.23	18	0
1.4	QPSK	1	3	16.28	16.44	16.30		
1.4	QPSK	1	5	16.19	16.36	16.23		
1.4	QPSK	3	0	16.21	16.41	16.25		
1.4	QPSK	3	1	16.23	16.42	16.29		
1.4	QPSK	3	3	16.19	16.42	16.24		
1.4	QPSK	6	0	16.28	16.51	16.34	18	0
1.4	16QAM	1	0	16.35	16.56	16.41	18	0
1.4	16QAM	1	3	16.45	16.65	16.49		
1.4	16QAM	1	5	16.37	16.56	16.38		
1.4	16QAM	3	0	16.34	16.47	16.34		
1.4	16QAM	3	1	16.34	16.48	16.36		
1.4	16QAM	3	3	16.24	16.41	16.30		
1.4	16QAM	6	0	16.35	16.54	16.40	18	0
1.4	64QAM	1	0	16.35	16.59	16.48	18	0
1.4	64QAM	1	3	16.51	16.64	16.52		
1.4	64QAM	1	5	16.42	16.56	16.44		
1.4	64QAM	3	0	16.41	16.56	16.45		
1.4	64QAM	3	1	16.46	16.64	16.51		
1.4	64QAM	3	3	16.41	16.56	16.41		
1.4	64QAM	6	0	16.30	16.40	16.35	18	0

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				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	17.49	17.37	17.37	18	0
20	QPSK	1	49	17.45	17.29	17.38		
20	QPSK	1	99	17.43	17.34	17.23		
20	QPSK	50	0	17.33	17.26	17.35	18	0
20	QPSK	50	24	17.42	17.26	17.42		
20	QPSK	50	50	17.33	17.29	17.40		
20	QPSK	100	0	17.39	17.33	17.33		
20	16QAM	1	0	17.44	17.43	17.38	18	0
20	16QAM	1	49	17.44	17.33	17.37		
20	16QAM	1	99	17.30	17.37	17.40		
20	16QAM	50	0	17.45	17.33	17.38	18	0
20	16QAM	50	24	17.48	17.21	17.41		
20	16QAM	50	50	17.32	17.36	17.39		
20	16QAM	100	0	17.44	17.29	17.41		
20	64QAM	1	0	17.07	16.91	17.10	18	0
20	64QAM	1	49	17.10	16.99	17.22		
20	64QAM	1	99	17.07	17.08	17.09		
20	64QAM	50	0	17.17	17.29	17.39	18	0
20	64QAM	50	24	17.32	17.35	17.32		
20	64QAM	50	50	17.37	17.41	17.41		
20	64QAM	100	0	17.46	17.23	17.40		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	17.19	17.10	17.26	18	0
15	QPSK	1	37	17.31	17.10	17.27		
15	QPSK	1	74	17.44	17.25	17.29		
15	QPSK	36	0	17.44	17.20	17.37	18	0
15	QPSK	36	20	17.37	17.25	17.38		
15	QPSK	36	39	17.48	17.33	17.44		
15	QPSK	75	0	17.45	17.30	17.35		
15	16QAM	1	0	17.32	17.37	17.37	18	0
15	16QAM	1	37	17.15	17.27	17.44		
15	16QAM	1	74	17.40	17.39	17.47		
15	16QAM	36	0	17.40	17.29	17.31	18	0
15	16QAM	36	20	17.40	17.24	17.35		
15	16QAM	36	39	17.40	17.26	17.38		
15	16QAM	75	0	17.21	17.26	17.37		
15	64QAM	1	0	17.01	16.97	17.20	18	0
15	64QAM	1	37	17.09	17.11	17.16		
15	64QAM	1	74	17.18	17.08	16.93		
15	64QAM	36	0	17.37	17.27	17.41	18	0
15	64QAM	36	20	17.45	17.25	17.42		
15	64QAM	36	39	17.45	17.42	17.41		
15	64QAM	75	0	17.43	17.28	17.46		
Channel				37850	38000	38150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	17.38	17.09	17.17	18	0
10	QPSK	1	25	17.37	17.09	17.36		
10	QPSK	1	49	17.19	17.16	17.42		
10	QPSK	25	0	17.34	17.18	17.37	18	0
10	QPSK	25	12	17.42	17.19	17.37		
10	QPSK	25	25	17.43	17.41	17.48		
10	QPSK	50	0	17.31	17.30	17.39		
10	16QAM	1	0	17.40	17.26	17.46	18	0
10	16QAM	1	25	17.42	17.45	17.47		
10	16QAM	1	49	17.43	17.32	17.31		
10	16QAM	25	0	17.27	17.28	17.31	18	0
10	16QAM	25	12	17.33	17.27	17.43		
10	16QAM	25	25	17.31	17.35	17.47		
10	16QAM	50	0	17.42	17.28	17.37		
10	64QAM	1	0	16.89	16.95	17.44	18	0
10	64QAM	1	25	17.14	17.35	16.97		
10	64QAM	1	49	17.02	17.14	17.02		
10	64QAM	25	0	17.35	17.40	17.32	18	0
10	64QAM	25	12	17.42	17.48	17.41		
10	64QAM	25	25	17.40	17.35	17.31		
10	64QAM	50	0	17.47	17.27	17.39		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	17.30	17.26	17.41	18	0
5	QPSK	1	12	17.48	17.32	17.40		
5	QPSK	1	24	17.44	17.30	17.41		
5	QPSK	12	0	17.45	17.28	17.42	18	0
5	QPSK	12	7	17.32	17.32	17.44		
5	QPSK	12	13	17.42	17.30	17.45		
5	QPSK	25	0	17.46	17.25	17.40		
5	16QAM	1	0	17.32	17.20	17.40	18	0
5	16QAM	1	12	17.38	17.28	17.22		
5	16QAM	1	24	17.38	17.39	17.38		
5	16QAM	12	0	17.36	17.22	17.37	18	0
5	16QAM	12	7	17.45	17.25	17.33		
5	16QAM	12	13	17.35	17.28	17.41		
5	16QAM	25	0	17.44	17.30	17.41		
5	64QAM	1	0	17.29	17.06	17.15	18	0
5	64QAM	1	12	17.23	17.13	17.25		
5	64QAM	1	24	17.02	17.17	17.22		
5	64QAM	12	0	17.41	17.31	17.41	18	0
5	64QAM	12	7	17.31	17.28	17.47		
5	64QAM	12	13	17.43	17.38	17.46		
5	64QAM	25	0	17.44	17.26	17.46		

Band 41 (2.6G Band)--Class 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	16.50	16.78	17.04	17.11	16.90	18.5	0
20	QPSK	1	49	16.52	17.04	17.07	17.10	16.86		
20	QPSK	1	99	16.74	16.96	17.14	17.13	17.02		
20	QPSK	50	0	16.72	16.97	17.10	17.05	17.07	18.5	0
20	QPSK	50	24	16.76	17.10	17.12	17.08	16.90		
20	QPSK	50	50	16.68	17.08	17.11	17.08	17.07		
20	QPSK	100	0	16.59	17.08	17.13	17.09	17.03		
20	16QAM	1	0	16.56	16.62	16.96	17.04	17.08	18.5	0
20	16QAM	1	49	16.50	16.75	17.06	16.92	16.75		
20	16QAM	1	99	16.54	16.87	16.96	17.00	16.80		
20	16QAM	50	0	16.64	16.80	17.02	17.07	16.81	18.5	0
20	16QAM	50	24	16.58	16.99	17.08	16.96	16.87		
20	16QAM	50	50	16.61	16.98	17.12	17.11	16.96		
20	16QAM	100	0	16.51	17.00	17.02	16.96	16.93		
20	64QAM	1	0	16.18	16.22	16.76	16.54	16.67	18.5	0
20	64QAM	1	49	16.20	16.37	16.74	16.53	16.35		
20	64QAM	1	99	16.12	16.52	16.78	16.81	16.29		
20	64QAM	50	0	16.55	17.07	17.00	16.97	16.96	18.5	0
20	64QAM	50	24	16.61	16.93	17.13	16.94	16.97		
20	64QAM	50	50	16.53	16.93	17.13	17.09	17.04		
20	64QAM	100	0	16.59	16.93	17.06	17.03	17.07		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	16.58	16.71	17.01	16.80	16.67	18.5	0
15	QPSK	1	37	16.57	16.72	16.88	16.85	16.80		
15	QPSK	1	74	16.56	16.91	16.97	16.94	16.78		
15	QPSK	36	0	16.75	16.87	17.00	16.96	16.86	18.5	0
15	QPSK	36	20	16.76	16.89	16.98	17.02	16.86		
15	QPSK	36	39	16.70	16.96	17.10	17.04	16.91		
15	QPSK	75	0	16.75	16.99	16.98	17.00	16.86		
15	16QAM	1	0	16.64	16.70	17.08	17.00	16.98	18.5	0
15	16QAM	1	37	16.57	16.62	17.05	16.63	16.76		
15	16QAM	1	74	16.62	16.88	17.02	17.00	16.97		
15	16QAM	36	0	16.75	16.70	16.90	16.95	16.62	18.5	0
15	16QAM	36	20	16.65	16.89	16.93	16.89	16.84		
15	16QAM	36	39	16.73	16.85	17.05	17.03	16.92		
15	16QAM	75	0	16.84	16.95	17.00	17.06	16.91		
15	64QAM	1	0	16.53	16.59	16.86	16.61	17.12	18.5	0
15	64QAM	1	37	16.55	16.65	16.89	16.66	16.60		
15	64QAM	1	74	16.50	16.50	17.06	16.70	16.64		
15	64QAM	36	0	16.78	16.82	16.98	17.05	16.87	18.5	0
15	64QAM	36	20	16.70	16.83	17.08	17.01	16.96		
15	64QAM	36	39	16.72	16.89	16.95	17.06	16.91		
15	64QAM	75	0	16.73	16.87	17.05	16.99	16.87		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	16.65	16.88	17.01	16.94	16.83	18.5	0
10	QPSK	1	25	16.60	16.90	17.05	16.88	16.79		
10	QPSK	1	49	16.63	16.97	17.06	16.83	16.83		
10	QPSK	25	0	16.82	16.84	17.00	16.89	16.89	18.5	0
10	QPSK	25	12	16.78	17.03	17.11	17.07	16.99		
10	QPSK	25	25	16.75	16.88	17.12	17.04	16.93		
10	QPSK	50	0	16.69	16.88	16.97	17.11	16.95		
10	16QAM	1	0	16.78	16.87	17.09	16.98	16.91	18.5	0
10	16QAM	1	25	16.72	16.99	17.03	16.98	16.88		
10	16QAM	1	49	16.74	16.91	17.12	16.98	16.89		
10	16QAM	25	0	16.79	16.74	17.00	16.83	16.98	18.5	0
10	16QAM	25	12	16.78	16.91	17.11	17.10	16.99		
10	16QAM	25	25	16.90	16.86	17.08	17.05	16.92		
10	16QAM	50	0	17.06	16.85	17.06	17.13	17.06		
10	64QAM	1	0	16.58	16.59	16.87	16.62	16.88	18.5	0
10	64QAM	1	25	16.50	16.87	16.92	16.77	16.95		
10	64QAM	1	49	16.57	16.82	16.96	17.03	16.87		
10	64QAM	25	0	16.75	16.99	17.01	16.92	16.93	18.5	0
10	64QAM	25	12	17.01	17.04	17.01	17.13	17.07		
10	64QAM	25	25	16.99	16.89	17.03	17.08	16.99		
10	64QAM	50	0	16.72	16.88	16.96	17.01	16.97		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	16.79	16.82	16.90	16.84	16.76	18.5	0
5	QPSK	1	12	16.56	16.85	17.03	16.86	16.74		
5	QPSK	1	24	16.64	16.73	17.01	16.92	16.74		
5	QPSK	12	0	16.81	16.68	17.09	17.07	16.92	18.5	0
5	QPSK	12	7	16.79	16.98	17.11	17.12	16.85		
5	QPSK	12	13	16.81	16.91	17.12	16.97	16.83		
5	QPSK	25	0	16.72	16.93	17.09	17.06	16.90		
5	16QAM	1	0	16.78	16.70	17.13	17.11	17.01	18.5	0
5	16QAM	1	12	16.69	17.06	16.98	16.93	16.83		
5	16QAM	1	24	16.79	17.09	17.01	17.13	16.97		
5	16QAM	12	0	16.72	16.84	17.12	17.06	16.87	18.5	0
5	16QAM	12	7	16.80	16.93	17.10	17.10	16.85		
5	16QAM	12	13	16.71	16.85	17.10	16.96	16.82		
5	16QAM	25	0	16.80	16.94	17.11	17.00	16.97		
5	64QAM	1	0	16.50	16.51	16.85	16.68	16.73	18.5	0
5	64QAM	1	12	16.50	16.65	16.98	16.83	16.72		
5	64QAM	1	24	16.52	16.55	17.01	16.70	16.65		
5	64QAM	12	0	16.79	16.81	16.97	17.09	16.99	18.5	0
5	64QAM	12	7	16.77	16.99	17.05	17.12	17.01		
5	64QAM	12	13	16.79	16.92	17.12	17.10	16.96		
5	64QAM	25	0	16.75	16.98	16.96	17.10	16.97		

Band 41 (2.6G Band) HPUE (Limit 27)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	19.05	19.30	19.49	19.51	19.53	20.2	0
20	QPSK	1	49	19.01	19.37	19.53	19.49	19.35		
20	QPSK	1	99	18.97	19.47	19.59	19.56	19.40		
20	QPSK	50	0	18.97	19.34	19.50	19.39	19.30	20.2	0
20	QPSK	50	24	19.05	19.38	19.55	19.54	19.46		
20	QPSK	50	50	18.94	19.37	19.52	19.52	19.25		
20	QPSK	100	0	19.17	19.37	19.54	19.42	19.33		
20	16QAM	1	0	19.16	19.52	19.44	19.47	19.51	20.2	0
20	16QAM	1	49	19.13	19.46	19.44	19.44	19.30		
20	16QAM	1	99	18.91	19.49	19.50	19.56	19.37		
20	16QAM	50	0	19.03	19.28	19.49	19.55	19.29	20.2	0
20	16QAM	50	24	19.06	19.10	19.51	19.47	19.33		
20	16QAM	50	50	19.00	19.34	19.47	19.45	19.40		
20	16QAM	100	0	18.95	19.42	19.57	19.47	19.34		
20	64QAM	1	0	19.01	19.17	19.43	19.53	19.48	20.2	0
20	64QAM	1	49	18.91	19.23	19.54	19.44	19.18		
20	64QAM	1	99	18.87	19.53	19.54	19.52	19.27		
20	64QAM	50	0	19.05	19.25	19.53	19.42	19.35	20.2	0
20	64QAM	50	24	19.08	19.40	19.55	19.41	19.34		
20	64QAM	50	50	18.97	19.42	19.56	19.51	19.30		
20	64QAM	100	0	19.08	19.34	19.54	19.46	19.39		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	18.71	19.13	19.23	19.23	19.03	20.2	0
15	QPSK	1	37	18.72	19.10	19.26	19.19	19.14		
15	QPSK	1	74	18.68	19.09	19.32	19.33	19.14		
15	QPSK	36	0	18.96	19.17	19.35	19.39	19.20	20.2	0
15	QPSK	36	20	18.92	19.34	19.44	19.34	19.38		
15	QPSK	36	39	18.85	19.30	19.52	19.48	19.33		
15	QPSK	75	0	18.89	19.32	19.49	19.41	19.18		
15	16QAM	1	0	19.12	19.36	19.51	19.42	19.55	20.2	0
15	16QAM	1	37	19.11	19.44	19.46	19.48	19.24		
15	16QAM	1	74	19.04	19.43	19.58	19.45	19.48		
15	16QAM	36	0	18.95	19.25	19.45	19.39	19.33	20.2	0
15	16QAM	36	20	18.88	19.26	19.38	19.34	19.30		
15	16QAM	36	39	18.88	19.23	19.56	19.36	19.22		
15	16QAM	75	0	19.02	19.35	19.42	19.33	19.23		
15	64QAM	1	0	18.99	19.21	19.47	19.41	19.45	20.2	0
15	64QAM	1	37	18.92	19.37	19.51	19.42	19.34		
15	64QAM	1	74	18.97	19.57	19.58	19.55	19.08		
15	64QAM	36	0	18.88	19.26	19.42	19.48	19.31	20.2	0
15	64QAM	36	20	18.95	19.35	19.53	19.43	19.23		
15	64QAM	36	39	18.88	19.35	19.55	19.46	19.36		
15	64QAM	75	0	18.93	19.40	19.45	19.44	19.22		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	18.8	19.09	19.34	19.32	19.28	20.2	0
10	QPSK	1	25	18.65	19.06	19.37	19.19	19.15		
10	QPSK	1	49	18.75	19.15	19.53	19.39	19.04		
10	QPSK	25	0	18.98	19.27	19.46	19.42	19.35	20.2	0
10	QPSK	25	12	18.94	19.32	19.48	19.48	19.36		
10	QPSK	25	25	18.92	19.32	19.52	19.45	19.28		
10	QPSK	50	0	19.03	19.27	19.51	19.46	19.33		
10	16QAM	1	0	19.24	19.5	19.5	19.52	19.44	20.2	0
10	16QAM	1	25	19.09	19.49	19.5	19.49	19.43		
10	16QAM	1	49	19.13	19.51	19.52	19.57	19.34		
10	16QAM	25	0	18.89	19.12	19.51	19.36	19.34	20.2	0
10	16QAM	25	12	18.95	19.29	19.53	19.48	19.35		
10	16QAM	25	25	19.01	19.26	19.49	19.43	19.37		
10	16QAM	50	0	19.02	19.41	19.45	19.5	19.41		
10	64QAM	1	0	19.21	19.42	19.58	19.45	19.44	20.2	0
10	64QAM	1	25	19.16	19.39	19.52	19.57	19.43		
10	64QAM	1	49	19.13	19.55	19.58	19.46	19.40		
10	64QAM	25	0	18.97	19.25	19.50	19.47	19.45	20.2	0
10	64QAM	25	12	19.00	19.45	19.51	19.43	19.38		
10	64QAM	25	25	19.11	19.40	19.58	19.50	19.30		
10	64QAM	50	0	18.97	19.35	19.50	19.51	19.40		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	18.83	19.15	19.32	19.20	19.25	20.2	0
5	QPSK	1	12	18.69	19.14	19.42	19.31	19.05		
5	QPSK	1	24	18.80	19.13	19.45	19.26	19.17		
5	QPSK	12	0	18.93	19.26	19.49	19.42	19.33	20.2	0
5	QPSK	12	7	19.02	19.33	19.50	19.46	19.37		
5	QPSK	12	13	18.94	19.34	19.51	19.49	19.26		
5	QPSK	25	0	18.94	19.35	19.49	19.48	19.23		
5	16QAM	1	0	19.21	19.30	19.58	19.52	19.43	20.2	0
5	16QAM	1	12	19.01	19.31	19.50	19.51	19.39		
5	16QAM	1	24	19.13	19.55	19.50	19.44	19.47		
5	16QAM	12	0	19.03	19.28	19.51	19.45	19.36	20.2	0
5	16QAM	12	7	19.11	19.41	19.56	19.50	19.40		
5	16QAM	12	13	19.03	19.34	19.56	19.45	19.34		
5	16QAM	25	0	18.96	19.40	19.55	19.53	19.34		
5	64QAM	1	0	19.13	19.27	19.38	19.42	19.42	20.2	0
5	64QAM	1	12	19.04	19.48	19.52	19.35	19.18		
5	64QAM	1	24	18.95	19.50	19.54	19.50	19.24		
5	64QAM	12	0	19.08	19.33	19.55	19.49	19.36	20.2	0
5	64QAM	12	7	19.07	19.40	19.55	19.54	19.40		
5	64QAM	12	13	19.08	19.36	19.51	19.45	19.29		
5	64QAM	25	0	19.04	19.39	19.57	19.53	19.32		

Reduced power level 3/4 for Head-UAT

Band 2 (1900MHz Band)
Part 24E

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	16.87	16.92	16.86	18	0
20	QPSK	1	49	16.73	16.84	16.81		
20	QPSK	1	99	16.70	16.77	16.73		
20	QPSK	50	0	16.73	16.86	16.79	18	0
20	QPSK	50	24	16.82	16.88	16.80		
20	QPSK	50	50	16.76	16.87	16.75		
20	QPSK	100	0	16.81	16.85	16.84		
20	16QAM	1	0	16.86	16.84	16.82	18	0
20	16QAM	1	49	16.76	16.82	16.81		
20	16QAM	1	99	16.68	16.88	16.74		
20	16QAM	50	0	16.65	16.74	16.69	18	0
20	16QAM	50	24	16.74	16.77	16.73		
20	16QAM	50	50	16.72	16.79	16.77		
20	16QAM	100	0	16.71	16.72	16.76		
20	64QAM	1	0	16.72	16.72	16.70	18	0
20	64QAM	1	49	16.60	16.61	16.66		
20	64QAM	1	99	16.53	16.71	16.59		
20	64QAM	50	0	16.68	16.75	16.72	18	0
20	64QAM	50	24	16.74	16.79	16.75		
20	64QAM	50	50	16.67	16.82	16.80		
20	64QAM	100	0	16.75	16.74	16.77		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	16.82	16.89	16.85	18	0
15	QPSK	1	37	16.73	16.85	16.85		
15	QPSK	1	74	16.78	16.83	16.78		
15	QPSK	36	0	16.67	16.70	16.68	18	0
15	QPSK	36	20	16.71	16.73	16.75		
15	QPSK	36	39	16.69	16.79	16.73		
15	QPSK	75	0	16.67	16.72	16.76		
15	16QAM	1	0	16.84	16.83	16.84	18	0
15	16QAM	1	37	16.75	16.82	16.79		
15	16QAM	1	74	16.72	16.88	16.79		
15	16QAM	36	0	16.70	16.72	16.66	18	0
15	16QAM	36	20	16.70	16.72	16.74		
15	16QAM	36	39	16.70	16.82	16.74		
15	16QAM	75	0	16.70	16.74	16.74		
15	64QAM	1	0	16.75	16.79	16.74	18	0
15	64QAM	1	37	16.71	16.82	16.75		
15	64QAM	1	74	16.68	16.74	16.69		
15	64QAM	36	0	16.72	16.76	16.70	18	0
15	64QAM	36	20	16.78	16.75	16.81		
15	64QAM	36	39	16.69	16.87	16.76		
15	64QAM	75	0	16.69	16.72	16.77		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	16.78	16.79	16.80	18	0
10	QPSK	1	25	16.69	16.84	16.81		
10	QPSK	1	49	16.76	16.85	16.80		
10	QPSK	25	0	16.66	16.66	16.63	18	0
10	QPSK	25	12	16.68	16.76	16.74		
10	QPSK	25	25	16.71	16.80	16.78		
10	QPSK	50	0	16.73	16.73	16.75		
10	16QAM	1	0	16.85	16.83	16.84	18	0
10	16QAM	1	25	16.73	16.85	16.85		
10	16QAM	1	49	16.77	16.85	16.86		
10	16QAM	25	0	16.62	16.67	16.59	18	0
10	16QAM	25	12	16.69	16.75	16.77		
10	16QAM	25	25	16.72	16.83	16.68		
10	16QAM	50	0	16.70	16.74	16.74		
10	64QAM	1	0	16.84	16.87	16.75	18	0
10	64QAM	1	25	16.79	16.84	16.74		
10	64QAM	1	49	16.73	16.75	16.82		
10	64QAM	25	0	16.71	16.69	16.64	18	0
10	64QAM	25	12	16.70	16.75	16.77		
10	64QAM	25	25	16.66	16.87	16.78		
10	64QAM	50	0	16.75	16.71	16.77		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	16.84	16.79	16.70	18	0
5	QPSK	1	12	16.85	16.89	16.80		
5	QPSK	1	24	16.76	16.91	16.80		
5	QPSK	12	0	16.72	16.68	16.64	18	0
5	QPSK	12	7	16.78	16.82	16.69		
5	QPSK	12	13	16.70	16.80	16.71		
5	QPSK	25	0	16.70	16.72	16.65		
5	16QAM	1	0	16.88	16.85	16.81	18	0
5	16QAM	1	12	16.81	16.86	16.85		
5	16QAM	1	24	16.81	16.85	16.88		
5	16QAM	12	0	16.76	16.73	16.67	18	0
5	16QAM	12	7	16.79	16.83	16.71		
5	16QAM	12	13	16.69	16.83	16.74		
5	16QAM	25	0	16.66	16.74	16.67		
5	64QAM	1	0	16.79	16.79	16.74	18	0
5	64QAM	1	12	16.80	16.83	16.86		
5	64QAM	1	24	16.78	16.87	16.80		
5	64QAM	12	0	16.79	16.76	16.66	18	0
5	64QAM	12	7	16.82	16.85	16.70		
5	64QAM	12	13	16.73	16.84	16.75		
5	64QAM	25	0	16.70	16.72	16.67		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	16.78	16.73	16.68	18	0
3	QPSK	1	8	16.82	16.84	16.76		
3	QPSK	1	14	16.71	16.80	16.71		
3	QPSK	8	0	16.76	16.71	16.66	18	0
3	QPSK	8	4	16.80	16.77	16.74		
3	QPSK	8	7	16.77	16.81	16.69		
3	QPSK	15	0	16.73	16.72	16.71		
3	16QAM	1	0	16.83	16.87	16.84	18	0
3	16QAM	1	8	16.80	16.84	16.87		
3	16QAM	1	14	16.82	16.85	16.85		
3	16QAM	8	0	16.82	16.79	16.75	18	0
3	16QAM	8	4	16.81	16.81	16.83		
3	16QAM	8	7	16.82	16.83	16.77		
3	16QAM	15	0	16.80	16.75	16.73		
3	64QAM	1	0	16.78	16.77	16.79	18	0
3	64QAM	1	8	16.84	16.88	16.84		
3	64QAM	1	14	16.74	16.88	16.88		
3	64QAM	8	0	16.79	16.77	16.70	18	0
3	64QAM	8	4	16.81	16.88	16.73		
3	64QAM	8	7	16.79	16.83	16.74		
3	64QAM	15	0	16.80	16.74	16.76		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	16.78	16.78	16.68	18	0
1.4	QPSK	1	3	16.87	16.86	16.76		
1.4	QPSK	1	5	16.80	16.78	16.72		
1.4	QPSK	3	0	16.58	16.66	16.53		
1.4	QPSK	3	1	16.64	16.66	16.56		
1.4	QPSK	3	3	16.65	16.63	16.53		
1.4	QPSK	6	0	16.70	16.67	16.58	18	0
1.4	16QAM	1	0	16.78	16.81	16.65	18	0
1.4	16QAM	1	3	16.83	16.80	16.79		
1.4	16QAM	1	5	16.82	16.84	16.72		
1.4	16QAM	3	0	16.70	16.72	16.59		
1.4	16QAM	3	1	16.70	16.78	16.64		
1.4	16QAM	3	3	16.69	16.74	16.57		
1.4	16QAM	6	0	16.79	16.80	16.65	18	0
1.4	64QAM	1	0	16.70	16.80	16.75	18	0
1.4	64QAM	1	3	16.78	16.86	16.83		
1.4	64QAM	1	5	16.72	16.79	16.75		
1.4	64QAM	3	0	16.86	16.84	16.74		
1.4	64QAM	3	1	16.81	16.86	16.79		
1.4	64QAM	3	3	16.80	16.83	16.77		
1.4	64QAM	6	0	16.73	16.74	16.65	18	0

Band 4 (AWS Band)
Part 27L (only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	16.73	16.83	16.74	18	0
20	QPSK	1	49	16.59	16.69	16.61		
20	QPSK	1	99	16.53	16.63	16.62		
20	QPSK	50	0	16.74	16.75	16.76	18	0
20	QPSK	50	24	16.77	16.78	16.77		
20	QPSK	50	50	16.70	16.70	16.74		
20	QPSK	100	0	16.75	16.77	16.76		
20	16QAM	1	0	16.70	16.80	16.73	18	0
20	16QAM	1	49	16.72	16.72	16.78		
20	16QAM	1	99	16.75	16.75	16.81		
20	16QAM	50	0	16.56	16.56	16.65	18	0
20	16QAM	50	24	16.57	16.57	16.62		
20	16QAM	50	50	16.50	16.50	16.52		
20	16QAM	100	0	16.55	16.55	16.58		
20	64QAM	1	0	16.67	16.67	16.74	18	0
20	64QAM	1	49	16.56	16.56	16.72		
20	64QAM	1	99	16.52	16.52	16.73		
20	64QAM	50	0	16.57	16.57	16.66	18	0
20	64QAM	50	24	16.59	16.59	16.67		
20	64QAM	50	50	16.53	16.53	16.53		
20	64QAM	100	0	16.61	16.61	16.65		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	16.49	16.61	16.59	18	0
15	QPSK	1	37	16.36	16.39	16.39		
15	QPSK	1	74	16.37	16.38	16.39		
15	QPSK	36	0	16.53	16.61	16.59	18	0
15	QPSK	36	20	16.54	16.54	16.50		
15	QPSK	36	39	16.51	16.57	16.52		
15	QPSK	75	0	16.53	16.54	16.51		
15	16QAM	1	0	16.69	16.67	16.69	18	0
15	16QAM	1	37	16.73	16.80	16.68		
15	16QAM	1	74	16.72	16.72	16.70		
15	16QAM	36	0	16.54	16.63	16.58	18	0
15	16QAM	36	20	16.53	16.57	16.55		
15	16QAM	36	39	16.49	16.58	16.56		
15	16QAM	75	0	16.56	16.56	16.58		
15	64QAM	1	0	16.74	16.82	16.78	18	0
15	64QAM	1	37	16.63	16.68	16.68		
15	64QAM	1	74	16.57	16.63	16.66		
15	64QAM	36	0	16.59	16.67	16.64	18	0
15	64QAM	36	20	16.54	16.58	16.55		
15	64QAM	36	39	16.55	16.62	16.57		
15	64QAM	75	0	16.55	16.58	16.56		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	16.36	16.46	16.40	18	0
10	QPSK	1	25	16.36	16.40	16.40		
10	QPSK	1	49	16.37	16.41	16.38		
10	QPSK	25	0	16.36	16.47	16.44	18	0
10	QPSK	25	12	16.49	16.50	16.48		
10	QPSK	25	25	16.51	16.54	16.53		
10	QPSK	50	0	16.53	16.51	16.54		
10	16QAM	1	0	16.77	16.80	16.75	18	0
10	16QAM	1	25	16.70	16.78	16.70		
10	16QAM	1	49	16.72	16.78	16.69		
10	16QAM	25	0	16.43	16.50	16.41	18	0
10	16QAM	25	12	16.52	16.53	16.47		
10	16QAM	25	25	16.47	16.57	16.52		
10	16QAM	50	0	16.51	16.50	16.54		
10	64QAM	1	0	16.57	16.64	16.60	18	0
10	64QAM	1	25	16.57	16.76	16.76		
10	64QAM	1	49	16.58	16.68	16.72		
10	64QAM	25	0	16.40	16.50	16.49	18	0
10	64QAM	25	12	16.53	16.55	16.49		
10	64QAM	25	25	16.51	16.56	16.53		
10	64QAM	50	0	16.51	16.52	16.54		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	16.41	16.45	16.45	18	0
5	QPSK	1	12	16.43	16.55	16.46		
5	QPSK	1	24	16.45	16.56	16.52		
5	QPSK	12	0	16.52	16.54	16.48	18	0
5	QPSK	12	7	16.57	16.65	16.56		
5	QPSK	12	13	16.56	16.63	16.57		
5	QPSK	25	0	16.52	16.53	16.50		
5	16QAM	1	0	16.70	16.75	16.72	18	0
5	16QAM	1	12	16.65	16.71	16.68		
5	16QAM	1	24	16.75	16.80	16.81		
5	16QAM	12	0	16.52	16.59	16.48	18	0
5	16QAM	12	7	16.57	16.66	16.57		
5	16QAM	12	13	16.55	16.64	16.56		
5	16QAM	25	0	16.60	16.60	16.55		
5	64QAM	1	0	16.65	16.74	16.64	18	0
5	64QAM	1	12	16.61	16.69	16.61		
5	64QAM	1	24	16.67	16.75	16.65		
5	64QAM	12	0	16.58	16.60	16.55	18	0
5	64QAM	12	7	16.63	16.73	16.65		
5	64QAM	12	13	16.60	16.72	16.65		
5	64QAM	25	0	16.53	16.59	16.54		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	16.37	16.46	16.34	18	0
3	QPSK	1	8	16.45	16.50	16.47		
3	QPSK	1	14	16.39	16.52	16.41		
3	QPSK	8	0	16.48	16.52	16.42	18	0
3	QPSK	8	4	16.52	16.60	16.53		
3	QPSK	8	7	16.51	16.56	16.50		
3	QPSK	15	0	16.44	16.50	16.48		
3	16QAM	1	0	16.73	16.77	16.60	18	0
3	16QAM	1	8	16.73	16.79	16.71		
3	16QAM	1	14	16.70	16.82	16.73		
3	16QAM	8	0	16.52	16.57	16.43	18	0
3	16QAM	8	4	16.54	16.65	16.53		
3	16QAM	8	7	16.53	16.62	16.53		
3	16QAM	15	0	16.51	16.56	16.52		
3	64QAM	1	0	16.64	16.55	16.61	18	0
3	64QAM	1	8	16.66	16.70	16.70		
3	64QAM	1	14	16.51	16.71	16.65		
3	64QAM	8	0	16.54	16.57	16.44	18	0
3	64QAM	8	4	16.55	16.65	16.58		
3	64QAM	8	7	16.54	16.64	16.54		
3	64QAM	15	0	16.49	16.56	16.47		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	16.28	16.37	16.22	18	0
1.4	QPSK	1	3	16.35	16.43	16.41		
1.4	QPSK	1	5	16.28	16.43	16.27		
1.4	QPSK	3	0	16.34	16.41	16.27		
1.4	QPSK	3	1	16.37	16.39	16.26		
1.4	QPSK	3	3	16.31	16.42	16.32		
1.4	QPSK	6	0	16.38	16.49	16.34	18	0
1.4	16QAM	1	0	16.56	16.73	16.54	18	0
1.4	16QAM	1	3	16.69	16.76	16.69		
1.4	16QAM	1	5	16.59	16.68	16.60		
1.4	16QAM	3	0	16.39	16.43	16.32		
1.4	16QAM	3	1	16.47	16.47	16.37		
1.4	16QAM	3	3	16.39	16.46	16.35		
1.4	16QAM	6	0	16.48	16.57	16.45	18	0
1.4	64QAM	1	0	16.52	16.58	16.53	18	0
1.4	64QAM	1	3	16.57	16.66	16.63		
1.4	64QAM	1	5	16.44	16.59	16.55		
1.4	64QAM	3	0	16.51	16.60	16.49		
1.4	64QAM	3	1	16.54	16.63	16.54		
1.4	64QAM	3	3	16.47	16.59	16.51		
1.4	64QAM	6	0	16.40	16.47	16.34	18	0

Band 5 (Cellular Band)
Part 22H(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				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	20.43	20.39	20.42	21	0
10	QPSK	1	25	20.28	20.39	20.37		
10	QPSK	1	49	20.02	19.98	19.99		
10	QPSK	25	0	20.06	20.10	20.12	21	0
10	QPSK	25	12	20.21	20.10	20.18		
10	QPSK	25	25	20.11	20.14	20.17		
10	QPSK	50	0	20.16	20.10	20.14		
10	16QAM	1	0	20.30	20.41	20.38	21	0
10	16QAM	1	25	20.33	20.40	20.35		
10	16QAM	1	49	20.39	20.40	20.37		
10	16QAM	25	0	20.03	20.08	20.08	21	0
10	16QAM	25	12	20.14	20.10	20.17		
10	16QAM	25	25	20.08	20.14	20.09		
10	16QAM	50	0	20.13	20.09	20.17		
10	64QAM	1	0	20.22	20.20	20.30	21	0
10	64QAM	1	25	20.22	20.29	20.33		
10	64QAM	1	49	20.24	20.25	20.29		
10	64QAM	25	0	19.63	19.68	19.66	20.5	0.5
10	64QAM	25	12	19.72	19.68	19.78		
10	64QAM	25	25	19.68	19.68	19.70		
10	64QAM	50	0	19.68	19.65	19.70		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	20.01	20.07	20.10	21	0
5	QPSK	1	12	20.03	20.14	20.09		
5	QPSK	1	24	19.99	20.05	20.00		
5	QPSK	12	0	20.06	20.14	20.13	21	0
5	QPSK	12	7	20.09	20.15	20.11		
5	QPSK	12	13	20.08	20.13	20.09		
5	QPSK	25	0	20.08	20.15	20.09		
5	16QAM	1	0	19.92	20.01	20.06	21	0
5	16QAM	1	12	19.96	19.99	20.01		
5	16QAM	1	24	20.28	20.35	20.31		
5	16QAM	12	0	20.08	20.15	20.17	21	0
5	16QAM	12	7	20.11	20.19	20.13		
5	16QAM	12	13	20.07	20.13	20.07		
5	16QAM	25	0	20.09	20.19	20.10		
5	64QAM	1	0	20.31	20.33	20.22	21	0
5	64QAM	1	12	20.24	20.35	20.32		
5	64QAM	1	24	20.23	20.37	20.24		
5	64QAM	12	0	19.62	19.70	19.74	20.5	0.5
5	64QAM	12	7	19.63	19.75	19.69		
5	64QAM	12	13	19.58	19.69	19.65		
5	64QAM	25	0	19.60	19.71	19.66		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	19.99	20.06	20.05	21	0
3	QPSK	1	8	20.04	20.11	20.09		
3	QPSK	1	14	19.94	20.00	19.99		
3	QPSK	8	0	20.04	20.11	20.09	21	0
3	QPSK	8	4	20.10	20.16	20.09		
3	QPSK	8	7	20.05	20.10	20.06		
3	QPSK	15	0	20.09	20.14	20.09		
3	16QAM	1	0	20.28	20.38	20.31	21	0
3	16QAM	1	8	20.38	20.25	20.41		
3	16QAM	1	14	20.28	20.32	20.26		
3	16QAM	8	0	20.09	20.17	20.14	21	0
3	16QAM	8	4	20.12	20.23	20.12		
3	16QAM	8	7	20.09	20.15	20.13		
3	16QAM	15	0	20.09	20.20	20.09		
3	64QAM	1	0	20.21	20.29	20.29	21	0
3	64QAM	1	8	20.25	20.37	20.33		
3	64QAM	1	14	20.18	20.22	20.23		
3	64QAM	8	0	19.57	19.67	19.67	20.5	0.5
3	64QAM	8	4	19.65	19.72	19.66		
3	64QAM	8	7	19.59	19.69	19.64		
3	64QAM	15	0	19.59	19.69	19.64		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	19.84	20.02	19.97	21	0
1.4	QPSK	1	3	19.96	20.02	19.98		
1.4	QPSK	1	5	19.91	19.92	19.93		
1.4	QPSK	3	0	19.90	20.01	19.96		
1.4	QPSK	3	1	19.97	20.03	20.00		
1.4	QPSK	3	3	19.93	19.98	19.96		
1.4	QPSK	6	0	20.01	20.06	20.01	21	0
1.4	16QAM	1	0	20.17	20.32	20.30	21	0
1.4	16QAM	1	3	20.29	20.35	20.31		
1.4	16QAM	1	5	20.17	20.28	20.22		
1.4	16QAM	3	0	19.95	20.10	20.09		
1.4	16QAM	3	1	20.05	20.14	20.11		
1.4	16QAM	3	3	20.00	20.08	20.04		
1.4	16QAM	6	0	20.06	20.13	20.12	21	0
1.4	64QAM	1	0	20.10	20.26	20.20	21	0
1.4	64QAM	1	3	20.21	20.28	20.27		
1.4	64QAM	1	5	20.13	20.19	20.20		
1.4	64QAM	3	0	20.08	20.21	20.19		
1.4	64QAM	3	1	20.18	20.30	20.21		
1.4	64QAM	3	3	20.12	20.20	20.16		
1.4	64QAM	6	0	19.52	19.58	19.57	20.5	0.5

Band 7 (2600MHz Band)
Part 27

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	12.95	12.75	12.77	14	0
20	QPSK	1	49	12.73	12.73	12.50		
20	QPSK	1	99	12.77	12.76	12.55		
20	QPSK	50	0	12.74	12.78	12.69	14	0
20	QPSK	50	24	12.85	12.76	12.72		
20	QPSK	50	50	12.82	12.76	12.67		
20	QPSK	100	0	12.93	12.82	12.69		
20	16QAM	1	0	12.78	12.83	12.82	14	0
20	16QAM	1	49	12.75	12.89	12.87		
20	16QAM	1	99	12.91	12.67	12.82		
20	16QAM	50	0	12.69	12.59	12.52	14	0
20	16QAM	50	24	12.77	12.71	12.63		
20	16QAM	50	50	12.85	12.73	12.64		
20	16QAM	100	0	12.63	12.79	12.69		
20	64QAM	1	0	12.60	12.93	12.73	14	0
20	64QAM	1	49	12.74	12.80	12.76		
20	64QAM	1	99	12.83	12.67	12.78		
20	64QAM	50	0	12.80	12.83	12.56	14	0
20	64QAM	50	24	12.68	12.81	12.64		
20	64QAM	50	50	12.70	12.83	12.60		
20	64QAM	100	0	12.65	12.74	12.40		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	12.49	12.65	12.67	14	0
15	QPSK	1	37	12.44	12.53	12.59		
15	QPSK	1	74	12.46	12.65	12.56		
15	QPSK	36	0	12.32	12.39	12.49	14	0
15	QPSK	36	20	12.46	12.67	12.57		
15	QPSK	36	39	12.65	12.66	12.47		
15	QPSK	75	0	12.41	12.57	12.63		
15	16QAM	1	0	12.75	12.77	12.57	14	0
15	16QAM	1	37	12.81	12.72	12.62		
15	16QAM	1	74	12.55	12.52	12.54		
15	16QAM	36	0	12.33	12.57	12.48	14	0
15	16QAM	36	20	12.47	12.70	12.40		
15	16QAM	36	39	12.51	12.62	12.41		
15	16QAM	75	0	12.59	12.61	12.63		
15	64QAM	1	0	12.68	12.55	12.53	14	0
15	64QAM	1	37	12.55	12.69	12.67		
15	64QAM	1	74	12.61	12.71	12.45		
15	64QAM	36	0	12.50	12.66	12.51	14	0
15	64QAM	36	20	12.55	12.66	12.45		
15	64QAM	36	39	12.60	12.70	12.69		
15	64QAM	75	0	12.58	12.72	12.67		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	12.46	12.40	12.43	14	0
10	QPSK	1	25	12.45	12.47	12.51		
10	QPSK	1	49	12.35	12.62	12.61		
10	QPSK	25	0	12.26	12.47	12.57	14	0
10	QPSK	25	12	12.34	12.50	12.62		
10	QPSK	25	25	12.47	12.58	12.68		
10	QPSK	50	0	12.42	12.56	12.63		
10	16QAM	1	0	12.58	12.56	12.54	14	0
10	16QAM	1	25	12.45	12.62	12.52		
10	16QAM	1	49	12.47	12.61	12.67		
10	16QAM	25	0	12.33	12.46	12.48	14	0
10	16QAM	25	12	12.45	12.53	12.61		
10	16QAM	25	25	12.51	12.65	12.57		
10	16QAM	50	0	12.47	12.57	12.64		
10	64QAM	1	0	12.41	12.49	12.54	14	0
10	64QAM	1	25	12.61	12.53	12.53		
10	64QAM	1	49	12.55	12.47	12.58		
10	64QAM	25	0	12.33	12.47	12.57	14	0
10	64QAM	25	12	12.53	12.53	12.63		
10	64QAM	25	25	12.52	12.69	12.49		
10	64QAM	50	0	12.37	12.49	12.50		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	12.36	12.47	12.43	14	0
5	QPSK	1	12	12.48	12.52	12.52		
5	QPSK	1	24	12.26	12.47	12.43		
5	QPSK	12	0	12.14	12.37	12.53	14	0
5	QPSK	12	7	12.23	12.46	12.50		
5	QPSK	12	13	12.25	12.32	12.45		
5	QPSK	25	0	12.20	12.31	12.40		
5	16QAM	1	0	12.55	12.68	12.48	14	0
5	16QAM	1	12	12.48	12.44	12.32		
5	16QAM	1	24	12.57	12.42	12.37		
5	16QAM	12	0	12.29	12.41	12.52	14	0
5	16QAM	12	7	12.17	12.42	12.66		
5	16QAM	12	13	12.43	12.33	12.57		
5	16QAM	25	0	12.31	12.35	12.17		
5	64QAM	1	0	12.29	12.46	12.52	14	0
5	64QAM	1	12	12.48	12.65	12.54		
5	64QAM	1	24	12.38	12.48	12.43		
5	64QAM	12	0	12.31	12.48	12.49	14	0
5	64QAM	12	7	12.22	12.48	12.37		
5	64QAM	12	13	12.33	12.54	12.24		
5	64QAM	25	0	12.19	12.41	12.50		

Band 12 (700MHz Low Band)
Part 27F(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	21.57	21.59	21.66	22.5	0
10	QPSK	1	25	21.65	21.69	21.76		
10	QPSK	1	49	21.80	21.75	21.82		
10	QPSK	25	0	21.64	21.68	21.68	22.5	0
10	QPSK	25	12	21.73	21.69	21.77		
10	QPSK	25	25	21.70	21.66	21.75		
10	QPSK	50	0	21.73	21.70	21.75		
10	16QAM	1	0	21.64	21.73	21.77	22.5	0
10	16QAM	1	25	21.68	21.75	21.77		
10	16QAM	1	49	21.78	21.75	21.72		
10	16QAM	25	0	20.57	20.61	20.58	21.5	1
10	16QAM	25	12	20.63	20.58	20.66		
10	16QAM	25	25	20.58	20.59	20.62		
10	16QAM	50	0	20.62	20.59	20.66		
10	64QAM	1	0	20.64	20.62	20.71	21.5	1
10	64QAM	1	25	20.75	20.73	20.84		
10	64QAM	1	49	20.84	20.74	20.85		
10	64QAM	25	0	19.57	19.64	19.60	20.5	2
10	64QAM	25	12	19.66	19.65	19.71		
10	64QAM	25	25	19.65	19.68	19.68		
10	64QAM	50	0	19.62	19.60	19.73		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	21.43	21.52	21.45	22.5	0
5	QPSK	1	12	21.46	21.53	21.52		
5	QPSK	1	24	21.47	21.52	21.55		
5	QPSK	12	0	21.51	21.60	21.58	22.5	0
5	QPSK	12	7	21.59	21.58	21.63		
5	QPSK	12	13	21.54	21.61	21.59		
5	QPSK	25	0	21.57	21.56	21.60		
5	16QAM	1	0	21.67	21.68	21.64	22.5	0
5	16QAM	1	12	21.69	21.69	21.70		
5	16QAM	1	24	21.69	21.74	21.79		
5	16QAM	12	0	20.59	20.62	20.61	21.5	1
5	16QAM	12	7	20.62	20.59	20.65		
5	16QAM	12	13	20.59	20.60	20.64		
5	16QAM	25	0	20.60	20.59	20.64		
5	64QAM	1	0	20.72	20.73	20.71	21.5	1
5	64QAM	1	12	20.69	20.66	20.77		
5	64QAM	1	24	20.74	20.65	20.85		
5	64QAM	12	0	19.66	19.65	19.66	20.5	2
5	64QAM	12	7	19.68	19.64	19.70		
5	64QAM	12	13	19.64	19.68	19.68		
5	64QAM	25	0	19.58	19.63	19.65		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	21.45	21.50	21.53	22.5	0
3	QPSK	1	8	21.52	21.56	21.57		
3	QPSK	1	14	21.43	21.53	21.52		
3	QPSK	8	0	21.51	21.57	21.58	22.5	0
3	QPSK	8	4	21.55	21.55	21.63		
3	QPSK	8	7	21.51	21.59	21.59		
3	QPSK	15	0	21.54	21.56	21.56		
3	16QAM	1	0	21.68	21.68	21.78	22.5	0
3	16QAM	1	8	21.72	21.80	21.81		
3	16QAM	1	14	21.64	21.73	21.78		
3	16QAM	8	0	20.58	20.62	20.59	21.5	1
3	16QAM	8	4	20.62	20.64	20.68		
3	16QAM	8	7	20.59	20.64	20.64		
3	16QAM	15	0	20.60	20.60	20.55		
3	64QAM	1	0	20.68	20.72	20.73	21.5	1
3	64QAM	1	8	20.75	20.77	20.80		
3	64QAM	1	14	20.68	20.69	20.82		
3	64QAM	8	0	19.58	19.64	19.64	20.5	2
3	64QAM	8	4	19.65	19.66	19.70		
3	64QAM	8	7	19.61	19.68	19.65		
3	64QAM	15	0	19.59	19.60	19.59		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	21.34	21.39	21.39	22.5	0
1.4	QPSK	1	3	21.42	21.50	21.50		
1.4	QPSK	1	5	21.37	21.42	21.40		
1.4	QPSK	3	0	21.42	21.39	21.41		
1.4	QPSK	3	1	21.43	21.40	21.49		
1.4	QPSK	3	3	21.37	21.49	21.46		
1.4	QPSK	6	0	21.49	21.47	21.52	22.5	0
1.4	16QAM	1	0	21.57	21.59	21.64	22.5	0
1.4	16QAM	1	3	21.65	21.73	21.78		
1.4	16QAM	1	5	21.57	21.62	21.71		
1.4	16QAM	3	0	21.46	21.48	21.52		
1.4	16QAM	3	1	21.52	21.50	21.60		
1.4	16QAM	3	3	21.42	21.52	21.56		
1.4	16QAM	6	0	20.56	20.55	20.63	21.5	1
1.4	64QAM	1	0	20.58	20.60	20.60	21.5	1
1.4	64QAM	1	3	20.64	20.68	20.72		
1.4	64QAM	1	5	20.56	20.62	20.65		
1.4	64QAM	3	0	20.58	20.55	20.65		
1.4	64QAM	3	1	20.63	20.58	20.74		
1.4	64QAM	3	3	20.54	20.61	20.68		
1.4	64QAM	6	0	19.46	19.50	19.54	20.5	2

Band 17 (700MHz Band)
Part 27H(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				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	21.65	21.62	21.68	22.5	0
10	QPSK	1	25	21.71	21.66	21.69		
10	QPSK	1	49	21.75	21.75	21.78		
10	QPSK	25	0	21.60	21.60	21.59	22.5	0
10	QPSK	25	12	21.71	21.68	21.74		
10	QPSK	25	25	21.73	21.63	21.72		
10	QPSK	50	0	21.65	21.62	21.69		
10	16QAM	1	0	21.64	21.64	21.68	22.5	0
10	16QAM	1	25	21.70	21.72	21.69		
10	16QAM	1	49	21.75	21.75	21.77		
10	16QAM	25	0	20.57	20.55	20.56	21.5	1
10	16QAM	25	12	20.70	20.58	20.69		
10	16QAM	25	25	20.67	20.70	20.72		
10	16QAM	50	0	20.60	20.59	20.60		
10	64QAM	1	0	20.66	20.73	20.73	21.5	1
10	64QAM	1	25	20.83	20.85	20.82		
10	64QAM	1	49	20.86	20.87	20.85		
10	64QAM	25	0	19.58	19.59	19.59	20.5	2
10	64QAM	25	12	19.75	19.63	19.75		
10	64QAM	25	25	19.74	19.73	19.71		
10	64QAM	50	0	19.64	19.59	19.58		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	21.47	21.44	21.48	22.5	0
5	QPSK	1	12	21.54	21.55	21.55		
5	QPSK	1	24	21.60	21.63	21.64		
5	QPSK	12	0	21.58	21.59	21.56	22.5	0
5	QPSK	12	7	21.67	21.61	21.61		
5	QPSK	12	13	21.66	21.64	21.66		
5	QPSK	25	0	21.64	21.58	21.57		
5	16QAM	1	0	21.63	21.58	21.61	22.5	0
5	16QAM	1	12	21.70	21.63	21.65		
5	16QAM	1	24	21.77	21.74	21.74		
5	16QAM	12	0	20.59	20.63	20.59	21.5	1
5	16QAM	12	7	20.65	20.59	20.62		
5	16QAM	12	13	20.65	20.67	20.66		
5	16QAM	25	0	20.63	20.62	20.62		
5	64QAM	1	0	20.76	20.77	20.70	21.5	1
5	64QAM	1	12	20.77	20.79	20.83		
5	64QAM	1	24	20.83	20.91	20.93		
5	64QAM	12	0	19.62	19.64	19.65	20.5	2
5	64QAM	12	7	19.74	19.68	19.67		
5	64QAM	12	13	19.69	19.71	19.72		
5	64QAM	25	0	19.67	19.64	19.63		

Band 26 for FCC
(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	19.07	19.06	19.11	20.3	0
15	QPSK	1	37	18.91	18.97	19.00		
15	QPSK	1	74	18.96	18.95	18.95		
15	QPSK	36	0	18.86	18.96	19.00	20.3	0
15	QPSK	36	20	19.02	18.94	19.03		
15	QPSK	36	39	18.91	18.97	18.82		
15	QPSK	75	0	18.82	18.86	19.06		
15	16QAM	1	0	18.96	19.01	19.02	20.3	0
15	16QAM	1	37	18.91	18.98	18.96		
15	16QAM	1	74	19.08	18.88	19.05		
15	16QAM	36	0	19.01	18.87	19.07	20.3	0
15	16QAM	36	20	19.01	19.01	18.97		
15	16QAM	36	39	19.02	18.89	18.88		
15	16QAM	75	0	18.94	18.85	18.94		
15	64QAM	1	0	19.02	19.07	18.92	20.3	0
15	64QAM	1	37	19.05	18.99	19.00		
15	64QAM	1	74	18.95	18.96	19.00		
15	64QAM	36	0	18.55	18.42	18.55	19.8	0.5
15	64QAM	36	20	18.42	18.56	18.40		
15	64QAM	36	39	18.41	18.56	18.51		
15	64QAM	75	0	18.50	18.54	18.61		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	18.71	18.77	18.84	20.3	0
10	QPSK	1	25	18.71	18.74	18.84		
10	QPSK	1	49	18.75	18.89	18.77		
10	QPSK	25	0	18.76	18.93	18.96	20.3	0
10	QPSK	25	12	18.85	18.90	19.04		
10	QPSK	25	25	18.87	18.90	18.85		
10	QPSK	50	0	18.94	18.89	18.94		
10	16QAM	1	0	18.90	18.93	19.06	20.3	0
10	16QAM	1	25	19.09	19.00	19.10		
10	16QAM	1	49	18.89	19.08	18.90		
10	16QAM	25	0	18.88	18.96	18.90	20.3	0
10	16QAM	25	12	18.86	18.82	18.95		
10	16QAM	25	25	18.72	18.88	18.92		
10	16QAM	50	0	18.85	18.92	18.84		
10	64QAM	1	0	19.04	18.90	18.90	20.3	0
10	64QAM	1	25	18.97	19.09	18.96		
10	64QAM	1	49	19.03	19.01	19.07		
10	64QAM	25	0	18.34	18.33	18.33	19.8	0.5
10	64QAM	25	12	18.44	18.46	18.56		
10	64QAM	25	25	18.32	18.48	18.37		
10	64QAM	50	0	18.47	18.34	18.38		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	18.86	18.73	18.75	20.3	0
5	QPSK	1	12	18.81	18.82	18.95		
5	QPSK	1	24	18.66	18.91	18.92		
5	QPSK	12	0	18.90	18.83	19.00	20.3	0
5	QPSK	12	7	18.88	19.01	18.84		
5	QPSK	12	13	18.75	18.81	18.93		
5	QPSK	25	0	18.90	18.90	18.99		
5	16QAM	1	0	18.97	19.05	19.01	20.3	0
5	16QAM	1	12	18.99	19.00	18.95		
5	16QAM	1	24	18.85	19.05	19.09		
5	16QAM	12	0	18.85	18.94	19.03	20.3	0
5	16QAM	12	7	18.99	18.97	18.84		
5	16QAM	12	13	18.91	18.85	18.84		
5	16QAM	25	0	19.03	18.90	18.81		
5	64QAM	1	0	18.91	18.85	18.92	20.3	0
5	64QAM	1	12	18.88	19.01	18.99		
5	64QAM	1	24	18.92	18.93	18.98		
5	64QAM	12	0	18.47	18.41	18.45	19.8	0.5
5	64QAM	12	7	18.54	18.39	18.46		
5	64QAM	12	13	18.39	18.56	18.55		
5	64QAM	25	0	18.52	18.52	18.37		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	18.77	18.78	18.67	20.3	0
3	QPSK	1	8	18.87	18.80	18.79		
3	QPSK	1	14	18.66	18.61	18.65		
3	QPSK	8	0	18.78	18.88	18.94	20.3	0
3	QPSK	8	4	18.76	18.89	18.90		
3	QPSK	8	7	18.81	18.75	18.71		
3	QPSK	15	0	18.73	18.71	18.88		
3	16QAM	1	0	18.90	18.82	18.95	20.3	0
3	16QAM	1	8	18.84	18.90	18.96		
3	16QAM	1	14	18.96	19.00	18.95		
3	16QAM	8	0	18.81	18.93	18.82	20.3	0
3	16QAM	8	4	18.91	18.78	18.87		
3	16QAM	8	7	18.69	18.75	18.86		
3	16QAM	15	0	18.72	18.72	18.93		
3	64QAM	1	0	18.95	18.83	18.96	20.3	0
3	64QAM	1	8	18.88	18.93	18.96		
3	64QAM	1	14	18.83	18.90	18.81		
3	64QAM	8	0	18.36	18.34	18.40	19.8	0.5
3	64QAM	8	4	18.43	18.39	18.40		
3	64QAM	8	7	18.36	18.39	18.34		
3	64QAM	15	0	18.30	18.32	18.33		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	18.77	18.70	18.63	20.3	0
1.4	QPSK	1	3	18.59	18.64	18.59		
1.4	QPSK	1	5	18.59	18.62	18.58		
1.4	QPSK	3	0	18.72	18.71	18.73		
1.4	QPSK	3	1	18.64	18.70	18.71		
1.4	QPSK	3	3	18.53	18.65	18.57		
1.4	QPSK	6	0	18.63	18.78	18.62	20.3	0
1.4	16QAM	1	0	18.65	18.88	18.71	20.3	0
1.4	16QAM	1	3	18.80	18.96	18.93		
1.4	16QAM	1	5	18.86	18.79	18.88		
1.4	16QAM	3	0	18.80	18.78	18.79		
1.4	16QAM	3	1	18.75	18.82	18.65		
1.4	16QAM	3	3	18.70	18.83	18.79		
1.4	16QAM	6	0	18.81	18.69	18.67	20.3	0
1.4	64QAM	1	0	18.88	18.79	18.74	20.3	0
1.4	64QAM	1	3	18.74	18.89	18.79		
1.4	64QAM	1	5	18.76	18.75	18.69		
1.4	64QAM	3	0	18.90	18.83	18.87		
1.4	64QAM	3	1	18.80	18.89	18.93		
1.4	64QAM	3	3	18.81	18.87	18.82		
1.4	64QAM	6	0	18.34	18.37	18.34	19.8	0.5

Band 66

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	16.59	16.67	16.62	18	0
20	QPSK	1	49	16.42	16.57	16.47		
20	QPSK	1	99	16.40	16.44	16.42		
20	QPSK	50	0	16.42	16.51	16.44	18	0
20	QPSK	50	24	16.57	16.63	16.61		
20	QPSK	50	50	16.39	16.49	16.42		
20	QPSK	100	0	16.50	16.58	16.55		
20	16QAM	1	0	16.52	16.53	16.55	18	0
20	16QAM	1	49	16.60	16.60	16.54		
20	16QAM	1	99	16.56	16.52	16.48		
20	16QAM	50	0	16.41	16.54	16.45	18	0
20	16QAM	50	24	16.48	16.51	16.43		
20	16QAM	50	50	16.44	16.52	16.41		
20	16QAM	100	0	16.41	16.56	16.40		
20	64QAM	1	0	16.62	16.62	16.62	18	0
20	64QAM	1	49	16.59	16.60	16.44		
20	64QAM	1	99	16.50	16.50	16.48		
20	64QAM	50	0	16.40	16.55	16.42	18	0
20	64QAM	50	24	16.46	16.51	16.42		
20	64QAM	50	50	16.39	16.52	16.59		
20	64QAM	100	0	16.44	16.56	16.40		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	16.30	16.46	16.46	18	0
15	QPSK	1	37	16.28	16.42	16.34		
15	QPSK	1	74	16.25	16.34	16.29		
15	QPSK	36	0	16.35	16.52	16.43	18	0
15	QPSK	36	20	16.42	16.56	16.51		
15	QPSK	36	39	16.40	16.51	16.42		
15	QPSK	75	0	16.39	16.56	16.47		
15	16QAM	1	0	16.44	16.64	16.60	18	0
15	16QAM	1	37	16.58	16.62	16.54		
15	16QAM	1	74	16.45	16.56	16.49		
15	16QAM	36	0	16.34	16.51	16.40	18	0
15	16QAM	36	20	16.45	16.59	16.47		
15	16QAM	36	39	16.38	16.52	16.39		
15	16QAM	75	0	16.44	16.56	16.44		
15	64QAM	1	0	16.50	16.62	16.60	18	0
15	64QAM	1	37	16.58	16.66	16.59		
15	64QAM	1	74	16.43	16.48	16.48		
15	64QAM	36	0	16.38	16.52	16.42	18	0
15	64QAM	36	20	16.45	16.59	16.47		
15	64QAM	36	39	16.42	16.50	16.42		
15	64QAM	75	0	16.41	16.55	16.40		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	16.27	16.48	16.40	18	0
10	QPSK	1	25	16.28	16.39	16.29		
10	QPSK	1	49	16.23	16.34	16.23		
10	QPSK	25	0	16.33	16.50	16.37	18	0
10	QPSK	25	12	16.43	16.47	16.36		
10	QPSK	25	25	16.40	16.50	16.40		
10	QPSK	50	0	16.42	16.56	16.36		
10	16QAM	1	0	16.55	16.60	16.58	18	0
10	16QAM	1	25	16.46	16.66	16.46		
10	16QAM	1	49	16.48	16.56	16.44		
10	16QAM	25	0	16.29	16.46	16.42	18	0
10	16QAM	25	12	16.43	16.47	16.36		
10	16QAM	25	25	16.38	16.46	16.37		
10	16QAM	50	0	16.40	16.55	16.34		
10	64QAM	1	0	16.35	16.58	16.39	18	0
10	64QAM	1	25	16.37	16.62	16.50		
10	64QAM	1	49	16.38	16.51	16.42		
10	64QAM	25	0	16.30	16.50	16.42	18	0
10	64QAM	25	12	16.47	16.49	16.40		
10	64QAM	25	25	16.36	16.53	16.41		
10	64QAM	50	0	16.43	16.52	16.36		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	16.28	16.40	16.26	18	0
5	QPSK	1	12	16.36	16.46	16.31		
5	QPSK	1	24	16.30	16.41	16.29		
5	QPSK	12	0	16.43	16.51	16.36	18	0
5	QPSK	12	7	16.46	16.57	16.41		
5	QPSK	12	13	16.42	16.53	16.40		
5	QPSK	25	0	16.40	16.54	16.40		
5	16QAM	1	0	16.48	16.61	16.43	18	0
5	16QAM	1	12	16.45	16.59	16.41		
5	16QAM	1	24	16.47	16.60	16.44		
5	16QAM	12	0	16.44	16.49	16.36	18	0
5	16QAM	12	7	16.45	16.57	16.42		
5	16QAM	12	13	16.40	16.52	16.38		
5	16QAM	25	0	16.41	16.52	16.38		
5	64QAM	1	0	16.35	16.59	16.42	18	0
5	64QAM	1	12	16.40	16.54	16.44		
5	64QAM	1	24	16.34	16.44	16.35		
5	64QAM	12	0	16.43	16.57	16.43	18	0
5	64QAM	12	7	16.46	16.63	16.46		
5	64QAM	12	13	16.41	16.56	16.43		
5	64QAM	25	0	16.39	16.56	16.38		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	16.36	16.40	16.26	18	0
3	QPSK	1	8	16.42	16.48	16.36		
3	QPSK	1	14	16.35	16.40	16.32		
3	QPSK	8	0	16.33	16.47	16.33	18	0
3	QPSK	8	4	16.46	16.57	16.36		
3	QPSK	8	7	16.43	16.54	16.36		
3	QPSK	15	0	16.42	16.54	16.30		
3	16QAM	1	0	16.44	16.61	16.44	18	0
3	16QAM	1	8	16.50	16.66	16.59		
3	16QAM	1	14	16.48	16.60	16.50		
3	16QAM	8	0	16.42	16.52	16.39	18	0
3	16QAM	8	4	16.46	16.59	16.39		
3	16QAM	8	7	16.41	16.58	16.43		
3	16QAM	15	0	16.40	16.56	16.34		
3	64QAM	1	0	16.37	16.55	16.39	18	0
3	64QAM	1	8	16.48	16.63	16.47		
3	64QAM	1	14	16.38	16.49	16.35		
3	64QAM	8	0	16.40	16.55	16.42	18	0
3	64QAM	8	4	16.45	16.59	16.44		
3	64QAM	8	7	16.43	16.59	16.40		
3	64QAM	15	0	16.42	16.52	16.38		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	16.34	16.39	16.23	18	0
1.4	QPSK	1	3	16.28	16.44	16.30		
1.4	QPSK	1	5	16.19	16.36	16.23		
1.4	QPSK	3	0	16.21	16.41	16.25		
1.4	QPSK	3	1	16.23	16.42	16.29		
1.4	QPSK	3	3	16.19	16.42	16.24		
1.4	QPSK	6	0	16.28	16.51	16.34	18	0
1.4	16QAM	1	0	16.35	16.56	16.41	18	0
1.4	16QAM	1	3	16.45	16.65	16.49		
1.4	16QAM	1	5	16.37	16.56	16.38		
1.4	16QAM	3	0	16.34	16.47	16.34		
1.4	16QAM	3	1	16.34	16.48	16.36		
1.4	16QAM	3	3	16.24	16.41	16.30		
1.4	16QAM	6	0	16.35	16.54	16.40	18	0
1.4	64QAM	1	0	16.35	16.59	16.48	18	0
1.4	64QAM	1	3	16.51	16.64	16.52		
1.4	64QAM	1	5	16.42	16.56	16.44		
1.4	64QAM	3	0	16.41	16.56	16.45		
1.4	64QAM	3	1	16.46	16.64	16.51		
1.4	64QAM	3	3	16.41	16.56	16.41		
1.4	64QAM	6	0	16.30	16.40	16.35	18	0

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				37850	38000	38150		
Frequency (MHz)				2540	2595	2610		
20	QPSK	1	0	16.54	16.34	16.44	17	0
20	QPSK	1	49	16.30	16.28	16.53		
20	QPSK	1	99	16.35	16.48	16.23		
20	QPSK	50	0	16.28	16.31	16.42	17	0
20	QPSK	50	24	16.43	16.29	16.40		
20	QPSK	50	50	16.30	16.34	16.39		
20	QPSK	100	0	16.32	16.12	16.29		
20	16QAM	1	0	16.39	16.50	16.50	17	0
20	16QAM	1	49	16.40	16.27	16.46		
20	16QAM	1	99	16.29	16.46	16.42		
20	16QAM	50	0	16.40	16.49	16.42	17	0
20	16QAM	50	24	16.34	16.21	16.51		
20	16QAM	50	50	16.24	16.39	16.39		
20	16QAM	100	0	16.24	16.42	16.46		
20	64QAM	1	0	15.92	16.03	16.08	17	0
20	64QAM	1	49	15.97	16.13	16.24		
20	64QAM	1	99	15.93	16.13	16.11		
20	64QAM	50	0	16.01	16.26	16.35	17	0
20	64QAM	50	24	16.12	16.47	16.36		
20	64QAM	50	50	16.16	16.47	16.40		
20	64QAM	100	0	16.33	16.30	16.33		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	16.10	16.11	16.23	17	0
15	QPSK	1	37	16.20	16.06	16.11		
15	QPSK	1	74	16.37	16.27	16.31		
15	QPSK	36	0	16.28	16.11	16.40	17	0
15	QPSK	36	20	16.39	16.14	16.32		
15	QPSK	36	39	16.32	16.22	16.28		
15	QPSK	75	0	16.32	16.34	16.30		
15	16QAM	1	0	16.20	16.32	16.24	17	0
15	16QAM	1	37	16.15	16.26	16.28		
15	16QAM	1	74	16.36	16.44	16.38		
15	16QAM	36	0	16.31	16.18	16.27	17	0
15	16QAM	36	20	16.42	16.11	16.25		
15	16QAM	36	39	16.45	16.15	16.33		
15	16QAM	75	0	16.14	16.21	16.42		
15	64QAM	1	0	15.93	15.99	16.20	17	0
15	64QAM	1	37	16.13	15.97	16.02		
15	64QAM	1	74	16.05	15.99	15.94		
15	64QAM	36	0	16.25	16.18	16.42	17	0
15	64QAM	36	20	16.50	16.10	16.41		
15	64QAM	36	39	16.39	16.34	16.31		
15	64QAM	75	0	16.38	16.27	16.34		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	16.33	15.91	16.14	17	0
10	QPSK	1	25	16.33	15.88	16.22		
10	QPSK	1	49	16.11	15.93	16.40		
10	QPSK	25	0	16.24	16.08	16.35	17	0
10	QPSK	25	12	16.30	16.01	16.29		
10	QPSK	25	25	16.40	16.32	16.42		
10	QPSK	50	0	16.21	16.24	16.18		
10	16QAM	1	0	16.29	16.07	16.39	17	0
10	16QAM	1	25	16.26	16.29	16.40		
10	16QAM	1	49	16.27	16.29	16.24		
10	16QAM	25	0	16.09	16.25	16.23	17	0
10	16QAM	25	12	16.20	16.04	16.41		
10	16QAM	25	25	16.15	16.13	16.40		
10	16QAM	50	0	16.34	16.09	16.29		
10	64QAM	1	0	15.71	15.78	16.21	17	0
10	64QAM	1	25	16.02	16.33	15.96		
10	64QAM	1	49	15.94	15.93	15.82		
10	64QAM	25	0	16.13	16.39	16.12	17	0
10	64QAM	25	12	16.41	16.28	16.29		
10	64QAM	25	25	16.39	16.19	16.16		
10	64QAM	50	0	16.31	16.06	16.20		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	16.09	16.05	16.24	17	0
5	QPSK	1	12	16.46	16.24	16.22		
5	QPSK	1	24	16.27	16.26	16.38		
5	QPSK	12	0	16.33	16.25	16.32	17	0
5	QPSK	12	7	16.28	16.24	16.42		
5	QPSK	12	13	16.37	16.27	16.33		
5	QPSK	25	0	16.40	16.10	16.32		
5	16QAM	1	0	16.16	16.08	16.25	17	0
5	16QAM	1	12	16.35	16.10	16.06		
5	16QAM	1	24	16.27	16.30	16.14		
5	16QAM	12	0	16.22	16.09	16.27	17	0
5	16QAM	12	7	16.27	16.10	16.30		
5	16QAM	12	13	16.13	16.15	16.32		
5	16QAM	25	0	16.33	16.11	16.35		
5	64QAM	1	0	16.22	15.88	16.14	17	0
5	64QAM	1	12	16.12	16.12	16.24		
5	64QAM	1	24	15.89	16.15	16.00		
5	64QAM	12	0	16.27	16.13	16.31	17	0
5	64QAM	12	7	16.18	16.19	16.35		
5	64QAM	12	13	16.37	16.33	16.39		
5	64QAM	25	0	16.30	16.14	16.30		

Band 41 (2.6G Band)--Class 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	15.76	16.02	16.33	16.30	16.14	17.5	0
20	QPSK	1	49	15.80	16.29	16.32	16.49	16.20		
20	QPSK	1	99	15.94	16.14	16.50	16.49	16.27		
20	QPSK	50	0	16.04	16.26	16.26	16.32	16.31	17.5	0
20	QPSK	50	24	15.94	16.26	16.35	16.33	16.17		
20	QPSK	50	50	15.97	16.42	16.21	16.33	16.26		
20	QPSK	100	0	16.39	16.43	16.49	16.40	16.27		
20	16QAM	1	0	15.91	15.92	16.20	16.38	16.36	17.5	0
20	16QAM	1	49	15.71	15.96	16.37	16.11	16.03		
20	16QAM	1	99	15.80	16.25	16.20	16.29	16.00		
20	16QAM	50	0	15.95	16.12	16.25	16.35	16.05	17.5	0
20	16QAM	50	24	15.96	16.17	16.46	16.32	16.14		
20	16QAM	50	50	15.89	16.37	16.32	16.21	16.29		
20	16QAM	100	0	15.91	16.33	16.26	16.20	16.29		
20	64QAM	1	0	15.70	15.74	16.04	15.80	15.92	17.5	0
20	64QAM	1	49	15.81	15.75	16.14	15.88	15.74		
20	64QAM	1	99	15.74	15.85	16.05	16.03	15.75		
20	64QAM	50	0	15.94	16.33	16.31	16.24	16.22	17.5	0
20	64QAM	50	24	15.96	16.27	16.35	16.23	16.37		
20	64QAM	50	50	15.90	16.13	16.40	16.33	16.33		
20	64QAM	100	0	15.81	16.32	16.39	16.35	16.43		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	15.76	15.72	16.00	15.95	15.81	17.5	0
15	QPSK	1	37	15.76	15.71	15.97	16.00	15.92		
15	QPSK	1	74	15.72	15.92	16.02	16.08	15.85		
15	QPSK	36	0	15.82	15.95	15.99	16.14	15.85	17.5	0
15	QPSK	36	20	15.74	15.91	16.15	16.11	15.97		
15	QPSK	36	39	15.78	15.98	16.25	16.06	15.90		
15	QPSK	75	0	15.81	16.16	16.06	16.05	15.88		
15	16QAM	1	0	15.72	15.70	16.08	16.06	16.14	17.5	0
15	16QAM	1	37	15.72	15.77	16.02	15.71	15.80		
15	16QAM	1	74	15.73	15.91	16.12	16.04	16.09		
15	16QAM	36	0	15.76	15.78	15.92	16.07	15.90	17.5	0
15	16QAM	36	20	15.82	15.91	15.91	15.90	16.01		
15	16QAM	36	39	15.86	15.92	16.19	16.01	15.96		
15	16QAM	75	0	16.02	16.03	15.99	16.12	15.97		
15	64QAM	1	0	15.75	15.75	15.78	15.72	16.14	17.5	0
15	64QAM	1	37	15.71	15.78	15.99	15.74	15.78		
15	64QAM	1	74	15.70	15.73	16.22	15.72	15.74		
15	64QAM	36	0	15.83	15.93	16.05	16.19	15.87	17.5	0
15	64QAM	36	20	15.87	15.94	16.13	16.13	15.98		
15	64QAM	36	39	15.90	15.88	15.92	16.17	16.02		
15	64QAM	75	0	15.92	15.84	16.08	16.14	15.87		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	15.76	16.01	16.08	16.11	15.97	17.5	0
10	QPSK	1	25	15.74	16.01	16.11	15.94	15.78		
10	QPSK	1	49	15.79	15.95	16.17	15.93	15.94		
10	QPSK	25	0	15.85	15.88	15.99	16.02	16.04	17.5	0
10	QPSK	25	12	15.85	16.17	16.20	16.26	15.97		
10	QPSK	25	25	15.91	16.03	16.13	16.01	16.04		
10	QPSK	50	0	15.78	15.95	16.04	16.24	16.12		
10	16QAM	1	0	15.91	16.01	16.10	16.10	15.94	17.5	0
10	16QAM	1	25	15.77	16.03	16.22	16.13	16.01		
10	16QAM	1	49	15.93	15.89	16.29	16.08	16.00		
10	16QAM	25	0	15.92	15.74	16.17	15.81	16.05	17.5	0
10	16QAM	25	12	15.91	16.07	16.20	16.23	16.15		
10	16QAM	25	25	15.89	15.85	16.18	16.19	15.94		
10	16QAM	50	0	16.08	16.04	16.19	16.19	16.13		
10	64QAM	1	0	15.71	15.74	16.06	15.85	16.03	17.5	0
10	64QAM	1	25	15.74	15.95	16.10	15.83	16.01		
10	64QAM	1	49	15.78	15.80	16.13	16.13	15.84		
10	64QAM	25	0	15.72	16.04	16.10	15.94	16.08	17.5	0
10	64QAM	25	12	16.12	16.07	16.06	16.32	16.25		
10	64QAM	25	25	15.97	15.87	16.07	16.08	16.06		
10	64QAM	50	0	15.90	15.94	16.05	16.13	16.00		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	15.88	15.70	16.00	15.94	15.78	17.5	0
5	QPSK	1	12	15.73	15.79	16.00	15.78	15.74		
5	QPSK	1	24	15.77	15.78	16.02	15.94	15.79		
5	QPSK	12	0	15.73	15.74	16.22	16.06	16.05	17.5	0
5	QPSK	12	7	15.73	16.04	16.07	16.13	15.88		
5	QPSK	12	13	15.79	15.95	16.05	15.94	15.87		
5	QPSK	25	0	15.74	15.88	16.21	15.98	16.03		
5	16QAM	1	0	15.85	15.76	16.15	16.16	16.00	17.5	0
5	16QAM	1	12	15.74	16.10	15.97	16.05	15.77		
5	16QAM	1	24	15.70	16.13	16.07	16.06	16.01		
5	16QAM	12	0	15.79	15.83	16.23	16.11	15.83	17.5	0
5	16QAM	12	7	15.85	15.95	16.12	16.22	15.93		
5	16QAM	12	13	15.73	15.93	16.15	15.93	15.87		
5	16QAM	25	0	15.86	15.98	16.18	16.08	15.89		
5	64QAM	1	0	15.78	15.76	15.92	15.80	15.77	17.5	0
5	64QAM	1	12	15.77	15.75	16.10	15.92	15.80		
5	64QAM	1	24	15.76	15.71	15.98	15.83	15.72		
5	64QAM	12	0	15.82	15.80	16.04	16.09	15.96	17.5	0
5	64QAM	12	7	15.78	16.11	16.09	16.03	15.93		
5	64QAM	12	13	15.75	15.83	16.05	16.23	15.87		
5	64QAM	25	0	15.78	16.03	15.87	16.17	16.09		

Band 41 (2.6G Band) HPUE (Limit 27)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	18.09	18.41	18.47	18.51	18.40	19.2	0
20	QPSK	1	49	18.07	18.46	18.59	18.57	18.45		
20	QPSK	1	99	18.10	18.52	18.69	18.67	18.48		
20	QPSK	50	0	17.96	18.33	18.52	18.49	18.30	19.2	0
20	QPSK	50	24	18.00	18.34	18.65	18.52	18.46		
20	QPSK	50	50	17.93	18.32	18.54	18.49	18.33		
20	QPSK	100	0	18.23	18.32	18.59	18.50	18.48		
20	16QAM	1	0	18.22	18.54	18.60	18.56	18.62	19.2	0
20	16QAM	1	49	18.11	18.40	18.56	18.41	18.45		
20	16QAM	1	99	18.03	18.49	18.58	18.55	18.53		
20	16QAM	50	0	18.14	18.39	18.44	18.57	18.39	19.2	0
20	16QAM	50	24	18.10	18.24	18.50	18.63	18.35		
20	16QAM	50	50	18.15	18.45	18.61	18.49	18.52		
20	16QAM	100	0	18.03	18.49	18.62	18.47	18.46		
20	64QAM	1	0	18.12	18.20	18.50	18.59	18.59	19.2	0
20	64QAM	1	49	18.04	18.20	18.67	18.50	18.27		
20	64QAM	1	99	17.99	18.61	18.59	18.56	18.39		
20	64QAM	50	0	18.11	18.23	18.55	18.46	18.29	19.2	0
20	64QAM	50	24	18.12	18.37	18.58	18.46	18.36		
20	64QAM	50	50	18.07	18.40	18.50	18.50	18.46		
20	64QAM	100	0	18.17	18.34	18.60	18.40	18.41		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	17.86	18.23	18.31	18.24	18.08	19.2	0
15	QPSK	1	37	17.81	18.19	18.28	18.33	18.25		
15	QPSK	1	74	17.89	18.04	18.41	18.36	18.10		
15	QPSK	36	0	17.96	18.25	18.33	18.41	18.34	19.2	0
15	QPSK	36	20	17.93	18.30	18.60	18.31	18.52		
15	QPSK	36	39	17.90	18.27	18.53	18.63	18.29		
15	QPSK	75	0	18.04	18.46	18.62	18.45	18.13		
15	16QAM	1	0	18.12	18.34	18.63	18.42	18.66	19.2	0
15	16QAM	1	37	18.06	18.45	18.58	18.57	18.24		
15	16QAM	1	74	17.99	18.58	18.59	18.53	18.42		
15	16QAM	36	0	17.94	18.20	18.43	18.46	18.44	19.2	0
15	16QAM	36	20	18.02	18.25	18.34	18.28	18.45		
15	16QAM	36	39	18.04	18.24	18.50	18.45	18.36		
15	16QAM	75	0	18.03	18.32	18.45	18.32	18.26		
15	64QAM	1	0	18.13	18.30	18.46	18.35	18.41	19.2	0
15	64QAM	1	37	17.91	18.42	18.47	18.42	18.34		
15	64QAM	1	74	17.93	18.52	18.54	18.62	18.22		
15	64QAM	36	0	17.85	18.20	18.52	18.57	18.30	19.2	0
15	64QAM	36	20	18.03	18.35	18.61	18.54	18.38		
15	64QAM	36	39	18.00	18.43	18.57	18.42	18.47		
15	64QAM	75	0	18.02	18.54	18.49	18.50	18.36		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	17.82	18.01	18.24	18.3	18.18	19.2	0
10	QPSK	1	25	17.61	18.02	18.36	18.15	18.17		
10	QPSK	1	49	17.81	18.1	18.45	18.26	17.9		
10	QPSK	25	0	18.02	18.29	18.4	18.36	18.26	19.2	0
10	QPSK	25	12	17.92	18.32	18.53	18.54	18.26		
10	QPSK	25	25	17.77	18.22	18.55	18.34	18.22		
10	QPSK	50	0	18.07	18.32	18.53	18.3	18.28		
10	16QAM	1	0	18.17	18.56	18.38	18.44	18.41	19.2	0
10	16QAM	1	25	18.02	18.42	18.53	18.45	18.43		
10	16QAM	1	49	17.98	18.35	18.52	18.42	18.32		
10	16QAM	25	0	17.75	18.18	18.56	18.42	18.21	19.2	0
10	16QAM	25	12	17.92	18.18	18.59	18.35	18.23		
10	16QAM	25	25	17.93	18.12	18.45	18.49	18.41		
10	16QAM	50	0	18.08	18.46	18.29	18.52	18.31		
10	64QAM	1	0	18.19	18.29	18.54	18.29	18.28	19.2	0
10	64QAM	1	25	18.07	18.41	18.40	18.56	18.36		
10	64QAM	1	49	18.19	18.48	18.46	18.44	18.45		
10	64QAM	25	0	17.93	18.26	18.38	18.37	18.31	19.2	0
10	64QAM	25	12	17.91	18.51	18.48	18.36	18.23		
10	64QAM	25	25	18.11	18.40	18.46	18.37	18.31		
10	64QAM	50	0	17.94	18.21	18.52	18.39	18.40		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	17.73	18.15	18.33	18.09	18.11	19.2	0
5	QPSK	1	12	17.57	18.15	18.32	18.30	18.08		
5	QPSK	1	24	17.69	18.10	18.11	18.11	18.16		
5	QPSK	12	0	17.93	18.21	18.34	18.45	18.27	19.2	0
5	QPSK	12	7	17.89	18.32	18.54	18.38	18.37		
5	QPSK	12	13	17.92	18.28	18.53	18.55	18.27		
5	QPSK	25	0	17.88	18.28	18.34	18.35	18.27		
5	16QAM	1	0	18.15	18.23	18.45	18.47	18.46	19.2	0
5	16QAM	1	12	18.02	18.35	18.50	18.53	18.45		
5	16QAM	1	24	17.98	18.40	18.51	18.46	18.50		
5	16QAM	12	0	17.91	18.27	18.43	18.31	18.22	19.2	0
5	16QAM	12	7	17.96	18.32	18.62	18.52	18.31		
5	16QAM	12	13	18.01	18.22	18.61	18.46	18.25		
5	16QAM	25	0	18.02	18.31	18.59	18.53	18.36		
5	64QAM	1	0	18.03	18.18	18.35	18.27	18.42	19.2	0
5	64QAM	1	12	17.95	18.34	18.58	18.37	18.07		
5	64QAM	1	24	17.81	18.36	18.47	18.41	18.14		
5	64QAM	12	0	18.06	18.26	18.48	18.43	18.40	19.2	0
5	64QAM	12	7	18.11	18.35	18.61	18.47	18.26		
5	64QAM	12	13	17.95	18.30	18.53	18.48	18.19		
5	64QAM	25	0	18.10	18.31	18.41	18.59	18.36		

Reduced power for Hotspot on-UAT

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	20.62	20.77	20.68	21.00	20.58	20.73	20.68	21.50
3GPP Rel 99	RMC 12.2Kbps	20.64	20.79	20.70	21.00	20.61	20.75	20.70	21.50
3GPP Rel 6	HSDPA Subtest-1	19.66	19.83	19.66	20.00	19.62	19.75	19.74	20.50
3GPP Rel 6	HSDPA Subtest-2	19.63	19.84	19.69	20.00	19.68	19.79	19.78	20.50
3GPP Rel 6	HSDPA Subtest-3	19.13	19.34	19.20	19.50	19.17	19.27	19.22	20.00
3GPP Rel 6	HSDPA Subtest-4	19.15	19.34	19.20	19.50	18.79	19.25	19.23	20.00
3GPP Rel 8	DC-HSDPA Subtest-1	19.58	19.72	19.57	20.00	19.47	19.62	19.62	20.50
3GPP Rel 8	DC-HSDPA Subtest-2	19.50	19.69	19.58	20.00	19.55	19.71	19.66	20.50
3GPP Rel 8	DC-HSDPA Subtest-3	19.01	19.26	19.09	19.50	19.06	19.18	19.13	20.00
3GPP Rel 8	DC-HSDPA Subtest-4	19.01	19.20	19.11	19.50	18.66	19.15	19.14	20.00
3GPP Rel 6	HSUPA Subtest-1	19.67	19.83	19.72	20.00	19.62	19.78	19.71	20.50
3GPP Rel 6	HSUPA Subtest-2	17.67	17.86	17.69	18.00	17.57	17.78	17.76	18.50
3GPP Rel 6	HSUPA Subtest-3	17.68	17.82	17.70	18.00	17.66	17.80	17.73	18.50
3GPP Rel 6	HSUPA Subtest-4	17.67	17.82	17.75	18.00	17.62	17.74	17.72	18.50
3GPP Rel 6	HSUPA Subtest-5	19.60	19.80	19.70	20.00	19.70	19.80	19.70	20.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.13	17.27	17.21	17.50	17.08	17.16	17.13	18.00

Band 2 (1900MHz Band)
Part 24E

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	20.30	20.39	20.31	21.5	0
20	QPSK	1	49	20.14	20.29	20.21		
20	QPSK	1	99	20.10	20.26	20.15		
20	QPSK	50	0	20.25	20.35	20.33	21.5	0
20	QPSK	50	24	20.36	20.37	20.35		
20	QPSK	50	50	20.34	20.24	20.32		
20	QPSK	100	0	20.32	20.35	20.32		
20	16QAM	1	0	20.31	20.31	20.31	21.5	0
20	16QAM	1	49	20.19	20.36	20.32		
20	16QAM	1	99	20.13	20.35	20.22		
20	16QAM	50	0	20.00	20.17	20.09	21.5	0
20	16QAM	50	24	20.10	20.16	20.11		
20	16QAM	50	50	20.10	20.23	20.14		
20	16QAM	100	0	20.10	20.15	20.15		
20	64QAM	1	0	20.30	20.29	20.25	21.5	0
20	64QAM	1	49	20.29	20.25	20.26		
20	64QAM	1	99	20.16	20.24	20.13		
20	64QAM	50	0	19.29	19.39	19.30	20.5	1
20	64QAM	50	24	19.36	19.39	19.34		
20	64QAM	50	50	19.35	19.46	19.40		
20	64QAM	100	0	19.31	19.36	19.38		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	20.25	20.36	20.30	21.5	0
15	QPSK	1	37	20.15	20.34	20.24		
15	QPSK	1	74	20.22	20.30	20.21		
15	QPSK	36	0	20.10	20.15	20.12	21.5	0
15	QPSK	36	20	20.12	20.18	20.25		
15	QPSK	36	39	20.08	20.25	20.19		
15	QPSK	75	0	20.09	20.21	20.22		
15	16QAM	1	0	20.37	20.34	20.36	21.5	0
15	16QAM	1	37	20.25	20.20	20.28		
15	16QAM	1	74	20.28	20.36	20.28		
15	16QAM	36	0	20.08	20.15	20.10	21.5	0
15	16QAM	36	20	20.10	20.16	20.18		
15	16QAM	36	39	20.11	20.20	20.14		
15	16QAM	75	0	20.08	20.13	20.16		
15	64QAM	1	0	20.33	20.31	20.32	21.5	0
15	64QAM	1	37	20.37	20.34	20.31		
15	64QAM	1	74	20.28	20.29	20.22		
15	64QAM	36	0	19.33	19.36	19.25	20.5	1
15	64QAM	36	20	19.28	19.38	19.36		
15	64QAM	36	39	19.38	19.49	19.35		
15	64QAM	75	0	19.32	19.35	19.40		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	20.23	20.20	20.19	21.5	0
10	QPSK	1	25	20.11	20.29	20.25		
10	QPSK	1	49	20.15	20.25	20.12		
10	QPSK	25	0	20.10	20.13	20.05	21.5	0
10	QPSK	25	12	20.14	20.16	20.16		
10	QPSK	25	25	20.14	20.26	20.18		
10	QPSK	50	0	20.13	20.16	20.16		
10	16QAM	1	0	20.37	20.30	20.34	21.5	0
10	16QAM	1	25	20.32	20.36	20.30		
10	16QAM	1	49	20.37	20.36	20.38		
10	16QAM	25	0	20.04	20.12	20.04	21.5	0
10	16QAM	25	12	20.12	20.13	20.11		
10	16QAM	25	25	20.03	20.16	20.15		
10	16QAM	50	0	20.07	20.12	20.14		
10	64QAM	1	0	20.25	20.31	20.36	21.5	0
10	64QAM	1	25	20.14	20.36	20.19		
10	64QAM	1	49	20.18	20.32	20.24		
10	64QAM	25	0	19.10	19.16	19.04	20.5	1
10	64QAM	25	12	19.12	19.20	19.18		
10	64QAM	25	25	19.11	19.24	19.14		
10	64QAM	50	0	19.11	19.17	19.18		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	20.24	20.21	20.16	21.5	0
5	QPSK	1	12	20.28	20.31	20.22		
5	QPSK	1	24	20.18	20.36	20.26		
5	QPSK	12	0	20.19	20.14	20.07	21.5	0
5	QPSK	12	7	20.17	20.23	20.08		
5	QPSK	12	13	20.16	20.24	20.16		
5	QPSK	25	0	20.12	20.14	20.11		
5	16QAM	1	0	20.35	20.38	20.29	21.5	0
5	16QAM	1	12	20.38	20.38	20.31		
5	16QAM	1	24	20.30	20.33	20.31		
5	16QAM	12	0	20.19	20.15	20.07	21.5	0
5	16QAM	12	7	20.21	20.24	20.12		
5	16QAM	12	13	20.12	20.24	20.13		
5	16QAM	25	0	20.13	20.15	20.06		
5	64QAM	1	0	20.36	20.31	20.31	21.5	0
5	64QAM	1	12	20.34	20.36	20.30		
5	64QAM	1	24	20.28	20.33	20.32		
5	64QAM	12	0	19.41	19.41	19.27	20.5	1
5	64QAM	12	7	19.41	19.49	19.31		
5	64QAM	12	13	19.31	19.43	19.36		
5	64QAM	25	0	19.33	19.37	19.30		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	20.31	20.22	20.16	21.5	0
3	QPSK	1	8	20.31	20.34	20.25		
3	QPSK	1	14	20.24	20.33	20.20		
3	QPSK	8	0	20.18	20.13	20.07	21.5	0
3	QPSK	8	4	20.20	20.25	20.14		
3	QPSK	8	7	20.21	20.17	20.07		
3	QPSK	15	0	20.15	20.11	20.10		
3	16QAM	1	0	20.32	20.36	20.31	21.5	0
3	16QAM	1	8	20.31	20.29	20.26		
3	16QAM	1	14	20.36	20.33	20.35		
3	16QAM	8	0	20.24	20.17	20.14	21.5	0
3	16QAM	8	4	20.27	20.30	20.20		
3	16QAM	8	7	20.23	20.22	20.15		
3	16QAM	15	0	20.19	20.14	20.12		
3	64QAM	1	0	20.37	20.29	20.30	21.5	0
3	64QAM	1	8	20.31	20.35	20.38		
3	64QAM	1	14	20.37	20.35	20.31		
3	64QAM	8	0	19.43	19.38	19.32	20.5	1
3	64QAM	8	4	19.47	19.46	19.35		
3	64QAM	8	7	19.38	19.47	19.32		
3	64QAM	15	0	19.36	19.39	19.38		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	20.20	20.22	20.10	21.5	0
1.4	QPSK	1	3	20.25	20.30	20.14		
1.4	QPSK	1	5	20.24	20.22	20.12		
1.4	QPSK	3	0	20.05	20.07	19.96		
1.4	QPSK	3	1	20.08	20.05	20.01		
1.4	QPSK	3	3	20.04	20.04	19.93		
1.4	QPSK	6	0	20.08	20.11	20.02	21.5	0
1.4	16QAM	1	0	20.38	20.31	20.19	21.5	0
1.4	16QAM	1	3	20.31	20.30	20.26		
1.4	16QAM	1	5	20.32	20.31	20.19		
1.4	16QAM	3	0	20.15	20.12	20.05		
1.4	16QAM	3	1	20.20	20.16	20.09		
1.4	16QAM	3	3	20.15	20.12	20.06		
1.4	16QAM	6	0	20.15	20.16	20.02	21.5	0
1.4	64QAM	1	0	20.32	20.30	20.24	21.5	0
1.4	64QAM	1	3	20.38	20.35	20.37		
1.4	64QAM	1	5	20.28	20.33	20.21		
1.4	64QAM	3	0	20.22	20.26	20.13		
1.4	64QAM	3	1	20.25	20.29	20.20		
1.4	64QAM	3	3	20.22	20.28	20.17		
1.4	64QAM	6	0	19.34	19.38	19.26	20.5	1

Band 4 (AWS Band)
Part 27L (only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	21.19	21.24	21.22	22.5	0
20	QPSK	1	49	20.94	21.01	21.04		
20	QPSK	1	99	20.92	21.03	21.01		
20	QPSK	50	0	21.11	21.14	21.17	22.5	0
20	QPSK	50	24	21.10	21.18	21.14		
20	QPSK	50	50	21.11	21.16	21.15		
20	QPSK	100	0	21.12	21.16	21.15		
20	16QAM	1	0	21.18	21.20	21.21	22.5	0
20	16QAM	1	49	21.12	21.22	21.23		
20	16QAM	1	99	21.15	21.11	21.19		
20	16QAM	50	0	19.98	20.07	20.07	21.5	1
20	16QAM	50	24	20.01	20.00	20.07		
20	16QAM	50	50	19.93	19.98	19.97		
20	16QAM	100	0	19.98	19.97	20.02		
20	64QAM	1	0	20.11	20.28	20.31	21.5	1
20	64QAM	1	49	20.01	20.14	20.11		
20	64QAM	1	99	19.91	20.08	20.11		
20	64QAM	50	0	18.98	19.09	19.10	20.5	2
20	64QAM	50	24	19.00	19.00	19.08		
20	64QAM	50	50	18.91	18.97	18.99		
20	64QAM	100	0	18.99	19.00	19.08		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	20.95	21.05	21.01	22.5	0
15	QPSK	1	37	20.74	20.87	20.81		
15	QPSK	1	74	20.74	20.85	20.78		
15	QPSK	36	0	20.93	21.04	21.03	22.5	0
15	QPSK	36	20	20.94	20.95	20.92		
15	QPSK	36	39	20.90	20.97	20.96		
15	QPSK	75	0	20.92	20.96	20.94		
15	16QAM	1	0	21.22	21.20	21.21	22.5	0
15	16QAM	1	37	21.16	21.18	21.17		
15	16QAM	1	74	21.13	21.12	21.17		
15	16QAM	36	0	19.94	20.04	20.06	21.5	1
15	16QAM	36	20	19.96	19.95	19.94		
15	16QAM	36	39	19.90	19.97	19.99		
15	16QAM	75	0	19.98	19.97	19.93		
15	64QAM	1	0	20.17	20.21	20.21	21.5	1
15	64QAM	1	37	20.05	20.07	20.13		
15	64QAM	1	74	20.02	19.97	19.96		
15	64QAM	36	0	18.98	19.06	19.02	20.5	2
15	64QAM	36	20	18.95	19.02	18.92		
15	64QAM	36	39	18.95	19.00	18.99		
15	64QAM	75	0	18.98	18.96	18.96		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	20.88	20.85	20.89	22.5	0
10	QPSK	1	25	20.84	20.90	20.85		
10	QPSK	1	49	20.82	20.77	20.83		
10	QPSK	25	0	20.86	20.97	20.93	22.5	0
10	QPSK	25	12	20.97	20.99	20.93		
10	QPSK	25	25	20.96	21.07	21.01		
10	QPSK	50	0	20.96	20.94	21.02		
10	16QAM	1	0	21.16	21.21	21.22	22.5	0
10	16QAM	1	25	21.14	21.18	21.19		
10	16QAM	1	49	21.18	21.22	21.11		
10	16QAM	25	0	19.88	19.96	19.91	21.5	1
10	16QAM	25	12	20.03	19.97	19.96		
10	16QAM	25	25	19.98	20.06	19.97		
10	16QAM	50	0	19.93	19.97	20.01		
10	64QAM	1	0	20.11	20.22	20.18	21.5	1
10	64QAM	1	25	20.15	20.12	20.19		
10	64QAM	1	49	20.05	20.16	20.09		
10	64QAM	25	0	18.85	18.99	18.95	20.5	2
10	64QAM	25	12	19.01	18.99	18.95		
10	64QAM	25	25	18.98	19.07	19.01		
10	64QAM	50	0	18.96	19.01	19.06		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	20.81	20.87	20.76	22.5	0
5	QPSK	1	12	20.84	20.97	20.84		
5	QPSK	1	24	20.89	20.93	20.93		
5	QPSK	12	0	20.91	21.00	20.90	22.5	0
5	QPSK	12	7	20.97	21.04	20.99		
5	QPSK	12	13	20.95	21.08	20.96		
5	QPSK	25	0	20.93	21.00	20.99		
5	16QAM	1	0	21.15	21.20	21.22	22.5	0
5	16QAM	1	12	21.10	21.20	21.14		
5	16QAM	1	24	21.19	21.19	21.20		
5	16QAM	12	0	19.97	20.02	19.89	21.5	1
5	16QAM	12	7	19.97	20.05	20.00		
5	16QAM	12	13	19.98	20.10	20.01		
5	16QAM	25	0	19.97	20.00	19.96		
5	64QAM	1	0	20.14	20.18	20.18	21.5	1
5	64QAM	1	12	20.11	20.20	20.06		
5	64QAM	1	24	20.08	20.25	20.12		
5	64QAM	12	0	19.03	19.04	18.95	20.5	2
5	64QAM	12	7	19.03	19.13	19.01		
5	64QAM	12	13	19.03	19.07	19.03		
5	64QAM	25	0	18.94	19.02	18.98		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	20.86	20.87	20.77	22.5	0
3	QPSK	1	8	20.91	20.98	20.89		
3	QPSK	1	14	20.81	20.94	20.89		
3	QPSK	8	0	20.93	20.98	20.88	22.5	0
3	QPSK	8	4	20.98	21.05	20.99		
3	QPSK	8	7	20.96	21.01	20.99		
3	QPSK	15	0	20.92	21.01	20.97		
3	16QAM	1	0	21.17	21.17	21.11	22.5	0
3	16QAM	1	8	21.16	21.20	21.22		
3	16QAM	1	14	21.10	21.21	21.22		
3	16QAM	8	0	20.01	20.04	19.89	21.5	1
3	16QAM	8	4	20.00	20.12	20.02		
3	16QAM	8	7	20.02	20.09	19.99		
3	16QAM	15	0	19.96	20.01	19.97		
3	64QAM	1	0	20.07	20.14	20.05	21.5	1
3	64QAM	1	8	20.21	20.25	20.12		
3	64QAM	1	14	19.99	20.20	20.08		
3	64QAM	8	0	19.00	19.02	18.91	20.5	2
3	64QAM	8	4	19.04	19.08	19.04		
3	64QAM	8	7	18.99	19.06	19.01		
3	64QAM	15	0	18.97	19.01	19.03		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	20.73	20.85	20.73	22.5	0
1.4	QPSK	1	3	20.80	20.91	20.82		
1.4	QPSK	1	5	20.76	20.87	20.82		
1.4	QPSK	3	0	20.76	20.88	20.73		
1.4	QPSK	3	1	20.83	20.90	20.81		
1.4	QPSK	3	3	20.77	20.86	20.79		
1.4	QPSK	6	0	20.84	20.93	20.83	22.5	0
1.4	16QAM	1	0	21.11	21.15	21.15	22.5	0
1.4	16QAM	1	3	21.16	21.20	21.19		
1.4	16QAM	1	5	21.04	21.19	21.13		
1.4	16QAM	3	0	20.87	20.98	20.86		
1.4	16QAM	3	1	20.94	21.02	20.92		
1.4	16QAM	3	3	20.83	20.95	20.91		
1.4	16QAM	6	0	19.96	20.02	19.90	21.5	1
1.4	64QAM	1	0	20.05	20.11	20.01	21.5	1
1.4	64QAM	1	3	20.09	20.19	20.13		
1.4	64QAM	1	5	19.99	20.13	20.11		
1.4	64QAM	3	0	19.98	20.05	19.97		
1.4	64QAM	3	1	20.01	20.13	20.01		
1.4	64QAM	3	3	19.94	20.08	20.02		
1.4	64QAM	6	0	18.83	18.97	18.82	20.5	2

Band 7 (2600MHz Band)
Part 27

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	19.49	19.46	19.45	20.5	0
20	QPSK	1	49	19.23	19.32	19.33		
20	QPSK	1	99	19.23	19.3	19.29		
20	QPSK	50	0	19.3	19.3	19.3	20.5	0
20	QPSK	50	24	19.45	19.43	19.41		
20	QPSK	50	50	19.32	19.26	19.29		
20	QPSK	100	0	19.45	19.41	19.38		
20	16QAM	1	0	19.35	19.33	19.28	20.5	0
20	16QAM	1	49	19.32	19.36	19.32		
20	16QAM	1	99	19.36	19.3	19.28		
20	16QAM	50	0	19.09	19.13	19.19	20.5	0
20	16QAM	50	24	19.19	19.27	19.32		
20	16QAM	50	50	19.2	19.26	19.33		
20	16QAM	100	0	19.2	19.25	19.31		
20	64QAM	1	0	19.25	19.26	19.23	20.5	0
20	64QAM	1	49	19.3	19.39	19.39		
20	64QAM	1	99	19.31	19.35	19.16		
20	64QAM	50	0	19.14	19.16	19.22	20.5	0
20	64QAM	50	24	19.26	19.28	19.38		
20	64QAM	50	50	19.23	19.31	19.36		
20	64QAM	100	0	19.22	19.27	19.28		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	19.00	19.09	19.13	20.5	0
15	QPSK	1	37	19.01	19.06	19.14		
15	QPSK	1	74	19.08	19.18	19.32		
15	QPSK	36	0	19.08	19.14	19.24	20.5	0
15	QPSK	36	20	19.18	19.27	19.35		
15	QPSK	36	39	19.17	19.26	19.34		
15	QPSK	75	0	19.17	19.21	19.23		
15	16QAM	1	0	19.33	19.32	19.39	20.5	0
15	16QAM	1	37	19.28	19.37	19.36		
15	16QAM	1	74	19.39	19.38	19.36		
15	16QAM	36	0	19.08	19.16	19.23	20.5	0
15	16QAM	36	20	19.17	19.27	19.34		
15	16QAM	36	39	19.19	19.26	19.35		
15	16QAM	75	0	19.16	19.27	19.20		
15	64QAM	1	0	19.28	19.24	19.33	20.5	0
15	64QAM	1	37	19.33	19.32	19.37		
15	64QAM	1	74	19.23	19.38	19.34		
15	64QAM	36	0	19.10	19.18	19.28	20.5	0
15	64QAM	36	20	19.27	19.30	19.39		
15	64QAM	36	39	19.19	19.31	19.16		
15	64QAM	75	0	19.20	19.22	19.29		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	18.91	18.98	19.11	20.5	0
10	QPSK	1	25	18.93	18.97	19.13		
10	QPSK	1	49	19.01	19.11	19.23		
10	QPSK	25	0	19.04	19.12	19.20	20.5	0
10	QPSK	25	12	19.11	19.23	19.26		
10	QPSK	25	25	19.20	19.20	19.32		
10	QPSK	50	0	19.10	19.21	19.24		
10	16QAM	1	0	19.30	19.40	19.35	20.5	0
10	16QAM	1	25	19.32	19.41	19.36		
10	16QAM	1	49	19.39	19.36	19.41		
10	16QAM	25	0	19.04	19.14	19.29	20.5	0
10	16QAM	25	12	19.14	19.21	19.33		
10	16QAM	25	25	19.11	19.26	19.33		
10	16QAM	50	0	19.14	19.23	19.25		
10	64QAM	1	0	19.18	19.27	19.25	20.5	0
10	64QAM	1	25	19.23	19.33	19.39		
10	64QAM	1	49	19.21	19.41	19.39		
10	64QAM	25	0	19.06	19.14	19.25	20.5	0
10	64QAM	25	12	19.20	19.27	19.32		
10	64QAM	25	25	19.17	19.26	19.38		
10	64QAM	50	0	19.16	19.22	19.26		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	18.90	18.99	19.11	20.5	0
5	QPSK	1	12	18.96	19.09	19.23		
5	QPSK	1	24	18.98	19.11	19.19		
5	QPSK	12	0	19.03	19.16	19.28	20.5	0
5	QPSK	12	7	19.11	19.23	19.34		
5	QPSK	12	13	19.11	19.22	19.36		
5	QPSK	25	0	19.11	19.19	19.26		
5	16QAM	1	0	19.22	19.39	19.32	20.5	0
5	16QAM	1	12	19.32	19.40	19.32		
5	16QAM	1	24	19.30	19.30	19.35		
5	16QAM	12	0	19.07	19.16	19.28	20.5	0
5	16QAM	12	7	19.12	19.24	19.34		
5	16QAM	12	13	19.14	19.24	19.37		
5	16QAM	25	0	19.14	19.21	19.28		
5	64QAM	1	0	19.19	19.27	19.38	20.5	0
5	64QAM	1	12	19.18	19.28	19.41		
5	64QAM	1	24	19.24	19.39	19.41		
5	64QAM	12	0	19.06	19.22	19.37	20.5	0
5	64QAM	12	7	19.17	19.27	19.40		
5	64QAM	12	13	19.14	19.27	19.34		
5	64QAM	25	0	19.13	19.25	19.31		

Band 66								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	21.09	21.26	21.13	22.5	0
20	QPSK	1	49	20.97	21.07	21.02		
20	QPSK	1	99	20.87	20.92	20.84		
20	QPSK	50	0	21.09	21.12	21.03	22.5	0
20	QPSK	50	24	21.13	21.14	21.13		
20	QPSK	50	50	21.06	21.13	21.05		
20	QPSK	100	0	21.09	21.11	21.07		
20	16QAM	1	0	21.14	21.22	21.16	22.5	0
20	16QAM	1	49	21.18	21.23	21.03		
20	16QAM	1	99	21.08	21.02	20.93		
20	16QAM	50	0	19.97	20.07	19.91	21.5	1
20	16QAM	50	24	19.99	20.04	19.91		
20	16QAM	50	50	19.97	20.03	19.91		
20	16QAM	100	0	19.98	20.09	19.89		
20	64QAM	1	0	20.11	20.24	20.16	21.5	1
20	64QAM	1	49	20.07	20.13	20.01		
20	64QAM	1	99	20.05	20.22	19.97		
20	64QAM	50	0	19.03	19.08	18.93	20.5	2
20	64QAM	50	24	19.06	19.06	18.91		
20	64QAM	50	50	18.98	19.07	18.88		
20	64QAM	100	0	19.03	19.12	18.95		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	20.86	21.04	20.93	22.5	0
15	QPSK	1	37	20.81	20.95	20.81		
15	QPSK	1	74	20.83	20.87	20.79		
15	QPSK	36	0	20.94	21.03	20.90	22.5	0
15	QPSK	36	20	21.01	21.12	20.97		
15	QPSK	36	39	20.93	21.04	20.90		
15	QPSK	75	0	20.97	21.10	20.96		
15	16QAM	1	0	21.05	21.20	21.16	22.5	0
15	16QAM	1	37	21.09	21.21	21.07		
15	16QAM	1	74	20.94	21.07	21.07		
15	16QAM	36	0	19.93	20.02	19.92	21.5	1
15	16QAM	36	20	20.03	20.14	19.93		
15	16QAM	36	39	19.93	20.08	19.89		
15	16QAM	75	0	19.97	20.12	19.94		
15	64QAM	1	0	20.05	20.24	20.01	21.5	1
15	64QAM	1	37	20.08	20.24	19.97		
15	64QAM	1	74	19.99	20.10	19.85		
15	64QAM	36	0	18.97	19.08	18.96	20.5	2
15	64QAM	36	20	19.04	19.15	19.01		
15	64QAM	36	39	18.99	19.10	18.93		
15	64QAM	75	0	19.00	19.11	18.94		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	20.78	21.03	20.78	22.5	0
10	QPSK	1	25	20.81	20.94	20.80		
10	QPSK	1	49	20.82	20.92	20.72		
10	QPSK	25	0	20.91	21.01	20.84	22.5	0
10	QPSK	25	12	20.96	20.99	20.86		
10	QPSK	25	25	20.93	21.04	20.88		
10	QPSK	50	0	21.01	21.08	20.85		
10	16QAM	1	0	21.15	21.23	21.08	22.5	0
10	16QAM	1	25	21.14	21.13	21.11		
10	16QAM	1	49	21.09	21.19	21.00		
10	16QAM	25	0	19.88	20.02	19.87	21.5	1
10	16QAM	25	12	19.98	20.03	19.88		
10	16QAM	25	25	19.95	20.06	19.89		
10	16QAM	50	0	19.96	20.07	19.85		
10	64QAM	1	0	20.06	20.27	20.00	21.5	1
10	64QAM	1	25	20.13	20.18	20.03		
10	64QAM	1	49	20.11	20.16	19.94		
10	64QAM	25	0	18.94	19.03	18.89	20.5	2
10	64QAM	25	12	19.02	19.05	18.87		
10	64QAM	25	25	18.99	19.06	18.91		
10	64QAM	50	0	18.97	19.09	18.86		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	20.78	20.94	20.73	22.5	0
5	QPSK	1	12	20.92	21.00	20.82		
5	QPSK	1	24	20.82	20.94	20.78		
5	QPSK	12	0	20.95	21.01	20.82	22.5	0
5	QPSK	12	7	20.98	21.11	20.91		
5	QPSK	12	13	20.94	21.07	20.86		
5	QPSK	25	0	20.94	21.04	20.90		
5	16QAM	1	0	20.97	21.18	21.00	22.5	0
5	16QAM	1	12	20.91	21.06	21.03		
5	16QAM	1	24	21.03	21.12	21.01		
5	16QAM	12	0	19.98	20.03	19.90	21.5	1
5	16QAM	12	7	20.02	20.12	19.94		
5	16QAM	12	13	19.94	20.05	19.89		
5	16QAM	25	0	19.98	20.08	19.91		
5	64QAM	1	0	20.04	20.17	20.08	21.5	1
5	64QAM	1	12	20.07	20.11	20.04		
5	64QAM	1	24	20.02	20.01	19.95		
5	64QAM	12	0	19.02	19.10	18.91	20.5	2
5	64QAM	12	7	19.03	19.16	19.00		
5	64QAM	12	13	19.02	19.14	18.95		
5	64QAM	25	0	18.95	19.09	18.91		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	20.82	20.95	20.76	22.5	0
3	QPSK	1	8	20.91	21.03	20.84		
3	QPSK	1	14	20.86	20.99	20.82		
3	QPSK	8	0	20.94	21.01	20.84	22.5	0
3	QPSK	8	4	20.99	21.12	20.87		
3	QPSK	8	7	20.99	21.09	20.89		
3	QPSK	15	0	20.90	21.07	20.80		
3	16QAM	1	0	20.98	21.14	21.02	22.5	0
3	16QAM	1	8	21.09	21.18	21.09		
3	16QAM	1	14	21.05	21.23	21.03		
3	16QAM	8	0	20.00	20.04	19.86	21.5	1
3	16QAM	8	4	20.00	20.11	19.89		
3	16QAM	8	7	20.00	20.09	19.94		
3	16QAM	15	0	19.97	20.09	19.89		
3	64QAM	1	0	20.09	20.11	19.96	21.5	1
3	64QAM	1	8	20.20	20.22	20.11		
3	64QAM	1	14	20.13	20.07	19.99		
3	64QAM	8	0	19.00	19.08	18.90	20.5	2
3	64QAM	8	4	19.03	19.15	18.96		
3	64QAM	8	7	19.02	19.13	18.93		
3	64QAM	15	0	18.99	19.10	18.88		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	20.66	20.89	20.68	22.5	0
1.4	QPSK	1	3	20.76	20.94	20.77		
1.4	QPSK	1	5	20.73	20.88	20.72		
1.4	QPSK	3	0	20.78	20.92	20.76		
1.4	QPSK	3	1	20.86	20.94	20.76		
1.4	QPSK	3	3	20.77	20.93	20.76		
1.4	QPSK	6	0	20.86	20.96	20.79	22.5	0
1.4	16QAM	1	0	20.94	21.18	21.06	22.5	0
1.4	16QAM	1	3	21.05	21.23	21.12		
1.4	16QAM	1	5	21.05	21.15	21.01		
1.4	16QAM	3	0	20.86	20.96	20.85		
1.4	16QAM	3	1	20.93	21.00	20.88		
1.4	16QAM	3	3	20.88	20.92	20.82		
1.4	16QAM	6	0	19.94	20.07	19.91	21.5	1
1.4	64QAM	1	0	19.95	20.07	20.03	21.5	1
1.4	64QAM	1	3	20.03	20.11	20.07		
1.4	64QAM	1	5	20.00	20.10	19.98		
1.4	64QAM	3	0	19.93	20.14	19.98		
1.4	64QAM	3	1	20.01	20.14	20.01		
1.4	64QAM	3	3	19.94	20.10	19.96		
1.4	64QAM	6	0	18.88	19.00	18.81	20.5	2

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				37850	38000	38150		
Frequency (MHz)				2680	2695	2710		
20	QPSK	1	0	21.68	21.73	21.75	22.5	0
20	QPSK	1	49	21.83	21.76	21.75		
20	QPSK	1	99	21.91	21.78	21.79		
20	QPSK	50	0	21.87	21.79	21.74	22.5	0
20	QPSK	50	24	21.89	21.84	21.78		
20	QPSK	50	50	21.86	21.85	21.80		
20	QPSK	100	0	21.90	21.70	21.82		
20	16QAM	1	0	21.88	21.72	21.85	22.5	0
20	16QAM	1	49	21.74	21.75	21.88		
20	16QAM	1	99	21.87	21.79	21.71		
20	16QAM	50	0	20.70	20.58	20.69	21.5	1
20	16QAM	50	24	20.76	20.61	20.67		
20	16QAM	50	50	20.68	20.73	20.68		
20	16QAM	100	0	20.72	20.50	20.62		
20	64QAM	1	0	20.77	20.66	20.79	21.5	1
20	64QAM	1	49	20.78	20.78	20.90		
20	64QAM	1	99	20.93	20.78	20.68		
20	64QAM	50	0	19.84	19.75	19.85	20.5	2
20	64QAM	50	24	19.90	19.81	19.83		
20	64QAM	50	50	19.92	19.79	19.82		
20	64QAM	100	0	19.90	19.74	19.74		
Channel				37525	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	21.70	21.59	21.58	22.5	0
15	QPSK	1	37	21.77	21.58	21.65		
15	QPSK	1	74	21.65	21.67	21.57		
15	QPSK	36	0	21.63	21.54	21.59	22.5	0
15	QPSK	36	20	21.72	21.60	21.66		
15	QPSK	36	39	21.72	21.54	21.66		
15	QPSK	75	0	21.72	21.55	21.56		
15	16QAM	1	0	21.83	21.79	21.87	22.5	0
15	16QAM	1	37	21.72	21.59	21.68		
15	16QAM	1	74	21.82	21.77	21.69		
15	16QAM	36	0	20.76	20.69	20.72	21.5	1
15	16QAM	36	20	20.93	20.66	20.84		
15	16QAM	36	39	20.83	20.78	20.77		
15	16QAM	75	0	20.91	20.70	20.81		
15	64QAM	1	0	20.74	20.56	20.97	21.5	1
15	64QAM	1	37	20.89	20.79	20.93		
15	64QAM	1	74	20.80	20.87	20.78		
15	64QAM	36	0	19.82	19.74	19.78	20.5	2
15	64QAM	36	20	19.96	19.78	19.73		
15	64QAM	36	39	19.99	19.81	19.77		
15	64QAM	75	0	19.95	19.68	19.80		
Channel				37500	38000	38250	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	21.66	21.50	21.80	22.5	0
10	QPSK	1	25	21.67	21.66	21.70		
10	QPSK	1	49	21.72	21.66	21.62		
10	QPSK	25	0	21.66	21.56	21.57	22.5	0
10	QPSK	25	12	21.82	21.62	21.69		
10	QPSK	25	25	21.76	21.64	21.76		
10	QPSK	50	0	21.78	21.58	21.69		
10	16QAM	1	0	21.88	21.84	21.83	22.5	0
10	16QAM	1	25	21.86	21.75	21.85		
10	16QAM	1	49	21.88	21.83	21.86		
10	16QAM	25	0	20.89	20.72	20.74	21.5	1
10	16QAM	25	12	20.97	20.85	20.84		
10	16QAM	25	25	21.00	20.76	20.86		
10	16QAM	50	0	21.01	20.79	20.87		
10	64QAM	1	0	20.94	21.07	21.28	21.5	1
10	64QAM	1	25	21.24	20.85	21.34		
10	64QAM	1	49	21.10	21.02	20.98		
10	64QAM	25	0	19.80	19.61	19.81	20.5	2
10	64QAM	25	12	19.97	19.68	19.88		
10	64QAM	25	25	20.00	19.82	19.92		
10	64QAM	50	0	19.91	19.73	19.81		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	21.61	21.56	21.63	22.5	0
5	QPSK	1	12	21.61	21.57	21.62		
5	QPSK	1	24	21.68	21.71	21.74		
5	QPSK	12	0	21.74	21.42	21.69	22.5	0
5	QPSK	12	7	21.75	21.59	21.79		
5	QPSK	12	13	21.82	21.61	21.79		
5	QPSK	25	0	21.71	21.56	21.74		
5	16QAM	1	0	21.87	21.71	21.83	22.5	0
5	16QAM	1	12	21.80	21.80	21.83		
5	16QAM	1	24	21.83	21.81	21.89		
5	16QAM	12	0	20.89	20.81	20.95	21.5	1
5	16QAM	12	7	20.97	20.78	21.02		
5	16QAM	12	13	21.01	20.89	21.02		
5	16QAM	25	0	20.86	20.78	20.97		
5	64QAM	1	0	20.96	20.96	20.91	21.5	1
5	64QAM	1	12	20.97	20.87	20.99		
5	64QAM	1	24	21.02	20.94	20.97		
5	64QAM	12	0	19.92	19.74	19.86	20.5	2
5	64QAM	12	7	20.01	19.84	19.94		
5	64QAM	12	13	19.95	19.84	19.99		
5	64QAM	25	0	19.98	19.81	19.98		

Band 41 (2.6G Band)–Class 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	21.20	21.29	21.48	21.59	21.51	23	0
20	QPSK	1	49	21.06	21.37	21.59	21.51	21.52		
20	QPSK	1	99	21.15	21.42	21.74	21.64	21.62		
20	QPSK	50	0	21.20	21.52	21.61	21.62	21.60	23	0
20	QPSK	50	24	21.21	21.54	21.69	21.66	21.60		
20	QPSK	50	50	21.10	21.52	21.63	21.61	21.61		
20	QPSK	100	0	21.33	21.53	21.70	21.66	21.55		
20	16QAM	1	0	21.03	21.34	21.58	21.63	21.64	23	0
20	16QAM	1	49	21.14	21.25	21.63	21.52	21.35		
20	16QAM	1	99	21.01	21.50	21.72	21.65	21.38		
20	16QAM	50	0	20.17	20.46	20.63	20.68	20.57	22	1
20	16QAM	50	24	20.28	20.62	20.68	20.68	20.47		
20	16QAM	50	50	20.23	20.62	20.82	20.66	20.65		
20	16QAM	100	0	20.21	20.59	20.79	20.69	20.55		
20	64QAM	1	0	19.95	20.19	20.38	20.55	20.59	22	1
20	64QAM	1	49	19.84	20.40	20.47	20.45	20.17		
20	64QAM	1	99	19.88	20.44	20.62	20.61	20.28		
20	64QAM	50	0	19.27	19.47	19.64	19.70	19.58	21	2
20	64QAM	50	24	19.26	19.64	19.82	19.72	19.61		
20	64QAM	50	50	19.21	19.59	19.82	19.72	19.61		
20	64QAM	100	0	19.31	19.55	19.69	19.56	19.60		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	21.06	21.27	21.52	21.53	21.31	23	0
15	QPSK	1	37	21.06	21.46	21.59	21.53	21.39		
15	QPSK	1	74	21.08	21.39	21.64	21.49	21.45		
15	QPSK	36	0	21.14	21.38	21.52	21.53	21.43	23	0
15	QPSK	36	20	21.22	21.48	21.58	21.48	21.40		
15	QPSK	36	39	21.14	21.49	21.67	21.58	21.49		
15	QPSK	75	0	21.12	21.41	21.50	21.53	21.45		
15	16QAM	1	0	21.21	21.40	21.58	21.59	21.56	23	0
15	16QAM	1	37	21.10	21.32	21.58	21.55	21.39		
15	16QAM	1	74	21.08	21.57	21.66	21.71	21.38		
15	16QAM	36	0	20.24	20.36	20.60	20.60	20.44	22	1
15	16QAM	36	20	20.22	20.42	20.63	20.55	20.41		
15	16QAM	36	39	20.18	20.46	20.71	20.67	20.46		
15	16QAM	75	0	20.28	20.61	20.64	20.65	20.52		
15	64QAM	1	0	20.13	20.20	20.43	20.49	20.53	22	1
15	64QAM	1	37	21.02	20.30	20.50	20.54	20.26		
15	64QAM	1	74	21.08	20.54	20.79	20.63	20.05		
15	64QAM	36	0	19.27	19.51	19.69	19.64	19.56	21	2
15	64QAM	36	20	19.25	19.55	19.58	19.54	19.51		
15	64QAM	36	39	19.16	19.53	19.76	19.64	19.51		
15	64QAM	75	0	19.34	19.63	19.63	19.60	19.51		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	21.09	21.40	21.63	21.54	21.51	23	0
10	QPSK	1	25	21.09	21.37	21.54	21.46	21.36		
10	QPSK	1	49	21.00	21.53	21.61	21.37	21.25		
10	QPSK	25	0	21.17	21.37	21.54	21.57	21.41	23	0
10	QPSK	25	12	21.19	21.43	21.60	21.60	21.45		
10	QPSK	25	25	21.10	21.42	21.72	21.56	21.47		
10	QPSK	50	0	21.22	21.45	21.58	21.62	21.41		
10	16QAM	1	0	21.23	21.49	21.66	21.58	21.56	23	0
10	16QAM	1	25	21.18	21.59	21.64	21.58	21.55		
10	16QAM	1	49	21.20	21.52	21.67	21.47	21.45		
10	16QAM	25	0	20.35	20.50	20.89	20.62	20.64	22	1
10	16QAM	25	12	20.31	20.63	20.76	20.85	20.72		
10	16QAM	25	25	20.17	20.56	20.89	20.73	20.60		
10	16QAM	50	0	20.27	20.58	20.67	20.76	20.63		
10	64QAM	1	0	20.24	20.33	20.44	20.53	20.62	22	1
10	64QAM	1	25	20.09	20.38	20.88	20.52	20.54		
10	64QAM	1	49	20.39	20.52	20.74	20.40	20.42		
10	64QAM	25	0	19.44	19.72	19.79	19.68	19.63	21	2
10	64QAM	25	12	19.41	19.68	19.80	19.80	19.78		
10	64QAM	25	25	19.26	19.71	19.70	19.84	19.51		
10	64QAM	50	0	19.33	19.65	19.65	19.71	19.61		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	21.08	21.38	21.73	21.61	21.46	23	0
5	QPSK	1	12	21.07	21.40	21.72	21.61	21.40		
5	QPSK	1	24	21.14	21.47	21.68	21.55	21.50		
5	QPSK	12	0	21.09	21.46	21.62	21.55	21.40	23	0
5	QPSK	12	7	21.20	21.52	21.67	21.58	21.48		
5	QPSK	12	13	21.13	21.44	21.68	21.61	21.42		
5	QPSK	25	0	21.07	21.48	21.57	21.59	21.38		
5	16QAM	1	0	21.10	21.54	21.71	21.71	21.52	23	0
5	16QAM	1	12	21.09	21.36	21.69	21.63	21.61		
5	16QAM	1	24	21.10	21.55	21.68	21.59	21.55		
5	16QAM	12	0	20.25	20.52	20.70	20.71	20.55	22	1
5	16QAM	12	7	20.23	20.58	20.80	20.74	20.60		
5	16QAM	12	13	20.15	20.52	20.77	20.62	20.49		
5	16QAM	25	0	20.24	20.68	20.80	20.64	20.60		
5	64QAM	1	0	20.05	20.28	20.58	20.57	20.42	22	1
5	64QAM	1	12	20.13	20.38	20.70	20.67	20.46		
5	64QAM	1	24	20.04	20.49	20.79	20.72	20.44		
5	64QAM	12	0	19.28	19.51	19.74	19.72	19.55	21	2
5	64QAM	12	7	19.25	19.68	19.81	19.81	19.60		
5	64QAM	12	13	19.28	19.63	19.87	19.73	19.54		
5	64QAM	25	0	19.24	19.59	19.74	19.74	19.58		

Band 41 (2.6G Band) HPUE (Limit 27)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.49	23.71	23.94	24.03	23.90	24.7	0
20	QPSK	1	49	23.52	23.88	24.04	23.95	23.89		
20	QPSK	1	99	23.55	23.99	24.15	24.05	23.92		
20	QPSK	50	0	23.62	23.92	24.05	24.02	24.01	24.7	0
20	QPSK	50	24	23.68	24.03	24.11	24.06	24.05		
20	QPSK	50	50	23.67	24.01	24.10	24.00	23.97		
20	QPSK	100	0	23.63	24.00	24.10	24.08	23.95		
20	16QAM	1	0	23.66	23.93	24.09	24.09	24.06	24.7	0
20	16QAM	1	49	23.50	23.94	24.03	24.01	24.03		
20	16QAM	1	99	23.56	23.99	24.06	24.08	23.02		
20	16QAM	50	0	23.09	23.20	23.54	23.51	23.48	24.2	0.5
20	16QAM	50	24	23.01	23.42	23.53	23.52	23.34		
20	16QAM	50	50	23.01	23.42	23.64	23.61	23.38		
20	16QAM	100	0	23.05	23.36	23.57	23.42	23.37		
20	64QAM	1	0	23.18	23.33	23.64	23.77	23.70	24.2	0.5
20	64QAM	1	49	23.13	23.55	23.55	23.83	23.78		
20	64QAM	1	99	23.19	23.50	23.90	23.67	23.80		
20	64QAM	50	0	22.20	22.42	22.61	22.61	22.48	23.7	1
20	64QAM	50	24	22.22	22.56	22.69	22.68	22.54		
20	64QAM	50	50	22.16	22.49	22.77	22.66	22.34		
20	64QAM	100	0	22.03	22.52	22.68	22.63	22.55		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	23.44	23.74	23.99	23.93	23.79	24.7	0
15	QPSK	1	37	23.33	23.74	23.89	23.83	23.71		
15	QPSK	1	74	23.30	23.79	24.05	23.94	23.74		
15	QPSK	36	0	23.48	23.79	23.97	23.94	23.78	24.7	0
15	QPSK	36	20	23.44	23.93	24.02	23.96	23.84		
15	QPSK	36	39	23.52	23.89	24.07	23.97	23.86		
15	QPSK	75	0	23.50	23.80	23.97	23.98	23.81		
15	16QAM	1	0	23.62	23.91	24.07	24.07	24.07	24.7	0
15	16QAM	1	37	23.41	23.83	24.05	23.99	23.83		
15	16QAM	1	74	23.54	24.12	24.11	24.08	24.01		
15	16QAM	36	0	22.94	23.28	23.47	23.48	23.36	24.2	0.5
15	16QAM	36	20	22.96	23.36	23.48	23.44	23.31		
15	16QAM	36	39	22.88	23.36	23.55	23.52	23.38		
15	16QAM	75	0	23.04	23.40	23.48	23.52	23.38		
15	64QAM	1	0	22.99	23.30	23.52	23.55	23.76	24.2	0.5
15	64QAM	1	37	22.98	23.41	23.69	23.64	22.94		
15	64QAM	1	74	22.96	23.46	23.80	23.65	22.70		
15	64QAM	36	0	21.99	22.34	22.56	22.50	22.42	23.7	1
15	64QAM	36	20	22.08	22.44	22.49	22.46	22.42		
15	64QAM	36	39	21.98	22.44	22.61	22.55	22.44		
15	64QAM	75	0	22.06	22.44	22.55	22.42	22.33		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	23.37	23.72	24.01	23.97	23.87	24.7	0
10	QPSK	1	25	23.41	23.66	24.1	23.97	23.8		
10	QPSK	1	49	23.43	23.9	23.94	24.05	23.77		
10	QPSK	25	0	23.45	23.7	23.97	23.94	23.91	24.7	0
10	QPSK	25	12	23.53	23.89	23.98	24.02	23.86		
10	QPSK	25	25	23.46	23.8	24.08	23.98	23.88		
10	QPSK	50	0	23.5	23.89	23.95	24.04	23.92		
10	16QAM	1	0	23.56	23.93	24.08	24.09	24.06	24.7	0
10	16QAM	1	25	23.58	24.02	24.07	24.04	24.02		
10	16QAM	1	49	23.66	24.09	24.09	24.09	24.03		
10	16QAM	25	0	22.98	23.37	23.59	23.57	23.48	24.2	0.5
10	16QAM	25	12	23.18	23.55	23.61	23.81	23.68		
10	16QAM	25	25	23.05	23.43	23.79	23.57	23.4		
10	16QAM	50	0	23.14	23.53	23.66	23.72	23.59		
10	64QAM	1	0	23.33	23.56	23.78	23.71	23.80	24.2	0.5
10	64QAM	1	25	23.36	23.66	23.89	23.78	23.74		
10	64QAM	1	49	23.35	23.61	23.91	23.83	23.62		
10	64QAM	25	0	22.26	22.47	22.74	22.72	22.60	23.7	1
10	64QAM	25	12	22.28	22.65	22.70	22.77	22.66		
10	64QAM	25	25	22.13	22.52	22.82	22.72	22.62		
10	64QAM	50	0	22.11	22.57	22.66	22.66	22.60		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	23.46	23.74	23.94	23.99	23.87	24.7	0
5	QPSK	1	12	23.44	23.87	24.10	24.05	23.78		
5	QPSK	1	24	23.42	23.84	24.14	23.89	23.83		
5	QPSK	12	0	23.50	23.72	24.06	23.97	23.85	24.7	0
5	QPSK	12	7	23.48	23.86	24.11	24.00	23.90		
5	QPSK	12	13	23.49	23.88	24.11	23.97	23.80		
5	QPSK	25	0	23.50	23.83	24.09	24.03	23.81		
5	16QAM	1	0	23.66	23.92	24.06	24.07	23.97	24.7	0
5	16QAM	1	12	23.61	23.99	24.01	24.06	24.00		
5	16QAM	1	24	23.66	24.05	24.06	24.11	23.98		
5	16QAM	12	0	23.14	23.47	23.71	23.63	23.54	24.2	0.5
5	16QAM	12	7	23.21	23.52	23.66	23.71	23.53		
5	16QAM	12	13	23.14	23.54	23.74	23.67	23.53		
5	16QAM	25	0	23.09	23.47	23.69	23.69	23.53		
5	64QAM	1	0	23.28	23.33	23.58	23.57	23.39	24.2	0.5
5	64QAM	1	12	23.09	23.40	23.68	23.53	23.41		
5	64QAM	1	24	23.10	23.48	23.67	23.55	23.39		
5	64QAM	12	0	22.12	22.44	22.66	22.65	22.52	23.7	1
5	64QAM	12	7	22.20	22.49	22.82	22.78	22.57		
5	64QAM	12	13	22.07	22.52	22.79	22.72	22.57		
5	64QAM	25	0	22.14	22.56	22.79	22.74	22.54		

Reduced power for Handheld on-UAT

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	20.97	21.15	21.04	21.50	19.67	19.71	19.55	20.50
3GPP Rel 99	RMC 12.2Kbps	21.01	21.17	21.07	21.50	19.70	19.74	19.60	20.50
3GPP Rel 6	HSDPA Subtest-1	20.15	20.38	20.31	20.50	18.79	18.88	18.93	19.50
3GPP Rel 6	HSDPA Subtest-2	20.27	20.33	20.22	20.50	18.87	18.85	18.88	19.50
3GPP Rel 6	HSDPA Subtest-3	19.78	19.86	19.89	20.00	18.22	18.32	18.34	19.00
3GPP Rel 6	HSDPA Subtest-4	19.76	19.89	19.80	20.00	18.33	18.28	18.23	19.00
3GPP Rel 8	DC-HSDPA Subtest-1	20.00	20.29	20.20	20.50	18.69	18.73	18.82	19.50
3GPP Rel 8	DC-HSDPA Subtest-2	20.17	20.19	20.14	20.50	18.78	18.70	18.76	19.50
3GPP Rel 8	DC-HSDPA Subtest-3	19.66	19.74	19.77	20.00	18.07	18.19	18.19	19.00
3GPP Rel 8	DC-HSDPA Subtest-4	19.64	19.78	19.70	20.00	18.23	18.15	18.09	19.00
3GPP Rel 6	HSUPA Subtest-1	20.19	20.22	20.12	20.50	18.89	18.83	18.81	19.50
3GPP Rel 6	HSUPA Subtest-2	17.96	18.22	18.20	18.50	16.83	16.82	16.61	17.50
3GPP Rel 6	HSUPA Subtest-3	18.18	18.04	18.20	18.50	16.86	16.82	16.78	17.50
3GPP Rel 6	HSUPA Subtest-4	18.17	18.33	18.09	18.50	16.75	16.88	16.82	17.50
3GPP Rel 6	HSUPA Subtest-5	20.09	20.27	20.23	20.50	18.83	18.74	18.89	19.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.65	17.77	17.60	18.00	16.20	16.33	16.30	17.00

Band 7 (2600MHz Band) Part 27								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	17.19	17.02	17.11	18	0
20	QPSK	1	49	17.11	16.95	17.04		
20	QPSK	1	99	17.09	16.96	17.10		
20	QPSK	50	0	16.86	16.75	16.87	18	0
20	QPSK	50	24	17.10	16.95	17.07		
20	QPSK	50	50	16.93	16.80	17.00		
20	QPSK	100	0	17.05	16.91	17.00		
20	16QAM	1	0	16.89	16.85	17.03	18	0
20	16QAM	1	49	16.99	16.84	16.99		
20	16QAM	1	99	16.96	16.86	17.02		
20	16QAM	50	0	16.86	16.73	16.87	18	0
20	16QAM	50	24	16.97	16.78	17.01		
20	16QAM	50	50	16.98	16.84	17.02		
20	16QAM	100	0	16.95	16.83	16.90		
20	64QAM	1	0	16.92	16.86	17.00	18	0
20	64QAM	1	49	17.01	16.92	17.04		
20	64QAM	1	99	16.97	16.97	17.10		
20	64QAM	50	0	16.91	16.79	16.92	18	0
20	64QAM	50	24	17.02	16.81	17.04		
20	64QAM	50	50	16.97	16.86	17.05		
20	64QAM	100	0	16.96	16.86	16.91		
Channel				20625	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	16.74	16.73	16.79	18	0
15	QPSK	1	37	16.77	16.69	16.85		
15	QPSK	1	74	16.76	16.83	16.88		
15	QPSK	36	0	16.79	16.81	16.88	18	0
15	QPSK	36	20	16.93	16.90	17.01		
15	QPSK	36	39	16.89	16.90	17.00		
15	QPSK	75	0	16.88	16.89	16.89		
15	16QAM	1	0	17.08	17.08	17.07	18	0
15	16QAM	1	37	17.04	17.12	17.11		
15	16QAM	1	74	17.11	17.09	17.09		
15	16QAM	36	0	16.82	16.83	16.92	18	0
15	16QAM	36	20	16.89	16.93	16.98		
15	16QAM	36	39	16.89	16.92	17.02		
15	16QAM	75	0	16.91	16.93	16.94		
15	64QAM	1	0	16.90	16.89	16.98	18	0
15	64QAM	1	37	16.97	16.96	17.05		
15	64QAM	1	74	16.93	17.02	17.12		
15	64QAM	36	0	16.88	16.90	16.96	18	0
15	64QAM	36	20	16.98	16.97	17.03		
15	64QAM	36	39	16.94	16.97	17.07		
15	64QAM	75	0	16.92	16.94	16.96		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	16.81	16.77	16.84	18	0
10	QPSK	1	25	16.74	16.78	16.85		
10	QPSK	1	49	16.76	16.81	16.87		
10	QPSK	25	0	16.92	16.87	17.00	18	0
10	QPSK	25	12	17.02	16.97	17.13		
10	QPSK	25	25	16.99	16.96	17.09		
10	QPSK	50	0	16.98	16.98	17.02		
10	16QAM	1	0	17.14	17.17	17.17	18	0
10	16QAM	1	25	17.03	17.09	17.18		
10	16QAM	1	49	17.16	17.17	17.10		
10	16QAM	25	0	16.90	16.89	17.01	18	0
10	16QAM	25	12	17.05	16.99	17.10		
10	16QAM	25	25	16.96	16.99	17.05		
10	16QAM	50	0	16.99	17.00	16.97		
10	64QAM	1	0	17.09	17.00	17.12	18	0
10	64QAM	1	25	17.07	17.09	17.11		
10	64QAM	1	49	17.17	17.08	17.18		
10	64QAM	25	0	16.94	16.91	17.01	18	0
10	64QAM	25	12	17.06	17.05	17.16		
10	64QAM	25	25	17.02	17.01	17.12		
10	64QAM	50	0	17.06	16.99	17.07		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	16.79	16.73	16.88	18	0
5	QPSK	1	12	16.86	16.85	17.01		
5	QPSK	1	24	16.88	16.83	16.98		
5	QPSK	12	0	16.93	16.91	17.01	18	0
5	QPSK	12	7	16.98	16.98	17.09		
5	QPSK	12	13	16.97	16.97	17.06		
5	QPSK	25	0	16.93	16.94	17.01		
5	16QAM	1	0	17.14	17.06	17.15	18	0
5	16QAM	1	12	17.17	17.12	17.16		
5	16QAM	1	24	17.17	17.13	17.11		
5	16QAM	12	0	16.94	16.96	17.04	18	0
5	16QAM	12	7	17.01	17.01	17.07		
5	16QAM	12	13	16.99	17.00	17.08		
5	16QAM	25	0	17.00	16.99	17.01		
5	64QAM	1	0	17.10	17.03	17.14	18	0
5	64QAM	1	12	17.12	17.13	17.13		
5	64QAM	1	24	17.17	17.14	17.18		
5	64QAM	12	0	17.03	17.00	17.11	18	0
5	64QAM	12	7	17.06	17.05	17.16		
5	64QAM	12	13	17.04	17.00	17.12		
5	64QAM	25	0	17.02	16.99	17.09		

Full Power for LAT

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	31.47	31.40	31.52	32.80	22.47	22.40	22.52	23.80
GPRS 1 Tx slot	31.45	31.37	31.50	32.80	22.45	22.37	22.50	23.80
GPRS 2 Tx slots	29.91	30.05	29.71	31.30	23.91	24.05	23.71	25.30
GPRS 3 Tx slots	28.44	28.43	28.33	29.30	24.18	24.17	24.07	25.04
GPRS 4 Tx slots	27.81	27.55	27.48	28.30	24.81	24.55	24.48	25.30
EDGE 1 Tx slot	25.42	25.56	25.33	26.80	16.42	16.56	16.33	17.80
EDGE 2 Tx slots	23.84	23.91	23.78	25.30	17.84	17.91	17.78	19.30
EDGE 3 Tx slots	22.86	22.75	22.96	24.30	18.60	18.49	18.70	20.04
EDGE 4 Tx slots	22.15	22.04	22.17	23.80	19.15	19.04	19.17	20.80

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	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.18	29.10	29.31	30.80	20.18	20.10	20.31	21.80
GPRS 1 Tx slot	29.16	29.08	29.29	30.80	20.16	20.08	20.29	21.80
GPRS 2 Tx slots	26.10	26.09	26.58	27.80	20.10	20.09	20.58	21.80
GPRS 3 Tx slots	25.01	24.80	24.97	26.50	20.75	20.54	20.71	22.24
GPRS 4 Tx slots	24.51	24.30	24.46	25.50	21.51	21.30	21.46	22.50
EDGE 1 Tx slot	24.67	24.58	24.69	26.30	15.67	15.58	15.69	17.30
EDGE 2 Tx slots	23.78	23.56	23.84	25.30	17.78	17.56	17.84	19.30
EDGE 3 Tx slots	22.69	22.46	22.75	24.30	18.43	18.20	18.49	20.04
EDGE 4 Tx slots	22.58	22.30	22.64	24.30	19.58	19.30	19.64	21.30

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	23.91	24.00	23.95	24.80	23.58	23.63	23.60	24.80	23.80	23.83	23.78	24.80
3GPP Rel 99	RMC 12.2Kbps	23.93	24.01	23.97	24.80	23.60	23.65	23.63	24.80	23.82	23.86	23.80	24.80
3GPP Rel 6	HSDPA Subtest-1	23.12	23.25	23.19	23.80	22.50	22.63	22.63	23.80	22.90	23.02	22.95	23.80
3GPP Rel 6	HSDPA Subtest-2	23.15	23.27	23.20	23.80	22.52	22.61	22.62	23.80	22.91	23.00	22.97	23.80
3GPP Rel 6	HSDPA Subtest-3	22.62	22.79	22.71	23.30	22.00	22.16	22.16	23.30	22.46	22.49	22.46	23.30
3GPP Rel 6	HSDPA Subtest-4	22.64	22.73	22.69	23.30	22.02	22.11	22.14	23.30	22.46	22.48	22.44	23.30
3GPP Rel 8	DC-HSDPA Subtest-1	22.89	23.03	22.93	23.80	22.32	22.42	22.41	23.80	22.63	22.74	22.66	23.80
3GPP Rel 8	DC-HSDPA Subtest-2	22.94	23.06	22.96	23.80	22.35	22.44	22.42	23.80	22.66	22.73	22.68	23.80
3GPP Rel 8	DC-HSDPA Subtest-3	22.43	22.63	22.56	23.30	21.80	21.89	21.89	23.30	22.19	22.24	22.23	23.30
3GPP Rel 8	DC-HSDPA Subtest-4	22.45	22.65	22.60	23.30	21.83	21.83	21.87	23.30	22.20	22.22	22.25	23.30
3GPP Rel 6	HSUPA Subtest-1	23.10	23.22	23.12	23.80	22.54	22.66	22.70	23.80	22.89	22.97	22.96	23.80
3GPP Rel 6	HSUPA Subtest-2	21.13	21.20	21.15	21.80	20.55	20.67	20.62	21.80	20.90	20.96	20.94	21.80
3GPP Rel 6	HSUPA Subtest-3	21.12	21.22	21.13	21.80	20.54	20.63	20.60	21.80	21.90	21.95	21.94	22.80
3GPP Rel 6	HSUPA Subtest-4	21.10	21.19	21.11	21.80	20.56	20.64	20.64	21.80	20.90	20.90	20.93	21.80
3GPP Rel 6	HSUPA Subtest-5	23.10	23.20	23.10	23.80	22.50	22.70	22.70	23.80	22.90	22.90	23.00	23.80
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.70	20.76	20.72	21.30	21.17	21.22	21.26	21.30	20.55	20.57	20.61	21.30

Band 2 (1900MHz Band)
Part 24E

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	22.56	22.65	22.64	23.8	0
20	QPSK	1	49	22.55	22.60	22.63		
20	QPSK	1	99	22.49	22.51	22.54		
20	QPSK	50	0	21.63	21.66	21.68	22.8	1
20	QPSK	50	24	21.73	21.77	21.75		
20	QPSK	50	50	21.67	21.70	21.72		
20	QPSK	100	0	21.67	21.70	21.68		
20	16QAM	1	0	21.91	22.02	21.99	22.8	1
20	16QAM	1	49	21.92	21.97	21.98		
20	16QAM	1	99	21.87	21.89	21.89		
20	16QAM	50	0	20.61	20.69	20.71	21.8	2
20	16QAM	50	24	20.70	20.70	20.73		
20	16QAM	50	50	20.69	20.75	20.80		
20	16QAM	100	0	20.68	20.65	20.69		
20	64QAM	1	0	20.50	20.59	20.62	21.8	2
20	64QAM	1	49	20.54	20.60	20.60		
20	64QAM	1	99	20.44	20.54	20.53		
20	64QAM	50	0	19.36	19.46	19.45	20.8	3
20	64QAM	50	24	19.44	19.46	19.50		
20	64QAM	50	50	19.45	19.54	19.57		
20	64QAM	100	0	19.43	19.43	19.48		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	22.49	22.57	22.57	23.8	0
15	QPSK	1	37	22.47	22.50	22.57		
15	QPSK	1	74	22.45	22.49	22.58		
15	QPSK	36	0	21.61	21.65	21.71	22.8	1
15	QPSK	36	20	21.71	21.75	21.80		
15	QPSK	36	39	21.67	21.74	21.80		
15	QPSK	75	0	21.68	21.63	21.71		
15	16QAM	1	0	21.86	21.99	22.05	22.8	1
15	16QAM	1	37	21.90	21.98	22.01		
15	16QAM	1	74	21.88	21.88	21.94		
15	16QAM	36	0	20.61	20.69	20.72	21.8	2
15	16QAM	36	20	20.71	20.77	20.81		
15	16QAM	36	39	20.67	20.76	20.80		
15	16QAM	75	0	20.69	20.68	20.72		
15	64QAM	1	0	20.42	20.48	20.51	21.8	2
15	64QAM	1	37	20.48	20.53	20.49		
15	64QAM	1	74	20.42	20.45	20.52		
15	64QAM	36	0	19.28	19.39	19.41	20.8	3
15	64QAM	36	20	19.38	19.52	19.54		
15	64QAM	36	39	19.40	19.50	19.50		
15	64QAM	75	0	19.34	19.38	19.40		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	22.46	22.49	22.58	23.8	0
10	QPSK	1	25	22.42	22.50	22.54		
10	QPSK	1	49	22.42	22.49	22.53		
10	QPSK	25	0	21.58	21.65	21.72	22.8	1
10	QPSK	25	12	21.62	21.69	21.73		
10	QPSK	25	25	21.69	21.77	21.83		
10	QPSK	50	0	21.61	21.65	21.73		
10	16QAM	1	0	21.96	21.94	22.07	22.8	1
10	16QAM	1	25	21.89	21.97	22.02		
10	16QAM	1	49	21.90	21.97	21.99		
10	16QAM	25	0	20.55	20.65	20.71	21.8	2
10	16QAM	25	12	20.64	20.69	20.74		
10	16QAM	25	25	20.65	20.72	20.76		
10	16QAM	50	0	20.58	20.68	20.73		
10	64QAM	1	0	20.39	20.50	20.52	21.8	2
10	64QAM	1	25	20.51	20.54	20.55		
10	64QAM	1	49	20.51	20.58	20.54		
10	64QAM	25	0	19.27	19.36	19.37	20.8	3
10	64QAM	25	12	19.29	19.41	19.42		
10	64QAM	25	25	19.39	19.45	19.48		
10	64QAM	50	0	19.28	19.38	19.40		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	22.44	22.48	22.55	23.8	0
5	QPSK	1	12	22.46	22.58	22.52		
5	QPSK	1	24	22.50	22.58	22.51		
5	QPSK	12	0	21.65	21.69	21.75	22.8	1
5	QPSK	12	7	21.66	21.75	21.78		
5	QPSK	12	13	21.65	21.74	21.80		
5	QPSK	25	0	21.65	21.67	21.75		
5	16QAM	1	0	21.90	21.93	21.99	22.8	1
5	16QAM	1	12	21.87	21.97	22.04		
5	16QAM	1	24	21.92	22.04	22.05		
5	16QAM	12	0	20.64	20.68	20.72	21.8	2
5	16QAM	12	7	20.67	20.81	20.84		
5	16QAM	12	13	20.66	20.76	20.81		
5	16QAM	25	0	20.66	20.68	20.74		
5	64QAM	1	0	20.67	20.35	20.29	21.8	2
5	64QAM	1	12	20.32	20.39	20.37		
5	64QAM	1	24	20.41	20.48	20.62		
5	64QAM	12	0	19.25	19.36	19.40	20.8	3
5	64QAM	12	7	19.31	19.46	19.43		
5	64QAM	12	13	19.29	19.49	19.47		
5	64QAM	25	0	19.27	19.40	19.46		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	22.43	22.45	22.54	23.8	0
3	QPSK	1	8	22.46	22.57	22.52		
3	QPSK	1	14	22.43	22.54	22.55		
3	QPSK	8	0	21.61	21.61	21.73	22.8	1
3	QPSK	8	4	21.64	21.74	21.76		
3	QPSK	8	7	21.62	21.70	21.74		
3	QPSK	15	0	21.60	21.71	21.80		
3	16QAM	1	0	21.79	21.89	22.04	22.8	1
3	16QAM	1	8	21.90	22.00	22.12		
3	16QAM	1	14	21.89	21.99	22.02		
3	16QAM	8	0	20.62	20.72	20.80	21.8	2
3	16QAM	8	4	20.71	20.75	20.88		
3	16QAM	8	7	20.65	20.72	20.85		
3	16QAM	15	0	20.64	20.71	20.80		
3	64QAM	1	0	20.41	20.03	20.12	21.8	2
3	64QAM	1	8	20.15	20.53	20.32		
3	64QAM	1	14	20.18	20.45	20.52		
3	64QAM	8	0	19.44	19.48	19.50	20.8	3
3	64QAM	8	4	19.44	19.61	19.58		
3	64QAM	8	7	19.44	19.42	19.46		
3	64QAM	15	0	19.39	19.42	19.48		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	22.35	22.45	22.47	23.8	0
1.4	QPSK	1	3	22.44	22.50	22.54		
1.4	QPSK	1	5	22.37	22.44	22.48		
1.4	QPSK	3	0	22.36	22.51	22.55		
1.4	QPSK	3	1	22.42	22.49	22.54		
1.4	QPSK	3	3	22.38	22.45	22.51		
1.4	QPSK	6	0	21.58	21.63	21.70	22.8	1
1.4	16QAM	1	0	21.77	21.86	21.94	22.8	1
1.4	16QAM	1	3	21.84	21.95	22.00		
1.4	16QAM	1	5	21.77	21.87	21.94		
1.4	16QAM	3	0	21.63	21.66	21.69		
1.4	16QAM	3	1	21.65	21.70	21.76		
1.4	16QAM	3	3	21.57	21.68	21.71		
1.4	16QAM	6	0	20.63	20.73	20.74	21.8	2
1.4	64QAM	1	0	20.34	20.43	20.31	21.8	2
1.4	64QAM	1	3	20.41	20.76	20.55		
1.4	64QAM	1	5	20.34	20.34	20.52		
1.4	64QAM	3	0	20.11	20.22	20.50		
1.4	64QAM	3	1	20.49	20.22	20.48		
1.4	64QAM	3	3	20.10	20.59	20.57		
1.4	64QAM	6	0	19.30	19.33	19.32	20.8	3

Band 4 (AWS Band)
Part 27L (only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20000	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	22.41	22.53	22.50	23.8	0
20	QPSK	1	49	22.17	22.32	22.31		
20	QPSK	1	99	22.21	22.28	22.30		
20	QPSK	50	0	21.41	21.52	21.47	22.8	1
20	QPSK	50	24	21.43	21.53	21.50		
20	QPSK	50	50	21.35	21.42	21.43		
20	QPSK	100	0	21.41	21.49	21.46		
20	16QAM	1	0	21.70	21.86	21.89	22.8	1
20	16QAM	1	49	21.54	21.74	21.67		
20	16QAM	1	99	21.54	21.63	21.73		
20	16QAM	50	0	20.40	20.51	20.53	21.8	2
20	16QAM	50	24	20.41	20.45	20.54		
20	16QAM	50	50	20.35	20.44	20.48		
20	16QAM	100	0	20.39	20.42	20.50		
20	64QAM	1	0	20.61	20.65	20.78	21.8	2
20	64QAM	1	49	20.46	20.53	20.60		
20	64QAM	1	99	20.42	20.51	20.61		
20	64QAM	50	0	19.43	19.54	19.54	20.8	3
20	64QAM	50	24	19.43	19.48	19.53		
20	64QAM	50	50	19.36	19.44	19.48		
20	64QAM	100	0	19.42	19.47	19.55		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	22.23	22.39	22.38	23.8	0
15	QPSK	1	37	22.10	22.17	22.20		
15	QPSK	1	74	22.11	22.19	22.22		
15	QPSK	36	0	21.26	21.38	21.38	22.8	1
15	QPSK	36	20	21.27	21.29	21.33		
15	QPSK	36	39	21.25	21.32	21.35		
15	QPSK	75	0	21.29	21.29	21.34		
15	16QAM	1	0	21.55	21.69	21.62	22.8	1
15	16QAM	1	37	21.44	21.54	21.56		
15	16QAM	1	74	21.47	21.44	21.51		
15	16QAM	36	0	20.27	20.40	20.40	21.8	2
15	16QAM	36	20	20.27	20.33	20.32		
15	16QAM	36	39	20.22	20.34	20.32		
15	16QAM	75	0	20.31	20.32	20.32		
15	64QAM	1	0	20.43	20.57	20.62	21.8	2
15	64QAM	1	37	20.37	20.41	20.44		
15	64QAM	1	74	20.29	20.39	20.36		
15	64QAM	36	0	19.31	19.40	19.43	20.8	3
15	64QAM	36	20	19.33	19.32	19.37		
15	64QAM	36	39	19.27	19.34	19.40		
15	64QAM	75	0	19.31	19.34	19.35		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	22.17	22.25	22.23	23.8	0
10	QPSK	1	25	22.14	22.23	22.23		
10	QPSK	1	49	22.13	22.25	22.24		
10	QPSK	25	0	21.16	21.28	21.28	22.8	1
10	QPSK	25	12	21.26	21.30	21.31		
10	QPSK	25	25	21.28	21.39	21.40		
10	QPSK	50	0	21.29	21.31	21.42		
10	16QAM	1	0	21.50	21.61	21.63	22.8	1
10	16QAM	1	25	21.49	21.65	21.62		
10	16QAM	1	49	21.48	21.63	21.61		
10	16QAM	25	0	20.18	20.30	20.29	21.8	2
10	16QAM	25	12	20.28	20.33	20.32		
10	16QAM	25	25	20.26	20.39	20.37		
10	16QAM	50	0	20.28	20.32	20.39		
10	64QAM	1	0	20.44	20.44	20.55	21.8	2
10	64QAM	1	25	20.47	20.59	20.54		
10	64QAM	1	49	20.35	20.49	20.56		
10	64QAM	25	0	19.21	19.35	19.31	20.8	3
10	64QAM	25	12	19.32	19.39	19.38		
10	64QAM	25	25	19.33	19.44	19.43		
10	64QAM	50	0	19.32	19.34	19.38		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	22.18	22.23	22.20	23.8	0
5	QPSK	1	12	22.20	22.34	22.28		
5	QPSK	1	24	22.24	22.35	22.33		
5	QPSK	12	0	21.26	21.34	21.33	22.8	1
5	QPSK	12	7	21.33	21.43	21.44		
5	QPSK	12	13	21.31	21.44	21.37		
5	QPSK	25	0	21.27	21.35	21.37		
5	16QAM	1	0	21.53	21.51	21.56	22.8	1
5	16QAM	1	12	21.43	21.57	21.56		
5	16QAM	1	24	21.56	21.62	21.66		
5	16QAM	12	0	20.29	20.35	20.36	21.8	2
5	16QAM	12	7	20.33	20.43	20.41		
5	16QAM	12	13	20.31	20.44	20.41		
5	16QAM	25	0	20.28	20.37	20.40		
5	64QAM	1	0	20.60	20.48	20.54	21.8	2
5	64QAM	1	12	20.47	20.54	20.53		
5	64QAM	1	24	20.43	20.60	20.57		
5	64QAM	12	0	19.32	19.44	19.36	20.8	3
5	64QAM	12	7	19.43	19.52	19.45		
5	64QAM	12	13	19.37	19.47	19.47		
5	64QAM	25	0	19.30	19.40	19.42		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	22.14	22.17	22.13	23.8	0
3	QPSK	1	8	22.19	22.27	22.26		
3	QPSK	1	14	22.16	22.24	22.24		
3	QPSK	8	0	21.21	21.26	21.23	22.8	1
3	QPSK	8	4	21.21	21.33	21.34		
3	QPSK	8	7	21.18	21.33	21.34		
3	QPSK	15	0	21.19	21.28	21.34		
3	16QAM	1	0	21.41	21.49	21.44	22.8	1
3	16QAM	1	8	21.45	21.59	21.63		
3	16QAM	1	14	21.40	21.57	21.53		
3	16QAM	8	0	20.27	20.32	20.29	21.8	2
3	16QAM	8	4	20.28	20.40	20.38		
3	16QAM	8	7	20.27	20.41	20.32		
3	16QAM	15	0	20.25	20.31	20.25		
3	64QAM	1	0	20.35	20.42	20.35	21.8	2
3	64QAM	1	8	20.41	20.54	20.47		
3	64QAM	1	14	20.26	20.55	20.45		
3	64QAM	8	0	19.26	19.31	19.19	20.8	3
3	64QAM	8	4	19.30	19.41	19.33		
3	64QAM	8	7	19.29	19.39	19.30		
3	64QAM	15	0	19.24	19.33	19.26		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	22.20	22.18	22.11	23.8	0
1.4	QPSK	1	3	22.15	22.26	22.25		
1.4	QPSK	1	5	22.22	22.21	22.21		
1.4	QPSK	3	0	22.10	22.19	22.14		
1.4	QPSK	3	1	22.13	22.25	22.17		
1.4	QPSK	3	3	22.23	22.20	22.20		
1.4	QPSK	6	0	21.17	21.29	21.18	22.8	1
1.4	16QAM	1	0	21.41	21.54	21.46	22.8	1
1.4	16QAM	1	3	21.46	21.63	21.62		
1.4	16QAM	1	5	21.37	21.54	21.54		
1.4	16QAM	3	0	21.16	21.30	21.25		
1.4	16QAM	3	1	21.23	21.34	21.26		
1.4	16QAM	3	3	21.16	21.29	21.29		
1.4	16QAM	6	0	20.28	20.40	20.34	21.8	2
1.4	64QAM	1	0	20.33	20.43	20.40	21.8	2
1.4	64QAM	1	3	20.39	20.52	20.48		
1.4	64QAM	1	5	20.30	20.41	20.43		
1.4	64QAM	3	0	20.30	20.47	20.34		
1.4	64QAM	3	1	20.34	20.49	20.37		
1.4	64QAM	3	3	20.33	20.46	20.44		
1.4	64QAM	6	0	19.19	19.30	19.26	20.8	3

Band 5 (Cellular Band)
Part 22H(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				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	22.59	22.55	22.54	23.8	0
10	QPSK	1	25	22.47	22.48	22.47		
10	QPSK	1	49	22.54	22.50	22.44		
10	QPSK	25	0	21.63	21.63	21.62	22.8	1
10	QPSK	25	12	21.70	21.62	21.63		
10	QPSK	25	25	21.65	21.66	21.64		
10	QPSK	50	0	21.69	21.65	21.64		
10	16QAM	1	0	21.98	21.94	21.94	22.8	1
10	16QAM	1	25	21.92	21.88	21.89		
10	16QAM	1	49	21.89	21.86	21.81		
10	16QAM	25	0	20.72	20.61	20.65	21.8	2
10	16QAM	25	12	20.78	20.63	20.63		
10	16QAM	25	25	20.75	20.68	20.66		
10	16QAM	50	0	20.78	20.62	20.61		
10	64QAM	1	0	20.81	20.76	20.76	21.8	2
10	64QAM	1	25	20.93	20.82	20.80		
10	64QAM	1	49	20.81	20.74	20.78		
10	64QAM	25	0	19.75	19.67	19.67	20.8	3
10	64QAM	25	12	19.85	19.69	19.67		
10	64QAM	25	25	19.78	19.71	19.68		
10	64QAM	50	0	19.85	19.66	19.66		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	22.56	22.57	22.57	23.8	0
5	QPSK	1	12	22.55	22.58	22.54		
5	QPSK	1	24	22.54	22.51	22.46		
5	QPSK	12	0	21.63	21.67	21.61	22.8	1
5	QPSK	12	7	21.68	21.69	21.59		
5	QPSK	12	13	21.61	21.60	21.59		
5	QPSK	25	0	21.67	21.61	21.58		
5	16QAM	1	0	21.84	21.89	21.93	22.8	1
5	16QAM	1	12	21.85	21.85	21.81		
5	16QAM	1	24	21.83	21.86	21.74		
5	16QAM	12	0	20.65	20.69	20.64	21.8	2
5	16QAM	12	7	20.69	20.69	20.61		
5	16QAM	12	13	20.64	20.65	20.60		
5	16QAM	25	0	20.70	20.65	20.56		
5	64QAM	1	0	20.79	20.82	20.82	21.8	2
5	64QAM	1	12	20.75	20.80	20.78		
5	64QAM	1	24	20.75	20.84	20.75		
5	64QAM	12	0	19.71	19.71	19.67	20.8	3
5	64QAM	12	7	19.76	19.76	19.66		
5	64QAM	12	13	19.70	19.68	19.66		
5	64QAM	25	0	19.71	19.63	19.59		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	22.45	22.47	22.49	23.8	0
3	QPSK	1	8	22.51	22.55	22.53		
3	QPSK	1	14	22.44	22.45	22.38		
3	QPSK	8	0	21.51	21.60	21.57	22.8	1
3	QPSK	8	4	21.57	21.67	21.54		
3	QPSK	8	7	21.51	21.56	21.54		
3	QPSK	15	0	21.56	21.58	21.50		
3	16QAM	1	0	21.79	21.82	21.80	22.8	1
3	16QAM	1	8	21.82	21.87	21.89		
3	16QAM	1	14	21.74	21.77	21.73		
3	16QAM	8	0	20.58	20.61	20.59	21.8	2
3	16QAM	8	4	20.62	20.71	20.60		
3	16QAM	8	7	20.59	20.61	20.59		
3	16QAM	15	0	20.59	20.65	20.54		
3	64QAM	1	0	20.67	20.72	20.72	21.8	2
3	64QAM	1	8	20.76	20.83	20.77		
3	64QAM	1	14	20.69	20.69	20.66		
3	64QAM	8	0	19.58	19.67	19.61	20.8	3
3	64QAM	8	4	19.62	19.71	19.58		
3	64QAM	8	7	19.55	19.67	19.60		
3	64QAM	15	0	19.57	19.64	19.54		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	22.36	22.43	22.38	23.8	0
1.4	QPSK	1	3	22.46	22.47	22.40		
1.4	QPSK	1	5	22.38	22.38	22.35		
1.4	QPSK	3	0	22.43	22.47	22.40		
1.4	QPSK	3	1	22.47	22.50	22.42		
1.4	QPSK	3	3	22.42	22.45	22.39		
1.4	QPSK	6	0	21.50	21.55	21.48	22.8	1
1.4	16QAM	1	0	21.66	21.78	21.72	22.8	1
1.4	16QAM	1	3	21.80	21.80	21.77		
1.4	16QAM	1	5	21.73	21.71	21.67		
1.4	16QAM	3	0	21.51	21.52	21.48		
1.4	16QAM	3	1	21.56	21.57	21.51		
1.4	16QAM	3	3	21.49	21.48	21.42		
1.4	16QAM	6	0	20.56	20.60	20.57	21.8	2
1.4	64QAM	1	0	20.60	20.70	20.66	21.8	2
1.4	64QAM	1	3	20.70	20.75	20.70		
1.4	64QAM	1	5	20.64	20.67	20.60		
1.4	64QAM	3	0	20.64	20.67	20.61		
1.4	64QAM	3	1	20.69	20.72	20.66		
1.4	64QAM	3	3	20.60	20.66	20.56		
1.4	64QAM	6	0	19.52	19.56	19.48	20.8	3

Band 7 (2600MHz Band)
Part 27

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	22.60	22.52	22.43	23.8	0
20	QPSK	1	49	22.57	22.46	22.31		
20	QPSK	1	99	22.56	22.46	22.26		
20	QPSK	50	0	21.68	21.64	21.52	22.8	1
20	QPSK	50	24	21.78	21.75	21.66		
20	QPSK	50	50	21.75	21.55	21.50		
20	QPSK	100	0	21.77	21.70	21.65		
20	16QAM	1	0	21.82	21.72	21.56	22.8	1
20	16QAM	1	49	21.86	21.77	21.50		
20	16QAM	1	99	21.80	21.72	21.47		
20	16QAM	50	0	20.64	20.54	20.35	21.8	2
20	16QAM	50	24	20.74	20.54	20.38		
20	16QAM	50	50	20.70	20.50	20.33		
20	16QAM	100	0	20.70	20.50	20.35		
20	64QAM	1	0	20.29	20.42	20.22	21.8	2
20	64QAM	1	49	20.39	20.48	20.18		
20	64QAM	1	99	20.46	20.36	20.13		
20	64QAM	50	0	19.30	19.36	19.21	20.8	3
20	64QAM	50	24	19.41	19.38	19.22		
20	64QAM	50	50	19.38	19.33	19.20		
20	64QAM	100	0	19.37	19.35	19.22		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	22.56	22.41	22.19	23.8	0
15	QPSK	1	37	22.54	22.43	22.16		
15	QPSK	1	74	22.55	22.40	22.19		
15	QPSK	36	0	21.69	21.53	21.34	22.8	1
15	QPSK	36	20	21.75	21.52	21.38		
15	QPSK	36	39	21.72	21.52	21.33		
15	QPSK	75	0	21.71	21.52	21.32		
15	16QAM	1	0	21.86	21.73	21.57	22.8	1
15	16QAM	1	37	21.85	21.79	21.53		
15	16QAM	1	74	21.79	21.73	21.45		
15	16QAM	36	0	20.69	20.53	20.34	21.8	2
15	16QAM	36	20	20.74	20.51	20.35		
15	16QAM	36	39	20.64	20.47	20.32		
15	16QAM	75	0	20.66	20.51	20.34		
15	64QAM	1	0	20.23	20.33	20.22	21.8	2
15	64QAM	1	37	20.35	20.43	20.23		
15	64QAM	1	74	20.31	20.35	20.13		
15	64QAM	36	0	19.31	19.32	19.18	20.8	3
15	64QAM	36	20	19.34	19.37	19.20		
15	64QAM	36	39	19.34	19.33	19.20		
15	64QAM	75	0	19.27	19.28	19.14		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	22.41	22.36	22.08	23.8	0
10	QPSK	1	25	22.46	22.35	21.99		
10	QPSK	1	49	22.47	22.34	22.06		
10	QPSK	25	0	21.68	21.46	21.28	22.8	1
10	QPSK	25	12	21.72	21.49	21.26		
10	QPSK	25	25	21.66	21.44	21.23		
10	QPSK	50	0	21.69	21.46	21.27		
10	16QAM	1	0	21.87	21.73	21.50	22.8	1
10	16QAM	1	25	21.84	21.69	21.46		
10	16QAM	1	49	21.84	21.75	21.48		
10	16QAM	25	0	20.64	20.46	20.28	21.8	2
10	16QAM	25	12	20.73	20.49	20.29		
10	16QAM	25	25	20.66	20.49	20.26		
10	16QAM	50	0	20.68	20.45	20.28		
10	64QAM	1	0	20.25	20.35	20.15	21.8	2
10	64QAM	1	25	20.35	20.47	20.14		
10	64QAM	1	49	20.34	20.37	20.05		
10	64QAM	25	0	19.24	19.28	19.11	20.8	3
10	64QAM	25	12	19.26	19.27	19.16		
10	64QAM	25	25	19.24	19.25	19.10		
10	64QAM	50	0	19.20	19.29	19.12		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	22.48	22.34	22.09	23.8	0
5	QPSK	1	12	22.53	22.42	22.07		
5	QPSK	1	24	22.54	22.36	22.07		
5	QPSK	12	0	21.66	21.49	21.26	22.8	1
5	QPSK	12	7	21.67	21.50	21.26		
5	QPSK	12	13	21.67	21.52	21.22		
5	QPSK	25	0	21.66	21.48	21.23		
5	16QAM	1	0	21.84	21.66	21.43	22.8	1
5	16QAM	1	12	21.87	21.65	21.39		
5	16QAM	1	24	21.88	21.72	21.46		
5	16QAM	12	0	20.70	20.48	20.27	21.8	2
5	16QAM	12	7	20.72	20.56	20.25		
5	16QAM	12	13	20.71	20.51	20.25		
5	16QAM	25	0	20.68	20.51	20.24		
5	64QAM	1	0	20.13	20.47	20.30	21.8	2
5	64QAM	1	12	20.45	20.50	20.26		
5	64QAM	1	24	20.37	20.52	20.34		
5	64QAM	12	0	19.31	19.38	19.16	20.8	3
5	64QAM	12	7	19.31	19.47	19.18		
5	64QAM	12	13	19.33	19.47	19.21		
5	64QAM	25	0	19.22	19.37	19.04		

Band 12 (700MHz Low Band)
Part 27F(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	22.47	22.46	22.58	23.8	0
10	QPSK	1	25	22.47	22.53	22.55		
10	QPSK	1	49	22.57	22.54	22.59		
10	QPSK	25	0	21.65	21.67	21.64	22.8	1
10	QPSK	25	12	21.69	21.66	21.70		
10	QPSK	25	25	21.72	21.70	21.70		
10	QPSK	50	0	21.74	21.65	21.74		
10	16QAM	1	0	21.84	21.84	21.99	22.8	1
10	16QAM	1	25	21.87	21.93	21.97		
10	16QAM	1	49	21.97	21.92	21.97		
10	16QAM	25	0	20.66	20.70	20.65	21.8	2
10	16QAM	25	12	20.72	20.67	20.73		
10	16QAM	25	25	20.62	20.67	20.66		
10	16QAM	50	0	20.73	20.67	20.72		
10	64QAM	1	0	20.66	20.69	20.77	21.8	2
10	64QAM	1	25	20.80	20.83	20.82		
10	64QAM	1	49	20.87	20.80	20.81		
10	64QAM	25	0	19.68	19.70	19.69	20.8	3
10	64QAM	25	12	19.76	19.71	19.76		
10	64QAM	25	25	19.75	19.74	19.71		
10	64QAM	50	0	19.68	19.70	19.76		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	22.52	22.56	22.49	23.8	0
5	QPSK	1	12	22.53	22.57	22.55		
5	QPSK	1	24	22.55	22.56	22.55		
5	QPSK	12	0	21.61	21.67	21.63	22.8	1
5	QPSK	12	7	21.64	21.64	21.67		
5	QPSK	12	13	21.62	21.68	21.66		
5	QPSK	25	0	21.63	21.64	21.65		
5	16QAM	1	0	21.81	21.83	21.88	22.8	1
5	16QAM	1	12	21.81	21.82	21.83		
5	16QAM	1	24	21.83	21.84	21.97		
5	16QAM	12	0	20.65	20.67	20.66	21.8	2
5	16QAM	12	7	20.69	20.65	20.72		
5	16QAM	12	13	20.63	20.68	20.67		
5	16QAM	25	0	20.67	20.66	20.69		
5	64QAM	1	0	20.74	20.83	20.78	21.8	2
5	64QAM	1	12	20.71	20.76	20.79		
5	64QAM	1	24	20.74	20.79	20.83		
5	64QAM	12	0	19.71	19.75	19.72	20.8	3
5	64QAM	12	7	19.75	19.74	19.75		
5	64QAM	12	13	19.72	19.71	19.75		
5	64QAM	25	0	19.67	19.67	19.72		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	22.45	22.54	22.54	23.8	0
3	QPSK	1	8	22.53	22.58	22.58		
3	QPSK	1	14	22.45	22.52	22.55		
3	QPSK	8	0	21.57	21.62	21.57	22.8	1
3	QPSK	8	4	21.63	21.61	21.65		
3	QPSK	8	7	21.60	21.62	21.60		
3	QPSK	15	0	21.59	21.57	21.55		
3	16QAM	1	0	21.84	21.84	21.82	22.8	1
3	16QAM	1	8	21.90	21.90	21.94		
3	16QAM	1	14	21.79	21.86	21.86		
3	16QAM	8	0	20.62	20.64	20.60	21.8	2
3	16QAM	8	4	20.67	20.67	20.70		
3	16QAM	8	7	20.61	20.67	20.67		
3	16QAM	15	0	20.64	20.61	20.61		
3	64QAM	1	0	20.70	20.75	20.73	21.8	2
3	64QAM	1	8	20.77	20.84	20.77		
3	64QAM	1	14	20.70	20.74	20.69		
3	64QAM	8	0	19.62	19.67	19.66	20.8	3
3	64QAM	8	4	19.70	19.70	19.71		
3	64QAM	8	7	19.65	19.71	19.66		
3	64QAM	15	0	19.63	19.64	19.60		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	22.33	22.40	22.44	23.8	0
1.4	QPSK	1	3	22.45	22.49	22.51		
1.4	QPSK	1	5	22.35	22.40	22.46		
1.4	QPSK	3	0	22.43	22.40	22.44		
1.4	QPSK	3	1	22.46	22.40	22.52		
1.4	QPSK	3	3	22.40	22.43	22.46		
1.4	QPSK	6	0	21.47	21.50	21.53	22.8	1
1.4	16QAM	1	0	21.67	21.73	21.73	22.8	1
1.4	16QAM	1	3	21.76	21.79	21.84		
1.4	16QAM	1	5	21.69	21.76	21.82		
1.4	16QAM	3	0	21.73	21.66	21.75		
1.4	16QAM	3	1	21.73	21.70	21.82		
1.4	16QAM	3	3	21.65	21.71	21.75		
1.4	16QAM	6	0	20.59	20.56	20.60	21.8	2
1.4	64QAM	1	0	20.60	20.58	20.64	21.8	2
1.4	64QAM	1	3	20.68	20.71	20.76		
1.4	64QAM	1	5	20.60	20.60	20.60		
1.4	64QAM	3	0	20.60	20.60	20.66		
1.4	64QAM	3	1	20.65	20.65	20.73		
1.4	64QAM	3	3	20.56	20.64	20.67		
1.4	64QAM	6	0	19.49	19.51	19.54	20.8	3

Band 17 (700MHz Band)
Part 27H(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				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	22.41	22.42	22.45	23.8	0
10	QPSK	1	25	22.48	22.49	22.43		
10	QPSK	1	49	22.54	22.53	22.55		
10	QPSK	25	0	21.51	21.52	21.49	22.8	1
10	QPSK	25	12	21.60	21.55	21.65		
10	QPSK	25	25	21.55	21.54	21.63		
10	QPSK	50	0	21.55	21.56	21.58		
10	16QAM	1	0	21.79	21.80	21.84	22.8	1
10	16QAM	1	25	21.90	21.85	21.84		
10	16QAM	1	49	21.92	21.89	21.84		
10	16QAM	25	0	20.51	20.50	20.51	21.8	2
10	16QAM	25	12	20.65	20.55	20.66		
10	16QAM	25	25	20.64	20.63	20.66		
10	16QAM	50	0	20.54	20.56	20.55		
10	64QAM	1	0	20.64	20.77	20.70	21.8	2
10	64QAM	1	25	20.82	20.81	20.77		
10	64QAM	1	49	20.75	20.82	20.83		
10	64QAM	25	0	19.54	19.54	19.50	20.8	3
10	64QAM	25	12	19.70	19.59	19.67		
10	64QAM	25	25	19.66	19.70	19.69		
10	64QAM	50	0	19.60	19.56	19.58		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	22.37	22.41	22.39	23.8	0
5	QPSK	1	12	22.47	22.49	22.47		
5	QPSK	1	24	22.53	22.53	22.54		
5	QPSK	12	0	21.48	21.49	21.46	22.8	1
5	QPSK	12	7	21.56	21.52	21.49		
5	QPSK	12	13	21.57	21.57	21.55		
5	QPSK	25	0	21.54	21.50	21.46		
5	16QAM	1	0	21.75	21.72	21.71	22.8	1
5	16QAM	1	12	21.79	21.79	21.72		
5	16QAM	1	24	21.85	21.84	21.82		
5	16QAM	12	0	20.49	20.52	20.51	21.8	2
5	16QAM	12	7	20.58	20.50	20.49		
5	16QAM	12	13	20.55	20.58	20.57		
5	16QAM	25	0	20.56	20.49	20.50		
5	64QAM	1	0	20.67	20.65	20.64	21.8	2
5	64QAM	1	12	20.70	20.69	20.66		
5	64QAM	1	24	20.79	20.82	20.74		
5	64QAM	12	0	19.53	19.59	19.56	20.8	3
5	64QAM	12	7	19.61	19.59	19.58		
5	64QAM	12	13	19.63	19.62	19.62		
5	64QAM	25	0	19.56	19.51	19.55		

Band 26 for FCC
(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	22.53	22.51	22.58	23.8	0
15	QPSK	1	37	22.51	22.57	22.52		
15	QPSK	1	74	22.53	22.54	22.47		
15	QPSK	36	0	21.57	21.63	21.62	22.8	1
15	QPSK	36	20	21.62	21.64	21.65		
15	QPSK	36	39	21.60	21.62	21.64		
15	QPSK	75	0	21.61	21.60	21.67		
15	16QAM	1	0	21.77	21.76	21.85	22.8	1
15	16QAM	1	37	21.73	21.77	21.78		
15	16QAM	1	74	21.77	21.71	21.72		
15	16QAM	36	0	20.53	20.56	20.58	21.8	2
15	16QAM	36	20	20.61	20.52	20.56		
15	16QAM	36	39	20.54	20.57	20.59		
15	16QAM	75	0	20.59	20.54	20.65		
15	64QAM	1	0	20.59	20.64	20.67	21.8	2
15	64QAM	1	37	20.67	20.68	20.68		
15	64QAM	1	74	20.63	20.63	20.57		
15	64QAM	36	0	19.56	19.62	19.61	20.8	3
15	64QAM	36	20	19.62	19.58	19.59		
15	64QAM	36	39	19.61	19.62	19.62		
15	64QAM	75	0	19.59	19.55	19.65		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	22.39	22.44	22.45	23.8	0
10	QPSK	1	25	22.38	22.46	22.46		
10	QPSK	1	49	22.43	22.44	22.40		
10	QPSK	25	0	21.48	21.53	21.51	22.8	1
10	QPSK	25	12	21.59	21.54	21.63		
10	QPSK	25	25	21.51	21.55	21.53		
10	QPSK	50	0	21.53	21.52	21.55		
10	16QAM	1	0	21.80	21.81	21.85	22.8	1
10	16QAM	1	25	21.79	21.85	21.81		
10	16QAM	1	49	21.86	21.84	21.77		
10	16QAM	25	0	20.52	20.53	20.51	21.8	2
10	16QAM	25	12	20.59	20.58	20.60		
10	16QAM	25	25	20.55	20.54	20.52		
10	16QAM	50	0	20.55	20.53	20.58		
10	64QAM	1	0	20.74	20.68	20.75	21.8	2
10	64QAM	1	25	20.73	20.72	20.79		
10	64QAM	1	49	20.72	20.70	20.73		
10	64QAM	25	0	19.55	19.57	19.56	20.8	3
10	64QAM	25	12	19.60	19.58	19.63		
10	64QAM	25	25	19.54	19.58	19.56		
10	64QAM	50	0	19.61	19.53	19.58		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	22.41	22.42	22.41	23.8	0
5	QPSK	1	12	22.46	22.46	22.39		
5	QPSK	1	24	22.37	22.44	22.40		
5	QPSK	12	0	21.47	21.53	21.47	22.8	1
5	QPSK	12	7	21.54	21.48	21.49		
5	QPSK	12	13	21.47	21.48	21.45		
5	QPSK	25	0	21.51	21.46	21.43		
5	16QAM	1	0	21.74	21.72	21.78	22.8	1
5	16QAM	1	12	21.78	21.79	21.77		
5	16QAM	1	24	21.70	21.76	21.75		
5	16QAM	12	0	20.48	20.56	20.52	21.8	2
5	16QAM	12	7	20.55	20.54	20.48		
5	16QAM	12	13	20.49	20.50	20.50		
5	16QAM	25	0	20.53	20.51	20.48		
5	64QAM	1	0	20.70	20.66	20.62	21.8	2
5	64QAM	1	12	20.68	20.67	20.68		
5	64QAM	1	24	20.66	20.69	20.62		
5	64QAM	12	0	19.54	19.59	19.57	20.8	3
5	64QAM	12	7	19.61	19.59	19.50		
5	64QAM	12	13	19.54	19.55	19.53		
5	64QAM	25	0	19.53	19.49	19.48		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	22.39	22.37	22.45	23.8	0
3	QPSK	1	8	22.48	22.51	22.45		
3	QPSK	1	14	22.43	22.45	22.36		
3	QPSK	8	0	21.43	21.47	21.52	22.8	1
3	QPSK	8	4	21.53	21.49	21.54		
3	QPSK	8	7	21.49	21.46	21.46		
3	QPSK	15	0	21.51	21.45	21.48		
3	16QAM	1	0	21.66	21.68	21.79	22.8	1
3	16QAM	1	8	21.81	21.78	21.79		
3	16QAM	1	14	21.71	21.76	21.70		
3	16QAM	8	0	20.55	20.56	20.55	21.8	2
3	16QAM	8	4	20.59	20.52	20.59		
3	16QAM	8	7	20.54	20.54	20.50		
3	16QAM	15	0	20.50	20.50	20.48		
3	64QAM	1	0	20.59	20.63	20.71	21.8	2
3	64QAM	1	8	20.73	20.77	20.74		
3	64QAM	1	14	20.67	20.69	20.62		
3	64QAM	8	0	19.53	19.55	19.57	20.8	3
3	64QAM	8	4	19.57	19.56	19.57		
3	64QAM	8	7	19.54	19.54	19.51		
3	64QAM	15	0	19.51	19.48	19.42		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	22.32	22.30	22.32	23.8	0
1.4	QPSK	1	3	22.41	22.41	22.35		
1.4	QPSK	1	5	22.30	22.28	22.25		
1.4	QPSK	3	0	22.39	22.33	22.33		
1.4	QPSK	3	1	22.42	22.35	22.39		
1.4	QPSK	3	3	22.35	22.39	22.32		
1.4	QPSK	6	0	21.43	21.38	21.38	22.8	1
1.4	16QAM	1	0	21.66	21.66	21.63	22.8	1
1.4	16QAM	1	3	21.71	21.75	21.68		
1.4	16QAM	1	5	21.64	21.62	21.56		
1.4	16QAM	3	0	21.48	21.43	21.43		
1.4	16QAM	3	1	21.48	21.48	21.47		
1.4	16QAM	3	3	21.45	21.48	21.36		
1.4	16QAM	6	0	20.52	20.45	20.47	21.8	2
1.4	64QAM	1	0	20.58	20.54	20.58	21.8	2
1.4	64QAM	1	3	20.62	20.65	20.60		
1.4	64QAM	1	5	20.55	20.52	20.50		
1.4	64QAM	3	0	20.56	20.52	20.53		
1.4	64QAM	3	1	20.60	20.55	20.60		
1.4	64QAM	3	3	20.56	20.58	20.49		
1.4	64QAM	6	0	19.43	19.39	19.40	20.8	3

Band 66

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	22.42	22.54	22.40	23.8	0
20	QPSK	1	49	22.23	22.40	22.27		
20	QPSK	1	99	22.19	22.32	22.16		
20	QPSK	50	0	21.38	21.44	21.39	22.8	1
20	QPSK	50	24	21.45	21.51	21.42		
20	QPSK	50	50	21.35	21.48	21.35		
20	QPSK	100	0	21.42	21.50	21.39		
20	16QAM	1	0	21.63	21.81	21.68	22.8	1
20	16QAM	1	49	21.62	21.74	21.58		
20	16QAM	1	99	21.61	21.66	21.50		
20	16QAM	50	0	20.37	20.48	20.37	21.8	2
20	16QAM	50	24	20.45	20.46	20.35		
20	16QAM	50	50	20.38	20.49	20.39		
20	16QAM	100	0	20.39	20.49	20.36		
20	64QAM	1	0	20.50	20.70	20.58	21.8	2
20	64QAM	1	49	20.47	20.56	20.46		
20	64QAM	1	99	20.46	20.51	20.42		
20	64QAM	50	0	19.39	19.50	19.39	20.8	3
20	64QAM	50	24	19.47	19.47	19.36		
20	64QAM	50	50	19.39	19.49	19.40		
20	64QAM	100	0	19.44	19.53	19.32		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	22.18	22.38	22.33	23.8	0
15	QPSK	1	37	22.16	22.31	22.22		
15	QPSK	1	74	22.12	22.26	22.16		
15	QPSK	36	0	21.23	21.39	21.31	22.8	1
15	QPSK	36	20	21.32	21.47	21.40		
15	QPSK	36	39	21.29	21.44	21.32		
15	QPSK	75	0	21.30	21.42	21.35		
15	16QAM	1	0	21.49	21.70	21.62	22.8	1
15	16QAM	1	37	21.56	21.66	21.57		
15	16QAM	1	74	21.46	21.56	21.53		
15	16QAM	36	0	20.24	20.40	20.31	21.8	2
15	16QAM	36	20	20.34	20.48	20.40		
15	16QAM	36	39	20.29	20.42	20.34		
15	16QAM	75	0	20.31	20.48	20.38		
15	64QAM	1	0	20.39	20.58	20.55	21.8	2
15	64QAM	1	37	20.44	20.61	20.48		
15	64QAM	1	74	20.32	20.51	20.34		
15	64QAM	36	0	19.26	19.47	19.37	20.8	3
15	64QAM	36	20	19.37	19.56	19.44		
15	64QAM	36	39	19.34	19.50	19.38		
15	64QAM	75	0	19.33	19.50	19.38		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	22.15	22.29	22.25	23.8	0
10	QPSK	1	25	22.13	22.28	22.25		
10	QPSK	1	49	22.11	22.23	22.18		
10	QPSK	25	0	21.20	21.38	21.28	22.8	1
10	QPSK	25	12	21.30	21.38	21.28		
10	QPSK	25	25	21.28	21.43	21.31		
10	QPSK	50	0	21.31	21.46	21.27		
10	16QAM	1	0	21.58	21.72	21.69	22.8	1
10	16QAM	1	25	21.50	21.69	21.67		
10	16QAM	1	49	21.42	21.61	21.53		
10	16QAM	25	0	20.24	20.41	20.28	21.8	2
10	16QAM	25	12	20.32	20.39	20.29		
10	16QAM	25	25	20.26	20.45	20.26		
10	16QAM	50	0	20.29	20.44	20.24		
10	64QAM	1	0	20.39	20.56	20.54	21.8	2
10	64QAM	1	25	20.42	20.55	20.61		
10	64QAM	1	49	20.37	20.58	20.48		
10	64QAM	25	0	19.26	19.44	19.30	20.8	3
10	64QAM	25	12	19.37	19.45	19.32		
10	64QAM	25	25	19.32	19.44	19.35		
10	64QAM	50	0	19.32	19.44	19.31		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	22.10	22.22	22.21	23.8	0
5	QPSK	1	12	22.20	22.35	22.26		
5	QPSK	1	24	22.15	22.32	22.23		
5	QPSK	12	0	21.29	21.36	21.28	22.8	1
5	QPSK	12	7	21.29	21.46	21.35		
5	QPSK	12	13	21.26	21.40	21.29		
5	QPSK	25	0	21.28	21.45	21.27		
5	16QAM	1	0	21.39	21.59	21.48	22.8	1
5	16QAM	1	12	21.45	21.63	21.56		
5	16QAM	1	24	21.44	21.61	21.53		
5	16QAM	12	0	20.30	20.44	20.30	21.8	2
5	16QAM	12	7	20.32	20.47	20.34		
5	16QAM	12	13	20.24	20.43	20.33		
5	16QAM	25	0	20.29	20.47	20.35		
5	64QAM	1	0	20.38	20.63	20.37	21.8	2
5	64QAM	1	12	20.36	20.49	20.47		
5	64QAM	1	24	20.30	20.39	20.47		
5	64QAM	12	0	19.32	19.44	19.31	20.8	3
5	64QAM	12	7	19.41	19.56	19.38		
5	64QAM	12	13	19.33	19.52	19.36		
5	64QAM	25	0	19.28	19.46	19.34		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	22.11	22.32	22.24	23.8	0
3	QPSK	1	8	22.21	22.40	22.34		
3	QPSK	1	14	22.14	22.34	22.28		
3	QPSK	8	0	21.27	21.38	21.29	22.8	1
3	QPSK	8	4	21.29	21.46	21.31		
3	QPSK	8	7	21.27	21.44	21.35		
3	QPSK	15	0	21.26	21.46	21.25		
3	16QAM	1	0	21.44	21.60	21.53	22.8	1
3	16QAM	1	8	21.52	21.69	21.67		
3	16QAM	1	14	21.48	21.59	21.57		
3	16QAM	8	0	20.32	20.42	20.35	21.8	2
3	16QAM	8	4	20.37	20.53	20.39		
3	16QAM	8	7	20.31	20.49	20.41		
3	16QAM	15	0	20.30	20.46	20.29		
3	64QAM	1	0	20.33	20.58	20.48	21.8	2
3	64QAM	1	8	20.47	20.60	20.56		
3	64QAM	1	14	20.34	20.53	20.51		
3	64QAM	8	0	19.35	19.46	19.35	20.8	3
3	64QAM	8	4	19.38	19.53	19.37		
3	64QAM	8	7	19.36	19.50	19.41		
3	64QAM	15	0	19.27	19.52	19.29		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	22.11	22.20	22.14	23.8	0
1.4	QPSK	1	3	22.25	22.28	22.20		
1.4	QPSK	1	5	22.17	22.18	22.14		
1.4	QPSK	3	0	22.19	22.25	22.17		
1.4	QPSK	3	1	22.18	22.26	22.20		
1.4	QPSK	3	3	22.18	22.23	22.17		
1.4	QPSK	6	0	21.16	21.33	21.19	22.8	1
1.4	16QAM	1	0	21.26	21.58	21.42	22.8	1
1.4	16QAM	1	3	21.42	21.60	21.52		
1.4	16QAM	1	5	21.32	21.50	21.49		
1.4	16QAM	3	0	21.14	21.34	21.27		
1.4	16QAM	3	1	21.20	21.37	21.31		
1.4	16QAM	3	3	21.13	21.31	21.22		
1.4	16QAM	6	0	20.24	20.38	20.31	21.8	2
1.4	64QAM	1	0	20.22	20.43	20.42	21.8	2
1.4	64QAM	1	3	20.32	20.48	20.49		
1.4	64QAM	1	5	20.27	20.38	20.41		
1.4	64QAM	3	0	20.26	20.45	20.41		
1.4	64QAM	3	1	20.28	20.51	20.45		
1.4	64QAM	3	3	20.26	20.42	20.39		
1.4	64QAM	6	0	19.15	19.33	19.25	20.8	3

Band 38(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	22.68	22.61	22.71	23.8	0
20	QPSK	1	49	22.70	22.70	22.78		
20	QPSK	1	99	22.79	22.69	22.75		
20	QPSK	50	0	21.92	21.63	21.86	22.8	1
20	QPSK	50	24	21.91	21.76	21.90		
20	QPSK	50	50	21.78	21.75	21.90		
20	QPSK	100	0	21.96	21.84	21.95		
20	16QAM	1	0	21.96	22.05	22.02	22.8	1
20	16QAM	1	49	22.04	21.85	22.06		
20	16QAM	1	99	21.99	21.94	21.88		
20	16QAM	50	0	20.77	20.72	20.86	21.8	2
20	16QAM	50	24	20.97	20.75	20.97		
20	16QAM	50	50	21.00	20.82	20.87		
20	16QAM	100	0	20.94	20.72	20.99		
20	64QAM	1	0	20.76	20.84	20.92	21.8	2
20	64QAM	1	49	20.88	20.78	21.11		
20	64QAM	1	99	21.05	20.75	20.77		
20	64QAM	50	0	19.85	19.66	19.81	20.8	3
20	64QAM	50	24	19.88	19.65	19.88		
20	64QAM	50	50	19.93	19.82	19.91		
20	64QAM	100	0	20.07	19.83	19.92		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	22.66	22.55	22.60	23.8	0
15	QPSK	1	37	22.74	22.65	22.75		
15	QPSK	1	74	22.75	22.57	22.65		
15	QPSK	36	0	21.92	21.67	21.88	22.8	1
15	QPSK	36	20	21.98	21.78	21.83		
15	QPSK	36	39	21.90	21.79	21.82		
15	QPSK	75	0	21.96	21.71	21.75		
15	16QAM	1	0	21.94	21.80	22.00	22.8	1
15	16QAM	1	37	21.92	21.83	22.19		
15	16QAM	1	74	22.04	21.80	21.95		
15	16QAM	36	0	20.90	20.69	20.85	21.8	2
15	16QAM	36	20	20.94	20.65	20.84		
15	16QAM	36	39	20.83	20.79	20.99		
15	16QAM	75	0	20.92	20.66	20.79		
15	64QAM	1	0	20.80	20.89	20.97	21.8	2
15	64QAM	1	37	20.88	20.83	20.99		
15	64QAM	1	74	20.83	20.78	20.87		
15	64QAM	36	0	19.82	19.66	19.86	20.8	3
15	64QAM	36	20	19.96	19.71	19.82		
15	64QAM	36	39	19.97	19.77	19.90		
15	64QAM	75	0	19.91	19.73	19.86		
Channel				37850	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	22.71	22.52	22.67	23.8	0
10	QPSK	1	25	22.67	22.55	22.69		
10	QPSK	1	49	22.68	22.66	22.70		
10	QPSK	25	0	21.87	21.66	21.86	22.8	1
10	QPSK	25	12	21.95	21.79	21.82		
10	QPSK	25	25	21.95	21.84	21.92		
10	QPSK	50	0	21.99	21.79	21.96		
10	16QAM	1	0	22.05	21.87	21.99	22.8	1
10	16QAM	1	25	22.08	21.94	22.17		
10	16QAM	1	49	22.16	22.07	22.12		
10	16QAM	25	0	20.83	20.64	20.90	21.8	2
10	16QAM	25	12	21.00	20.72	20.93		
10	16QAM	25	25	21.00	20.75	20.99		
10	16QAM	50	0	21.04	20.73	20.95		
10	64QAM	1	0	21.21	21.05	21.25	21.8	2
10	64QAM	1	25	21.24	21.08	20.97		
10	64QAM	1	49	21.43	20.96	20.94		
10	64QAM	25	0	19.85	19.72	19.87	20.8	3
10	64QAM	25	12	20.05	19.71	19.92		
10	64QAM	25	25	19.92	19.72	19.85		
10	64QAM	50	0	19.84	19.78	19.86		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	22.71	22.59	22.69	23.8	0
5	QPSK	1	12	22.72	22.58	22.70		
5	QPSK	1	24	22.71	22.59	22.61		
5	QPSK	12	0	21.83	21.76	21.88	22.8	1
5	QPSK	12	7	22.04	21.75	21.98		
5	QPSK	12	13	21.98	21.83	22.00		
5	QPSK	25	0	21.98	21.70	21.92		
5	16QAM	1	0	22.12	21.97	22.01	22.8	1
5	16QAM	1	12	22.11	21.86	22.15		
5	16QAM	1	24	22.10	22.03	22.16		
5	16QAM	12	0	20.92	20.72	20.92	21.8	2
5	16QAM	12	7	21.02	20.79	21.02		
5	16QAM	12	13	20.94	20.83	21.04		
5	16QAM	25	0	20.94	20.73	20.99		
5	64QAM	1	0	20.89	20.84	20.94	21.8	2
5	64QAM	1	12	21.04	20.84	21.06		
5	64QAM	1	24	21.09	20.92	21.08		
5	64QAM	12	0	19.87	19.72	19.87	20.8	3
5	64QAM	12	7	19.99	19.80	19.89		
5	64QAM	12	13	19.90	19.77	19.99		
5	64QAM	25	0	19.92	19.69	19.89		

Band 41 (2.6G Band)--Class 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.44	22.28	22.46	22.22	22.35	23.8	0
20	QPSK	1	49	22.43	22.32	22.41	22.32	22.26		
20	QPSK	1	99	22.45	22.36	22.51	22.40	22.37		
20	QPSK	50	0	21.55	21.45	21.47	21.32	21.40	22.8	1
20	QPSK	50	24	21.57	21.51	21.59	21.41	21.45		
20	QPSK	50	50	21.54	21.46	21.58	21.38	21.43		
20	QPSK	100	0	21.54	21.51	21.55	21.42	21.41		
20	16QAM	1	0	21.53	21.39	21.44	21.28	21.49	22.8	1
20	16QAM	1	49	21.48	21.35	21.39	21.31	21.24		
20	16QAM	1	99	21.46	21.42	21.52	21.43	21.30		
20	16QAM	50	0	20.57	20.33	20.40	20.28	20.35	21.8	2
20	16QAM	50	24	20.60	20.44	20.42	20.28	20.35		
20	16QAM	50	50	20.55	20.40	20.51	20.36	20.42		
20	16QAM	100	0	20.59	20.43	20.45	20.36	20.34		
20	64QAM	1	0	20.37	20.19	20.29	20.14	20.32	21.8	2
20	64QAM	1	49	20.29	20.12	20.28	20.32	20.38		
20	64QAM	1	99	20.35	20.40	20.40	20.31	19.98		
20	64QAM	50	0	19.65	19.60	19.46	19.47	19.51	20.8	3
20	64QAM	50	24	19.64	19.68	19.58	19.49	19.53		
20	64QAM	50	50	19.65	19.58	19.53	19.54	19.62		
20	64QAM	100	0	19.50	19.66	19.53	19.57	19.58		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	22.42	22.25	22.11	22.10	22.14	23.8	0
15	QPSK	1	37	22.36	22.21	22.15	22.15	22.20		
15	QPSK	1	74	22.34	22.31	22.27	22.27	22.33		
15	QPSK	36	0	21.53	21.35	21.22	21.23	21.30	22.8	1
15	QPSK	36	20	21.58	21.40	21.21	21.31	21.38		
15	QPSK	36	39	21.52	21.37	21.31	21.32	21.35		
15	QPSK	75	0	21.57	21.40	21.22	21.31	21.29		
15	16QAM	1	0	21.55	21.37	21.29	21.24	21.47	22.8	1
15	16QAM	1	37	21.35	21.16	21.24	21.17	21.14		
15	16QAM	1	74	21.49	21.52	21.41	21.48	21.37		
15	16QAM	36	0	20.50	20.30	20.18	20.19	20.26	21.8	2
15	16QAM	36	20	20.52	20.34	20.17	20.28	20.34		
15	16QAM	36	39	20.50	20.33	20.28	20.31	20.33		
15	16QAM	75	0	20.57	20.42	20.25	20.33	20.31		
15	64QAM	1	0	20.20	20.38	20.11	20.06	20.30	21.8	2
15	64QAM	1	37	20.37	20.27	20.12	20.19	20.18		
15	64QAM	1	74	20.33	20.45	20.22	20.40	20.15		
15	64QAM	36	0	19.55	19.59	19.40	19.41	19.52	20.8	3
15	64QAM	36	20	19.63	19.63	19.26	19.56	19.60		
15	64QAM	36	39	19.54	19.68	19.50	19.44	19.53		
15	64QAM	75	0	19.66	19.69	19.37	19.46	19.57		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	22.46	22.29	22.20	22.18	22.26	23.8	0
10	QPSK	1	25	22.42	22.24	22.18	22.16	22.25		
10	QPSK	1	49	22.39	22.19	22.15	22.30	22.19		
10	QPSK	25	0	21.58	21.29	21.24	21.25	21.41	22.8	1
10	QPSK	25	12	21.57	21.44	21.28	21.25	21.41		
10	QPSK	25	25	21.58	21.40	21.33	21.37	21.39		
10	QPSK	50	0	21.57	21.42	21.22	21.28	21.38		
10	16QAM	1	0	21.63	21.46	21.33	21.33	21.40	22.8	1
10	16QAM	1	25	21.57	21.42	21.35	21.33	21.38		
10	16QAM	1	49	21.60	21.39	21.32	21.38	21.37		
10	16QAM	25	0	20.56	20.31	20.21	20.25	20.37	21.8	2
10	16QAM	25	12	20.63	20.43	20.29	20.35	20.43		
10	16QAM	25	25	20.55	20.36	20.32	20.38	20.38		
10	16QAM	50	0	20.60	20.43	20.26	20.33	20.43		
10	64QAM	1	0	20.42	20.43	20.05	20.21	20.42	21.8	2
10	64QAM	1	25	20.40	20.41	20.12	20.20	20.38		
10	64QAM	1	49	20.22	20.31	20.18	20.34	20.45		
10	64QAM	25	0	19.69	19.71	19.43	19.51	19.72	20.8	3
10	64QAM	25	12	19.71	19.81	19.45	19.50	19.69		
10	64QAM	25	25	19.60	19.78	19.60	19.56	19.70		
10	64QAM	50	0	19.61	19.71	19.46	19.51	19.60		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	22.50	22.29	22.17	22.28	22.30	23.8	0
5	QPSK	1	12	22.44	22.26	22.24	22.26	22.26		
5	QPSK	1	24	22.46	22.31	22.23	22.29	22.26		
5	QPSK	12	0	21.60	21.43	21.30	21.40	21.40	22.8	1
5	QPSK	12	7	21.65	21.47	21.37	21.43	21.42		
5	QPSK	12	13	21.62	21.42	21.37	21.42	21.43		
5	QPSK	25	0	21.59	21.41	21.28	21.36	21.41		
5	16QAM	1	0	21.64	21.36	21.28	21.34	21.41	22.8	1
5	16QAM	1	12	21.68	21.44	21.42	21.44	21.46		
5	16QAM	1	24	21.64	21.48	21.44	21.44	21.41		
5	16QAM	12	0	20.59	20.40	20.25	20.38	20.41	21.8	2
5	16QAM	12	7	20.61	20.44	20.37	20.41	20.41		
5	16QAM	12	13	20.61	20.42	20.32	20.36	20.40		
5	16QAM	25	0	20.61	20.46	20.32	20.42	20.43		
5	64QAM	1	0	20.50	20.45	20.10	20.27	20.37	21.8	2
5	64QAM	1	12	20.33	20.52	20.16	20.27	20.31		
5	64QAM	1	24	20.41	20.55	20.20	20.34	20.25		
5	64QAM	12	0	19.60	19.71	19.39	19.58	19.57	20.8	3
5	64QAM	12	7	19.63	19.73	19.49	19.61	19.63		
5	64QAM	12	13	19.67	19.67	19.42	19.46	19.60		
5	64QAM	25	0	19.59	19.79	19.37	19.58	19.60		

Band 41 (2.6G Band) HPUE (Limit 27)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	24.97	25.18	25.31	25.49	25.54	26.8	0
20	QPSK	1	49	24.94	25.21	25.52	25.54	25.46		
20	QPSK	1	99	25.02	25.37	25.60	25.55	25.55		
20	QPSK	50	0	24.30	24.56	24.56	24.62	24.61	25.8	1
20	QPSK	50	24	24.33	24.63	24.68	24.67	24.67		
20	QPSK	50	50	24.26	24.59	24.67	24.64	24.64		
20	QPSK	100	0	24.33	24.62	24.71	24.70	24.67		
20	16QAM	1	0	24.35	24.63	24.68	24.96	24.99	25.8	1
20	16QAM	1	49	24.31	24.71	24.95	24.90	24.27		
20	16QAM	1	99	24.25	24.79	24.94	24.91	24.26		
20	16QAM	50	0	23.29	23.58	23.72	23.79	23.76	24.8	2
20	16QAM	50	24	23.26	23.59	23.65	23.73	23.76		
20	16QAM	50	50	23.35	23.62	23.68	23.75	23.76		
20	16QAM	100	0	23.23	23.68	23.68	23.65	23.75		
20	64QAM	1	0	23.30	23.48	23.11	23.75	23.79	24.8	2
20	64QAM	1	49	23.18	23.55	23.08	23.50	23.77		
20	64QAM	1	99	23.18	23.70	23.35	23.84	23.81		
20	64QAM	50	0	22.31	22.63	21.97	22.77	22.75	23.8	3
20	64QAM	50	24	22.37	22.64	22.09	22.74	22.56		
20	64QAM	50	50	22.25	22.64	22.18	22.74	22.03		
20	64QAM	100	0	22.36	22.62	21.97	22.67	22.78		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	25.00	25.40	25.27	25.53	25.52	26.8	0
15	QPSK	1	37	25.02	25.30	25.41	25.48	25.51		
15	QPSK	1	74	24.89	25.53	25.59	25.54	25.59		
15	QPSK	36	0	24.18	24.54	24.57	24.64	24.77	25.8	1
15	QPSK	36	20	24.25	24.62	24.66	24.63	24.70		
15	QPSK	36	39	24.17	24.53	24.76	24.74	24.79		
15	QPSK	75	0	24.24	24.52	24.69	24.64	24.71		
15	16QAM	1	0	24.49	24.72	24.55	24.86	24.89	25.8	1
15	16QAM	1	37	24.16	24.49	24.82	24.64	24.75		
15	16QAM	1	74	24.31	24.77	24.94	24.91	24.57		
15	16QAM	36	0	23.25	23.52	23.63	23.65	23.68	24.8	2
15	16QAM	36	20	23.25	23.54	23.69	23.64	23.73		
15	16QAM	36	39	23.18	23.64	23.70	23.72	23.60		
15	16QAM	75	0	23.31	23.61	23.66	23.62	23.63		
15	64QAM	1	0	23.20	23.59	23.24	23.73	23.89	24.8	2
15	64QAM	1	37	23.16	23.62	23.35	23.73	23.91		
15	64QAM	1	74	23.37	23.82	23.36	23.83	23.88		
15	64QAM	36	0	22.26	22.50	21.94	22.65	22.68	23.8	3
15	64QAM	36	20	22.22	22.58	22.07	22.56	22.44		
15	64QAM	36	39	22.22	22.46	22.21	22.77	22.75		
15	64QAM	75	0	22.33	22.62	22.01	22.63	22.66		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	25.03	25.3	25.31	25.55	25.51	26.8	0
10	QPSK	1	25	25.02	25.34	25.51	25.41	25.55		
10	QPSK	1	49	25.16	25.46	25.57	25.57	25.54		
10	QPSK	25	0	24.19	24.52	24.66	24.64	24.79	25.8	1
10	QPSK	25	12	24.23	24.66	24.73	24.75	24.8		
10	QPSK	25	25	24.15	24.58	24.77	24.82	24.67		
10	QPSK	50	0	24.23	24.58	24.66	24.62	24.76		
10	16QAM	1	0	24.38	24.88	24.49	24.84	24.88	25.8	1
10	16QAM	1	25	24.44	24.84	24.86	24.85	24.97		
10	16QAM	1	49	24.51	24.82	25.01	24.79	24.78		
10	16QAM	25	0	23.3	23.58	23.58	23.72	23.91	24.8	2
10	16QAM	25	12	23.22	23.72	23.73	23.76	23.85		
10	16QAM	25	25	23.29	23.55	23.86	23.69	23.81		
10	16QAM	50	0	23.29	23.67	23.76	23.74	23.83		
10	64QAM	1	0	23.27	23.67	23.63	23.77	23.91	24.8	2
10	64QAM	1	25	23.50	23.89	23.99	24.12	24.09		
10	64QAM	1	49	23.46	23.73	23.14	23.86	23.86		
10	64QAM	25	0	22.29	22.56	22.58	22.80	22.89	23.8	3
10	64QAM	25	12	22.36	22.73	22.15	22.95	22.95		
10	64QAM	25	25	22.29	22.74	22.19	22.96	22.84		
10	64QAM	50	0	22.31	22.54	22.06	22.75	22.79		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	25.18	25.27	25.43	25.57	25.56	26.8	0
5	QPSK	1	12	25.07	25.26	25.48	25.58	25.52		
5	QPSK	1	24	25.05	25.41	25.58	25.52	25.49		
5	QPSK	12	0	24.19	24.51	24.74	24.71	24.69	25.8	1
5	QPSK	12	7	24.19	24.57	24.70	24.74	24.77		
5	QPSK	12	13	24.21	24.61	24.80	24.74	24.68		
5	QPSK	25	0	24.26	24.56	24.64	24.71	24.75		
5	16QAM	1	0	24.39	24.63	24.69	24.82	24.78	25.8	1
5	16QAM	1	12	24.38	24.68	24.76	24.88	24.85		
5	16QAM	1	24	24.39	24.75	24.80	24.83	24.76		
5	16QAM	12	0	23.33	23.58	23.71	23.80	23.78	24.8	2
5	16QAM	12	7	23.32	23.70	23.78	23.83	23.71		
5	16QAM	12	13	23.28	23.63	23.77	23.74	23.80		
5	16QAM	25	0	23.28	23.55	23.76	23.73	23.76		
5	64QAM	1	0	23.30	23.62	22.87	23.88	23.88	24.8	2
5	64QAM	1	12	23.40	23.63	22.95	23.90	23.85		
5	64QAM	1	24	23.43	23.71	23.08	23.87	23.85		
5	64QAM	12	0	22.33	22.63	22.02	22.84	22.84	23.8	3
5	64QAM	12	7	22.34	22.62	22.06	22.77	22.82		
5	64QAM	12	13	22.27	22.65	22.09	22.86	22.82		
5	64QAM	25	0	22.27	22.72	22.03	22.86	22.79		

Reduced power for Hotspot on-LAT

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	22.81	22.97	22.90	23.80	21.85	22.03	21.96	23.30
3GPP Rel 99	RMC 12.2Kbps	22.85	23.00	22.93	23.80	21.88	22.05	21.98	23.30
3GPP Rel 6	HSDPA Subtest-1	21.87	22.02	21.94	22.80	21.02	21.19	21.13	22.30
3GPP Rel 6	HSDPA Subtest-2	21.84	22.02	21.96	22.80	21.01	21.19	21.15	22.30
3GPP Rel 6	HSDPA Subtest-3	21.34	21.49	21.50	22.30	20.49	20.67	20.64	21.80
3GPP Rel 6	HSDPA Subtest-4	21.39	21.50	21.51	22.30	20.46	20.65	20.66	21.80
3GPP Rel 8	DC-HSDPA Subtest-1	21.74	21.91	21.85	22.80	20.92	21.06	21.03	22.30
3GPP Rel 8	DC-HSDPA Subtest-2	21.74	21.87	21.88	22.80	20.92	21.07	21.04	22.30
3GPP Rel 8	DC-HSDPA Subtest-3	21.19	21.38	21.40	22.30	20.36	20.54	20.56	21.80
3GPP Rel 8	DC-HSDPA Subtest-4	21.27	21.35	21.36	22.30	20.34	20.55	20.52	21.80
3GPP Rel 6	HSUPA Subtest-1	21.80	21.92	21.83	22.80	20.99	21.15	21.10	22.30
3GPP Rel 6	HSUPA Subtest-2	19.78	19.97	19.86	20.80	18.96	19.14	19.11	20.30
3GPP Rel 6	HSUPA Subtest-3	19.76	19.88	19.83	20.80	18.94	19.11	18.92	20.30
3GPP Rel 6	HSUPA Subtest-4	19.77	19.93	19.84	20.80	18.97	19.14	19.10	20.30
3GPP Rel 6	HSUPA Subtest-5	21.78	21.88	21.88	22.80	21.00	21.20	21.10	22.30
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.23	19.41	19.35	20.30	18.44	18.62	18.57	19.80

Band 4 (AWS Band)
Part 27L (only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	21.45	21.49	21.47	22.8	0
20	QPSK	1	49	21.31	21.32	21.34		
20	QPSK	1	99	21.24	21.24	21.32		
20	QPSK	50	0	21.42	21.42	21.40	22.8	0
20	QPSK	50	24	21.44	21.45	21.41		
20	QPSK	50	50	21.37	21.33	21.36		
20	QPSK	100	0	21.38	21.42	21.40		
20	16QAM	1	0	21.44	21.34	21.39	22.8	0
20	16QAM	1	49	21.44	21.44	21.39		
20	16QAM	1	99	21.26	21.29	21.43		
20	16QAM	50	0	20.37	20.35	20.35	21.8	1
20	16QAM	50	24	20.37	20.25	20.26		
20	16QAM	50	50	20.27	20.25	20.25		
20	16QAM	100	0	20.34	20.31	20.30		
20	64QAM	1	0	20.57	20.46	20.54	21.8	1
20	64QAM	1	49	20.40	20.32	20.45		
20	64QAM	1	99	20.31	20.22	20.28		
20	64QAM	50	0	19.38	19.35	19.35	20.8	2
20	64QAM	50	24	19.40	19.29	19.26		
20	64QAM	50	50	19.28	19.26	19.23		
20	64QAM	100	0	19.37	19.32	19.32		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	21.27	21.30	21.35	22.8	0
15	QPSK	1	37	21.12	21.11	21.12		
15	QPSK	1	74	21.09	21.07	21.13		
15	QPSK	36	0	21.30	21.30	21.28	22.8	0
15	QPSK	36	20	21.32	21.27	21.31		
15	QPSK	36	39	21.26	21.23	21.20		
15	QPSK	75	0	21.33	21.29	21.33		
15	16QAM	1	0	21.48	21.45	21.41	22.8	0
15	16QAM	1	37	21.38	21.24	21.25		
15	16QAM	1	74	21.29	21.17	21.35		
15	16QAM	36	0	20.34	20.33	20.31	21.8	1
15	16QAM	36	20	20.35	20.30	20.30		
15	16QAM	36	39	20.26	20.25	20.26		
15	16QAM	75	0	20.33	20.31	20.30		
15	64QAM	1	0	20.38	20.50	20.51	21.8	1
15	64QAM	1	37	20.47	20.36	20.29		
15	64QAM	1	74	20.35	20.28	20.35		
15	64QAM	36	0	19.33	19.35	19.32	20.8	2
15	64QAM	36	20	19.35	19.33	19.34		
15	64QAM	36	39	19.31	19.29	19.26		
15	64QAM	75	0	19.36	19.33	19.31		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	21.16	21.18	21.13	22.8	0
10	QPSK	1	25	21.19	21.19	21.18		
10	QPSK	1	49	21.13	21.17	21.24		
10	QPSK	25	0	21.20	21.20	21.24	22.8	0
10	QPSK	25	12	21.33	21.24	21.29		
10	QPSK	25	25	21.33	21.31	21.33		
10	QPSK	50	0	21.37	21.34	21.32		
10	16QAM	1	0	21.43	21.41	21.44	22.8	0
10	16QAM	1	25	21.32	21.34	21.44		
10	16QAM	1	49	21.44	21.34	21.47		
10	16QAM	25	0	20.21	20.23	20.26	21.8	1
10	16QAM	25	12	20.34	20.23	20.27		
10	16QAM	25	25	20.31	20.28	20.30		
10	16QAM	50	0	20.33	20.32	20.34		
10	64QAM	1	0	20.49	20.42	20.38	21.8	1
10	64QAM	1	25	20.53	20.47	20.45		
10	64QAM	1	49	20.49	20.44	20.46		
10	64QAM	25	0	19.29	19.25	19.28	20.8	2
10	64QAM	25	12	19.37	19.26	19.30		
10	64QAM	25	25	19.36	19.30	19.35		
10	64QAM	50	0	19.38	19.37	19.34		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	21.23	21.23	21.26	22.8	0
5	QPSK	1	12	21.29	21.32	21.36		
5	QPSK	1	24	21.35	21.33	21.39		
5	QPSK	12	0	21.21	21.15	21.10	22.8	0
5	QPSK	12	7	21.21	21.23	21.23		
5	QPSK	12	13	21.22	21.21	21.24		
5	QPSK	25	0	21.21	21.18	21.21		
5	16QAM	1	0	21.40	21.37	21.40	22.8	0
5	16QAM	1	12	21.34	21.39	21.46		
5	16QAM	1	24	21.43	21.48	21.44		
5	16QAM	12	0	20.41	20.33	20.33	21.8	1
5	16QAM	12	7	20.45	20.44	20.45		
5	16QAM	12	13	20.43	20.39	20.48		
5	16QAM	25	0	20.43	20.40	20.46		
5	64QAM	1	0	20.57	20.49	20.56	21.8	1
5	64QAM	1	12	20.49	20.55	20.58		
5	64QAM	1	24	20.53	20.58	20.63		
5	64QAM	12	0	19.48	19.40	19.39	20.8	2
5	64QAM	12	7	19.49	19.47	19.52		
5	64QAM	12	13	19.50	19.47	19.49		
5	64QAM	25	0	19.43	19.43	19.43		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	21.24	21.23	21.22	22.8	0
3	QPSK	1	8	21.38	21.33	21.39		
3	QPSK	1	14	21.31	21.30	21.37		
3	QPSK	8	0	21.39	21.28	21.26	22.8	0
3	QPSK	8	4	21.37	21.41	21.44		
3	QPSK	8	7	21.35	21.34	21.42		
3	QPSK	15	0	21.36	21.33	21.30		
3	16QAM	1	0	21.39	21.32	21.44	22.8	0
3	16QAM	1	8	21.42	21.48	21.40		
3	16QAM	1	14	21.43	21.48	21.45		
3	16QAM	8	0	20.30	20.23	20.28	21.8	1
3	16QAM	8	4	20.34	20.34	20.41		
3	16QAM	8	7	20.32	20.31	20.35		
3	16QAM	15	0	20.30	20.26	20.23		
3	64QAM	1	0	20.39	20.39	20.35	21.8	1
3	64QAM	1	8	20.51	20.49	20.53		
3	64QAM	1	14	20.39	20.46	20.46		
3	64QAM	8	0	19.32	19.27	19.26	20.8	2
3	64QAM	8	4	19.41	19.34	19.38		
3	64QAM	8	7	19.36	19.32	19.36		
3	64QAM	15	0	19.31	19.28	19.25		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	21.32	21.32	21.27	22.8	0
1.4	QPSK	1	3	21.37	21.41	21.41		
1.4	QPSK	1	5	21.33	21.31	21.39		
1.4	QPSK	3	0	21.34	21.32	21.33		
1.4	QPSK	3	1	21.37	21.37	21.45		
1.4	QPSK	3	3	21.35	21.33	21.44		
1.4	QPSK	6	0	21.41	21.41	21.47	22.8	0
1.4	16QAM	1	0	21.33	21.30	21.29	22.8	0
1.4	16QAM	1	3	21.40	21.46	21.40		
1.4	16QAM	1	5	21.32	21.35	21.35		
1.4	16QAM	3	0	21.09	21.11	21.16		
1.4	16QAM	3	1	21.14	21.16	21.30		
1.4	16QAM	3	3	21.07	21.08	21.28		
1.4	16QAM	6	0	20.53	20.51	20.60	21.8	1
1.4	64QAM	1	0	20.57	20.59	20.65	21.8	1
1.4	64QAM	1	3	20.64	20.65	20.78		
1.4	64QAM	1	5	20.58	20.59	20.73		
1.4	64QAM	3	0	20.54	20.56	20.55		
1.4	64QAM	3	1	20.60	20.61	20.62		
1.4	64QAM	3	3	20.55	20.60	20.60		
1.4	64QAM	6	0	19.41	19.45	19.50	20.8	2

Band 7 (2600MHz Band)
Part 27

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	21.67	21.62	21.64	22.8	0
20	QPSK	1	49	21.62	21.63	21.58		
20	QPSK	1	99	21.58	21.56	21.54		
20	QPSK	50	0	21.51	21.51	21.44	22.8	0
20	QPSK	50	24	21.64	21.58	21.60		
20	QPSK	50	50	21.60	21.57	21.56		
20	QPSK	100	0	21.61	21.60	21.52		
20	16QAM	1	0	21.61	21.59	21.54	22.8	0
20	16QAM	1	49	21.64	21.64	21.62		
20	16QAM	1	99	21.67	21.65	21.58		
20	16QAM	50	0	20.67	20.69	20.65	21.8	1
20	16QAM	50	24	20.79	20.73	20.75		
20	16QAM	50	50	20.78	20.82	20.75		
20	16QAM	100	0	20.73	20.77	20.65		
20	64QAM	1	0	20.80	20.76	20.73	21.8	1
20	64QAM	1	49	20.83	20.85	20.76		
20	64QAM	1	99	20.85	20.87	20.33		
20	64QAM	50	0	19.72	19.71	19.66	20.8	2
20	64QAM	50	24	19.76	19.74	19.79		
20	64QAM	50	50	19.82	19.82	19.78		
20	64QAM	100	0	19.80	19.79	19.67		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	21.61	21.61	21.57	22.8	0
15	QPSK	1	37	21.59	21.64	21.59		
15	QPSK	1	74	21.66	21.66	21.65		
15	QPSK	36	0	21.46	21.49	21.46	22.8	0
15	QPSK	36	20	21.57	21.55	21.55		
15	QPSK	36	39	21.54	21.59	21.56		
15	QPSK	75	0	21.52	21.55	21.45		
15	16QAM	1	0	21.59	21.63	21.62	22.8	0
15	16QAM	1	37	21.62	21.64	21.62		
15	16QAM	1	74	21.56	21.22	21.60		
15	16QAM	36	0	20.67	20.70	20.63	21.8	1
15	16QAM	36	20	20.76	20.78	20.76		
15	16QAM	36	39	20.74	20.78	20.76		
15	16QAM	75	0	20.75	20.78	20.65		
15	64QAM	1	0	20.72	20.77	20.73	21.8	1
15	64QAM	1	37	20.85	20.86	20.85		
15	64QAM	1	74	20.78	20.90	20.81		
15	64QAM	36	0	19.67	19.72	19.68	20.8	2
15	64QAM	36	20	19.78	19.82	19.81		
15	64QAM	36	39	19.78	19.82	19.81		
15	64QAM	75	0	19.76	19.78	19.67		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	21.46	21.48	21.45	22.8	0
10	QPSK	1	25	21.49	21.52	21.47		
10	QPSK	1	49	21.51	21.55	21.52		
10	QPSK	25	0	21.35	21.44	21.41	22.8	0
10	QPSK	25	12	21.49	21.54	21.53		
10	QPSK	25	25	21.46	21.53	21.50		
10	QPSK	50	0	21.45	21.50	21.41		
10	16QAM	1	0	21.52	21.60	21.59	22.8	0
10	16QAM	1	25	21.54	21.60	21.57		
10	16QAM	1	49	21.58	21.64	21.63		
10	16QAM	25	0	20.56	20.65	20.61	21.8	1
10	16QAM	25	12	20.65	20.72	20.69		
10	16QAM	25	25	20.62	20.73	20.65		
10	16QAM	50	0	20.64	20.70	20.60		
10	64QAM	1	0	20.58	20.77	20.69	21.8	1
10	64QAM	1	25	20.69	20.86	20.74		
10	64QAM	1	49	20.74	20.90	20.41		
10	64QAM	25	0	19.57	19.65	19.65	20.8	2
10	64QAM	25	12	19.70	19.79	19.74		
10	64QAM	25	25	19.66	19.77	19.72		
10	64QAM	50	0	19.65	19.73	19.62		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	21.44	21.53	21.46	22.8	0
5	QPSK	1	12	21.53	21.64	21.59		
5	QPSK	1	24	21.50	21.58	21.54		
5	QPSK	12	0	21.35	21.46	21.44	22.8	0
5	QPSK	12	7	21.42	21.48	21.47		
5	QPSK	12	13	21.46	21.52	21.52		
5	QPSK	25	0	21.43	21.51	21.40		
5	16QAM	1	0	21.44	21.58	21.58	22.8	0
5	16QAM	1	12	21.52	21.64	21.63		
5	16QAM	1	24	21.53	21.62	21.60		
5	16QAM	12	0	20.58	20.67	20.65	21.8	1
5	16QAM	12	7	20.64	20.73	20.69		
5	16QAM	12	13	20.64	20.74	20.70		
5	16QAM	25	0	20.63	20.71	20.62		
5	64QAM	1	0	20.71	20.76	20.79	21.8	1
5	64QAM	1	12	20.71	20.79	20.82		
5	64QAM	1	24	20.75	20.89	20.87		
5	64QAM	12	0	19.63	19.76	19.71	20.8	2
5	64QAM	12	7	19.71	19.80	19.73		
5	64QAM	12	13	19.69	19.76	19.76		
5	64QAM	25	0	19.65	19.74	19.67		

Band 66

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	21.39	21.48	21.45	22.8	0
20	QPSK	1	49	21.34	21.44	21.43		
20	QPSK	1	99	21.26	21.34	21.37		
20	QPSK	50	0	21.37	21.34	21.40	22.8	0
20	QPSK	50	24	21.39	21.44	21.43		
20	QPSK	50	50	21.35	21.38	21.42		
20	QPSK	100	0	21.37	21.43	21.40		
20	16QAM	1	0	21.44	21.43	21.46	22.8	0
20	16QAM	1	49	21.47	21.43	21.44		
20	16QAM	1	99	21.37	21.44	21.43		
20	16QAM	50	0	20.26	20.33	20.39	21.8	1
20	16QAM	50	24	20.35	20.29	20.33		
20	16QAM	50	50	20.24	20.32	20.33		
20	16QAM	100	0	20.28	20.34	20.27		
20	64QAM	1	0	20.39	20.56	20.48	21.8	1
20	64QAM	1	49	20.34	20.40	20.48		
20	64QAM	1	99	20.33	20.45	20.41		
20	64QAM	50	0	19.28	19.33	19.38	20.8	2
20	64QAM	50	24	19.34	19.32	19.36		
20	64QAM	50	50	19.36	19.31	19.36		
20	64QAM	100	0	19.30	19.34	19.32		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	21.15	21.26	21.34	22.8	0
15	QPSK	1	37	21.18	21.20	21.21		
15	QPSK	1	74	21.07	21.13	21.17		
15	QPSK	36	0	21.18	21.32	21.36	22.8	0
15	QPSK	36	20	21.29	21.38	21.33		
15	QPSK	36	39	21.24	21.26	21.32		
15	QPSK	75	0	21.26	21.33	21.28		
15	16QAM	1	0	21.37	21.47	21.40	22.8	0
15	16QAM	1	37	21.47	21.47	21.46		
15	16QAM	1	74	21.30	21.28	21.40		
15	16QAM	36	0	20.20	20.31	20.35	21.8	1
15	16QAM	36	20	20.32	20.39	20.34		
15	16QAM	36	39	20.24	20.29	20.33		
15	16QAM	75	0	20.27	20.39	20.30		
15	64QAM	1	0	20.38	20.48	20.49	21.8	1
15	64QAM	1	37	20.50	20.44	20.46		
15	64QAM	1	74	20.34	20.33	20.30		
15	64QAM	36	0	19.28	19.34	19.36	20.8	2
15	64QAM	36	20	19.38	19.41	19.37		
15	64QAM	36	39	19.30	19.39	19.36		
15	64QAM	75	0	19.29	19.39	19.39		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	21.12	21.18	21.27	22.8	0
10	QPSK	1	25	21.19	21.22	21.20		
10	QPSK	1	49	21.15	21.15	21.19		
10	QPSK	25	0	21.19	21.28	21.31	22.8	0
10	QPSK	25	12	21.26	21.36	21.32		
10	QPSK	25	25	21.22	21.31	21.33		
10	QPSK	50	0	21.27	21.33	21.31		
10	16QAM	1	0	21.45	21.46	21.44	22.8	0
10	16QAM	1	25	21.38	21.47	21.42		
10	16QAM	1	49	21.38	21.47	21.42		
10	16QAM	25	0	20.21	20.30	20.33	21.8	1
10	16QAM	25	12	20.31	20.35	20.33		
10	16QAM	25	25	20.22	20.28	20.31		
10	16QAM	50	0	20.30	20.36	20.30		
10	64QAM	1	0	20.29	20.45	20.55	21.8	1
10	64QAM	1	25	20.39	20.46	20.64		
10	64QAM	1	49	20.32	20.44	20.48		
10	64QAM	25	0	19.24	19.31	19.35	20.8	2
10	64QAM	25	12	19.33	19.44	19.37		
10	64QAM	25	25	19.33	19.37	19.38		
10	64QAM	50	0	19.33	19.38	19.40		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	21.08	21.21	21.27	22.8	0
5	QPSK	1	12	21.16	21.24	21.26		
5	QPSK	1	24	21.13	21.18	21.26		
5	QPSK	12	0	21.18	21.30	21.33	22.8	0
5	QPSK	12	7	21.29	21.35	21.42		
5	QPSK	12	13	21.25	21.30	21.32		
5	QPSK	25	0	21.23	21.29	21.35		
5	16QAM	1	0	21.33	21.42	21.41	22.8	0
5	16QAM	1	12	21.31	21.37	21.45		
5	16QAM	1	24	21.32	21.35	21.43		
5	16QAM	12	0	20.23	20.33	20.35	21.8	1
5	16QAM	12	7	20.31	20.39	20.38		
5	16QAM	12	13	20.23	20.32	20.37		
5	16QAM	25	0	20.28	20.36	20.41		
5	64QAM	1	0	20.34	20.48	20.44	21.8	1
5	64QAM	1	12	20.38	20.34	20.44		
5	64QAM	1	24	20.27	20.33	20.37		
5	64QAM	12	0	19.26	19.34	19.42	20.8	2
5	64QAM	12	7	19.39	19.42	19.45		
5	64QAM	12	13	19.32	19.42	19.41		
5	64QAM	25	0	19.26	19.38	19.41		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	21.10	21.20	21.27	22.8	0
3	QPSK	1	8	21.21	21.33	21.38		
3	QPSK	1	14	21.19	21.26	21.30		
3	QPSK	8	0	21.22	21.28	21.30	22.8	0
3	QPSK	8	4	21.27	21.35	21.41		
3	QPSK	8	7	21.24	21.32	21.36		
3	QPSK	15	0	21.26	21.34	21.37		
3	16QAM	1	0	21.33	21.40	21.43	22.8	0
3	16QAM	1	8	21.40	21.41	21.45		
3	16QAM	1	14	21.36	21.47	21.46		
3	16QAM	8	0	20.27	20.34	20.36	21.8	1
3	16QAM	8	4	20.35	20.40	20.46		
3	16QAM	8	7	20.30	20.35	20.41		
3	16QAM	15	0	20.28	20.35	20.39		
3	64QAM	1	0	20.34	20.48	20.49	21.8	1
3	64QAM	1	8	20.50	20.51	20.57		
3	64QAM	1	14	20.32	20.41	20.50		
3	64QAM	8	0	19.30	19.33	19.36	20.8	2
3	64QAM	8	4	19.37	19.48	19.47		
3	64QAM	8	7	19.36	19.39	19.42		
3	64QAM	15	0	19.26	19.42	19.39		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	21.01	21.18	21.19	22.8	0
1.4	QPSK	1	3	21.16	21.24	21.23		
1.4	QPSK	1	5	21.06	21.20	21.19		
1.4	QPSK	3	0	21.09	21.19	21.22		
1.4	QPSK	3	1	21.12	21.18	21.24		
1.4	QPSK	3	3	21.11	21.18	21.22		
1.4	QPSK	6	0	21.17	21.28	21.30	22.8	0
1.4	16QAM	1	0	21.24	21.36	21.42	22.8	0
1.4	16QAM	1	3	21.36	21.40	21.45		
1.4	16QAM	1	5	21.27	21.33	21.36		
1.4	16QAM	3	0	21.14	21.28	21.28		
1.4	16QAM	3	1	21.21	21.33	21.35		
1.4	16QAM	3	3	21.15	21.26	21.27		
1.4	16QAM	6	0	20.20	20.32	20.37	21.8	1
1.4	64QAM	1	0	20.20	20.45	20.41	21.8	1
1.4	64QAM	1	3	20.34	20.48	20.49		
1.4	64QAM	1	5	20.25	20.45	20.41		
1.4	64QAM	3	0	20.29	20.39	20.40		
1.4	64QAM	3	1	20.30	20.44	20.47		
1.4	64QAM	3	3	20.26	20.38	20.42		
1.4	64QAM	6	0	19.19	19.25	19.32	20.8	2

Reduced power for Handheld on-LAT

Band		WCDMA IV			Tune-up Limit (dBm)
TX Channel		1312	1413	1513	
Rx Channel		1537	1638	1738	
Frequency (MHz)		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	21.39	21.45	21.44	22.80
3GPP Rel 99	RMC 12.2Kbps	21.40	21.49	21.46	22.80
3GPP Rel 6	HSDPA Subtest-1	20.52	20.60	20.57	21.80
3GPP Rel 6	HSDPA Subtest-2	20.53	20.61	20.61	21.80
3GPP Rel 6	HSDPA Subtest-3	20.03	20.08	20.06	21.30
3GPP Rel 6	HSDPA Subtest-4	20.03	20.12	20.10	21.30
3GPP Rel 8	DC-HSDPA Subtest-1	20.40	20.48	20.48	21.80
3GPP Rel 8	DC-HSDPA Subtest-2	20.42	20.51	20.51	21.80
3GPP Rel 8	DC-HSDPA Subtest-3	19.90	19.96	19.96	21.30
3GPP Rel 8	DC-HSDPA Subtest-4	19.90	20.03	20.01	21.30
3GPP Rel 6	HSUPA Subtest-1	20.59	20.69	20.52	21.80
3GPP Rel 6	HSUPA Subtest-2	18.57	18.66	18.41	19.80
3GPP Rel 6	HSUPA Subtest-3	18.61	18.65	18.58	19.80
3GPP Rel 6	HSUPA Subtest-4	18.67	18.71	18.61	19.80
3GPP Rel 6	HSUPA Subtest-5	20.20	20.70	20.70	21.80
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.12	18.25	18.08	19.30

Band 7 (2600MHz Band) Part 27								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	18.74	18.69	18.71	19.8	0
20	QPSK	1	49	18.59	18.68	18.58		
20	QPSK	1	99	18.44	18.43	18.68		
20	QPSK	50	0	18.46	18.59	18.45	19.8	0
20	QPSK	50	24	18.71	18.65	18.69		
20	QPSK	50	50	18.59	18.68	18.67		
20	QPSK	100	0	18.68	18.62	18.66		
20	16QAM	1	0	18.20	18.48	18.53	19.8	0
20	16QAM	1	49	18.21	18.40	18.28		
20	16QAM	1	99	18.56	18.38	18.63		
20	16QAM	50	0	18.36	18.52	18.43	19.8	0
20	16QAM	50	24	18.36	18.52	18.40		
20	16QAM	50	50	18.37	18.59	18.35		
20	16QAM	100	0	18.51	18.60	18.48		
20	64QAM	1	0	18.50	18.41	18.31	19.8	0
20	64QAM	1	49	18.59	18.44	18.63		
20	64QAM	1	99	18.47	18.62	18.49		
20	64QAM	50	0	18.25	18.49	18.38	19.8	0
20	64QAM	50	24	18.39	18.42	18.55		
20	64QAM	50	50	18.61	18.52	18.53		
20	64QAM	100	0	18.40	18.28	18.49		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	18.40	18.57	18.53	19.8	0
15	QPSK	1	37	18.49	18.34	18.33		
15	QPSK	1	74	18.48	18.41	18.47		
15	QPSK	36	0	18.54	18.36	18.35	19.8	0
15	QPSK	36	20	18.64	18.49	18.67		
15	QPSK	36	39	18.61	18.43	18.51		
15	QPSK	75	0	18.52	18.59	18.32		
15	16QAM	1	0	18.70	18.51	18.49	19.8	0
15	16QAM	1	37	18.72	18.51	18.40		
15	16QAM	1	74	18.53	18.70	18.56		
15	16QAM	36	0	18.54	18.39	18.54	19.8	0
15	16QAM	36	20	18.56	18.64	18.45		
15	16QAM	36	39	18.67	18.48	18.53		
15	16QAM	75	0	18.65	18.72	18.33		
15	64QAM	1	0	18.47	18.51	18.67	19.8	0
15	64QAM	1	37	18.53	18.65	18.59		
15	64QAM	1	74	18.61	18.69	18.72		
15	64QAM	36	0	18.70	18.60	18.36	19.8	0
15	64QAM	36	20	18.60	18.59	18.71		
15	64QAM	36	39	18.47	18.55	18.43		
15	64QAM	75	0	18.46	18.58	18.64		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	18.47	18.23	18.34	19.8	0
10	QPSK	1	25	18.48	18.53	18.46		
10	QPSK	1	49	18.26	18.57	18.35		
10	QPSK	25	0	18.37	18.50	18.54	19.8	0
10	QPSK	25	12	18.71	18.46	18.52		
10	QPSK	25	25	18.69	18.73	18.55		
10	QPSK	50	0	18.48	18.69	18.61		
10	16QAM	1	0	18.62	18.66	18.37	19.8	0
10	16QAM	1	25	18.65	18.38	18.31		
10	16QAM	1	49	18.48	18.33	18.57		
10	16QAM	25	0	18.66	18.65	18.49	19.8	0
10	16QAM	25	12	18.57	18.36	18.39		
10	16QAM	25	25	18.61	18.47	18.51		
10	16QAM	50	0	18.68	18.72	18.46		
10	64QAM	1	0	18.66	18.37	18.60	19.8	0
10	64QAM	1	25	18.65	18.57	18.70		
10	64QAM	1	49	18.50	18.67	18.50		
10	64QAM	25	0	18.68	18.37	18.31	19.8	0
10	64QAM	25	12	18.69	18.40	18.49		
10	64QAM	25	25	18.63	18.72	18.43		
10	64QAM	50	0	18.47	18.48	18.53		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	18.06	18.19	18.39	19.8	0
5	QPSK	1	12	18.22	18.26	18.34		
5	QPSK	1	24	18.36	18.18	18.45		
5	QPSK	12	0	18.14	18.20	18.50	19.8	0
5	QPSK	12	7	18.21	18.40	18.22		
5	QPSK	12	13	18.44	18.37	18.34		
5	QPSK	25	0	18.51	18.31	18.48		
5	16QAM	1	0	18.43	18.34	18.26	19.8	0
5	16QAM	1	12	18.24	18.45	18.55		
5	16QAM	1	24	18.55	18.47	18.26		
5	16QAM	12	0	18.20	18.22	18.50	19.8	0
5	16QAM	12	7	18.37	18.52	18.28		
5	16QAM	12	13	18.51	18.42	18.38		
5	16QAM	25	0	18.50	18.42	18.31		
5	64QAM	1	0	18.71	18.39	18.50	19.8	0
5	64QAM	1	12	18.42	18.70	18.28		
5	64QAM	1	24	18.57	18.56	18.28		
5	64QAM	12	0	18.43	18.43	18.28	19.8	0
5	64QAM	12	7	18.57	18.58	18.45		
5	64QAM	12	13	18.50	18.39	18.60		
5	64QAM	25	0	18.49	18.59	18.49		

Uplink CA power - UAT

CA_7C											
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					
20850	21048	QPSK	1	0	0	0	1	0	Full	22.41	23.50
21100	20902	QPSK	1	0	0	0	1	0	Full	22.50	23.50
21350	21152	QPSK	1	0	0	0	1	0	Full	22.45	23.50
20850	21048	16QAM	1	0	0	0	1	0	Full	21.80	22.50
21100	20902	16QAM	1	0	0	0	1	0	Full	21.90	22.50
21350	21152	16QAM	1	0	0	0	1	0	Full	21.86	22.50
20850	21048	64QAM	1	0	0	0	1	0	Full	20.90	21.50
21100	20902	64QAM	1	0	0	0	1	0	Full	20.95	21.50
21350	21152	64QAM	1	0	0	0	1	0	Full	20.92	21.50
20850	21048	QPSK	50	24	0	0	1	0	Reducd Power 1	15.03	16.00
21100	20902	QPSK	50	24	0	0	1	0	Reducd Power 1	15.12	16.00
21350	21152	QPSK	50	24	0	0	1	0	Reducd Power 1	15.11	16.00
20850	21048	QPSK	50	24	0	0	1	0	Reducd Power 2	13.05	14.00
21100	20902	QPSK	50	24	0	0	1	0	Reducd Power 2	13.11	14.00
21350	21152	QPSK	50	24	0	0	1	0	Reducd Power 2	13.10	14.00
20850	21048	QPSK	50	24	0	0	1	0	Hotspot on	19.45	20.50
21100	20902	QPSK	50	24	0	0	1	0	Hotspot on	19.48	20.50
21350	21152	QPSK	50	24	0	0	1	0	Hotspot on	19.57	20.50
20850	21048	QPSK	50	24	0	0	1	0	Sensor on	17.16	18.00
21100	20902	QPSK	50	24	0	0	1	0	Sensor on	17.01	18.00
21350	21152	QPSK	50	24	0	0	1	0	Sensor on	17.10	18.00

CA_38C											
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					
37850	38048	QPSK	1	99	0	0	1	0	Full	22.84	23.50
37901	38099	QPSK	1	99	0	0	1	0	Full	22.83	23.50
38150	37952	QPSK	1	99	0	0	1	0	Full	22.90	23.50
37850	38048	16QAM	1	99	0	0	1	0	Full	22.22	22.50
37901	38099	16QAM	1	99	0	0	1	0	Full	22.24	22.50
38150	37952	16QAM	1	99	0	0	1	0	Full	22.26	22.50
37850	38048	64QAM	1	99	0	0	1	0	Full	20.87	21.50
37901	38099	64QAM	1	99	0	0	1	0	Full	20.92	21.50
38150	37952	64QAM	1	99	0	0	1	0	Full	21.09	21.50
37850	38048	QPSK	50	24	0	0	1	0	Reducd Power 1	17.58	18.00
37901	38099	QPSK	50	24	0	0	1	0	Reducd Power 1	17.61	18.00
38150	37952	QPSK	50	24	0	0	1	0	Reducd Power 1	17.65	18.00
37850	38048	QPSK	50	24	0	0	1	0	Reducd Power 2	16.62	17.00
37901	38099	QPSK	50	24	0	0	1	0	Reducd Power 2	16.71	17.00
38150	37952	QPSK	50	24	0	0	1	0	Reducd Power 2	16.73	17.00
37850	38048	QPSK	50	24	0	0	1	0	Hotspot on	21.92	22.50
37901	38099	QPSK	50	24	0	0	1	0	Hotspot on	21.94	22.50
38150	37952	QPSK	50	24	0	0	1	0	Hotspot on	22.00	22.50

CA_41C-Class 3											
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					
39790	39988	QPSK	1	99	0	0	1	0	Full	22.42	24.00
39750	39948	QPSK	1	99	0	0	1	0	Full	22.39	24.00
40185	39987	QPSK	1	99	0	0	1	0	Full	22.61	24.00
40620	40422	QPSK	1	99	0	0	1	0	Full	22.74	24.00
41055	40857	QPSK	1	99	0	0	1	0	Full	22.72	24.00
41490	41292	QPSK	1	99	0	0	1	0	Full	22.63	24.00
39790	39988	16QAM	1	99	0	0	1	0	Full	21.22	23.00
39750	39948	16QAM	1	99	0	0	1	0	Full	21.23	23.00
40185	39987	16QAM	1	99	0	0	1	0	Full	21.47	23.00
40620	40422	16QAM	1	99	0	0	1	0	Full	21.70	23.00
41055	40857	16QAM	1	99	0	0	1	0	Full	21.67	23.00
41490	41292	16QAM	1	99	0	0	1	0	Full	21.46	23.00
39790	39988	64QAM	1	99	0	0	1	0	Full	20.65	22.00
39750	39948	64QAM	1	99	0	0	1	0	Full	20.71	22.00
40185	39987	64QAM	1	99	0	0	1	0	Full	20.93	22.00
40620	40422	64QAM	1	99	0	0	1	0	Full	20.95	22.00
41055	40857	64QAM	1	99	0	0	1	0	Full	20.88	22.00
41490	41292	64QAM	1	99	0	0	1	0	Full	20.75	22.00
39790	39988	QPSK	50	24	0	0	1	0	Reducd Power 1	17.11	18.50
39750	39948	QPSK	50	24	0	0	1	0	Reducd Power 1	16.93	18.50
40185	39987	QPSK	50	24	0	0	1	0	Reducd Power 1	17.29	18.50
40620	40422	QPSK	50	24	0	0	1	0	Reducd Power 1	17.35	18.50
41055	40857	QPSK	50	24	0	0	1	0	Reducd Power 1	17.27	18.50
41490	41292	QPSK	50	24	0	0	1	0	Reducd Power 1	17.34	18.50
39790	39988	QPSK	50	24	0	0	1	0	Reducd Power 2	16.45	17.50
39750	39948	QPSK	50	24	0	0	1	0	Reducd Power 2	16.37	17.50
40185	39987	QPSK	50	24	0	0	1	0	Reducd Power 2	16.59	17.50
40620	40422	QPSK	50	24	0	0	1	0	Reducd Power 2	16.61	17.50
41055	40857	QPSK	50	24	0	0	1	0	Reducd Power 2	16.39	17.50
41490	41292	QPSK	50	24	0	0	1	0	Reducd Power 2	16.44	17.50
39790	39988	QPSK	50	24	0	0	1	0	Hotspot on	21.52	23.00
39750	39948	QPSK	50	24	0	0	1	0	Hotspot on	21.49	23.00
40185	39987	QPSK	50	24	0	0	1	0	Hotspot on	21.87	23.00
40620	40422	QPSK	50	24	0	0	1	0	Hotspot on	21.93	23.00
41055	40857	QPSK	50	24	0	0	1	0	Hotspot on	21.77	23.00
41490	41292	QPSK	50	24	0	0	1	0	Hotspot on	21.66	23.00

Uplink CA power - UAT

CA_7C											
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					
20850	21048	QPSK	1	0	0	0	1	0	Full	22.58	23.80
21100	20902	QPSK	1	0	0	0	1	0	Full	22.47	23.80
21350	21152	QPSK	1	0	0	0	1	0	Full	22.53	23.80
20850	21048	16QAM	1	0	0	0	1	0	Full	21.94	22.80
21100	20902	16QAM	1	0	0	0	1	0	Full	21.85	22.80
21350	21152	16QAM	1	0	0	0	1	0	Full	21.90	22.80
20850	21048	64QAM	1	0	0	0	1	0	Full	20.92	21.80
21100	20902	64QAM	1	0	0	0	1	0	Full	20.95	21.80
21350	21152	64QAM	1	0	0	0	1	0	Full	20.91	21.80
20850	21048	QPSK	1	0	0	0	1	0	Hotspot	21.55	22.80
21100	20902	QPSK	1	0	0	0	1	0	Hotspot	21.63	22.80
21350	21152	QPSK	1	0	0	0	1	0	Hotspot	21.79	22.80
20850	21048	QPSK	50	24	0	0	1	0	Sensor	18.68	19.80
21100	20902	QPSK	50	24	0	0	1	0	Sensor	18.74	19.80
21350	21152	QPSK	50	24	0	0	1	0	Sensor	18.82	19.80

CA_38C											
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					
37850	38048	QPSK	1	99	0	0	1	0	Full	22.72	23.80
37901	38099	QPSK	1	99	0	0	1	0	Full	22.70	23.80
38150	37952	QPSK	1	99	0	0	1	0	Full	22.75	23.80
37850	38048	16QAM	1	99	0	0	1	0	Full	22.18	22.80
37901	38099	16QAM	1	99	0	0	1	0	Full	22.13	22.80
38150	37952	16QAM	1	99	0	0	1	0	Full	22.07	22.80
37850	38048	64QAM	1	99	0	0	1	0	Full	20.85	21.80
37901	38099	64QAM	1	99	0	0	1	0	Full	20.91	21.80
38150	37952	64QAM	1	99	0	0	1	0	Full	20.99	21.80

CA_41C-Class 3											
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					
39790	39988	QPSK	1	99	0	0	1	0	Full	22.16	23.80
39750	39948	QPSK	1	99	0	0	1	0	Full	22.10	23.80
40185	39987	QPSK	1	99	0	0	1	0	Full	22.39	23.80
40620	40422	QPSK	1	99	0	0	1	0	Full	22.50	23.80
41055	40857	QPSK	1	99	0	0	1	0	Full	22.23	23.80
41490	41292	QPSK	1	99	0	0	1	0	Full	22.47	23.80
39790	39988	16QAM	1	99	0	0	1	0	Full	20.93	22.80
39750	39948	16QAM	1	99	0	0	1	0	Full	21.01	22.80
40185	39987	16QAM	1	99	0	0	1	0	Full	21.13	22.80
40620	40422	16QAM	1	99	0	0	1	0	Full	21.49	22.80
41055	40857	16QAM	1	99	0	0	1	0	Full	21.38	22.80
41490	41292	16QAM	1	99	0	0	1	0	Full	21.40	22.80
39790	39988	64QAM	1	99	0	0	1	0	Full	20.44	21.80
39750	39948	64QAM	1	99	0	0	1	0	Full	20.40	21.80
40185	39987	64QAM	1	99	0	0	1	0	Full	20.62	21.80
40620	40422	64QAM	1	99	0	0	1	0	Full	20.61	21.80
41055	40857	64QAM	1	99	0	0	1	0	Full	20.57	21.80
41490	41292	64QAM	1	99	0	0	1	0	Full	20.54	21.80

Downlink CA Full Power-UAT

2CC

Configure		CA Configuration (BCS)	PCC							SCC				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		2A-4A	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	22.31	22.37
		CA_7A-12A	7	20	2510	20850	QPSK	1	0	12	10	737.5	5095	22.50	22.51
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	12	10	737.5	5095	22.48	22.51
			12	10	711	23130	QPSK	1	49	7	20	2655	3100	22.62	22.81
		CA_7A-32A	7	20	2510	20850	QPSK	1	0	32	20	1474	10140	22.35	22.51
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	32	20	1474	10140	22.24	22.51
		CA_26A-41A	Band 26	15	841.5	26965	QPSK	1	0	41	20	2593	40620	22.56	22.72
			41	20	2593	40620	QPSK	1	99	26	15	876.5	8865	22.62	22.77
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	26	15	876.5	8865	22.58	22.77
Intra-Band	Non-Contiguous	CA_5A-5A	5	10	829	20450	QPSK	1	0	5	5	891.5	2625	22.81	22.87
		CA_7A-7A	7	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	22.48	22.51
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	22.41	22.51
		CA_41A-41A	41	20	2593	40620	QPSK	1	99	41	5	2687.5	41565	22.73	22.77
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	41	5	2687.5	41565	22.65	22.77
	Contiguous	CA_2C	2	20	1880	18900	QPSK	1	0	2	20	1979.80	1098	22.36	22.37
		CA_5B	5	10	829	20450	QPSK	1	0	5	10	883.90	2549	22.86	22.87
		CA_7C	7	20	2510	20850	QPSK	1	0	7	20	2660.20	3152	22.46	22.51
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	20	2660.20	3152	22.39	22.51
		CA_38C	38	20	2580	37850	QPSK	1	99	38	20	2599.80	38048	22.84	22.92
			38(4*4MIMO)	20	2580	37850	QPSK	1	99	38	20	2599.80	38048	22.70	22.92
		CA_66B	66	15	1745	132322	QPSK	1	0	66	5	2164.30	66979	22.25	22.36

3CC

Configure		CA Configuration (BCS)	PCC							SCC1				SCC2				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		CA_2A-2A-5A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	5	10	881.5	2525	22.36	22.37
			5	10	829	20450	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	22.81	22.87
		CA_2A-2A-12A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	12	10	737.5	5095	22.34	22.37
			12	10	711	23130	QPSK	1	49	2	20	1960	900	2	5	1987.5	1175	22.63	22.81
		CA_4A-4A-5A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	5	10	881.5	2525	22.33	22.36
			4(4*4MIMO)	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	5	10	881.5	2525	22.30	22.36
			5	10	829	20450	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	22.85	22.87
		CA_4A-4A-7A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	7	20	2655	3100	22.31	22.36
			7	20	2510	20850	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	22.35	22.51
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	22.27	22.51
		CA_4A-4A-12A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	12	10	737.5	5095	22.35	22.36
			4(4*4MIMO)	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	12	10	737.5	5095	22.27	22.36
			12	10	711	23130	QPSK	1	49	4	20	2132.5	2175	4	5	2152.5	2375	22.46	22.81
		CA_4A-7A-7A	4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	7	5	2687.5	3425	22.34	22.36
			7	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	4	20	2132.5	2175	22.42	22.51
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	4	20	2132.5	2175	22.38	22.51
		CA_4A-7A-12A	4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	12	10	737.5	5095	22.26	22.36
			7	20	2510	20850	QPSK	1	0	12	10	737.5	5095	4	20	2132.5	2175	22.45	22.51
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	12	10	737.5	5095	4	20	2132.5	2175	22.38	22.51
			12	10	711	23130	QPSK	1	49	4	20	2132.5	2175	7	20	2655	3100	22.78	22.81
		CA_5A-7A-7A	5	10	829	20450	QPSK	1	0	7	20	2680	3350	7	20	2630	2850	22.79	22.87
			7	20	2510	20850	QPSK	1	0	7	10	2645	3000	5	10	881.5	2525	22.45	22.51
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	10	2645	3000	5	10	881.5	2525	22.37	22.51
		CA_5A-66A-66A	5	10	829	20450	QPSK	1	0	66	20	2155	66886	66	5	2197.5	67311	22.74	22.87
			66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	5	10	881.5	2525	22.25	22.36
		CA_5A-66C	5	10	829	20450	QPSK	1	0	66	20	2155	66886	66	20	2174.8	67084	22.68	22.87
			66	20	1745	132322	QPSK	1	0	66	20	2174.8	67084	5	10	881.5	2525	22.30	22.36
		CA_12A-66A-66A	12	10	711	23130	QPSK	1	49	66	20	2155	66886	66	5	2197.5	67311	22.68	22.81
			66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	12	10	737.5	5095	22.12	22.36
		CA_12A-66C	12	10	711	23130	QPSK	1	49	66	20	2155	66886	66	20	2174.8	67084	22.71	22.81
			66	20	1745	132322	QPSK	1	0	66	20	2174.8	67084	12	10	737.5	5095	22.21	22.36
Intra-Band	Contiguous	CA_41A-41C	41	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	5M	2687.5	41565	22.75	22.77
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	5M	2687.5	41565	22.68	22.77
		CA_66A-66C	66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	66	20	2185.8	67194	22.28	22.36
		CA_41D	41	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	20	2632.6	41016	22.71	22.77
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	20	2632.6	41016	22.66	22.77

Reduced power level 1 for Head-UAT

2CC

Configure		CA Configuration (BCS)	PCC							SCC				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		2A-4A	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	16.83	16.92
		CA_7A-12A	7	20	2510	20850	QPSK	1	0	12	10	737.5	5095	14.81	14.96
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	12	10	737.5	5095	14.75	14.96
		CA_7A-32A	7	20	2510	20850	QPSK	1	0	32	20	1474	10140	14.85	14.96
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	32	20	1474	10140	14.78	14.96
		CA_26A-41A	Band 26	15	841.5	26965	QPSK	1	0	41	20	2593	40620	20.05	20.19
			41	20	2593	40620	QPSK	1	99	26	15	876.5	8865	17.10	17.14
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	26	15	876.5	8865	17.04	17.14
Intra-Band	Non-Contiguous	CA_5A-5A	5	10	829	20450	QPSK	1	0	5	5	891.5	2625	21.18	21.22
		CA_7A-7A	7	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	14.79	14.96
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	14.75	14.96
		CA_41A-41A	41	20	2593	40620	QPSK	1	99	41	5	2687.5	41565	17.09	17.14
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	41	5	2687.5	41565	17.02	17.14
	Contiguous	CA_2C	2	20	1880	18900	QPSK	1	0	2	20	1979.80	1098	16.88	16.92
		CA_5B	5	10	829	20450	QPSK	1	0	5	10	883.90	2549	21.15	21.22
		CA_7C	7	20	2510	20850	QPSK	1	0	7	20	2660.20	3152	14.82	14.96
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	20	2660.20	3152	14.77	14.96
		CA_38C	38	20	2580	37850	QPSK	1	99	38	20	2599.80	38048	17.43	17.49
			38(4*4MIMO)	20	2580	37850	QPSK	1	99	38	20	2599.80	38048	17.34	17.49
		CA_66B	66	15	1745	132322	QPSK	1	0	66	5	2164.30	66979	17.58	16.67

3CC

Configure		CA Configuration (BCS)	PCC							SCC1				SCC2				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		CA_2A-2A-5A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	5	10	881.5	2525	16.87	16.92
			5	10	829	20450	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	21.14	21.22
		CA_2A-2A-12A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	12	10	737.5	5095	16.85	16.92
		CA_4A-4A-5A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	5	10	881.5	2525	16.75	16.83
			4(4*4MIMO)	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	5	10	881.5	2525	16.69	16.83
			5	10	829	20450	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	21.12	21.22
		CA_4A-4A-7A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	7	20	2655	3100	16.74	16.83
			7	20	2510	20850	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	14.85	14.96
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	14.79	14.96
		CA_4A-4A-12A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	12	10	737.5	5095	16.72	16.83
			4(4*4MIMO)	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	12	10	737.5	5095	16.66	16.83
		CA_4A-7A-7A	4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	7	5	2687.5	3425	16.75	16.83
			7	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	4	20	2132.5	2175	14.85	14.96
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	4	20	2132.5	2175	14.80	14.96
		CA_4A-7A-12A	4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	12	10	737.5	5095	16.68	16.83
			7	20	2510	20850	QPSK	1	0	12	10	737.5	5095	4	20	2132.5	2175	14.78	14.96
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	12	10	737.5	5095	4	20	2132.5	2175	14.75	14.96
		CA_5A-7A-7A	5	10	829	20450	QPSK	1	0	7	20	2680	3350	7	20	2630	2850	21.09	21.22
			7	20	2510	20850	QPSK	1	0	7	10	2645	3000	5	10	881.5	2525	14.86	14.96
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	10	2645	3000	5	10	881.5	2525	14.81	14.96
		CA_5A-66A-66A	5	10	829	20450	QPSK	1	0	66	20	2155	66886	66	5	2197.5	67311	21.15	21.22
			66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	5	10	881.5	2525	16.58	16.67
		CA_5A-66C	5	10	829	20450	QPSK	1	0	66	20	2155	66886	66	20	2174.8	67084	21.10	21.22
			66	20	1745	132322	QPSK	1	0	66	20	2174.8	67084	5	10	881.5	2525	16.55	16.67
		CA_12A-66A-66A	66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	12	10	737.5	5095	16.60	16.67
		CA_12A-66C	66	20	1745	132322	QPSK	1	0	66	20	2174.8	67084	12	10	737.5	5095	16.52	16.67
Intra-Band	Contiguous	CA_41A-41C	41	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	5M	2687.5	41565	17.02	17.14
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	5M	2687.5	41565	16.98	17.14
		CA_66A-66C	66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	66	20	2185.8	67194	16.58	16.67
		CA_41D	41	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	20	2632.6	41016	17.09	17.14
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	20	2632.6	41016	17.03	17.14

Reduced power level 2 for Head-UAT

2CC

Configure		CA Configuration (BCS)	PCC							SCC				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		2A-4A	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	16.83	16.92
		CA_7A-12A	7	20	2510	20850	QPSK	1	0	12	10	737.5	5095	14.81	14.96
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	12	10	737.5	5095	14.75	14.96
			12	10	711	23130	QPSK	1	49	7	20	2655	3100	21.75	21.82
		CA_7A-32A	7	20	2510	20850	QPSK	1	0	32	20	1474	10140	14.85	14.96
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	32	20	1474	10140	14.78	14.96
		CA_26A-41A	Band 26	15	841.5	26965	QPSK	1	0	41	20	2593	40620	19.07	19.11
			41	20	2593	40620	QPSK	1	99	26	15	876.5	8865	17.10	17.14
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	26	15	876.5	8865	17.04	17.14
Intra-Band	Non-Contiguous	CA_5A-5A	5	10	829	20450	QPSK	1	0	5	5	891.5	2625	20.39	20.43
		CA_7A-7A	7	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	14.79	14.96
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	14.75	14.96
		CA_41A-41A	41	20	2593	40620	QPSK	1	99	41	5	2687.5	41565	17.09	17.14
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	41	5	2687.5	41565	17.02	17.14
	Contiguous	CA_2C	2	20	1880	18900	QPSK	1	0	2	20	1979.80	1098	16.88	16.92
		CA_5B	5	10	829	20450	QPSK	1	0	5	10	883.90	2549	20.42	20.43
		CA_7C	7	20	2510	20850	QPSK	1	0	7	20	2660.20	3152	14.82	14.96
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	20	2660.20	3152	14.77	14.96
		CA_38C	38	20	2580	37850	QPSK	1	99	38	20	2599.80	38048	17.43	17.49
			38(4*4MIMO)	20	2580	37850	QPSK	1	99	38	20	2599.80	38048	17.34	17.49
		CA_66B	66	15	1745	132322	QPSK	1	0	66	5	2164.30	66979	17.58	16.67

3CC

Configure		CA Configuration (BCS)	PCC							SCC1				SCC2				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		CA_2A-2A-5A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	5	10	881.5	2525	16.87	16.92
			5	10	829	20450	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	20.37	20.43
		CA_2A-2A-12A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	12	10	737.5	5095	16.85	16.92
			12	10	711	23130	QPSK	1	49	2	20	1960	900	2	5	1987.5	1175	21.80	21.82
		CA_4A-4A-5A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	5	10	881.5	2525	16.75	16.83
			4(4*4MIMO)	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	5	10	881.5	2525	16.69	16.83
			5	10	829	20450	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	20.35	20.43
		CA_4A-4A-7A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	7	20	2655	3100	16.74	16.83
			7	20	2510	20850	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	14.85	14.96
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	14.79	14.96
		CA_4A-4A-12A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	12	10	737.5	5095	16.72	16.83
			4(4*4MIMO)	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	12	10	737.5	5095	16.66	16.83
			12	10	711	23130	QPSK	1	49	4	20	2132.5	2175	4	5	2152.5	2375	21.75	21.82
		CA_4A-7A-7A	4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	7	5	2687.5	3425	16.75	16.83
			7	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	4	20	2132.5	2175	14.85	14.96
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	4	20	2132.5	2175	14.80	14.96
		CA_4A-7A-12A	4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	12	10	737.5	5095	16.68	16.83
			7	20	2510	20850	QPSK	1	0	12	10	737.5	5095	4	20	2132.5	2175	14.78	14.96
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	12	10	737.5	5095	4	20	2132.5	2175	14.75	14.96
			12	10	711	23130	QPSK	1	49	4	20	2132.5	2175	7	20	2655	3100	21.79	21.82
		CA_5A-7A-7A	5	10	829	20450	QPSK	1	0	7	20	2680	3350	7	20	2630	2850	20.38	20.43
			7	20	2510	20850	QPSK	1	0	7	10	2645	3000	5	10	881.5	2525	14.86	14.96
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	10	2645	3000	5	10	881.5	2525	14.81	14.96
		CA_5A-66A-66A	5	10	829	20450	QPSK	1	0	66	20	2155	66886	66	5	2197.5	67311	20.36	20.43
			66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	5	10	881.5	2525	16.58	16.67
		CA_5A-66C	5	10	829	20450	QPSK	1	0	66	20	2155	66886	66	20	2174.8	67084	20.33	20.43
			66	20	1745	132322	QPSK	1	0	66	20	2174.8	67084	5	10	881.5	2525	16.55	16.67
		CA_12A-66A-66A	12	10	711	23130	QPSK	1	49	66	20	2155	66886	66	5	2197.5	67311	21.74	21.82
			66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	12	10	737.5	5095	16.60	16.67
		CA_12A-66C	12	10	711	23130	QPSK	1	49	66	20	2155	66886	66	20	2174.8	67084	21.76	21.82
			66	20	1745	132322	QPSK	1	0	66	20	2174.8	67084	12	10	737.5	5095	16.52	16.67
Intra-Band	Contiguous	CA_41A-41C	41	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	5M	2687.5	41565	17.02	17.14
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	5M	2687.5	41565	16.98	17.14
		CA_66A-66C	66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	66	20	2185.8	67194	16.58	16.67
		CA_41D	41	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	20	2632.6	41016	17.09	17.14
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	20	2632.6	41016	17.03	17.14

Reduced power level 3/4 for Head-UAT

2CC

Configure		CA Configuration (BCS)	PCC							SCC				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		2A-4A	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	16.83	16.92
		CA_7A-12A	7	20	2510	20850	QPSK	1	0	12	10	737.5	5095	12.93	12.95
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	12	10	737.5	5095	12.85	12.95
			12	10	711	23130	QPSK	1	49	7	20	2655	3100	21.75	21.82
		CA_7A-32A	7	20	2510	20850	QPSK	1	0	32	20	1474	10140	12.89	12.95
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	32	20	1474	10140	12.83	12.95
		CA_26A-41A	Band 26	15	841.5	26965	QPSK	1	0	41	20	2593	40620	19.07	19.11
			41	20	2593	40620	QPSK	1	99	26	15	876.5	8865	16.47	16.50
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	26	15	876.5	8865	16.41	16.50
Intra-Band	Non-Contiguous	CA_5A-5A	5	10	829	20450	QPSK	1	0	5	5	891.5	2625	20.39	20.43
		CA_7A-7A	7	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	12.85	12.95
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	12.78	12.95
		CA_41A-41A	41	20	2593	40620	QPSK	1	99	41	5	2687.5	41565	16.43	16.50
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	41	5	2687.5	41565	16.38	16.50
	Contiguous	CA_2C	2	20	1880	18900	QPSK	1	0	2	20	1979.80	1098	16.88	16.92
		CA_5B	5	10	829	20450	QPSK	1	0	5	10	883.90	2549	20.42	20.43
		CA_7C	7	20	2510	20850	QPSK	1	0	7	20	2660.20	3152	12.90	12.95
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	20	2660.20	3152	12.83	12.95
		CA_38C	38	20	2580	37850	QPSK	1	99	38	20	2599.80	38048	16.50	16.54
			38(4*4MIMO)	20	2580	37850	QPSK	1	99	38	20	2599.80	38048	16.45	16.54
		CA_66B	66	15	1745	132322	QPSK	1	0	66	5	2164.30	66979	17.58	16.67

3CC

Configure		CA Configuration (BCS)	PCC							SCC1				SCC2				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		CA_2A-2A-5A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	5	10	881.5	2525	16.87	16.92
			5	10	829	20450	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	20.37	20.43
		CA_2A-2A-12A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	12	10	737.5	5095	16.85	16.92
			12	10	711	23130	QPSK	1	49	2	20	1960	900	2	5	1987.5	1175	21.80	21.82
		CA_4A-4A-5A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	5	10	881.5	2525	16.75	16.83
			4(4*4MIMO)	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	5	10	881.5	2525	16.69	16.83
			5	10	829	20450	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	20.35	20.43
		CA_4A-4A-7A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	7	20	2655	3100	16.74	16.83
			7	20	2510	20850	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	12.85	12.95
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	12.79	12.95
		CA_4A-4A-12A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	12	10	737.5	5095	16.72	16.83
			4(4*4MIMO)	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	12	10	737.5	5095	16.66	16.83
			12	10	711	23130	QPSK	1	49	4	20	2132.5	2175	4	5	2152.5	2375	21.75	21.82
		CA_4A-7A-7A	4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	7	5	2687.5	3425	16.75	16.83
			7	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	4	20	2132.5	2175	12.88	12.95
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	4	20	2132.5	2175	12.84	12.95
		CA_4A-7A-12A	4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	12	10	737.5	5095	16.68	16.83
			7	20	2510	20850	QPSK	1	0	12	10	737.5	5095	4	20	2132.5	2175	12.82	12.95
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	12	10	737.5	5095	4	20	2132.5	2175	12.76	12.95
			12	10	711	23130	QPSK	1	49	4	20	2132.5	2175	7	20	2655	3100	21.79	21.82
		CA_5A-7A-7A	5	10	829	20450	QPSK	1	0	7	20	2680	3350	7	20	2630	2850	20.38	20.43
			7	20	2510	20850	QPSK	1	0	7	10	2645	3000	5	10	881.5	2525	12.87	12.95
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	10	2645	3000	5	10	881.5	2525	12.81	12.95
		CA_5A-66A-66A	5	10	829	20450	QPSK	1	0	66	20	2155	66886	66	5	2197.5	67311	20.36	20.43
			66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	5	10	881.5	2525	16.58	16.67
		CA_5A-66C	5	10	829	20450	QPSK	1	0	66	20	2155	66886	66	20	2174.8	67084	20.33	20.43
			66	20	1745	132322	QPSK	1	0	66	20	2174.8	67084	5	10	881.5	2525	16.55	16.67
		CA_12A-66A-66A	12	10	711	23130	QPSK	1	49	66	20	2155	66886	66	5	2197.5	67311	21.74	21.82
			66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	12	10	737.5	5095	16.60	16.67
		CA_12A-66C	12	10	711	23130	QPSK	1	49	66	20	2155	66886	66	20	2174.8	67084	21.76	21.82
			66	20	1745	132322	QPSK	1	0	66	20	2174.8	67084	12	10	737.5	5095	16.52	16.67
Intra-Band	Contiguous	CA_41A-41C	41	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	5M	2687.5	41565	16.32	16.50
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	5M	2687.5	41565	16.29	16.50
		CA_66A-66C	66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	66	20	2185.8	67194	16.58	16.67
		CA_41D	41	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	20	2632.6	41016	16.43	16.50
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	20	2632.6	41016	16.35	16.50

Reduced power for Hotspot on-UAT

2CC

Configure		CA Configuration (BCS)	PCC							SCC				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		2A-4A	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	20.35	20.39
		CA_7A-12A	7	20	2510	20850	QPSK	1	0	12	10	737.5	5095	19.36	19.49
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	12	10	737.5	5095	19.30	19.49
		CA_7A-32A	7	20	2510	20850	QPSK	1	0	32	20	1474	10140	19.42	19.49
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	32	20	1474	10140	19.36	19.49
		CA_26A-41A	41	20	2593	40620	QPSK	1	99	26	15	876.5	8865	21.66	21.74
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	26	15	876.5	8865	21.61	21.74
Intra-Band	Non-Contiguous	CA_7A-7A	7	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	19.45	19.49
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	19.42	19.49
		CA_41A-41A	41	20	2593	40620	QPSK	1	99	41	5	2687.5	41565	21.70	21.74
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	41	5	2687.5	41565	21.65	21.74
	Contiguous	CA_2C	2	20	1880	18900	QPSK	1	0	2	20	1979.80	1098	20.33	20.39
		CA_7C	7	20	2510	20850	QPSK	1	0	7	20	2660.20	3152	19.40	19.49
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	20	2660.20	3152	19.35	19.49
		CA_38C	38	20	2580	37850	QPSK	1	99	38	20	2599.80	38048	21.85	21.91
			38(4*4MIMO)	20	2580	37850	QPSK	1	99	38	20	2599.80	38048	21.82	21.91
		CA_66B	66	15	1745	132322	QPSK	1	0	66	5	2164.30	66979	21.16	21.26

3CC

Configure		CA Configuration (BCS)	PCC							SCC1				SCC2				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		CA_2A-2A-5A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	5	10	881.5	2525	20.35	20.39
		CA_2A-2A-12A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	12	10	737.5	5095	20.32	20.39
		CA_4A-4A-5A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	5	10	881.5	2525	21.15	21.24
			4(4*4MIMO)	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	5	10	881.5	2525	21.10	21.24
		CA_4A-4A-7A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	7	20	2655	3100	21.20	21.24
			7	20	2510	20850	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	19.42	19.49
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	19.35	19.49
		CA_4A-4A-12A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	12	10	737.5	5095	21.19	21.24
			4(4*4MIMO)	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	12	10	737.5	5095	21.15	21.24
		CA_4A-7A-7A	4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	7	5	2687.5	3425	21.16	21.24
			7	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	4	20	2132.5	2175	19.38	19.49
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	4	20	2132.5	2175	19.33	19.49
		CA_4A-7A-12A	4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	12	10	737.5	5095	21.12	21.24
			7	20	2510	20850	QPSK	1	0	12	10	737.5	5095	4	20	2132.5	2175	19.42	19.49
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	12	10	737.5	5095	4	20	2132.5	2175	19.35	19.49
		CA_5A-7A-7A	7	20	2510	20850	QPSK	1	0	7	10	2645	3000	5	10	881.5	2525	19.45	19.49
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	10	2645	3000	5	10	881.5	2525	19.38	19.49
		CA_5A-66A-66A	66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	5	10	881.5	2525	21.09	21.26
		CA_5A-66C	66	20	1745	132322	QPSK	1	0	66	20	2174.8	67084	5	10	881.5	2525	21.18	21.26
		CA_12A-66A-66A	66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	12	10	737.5	5095	21.22	21.26
		CA_12A-66C	66	20	1745	132322	QPSK	1	0	66	20	2174.8	67084	12	10	737.5	5095	21.15	21.26
Intra-Band	Contiguous	CA_41A-41C	41	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	5M	2687.5	41565	21.68	21.74
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	5M	2687.5	41565	21.63	21.74
		CA_66A-66C	66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	66	20	2185.8	67194	21.20	21.26
		CA_41D	41	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	20	2632.6	41016	21.64	21.74
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	20	2632.6	41016	21.62	21.74

Reduced power for Handheld on-UAT

2CC

Configure	CA Configuration (BCS)	PCC							SCC				Power	
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band	CA_7A-12A	7	20	2510	20850	QPSK	1	0	12	10	737.5	5095	17.15	17.19
		7(4*4MIMO)	20	2510	20850	QPSK	1	0	12	10	737.5	5095	17.09	17.19
	CA_7A-32A	7	20	2510	20850	QPSK	1	0	32	20	1474	10140	17.13	17.19
		7(4*4MIMO)	20	2510	20850	QPSK	1	0	32	20	1474	10140	17.10	17.19
Intra-Band	CA_7A-7A	7	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	17.16	17.19
		7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	17.12	17.19
	CA_7C	7	20	2510	20850	QPSK	1	0	7	20	2660.20	3152	17.11	17.19
		7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	20	2660.20	3152	17.06	17.19

3CC

Configure	CA Configuration (BCS)	PCC							SCC1				SCC2				Power	
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band	CA_4A-4A-7A	7	20	2510	20850	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	17.08	17.19
		7(4*4MIMO)	20	2510	20850	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	17.05	17.19
	CA_4A-7A-7A	7	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	4	20	2132.5	2175	17.10	17.19
		7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	4	20	2132.5	2175	17.06	17.19
	CA_4A-7A-12A	7	20	2510	20850	QPSK	1	0	12	10	737.5	5095	4	20	2132.5	2175	17.05	17.19
		7(4*4MIMO)	20	2510	20850	QPSK	1	0	12	10	737.5	5095	4	20	2132.5	2175	17.01	17.19
	CA_5A-7A-7A	7	20	2510	20850	QPSK	1	0	7	10	2645	3000	5	10	881.5	2525	17.12	17.19
		7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	10	2645	3000	5	10	881.5	2525	17.08	17.19

Full Power for LAT

2CC

Configure		CA Configuration (BCS)	PCC							SCC				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		2A-4A	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	22.42	22.65
		CA_7A-12A	7	20	2510	20850	QPSK	1	0	12	10	737.5	5095	22.43	22.60
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	12	10	737.5	5095	22.38	22.60
			12	10	711	23130	QPSK	1	49	7	20	2655	3100	22.39	22.59
		CA_7A-32A	7	20	2510	20850	QPSK	1	0	32	20	1474	10140	22.50	22.60
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	32	20	1474	10140	22.43	22.60
		CA_26A-41A	Band 26	15	841.5	26965	QPSK	1	0	41	20	2593	40620	22.47	22.58
			41	20	2593	40620	QPSK	1	99	26	15	876.5	8865	22.42	22.51
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	26	15	876.5	8865	22.37	22.51
Intra-Band	Non-Contiguous	CA_5A-5A	5	10	829	20450	QPSK	1	0	5	5	891.5	2625	22.45	22.59
		CA_7A-7A	7	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	22.42	22.60
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	22.37	22.60
		CA_41A-41A	41	20	2593	40620	QPSK	1	99	41	5	2687.5	41565	22.50	22.51
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	41	5	2687.5	41565	22.45	22.51
	Contiguous	CA_2C	2	20	1880	18900	QPSK	1	0	2	20	1979.80	1098	22.54	22.65
		CA_5B	5	10	829	20450	QPSK	1	0	5	10	883.90	2549	22.50	22.59
		CA_7C	7	20	2510	20850	QPSK	1	0	7	20	2660.20	3152	22.48	22.60
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	20	2660.20	3152	22.41	22.60
		CA_38C	38	20	2580	37850	QPSK	1	99	38	20	2599.80	38048	22.67	22.79
			38(4*4MIMO)	20	2580	37850	QPSK	1	99	38	20	2599.80	38048	22.58	22.79
		CA_66B	66	15	1745	132322	QPSK	1	0	66	5	2164.30	66979	22.44	22.54

3CC

Configure		CA Configuration (BCS)	PCC							SCC1				SCC2				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		CA_2A-2A-5A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	5	10	881.5	2525	22.44	22.65
			5	10	829	20450	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	22.56	22.59
		CA_2A-2A-12A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	12	10	737.5	5095	22.52	22.65
			12	10	711	23130	QPSK	1	49	2	20	1960	900	2	5	1987.5	1175	22.46	22.59
		CA_4A-4A-5A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	5	10	881.5	2525	22.42	22.53
			4(4*4MIMO)	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	5	10	881.5	2525	22.37	22.53
			5	10	829	20450	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	22.56	22.59
		CA_4A-4A-7A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	7	20	2655	3100	22.41	22.53
			7	20	2510	20850	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	22.47	22.60
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	22.40	22.60
		CA_4A-4A-12A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	12	10	737.5	5095	22.38	22.53
			4(4*4MIMO)	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	12	10	737.5	5095	22.33	22.53
			12	10	711	23130	QPSK	1	49	4	20	2132.5	2175	4	5	2152.5	2375	22.56	22.59
		CA_4A-7A-7A	4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	7	5	2687.5	3425	22.39	22.53
			7	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	4	20	2132.5	2175	22.45	22.60
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	4	20	2132.5	2175	22.40	22.60
		CA_4A-7A-12A	4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	12	10	737.5	5095	22.33	22.53
			7	20	2510	20850	QPSK	1	0	12	10	737.5	5095	4	20	2132.5	2175	22.52	22.60
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	12	10	737.5	5095	4	20	2132.5	2175	22.44	22.60
			12	10	711	23130	QPSK	1	49	4	20	2132.5	2175	7	20	2655	3100	22.57	22.59
		CA_5A-7A-7A	5	10	829	20450	QPSK	1	0	7	20	2680	3350	7	20	2630	2850	22.47	22.59
			7	20	2510	20850	QPSK	1	0	7	10	2645	3000	5	10	881.5	2525	22.51	22.60
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	10	2645	3000	5	10	881.5	2525	22.45	22.60
		CA_5A-66A-66A	5	10	829	20450	QPSK	1	0	66	20	2155	66886	66	5	2197.5	67311	22.52	22.59
			66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	5	10	881.5	2525	22.47	22.54
		CA_5A-66C	5	10	829	20450	QPSK	1	0	66	20	2155	66886	66	20	2174.8	67084	22.50	22.59
			66	20	1745	132322	QPSK	1	0	66	20	2174.8	67084	5	10	881.5	2525	22.48	22.54
		CA_12A-66A-66A	12	10	711	23130	QPSK	1	49	66	20	2155	66886	66	5	2197.5	67311	22.52	22.59
			66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	12	10	737.5	5095	22.41	22.54
		CA_12A-66C	12	10	711	23130	QPSK	1	49	66	20	2155	66886	66	20	2174.8	67084	22.49	22.59
			66	20	1745	132322	QPSK	1	0	66	20	2174.8	67084	12	10	737.5	5095	22.39	22.54
Intra-Band	Contiguous	CA_41A-41C	41	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	5M	2687.5	41565	22.50	22.51
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	5M	2687.5	41565	22.44	22.51
		CA_66A-66C	66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	66	20	2185.8	67194	22.42	22.54
		CA_41D	41	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	20	2632.6	41016	22.47	22.51
			41(4*4MIMO)	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	20	2632.6	41016	22.38	22.51

Reduced power for Hotspot on-LAT

2CC

Configure	CA Configuration (BCS)	PCC							SCC				Power	
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band	CA_7A-12A	7	20	2510	20850	QPSK	1	0	12	10	737.5	5095	21.64	21.67
		7(4*4MIMO)	20	2510	20850	QPSK	1	0	12	10	737.5	5095	21.60	21.67
	CA_7A-32A	7	20	2510	20850	QPSK	1	0	32	20	1474	10140	21.60	21.67
		7(4*4MIMO)	20	2510	20850	QPSK	1	0	32	20	1474	10140	21.57	21.67
Intra-Band	CA_7A-7A	7	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	21.61	21.67
		7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	21.55	21.67
	CA_7C	7	20	2510	20850	QPSK	1	0	7	20	2660.20	3152	21.58	21.67
		7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	20	2660.20	3152	21.53	21.67
	CA_66B	66	15	1745	132322	QPSK	1	0	66	5	2164.30	66979	21.40	21.48

3CC

Configure		CA Configuration (BCS)	PCC							SCC1				SCC2				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		CA_4A-4A-5A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	5	10	881.5	2525	21.45	21.49
			4(4*4MIMO)	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	5	10	881.5	2525	21.38	21.49
		CA_4A-4A-7A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	7	20	2655	3100	21.44	21.49
			7	20	2510	20850	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	21.58	21.67
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	21.52	21.67
		CA_4A-4A-12A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	12	10	737.5	5095	21.39	21.49
			4(4*4MIMO)	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	12	10	737.5	5095	21.35	21.49
		CA_4A-7A-7A	4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	7	5	2687.5	3425	21.43	21.49
			7	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	4	20	2132.5	2175	21.57	21.67
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	4	20	2132.5	2175	21.52	21.67
		CA_4A-7A-12A	4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	12	10	737.5	5095	21.46	21.49
			7	20	2510	20850	QPSK	1	0	12	10	737.5	5095	4	20	2132.5	2175	21.62	21.67
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	12	10	737.5	5095	4	20	2132.5	2175	21.56	21.67
		CA_5A-7A-7A	7	20	2510	20850	QPSK	1	0	7	10	2645	3000	5	10	881.5	2525	21.60	21.67
			7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	10	2645	3000	5	10	881.5	2525	21.55	21.67
		CA_5A-66A-66A	66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	5	10	881.5	2525	21.44	21.48
		CA_5A-66C	66	20	1745	132322	QPSK	1	0	66	20	2174.8	67084	5	10	881.5	2525	21.40	21.48
		CA_12A-66A-66A	66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	12	10	737.5	5095	21.41	21.48
		CA_12A-66C	66	20	1745	132322	QPSK	1	0	66	20	2174.8	67084	12	10	737.5	5095	21.45	21.48
Intra-Band	Contiguous	CA_66A-66C	66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	66	20	2185.8	67194	21.38	21.48

Reduced power for Handheld on-LAT

2CC

Configure	CA Configuration (BCS)	PCC							SCC				Power	
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band	CA_7A-12A	7	20	2510	20850	QPSK	1	0	12	10	737.5	5095	18.71	18.74
		7(4*4MIMO)	20	2510	20850	QPSK	1	0	12	10	737.5	5095	18.65	18.74
	CA_7A-32A	7	20	2510	20850	QPSK	1	0	32	20	1474	10140	18.70	18.74
		7(4*4MIMO)	20	2510	20850	QPSK	1	0	32	20	1474	10140	18.67	18.74
Intra-Band	CA_7A-7A	7	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	18.65	18.74
		7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	18.62	18.74
	CA_7C	7	20	2510	20850	QPSK	1	0	7	20	2660.20	3152	18.69	18.74
		7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	20	2660.20	3152	18.65	18.74

3CC

Configure	CA Configuration (BCS)	PCC							SCC1				SCC2				Power	
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band	CA_4A-4A-7A	7	20	2510	20850	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	18.68	18.74
		7(4*4MIMO)	20	2510	20850	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	18.58	18.74
	CA_4A-7A-7A	7	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	4	20	2132.5	2175	18.65	18.74
		7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	4	20	2132.5	2175	18.59	18.74
	CA_4A-7A-12A	7	20	2510	20850	QPSK	1	0	12	10	737.5	5095	4	20	2132.5	2175	18.63	18.74
		7(4*4MIMO)	20	2510	20850	QPSK	1	0	12	10	737.5	5095	4	20	2132.5	2175	18.57	18.74
	CA_5A-7A-7A	7	20	2510	20850	QPSK	1	0	7	10	2645	3000	5	10	881.5	2525	18.72	18.74
		7(4*4MIMO)	20	2510	20850	QPSK	1	0	7	10	2645	3000	5	10	881.5	2525	18.67	18.74

Bluetooth Full Power

Bluetooth BR/EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)									Tune-upLimit		
			Packet Type											
			DH1	DH3	DH5	2DH1	2DH3	2DH5	3DH1	3DH3	3DH5	DH5	2DH5	3DH5
Bluetooth	CH 0	2402	13.10	12.70	12.60	11.00	10.50	10.30	10.90	10.50	10.40	**14.6**	**12.3**	**12.4**
	CH 39	2441	**14.00**	13.60	13.50	**11.30**	10.90	10.80	**11.20**	10.90	10.70	**15.5**	**12.8**	**12.7**
	CH 78	2480	12.40	12.20	12.00	9.70	9.40	9.20	9.70	9.40	9.20	**14**	**11.2**	**11.2**

Bluetooth LE v4.0

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			GFSK	Tune-up Limit
LE	CH 00	2402	12.70	**14.70**
	CH 19	2440	13.60	**15.60**
	CH 39	2480	12.20	**14.20**

Bluetooth LE v5.0

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			2Mbps	Tune-up Limit
LE	CH 00	2402	13.00	**15.00**
	CH 19	2440	14.00	**16.00**
	CH 39	2480	12.50	**14.50**

Bluetooth Reduced Power for Head

Bluetooth BR/EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)									Tune-upLimit		
			Packet Type											
			DH1	DH3	DH5	2DH1	2DH3	2DH5	3DH1	3DH3	3DH5	DH5	2DH5	3DH5
Bluetooth	CH 0	2402	9.80	9.70	9.60	7.10	7.00	7.00	7.10	7.00	7.00	**11.6**	**9.0**	**9.0**
	CH 39	2441	**10.60**	10.50	10.50	**8.10**	8.00	8.00	**8.10**	8.00	8.00	**12.5**	**10.0**	**10.0**
	CH 78	2480	9.60	9.50	9.50	7.00	6.90	6.80	7.00	6.90	6.90	**11.5**	**8.8**	**8.9**

Bluetooth LE v4.0

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			GFSK	Tune-up Limit
LE	CH 00	2402	9.30	**11.30**
	CH 19	2440	10.10	**12.10**
	CH 39	2480	9.20	**11.20**

Bluetooth LE v5.0

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			2Mbps	Tune-up Limit
LE	CH 00	2402	9.30	**11.30**
	CH 19	2440	10.10	**12.10**
	CH 39	2480	9.20	**11.20**

Full Power

2.4GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	21.77	23.77	99.31
		6	2437	21.81	23.81	
		11	2462	21.91	23.91	
	802.11g 6Mbps	1	2412	20.32	22.32	98.31
		6	2437	20.32	22.32	
		11	2462	20.46	22.46	
	802.11n-HT20 MCS0	1	2412	20.36	22.36	96.52
		6	2437	20.37	22.37	
		11	2462	20.46	22.46	
	802.11n-HT40 MCS0	3	2422	19.01	21.01	92.29
		6	2437	18.97	20.97	
		9	2452	18.87	20.87	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	19.93	21.93	97.59
		40	5200	19.91	21.91	
		44	5220	19.84	21.84	
		48	5240	19.87	21.87	
	802.11n-HT20 MCS0	36	5180	19.75	21.75	96.03
		40	5200	19.72	21.72	
		44	5220	19.69	21.69	
		48	5240	19.59	21.59	
	802.11n-HT40 MCS0	38	5190	18.58	20.58	93.41
		46	5230	19.63	21.63	
	802.11ac-VHT20 MCS0	36	5180	19.69	21.69	92.54
		40	5200	19.65	21.65	
		44	5220	19.63	21.63	
		48	5240	19.53	21.53	
	802.11ac-VHT40 MCS0	38	5190	18.57	20.57	87.23
		46	5230	19.58	21.58	
	802.11ac-VHT80 MCS0	42	5210	17.70	19.70	80.82

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	19.95	21.95	97.59
		56	5280	19.69	21.69	
		60	5300	19.64	21.64	
		64	5320	19.70	21.70	
	802.11n-HT20 MCS0	52	5260	19.61	21.61	96.03
		56	5280	19.55	21.55	
		60	5300	19.41	21.41	
		64	5320	19.49	21.49	
	802.11n-HT40 MCS0	54	5270	19.57	21.57	93.41
		62	5310	16.13	18.13	
	802.11ac-VHT20 MCS0	52	5260	19.55	21.55	92.54
		56	5280	19.49	21.49	
		60	5300	19.35	21.35	
		64	5320	19.43	21.43	
	802.11ac-VHT40 MCS0	54	5270	19.52	21.52	87.23
		62	5310	16.12	18.12	
	802.11ac-VHT80 MCS0	58	5290	15.62	17.62	80.82

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	20.26	22.26	97.59
		116	5580	20.32	22.32	
		124	5620	20.31	22.31	
		132	5660	20.29	22.29	
		140	5700	20.27	22.27	
		144	5720	20.16	22.16	
	802.11n-HT20 MCS0	100	5500	20.03	22.03	96.03
		116	5580	20.10	22.10	
		124	5620	20.06	22.06	
		132	5660	20.13	22.13	
		140	5700	20.11	22.11	
		144	5720	20.08	22.08	
	802.11n-HT40 MCS0	102	5510	20.09	22.09	93.41
		110	5550	20.16	22.16	
		126	5630	20.19	22.19	
		134	5670	20.28	22.28	
		142	5710	20.05	22.05	
	802.11ac-VHT20 MCS0	100	5500	19.97	21.97	92.54
		116	5580	20.04	22.04	
		124	5620	20.13	22.13	
		132	5660	20.11	22.11	
		140	5700	20.05	22.05	
		144	5720	20.02	22.02	
	802.11ac-VHT40 MCS0	102	5510	20.04	22.04	87.23
		110	5550	20.11	22.11	
		126	5630	20.18	22.18	
		134	5670	20.23	22.23	
		142	5710	20.01	22.01	
	802.11ac-VHT80 MCS0	106	5530	15.81	17.81	80.82
		122	5610	19.20	21.20	
		138	5690	19.22	21.22	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	20.22	22.22	97.59
		157	5785	20.33	22.33	
		165	5825	20.20	22.20	
	802.11n-HT20 MCS0	149	5745	20.15	22.15	96.03
		157	5785	20.24	22.24	
		165	5825	20.06	22.06	
	802.11n-HT40 MCS0	151	5755	20.13	22.13	93.41
		159	5795	20.18	22.18	
	802.11ac-VHT20 MCS0	149	5745	20.09	22.09	92.54
		157	5785	20.18	22.18	
		165	5825	20.00	22.00	
	802.11ac-VHT40 MCS0	151	5755	20.09	22.09	87.23
		159	5795	20.13	22.13	
	802.11ac-VHT80 MCS0	155	5775	19.05	21.05	80.82

Reduced Power Level 1 for Head

.4GHz WLA	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	16.82	18.82	99.31
		6	2437	16.81	18.81	
		11	2462	17.01	19.01	
	802.11g 6Mbps	1	2412	15.42	17.42	98.31
		6	2437	15.32	17.32	
		11	2462	15.51	17.51	
	802.11n-HT20 MCS0	1	2412	15.36	17.36	96.52
		6	2437	15.37	17.37	
		11	2462	15.46	17.46	
	802.11n-HT40 MCS0	3	2422	14.02	16.02	92.29
		6	2437	14.01	16.01	
		9	2452	13.92	15.92	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	15.91	17.91	97.59
		40	5200	15.88	17.88	
		44	5220	15.82	17.82	
		48	5240	15.85	17.85	
	802.11n-HT20 MCS0	36	5180	15.73	17.73	96.03
		40	5200	15.70	17.70	
		44	5220	15.71	17.71	
		48	5240	15.57	17.57	
	802.11n-HT40 MCS0	38	5190	14.63	15.63	93.41
		46	5230	15.60	17.60	
	802.11ac-VHT20 MCS0	36	5180	15.65	17.65	92.54
		40	5200	15.62	17.62	
		44	5220	15.61	17.61	
		48	5240	15.54	17.54	
	802.11ac-VHT40 MCS0	38	5190	14.60	16.60	87.23
		46	5230	15.57	17.57	
	802.11ac-VHT80 MCS0	42	5210	13.74	15.74	80.82

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	15.94	17.94	97.59
		56	5280	15.69	17.69	
		60	5300	15.60	17.60	
		64	5320	15.66	17.66	
	802.11n-HT20 MCS0	52	5260	15.59	17.59	96.03
		56	5280	15.54	17.54	
		60	5300	15.41	17.41	
		64	5320	15.46	17.46	
	802.11n-HT40 MCS0	54	5270	15.56	17.56	93.41
		62	5310	12.31	14.31	
	802.11ac-VHT20 MCS0	52	5260	15.53	17.53	92.54
		56	5280	15.49	17.49	
		60	5300	15.33	17.33	
		64	5320	15.40	17.40	
	802.11ac-VHT40 MCS0	54	5270	15.53	17.53	87.23
		62	5310	12.23	14.23	
	802.11ac-VHT80 MCS0	58	5290	11.48	13.48	80.82

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	14.22	16.22	97.59
		116	5580	14.32	16.32	
		124	5620	14.30	16.30	
		132	5660	14.27	16.27	
		140	5700	14.26	16.26	
		144	5720	14.14	16.14	
	802.11n-HT20 MCS0	100	5500	14.02	16.02	96.03
		116	5580	14.08	16.08	
		124	5620	14.03	16.03	
		132	5660	14.04	16.04	
		140	5700	14.09	16.09	
		144	5720	14.07	16.07	
	802.11n-HT40 MCS0	102	5510	14.09	16.09	93.41
		110	5550	14.13	16.13	
		126	5630	14.17	16.17	
		134	5670	14.27	16.27	
		142	5710	14.02	16.02	
	802.11ac-VHT20 MCS0	100	5500	13.96	15.96	92.54
		116	5580	14.02	16.02	
		124	5620	14.07	16.07	
		132	5660	14.06	16.06	
		140	5700	14.02	16.02	
		144	5720	14.01	16.01	
	802.11ac-VHT40 MCS0	102	5510	14.04	16.04	87.23
		110	5550	14.13	16.13	
		126	5630	14.11	16.11	
		134	5670	14.23	16.23	
		142	5710	14.02	16.02	
	802.11ac-VHT80 MCS0	106	5530	9.96	11.96	80.82
		122	5610	13.19	15.19	
		138	5690	13.20	15.20	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	15.19	17.19	97.59
		157	5785	15.30	17.30	
		165	5825	15.19	17.19	
	802.11n-HT20 MCS0	149	5745	15.11	17.11	96.03
		157	5785	15.22	17.22	
		165	5825	15.03	17.03	
	802.11n-HT40 MCS0	151	5755	15.10	17.10	93.41
		159	5795	15.15	17.15	
	802.11ac-VHT20 MCS0	149	5745	15.06	17.06	92.54
		157	5785	15.16	17.16	
		165	5825	14.99	16.99	
	802.11ac-VHT40 MCS0	151	5755	15.08	17.08	87.23
		159	5795	15.10	17.10	
	802.11ac-VHT80 MCS0	155	5775	14.01	16.01	80.82

Reduced Power Level 2 for Head

2.4GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	14.87	16.87	99.31
		6	2437	14.91	16.91	
		11	2462	15.01	17.01	
	802.11g 6Mbps	1	2412	13.42	15.42	98.31
		6	2437	13.42	15.42	
		11	2462	13.56	15.56	
	802.11n-HT20 MCS0	1	2412	13.46	15.46	96.52
		6	2437	13.47	15.47	
		11	2462	13.56	15.56	
	802.11n-HT40 MCS0	3	2422	12.11	14.11	92.29
		6	2437	12.07	14.07	
		9	2452	11.97	13.97	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	14.86	16.86	97.59
		40	5200	14.78	16.78	
		44	5220	14.83	16.83	
		48	5240	14.85	16.85	
	802.11n-HT20 MCS0	36	5180	14.73	16.73	96.03
		40	5200	14.79	16.79	
		44	5220	14.68	16.68	
		48	5240	14.58	16.58	
	802.11n-HT40 MCS0	38	5190	13.56	15.56	93.41
		46	5230	14.62	16.62	
	802.11ac-VHT20 MCS0	36	5180	14.67	16.67	92.54
		40	5200	14.72	16.72	
		44	5220	14.62	16.62	
		48	5240	14.52	16.52	
	802.11ac-VHT40 MCS0	38	5190	13.55	15.55	87.23
		46	5230	14.57	16.57	
	802.11ac-VHT80 MCS0	42	5210	12.69	14.69	80.82

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	14.87	16.87	97.59
		56	5280	14.59	16.59	
		60	5300	14.62	16.62	
		64	5320	14.69	16.69	
	802.11n-HT20 MCS0	52	5260	14.60	16.60	96.03
		56	5280	14.45	16.45	
		60	5300	14.40	16.40	
		64	5320	14.48	16.48	
	802.11n-HT40 MCS0	54	5270	14.56	16.56	93.41
		62	5310	11.12	13.12	
	802.11ac-VHT20 MCS0	52	5260	14.54	16.54	92.54
		56	5280	14.39	16.39	
		60	5300	14.34	16.34	
		64	5320	14.42	16.42	
	802.11ac-VHT40 MCS0	54	5270	14.51	16.51	87.23
		62	5310	11.11	13.11	
	802.11ac-VHT80 MCS0	58	5290	10.52	12.52	80.82

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	13.28	15.28	97.59
		116	5580	13.33	15.33	
		124	5620	13.21	15.21	
		132	5660	13.19	15.19	
		140	5700	13.27	15.27	
		144	5720	13.16	15.16	
	802.11n-HT20 MCS0	100	5500	13.05	15.05	96.03
		116	5580	13.10	15.10	
		124	5620	12.96	14.96	
		132	5660	13.03	15.03	
		140	5700	13.11	15.11	
		144	5720	13.09	15.09	
	802.11n-HT40 MCS0	102	5510	13.11	15.11	93.41
		110	5550	13.17	15.17	
		126	5630	13.09	15.09	
		134	5670	13.27	15.27	
		142	5710	13.06	15.06	
	802.11ac-VHT20 MCS0	100	5500	12.99	14.99	92.54
		116	5580	13.04	15.04	
		124	5620	13.03	15.03	
		132	5660	13.01	15.01	
		140	5700	13.05	15.05	
		144	5720	13.03	15.03	
	802.11ac-VHT40 MCS0	102	5510	13.06	15.06	87.23
		110	5550	13.12	15.12	
		126	5630	13.08	15.08	
		134	5670	13.22	15.22	
		142	5710	13.01	15.01	
	802.11ac-VHT80 MCS0	106	5530	8.82	10.82	80.82
		122	5610	12.20	14.20	
		138	5690	12.22	14.22	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	14.54	16.54	97.59
		157	5785	14.65	16.65	
		165	5825	14.51	16.51	
	802.11n-HT20 MCS0	149	5745	14.47	16.47	96.03
		157	5785	14.55	16.55	
		165	5825	12.69	14.69	
	802.11n-HT40 MCS0	151	5755	14.45	16.45	93.41
		159	5795	14.49	16.49	
	802.11ac-VHT20 MCS0	149	5745	14.41	16.41	92.54
		157	5785	14.49	16.49	
		165	5825	14.31	16.31	
	802.11ac-VHT40 MCS0	151	5755	14.41	16.41	87.23
		159	5795	14.44	16.44	
	802.11ac-VHT80 MCS0	155	5775	13.36	15.36	80.82

Reduced Power Level 3 for Head

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	13.86	15.86	97.59
		40	5200	13.80	15.80	
		44	5220	13.83	15.83	
		48	5240	13.85	15.85	
	802.11n-HT20 MCS0	36	5180	13.73	15.73	96.03
		40	5200	13.71	15.71	
		44	5220	13.68	15.68	
		48	5240	13.58	15.58	
	802.11n-HT40 MCS0	38	5190	12.56	14.56	93.41
		46	5230	13.62	15.62	
	802.11ac-VHT20 MCS0	36	5180	13.67	15.67	92.54
		40	5200	13.64	15.64	
		44	5220	13.62	15.62	
		48	5240	13.52	15.52	
	802.11ac-VHT40 MCS0	38	5190	12.55	14.55	87.23
		46	5230	13.57	15.57	
	802.11ac-VHT80 MCS0	42	5210	11.69	13.69	80.82

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	13.87	15.87	97.59
		56	5280	13.68	15.68	
		60	5300	13.62	15.62	
		64	5320	13.69	15.69	
	802.11n-HT20 MCS0	52	5260	13.60	15.60	96.03
		56	5280	13.54	15.54	
		60	5300	13.40	15.40	
		64	5320	13.48	15.48	
	802.11n-HT40 MCS0	54	5270	13.56	15.56	93.41
		62	5310	10.12	12.12	
	802.11ac-VHT20 MCS0	52	5260	13.54	15.54	92.54
		56	5280	13.48	15.48	
		60	5300	13.34	15.34	
		64	5320	13.42	15.42	
	802.11ac-VHT40 MCS0	54	5270	13.51	15.51	87.23
		62	5310	10.11	12.11	
	802.11ac-VHT80 MCS0	58	5290	9.52	11.52	80.82

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	12.28	14.28	97.59
		116	5580	12.33	14.33	
		124	5620	12.30	14.30	
		132	5660	12.28	14.28	
		140	5700	12.27	14.27	
		144	5720	12.16	14.16	
	802.11n-HT20 MCS0	100	5500	12.05	14.05	96.03
		116	5580	12.10	14.10	
		124	5620	12.05	14.05	
		132	5660	12.12	14.12	
		140	5700	12.11	14.11	
		144	5720	12.09	14.09	
	802.11n-HT40 MCS0	102	5510	12.11	14.11	93.41
		110	5550	12.17	14.17	
		126	5630	12.18	14.18	
		134	5670	12.27	14.27	
		142	5710	12.06	14.06	
	802.11ac-VHT20 MCS0	100	5500	11.99	13.99	92.54
		116	5580	12.04	14.04	
		124	5620	12.12	14.12	
		132	5660	12.10	14.10	
		140	5700	12.05	14.05	
		144	5720	12.03	14.03	
	802.11ac-VHT40 MCS0	102	5510	12.06	14.06	87.23
		110	5550	12.12	14.12	
		126	5630	12.17	14.17	
		134	5670	12.23	14.23	
		142	5710	12.01	14.01	
	802.11ac-VHT80 MCS0	106	5530	7.82	9.82	80.82
		122	5610	11.20	13.20	
		138	5690	11.22	13.22	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	13.14	15.14	97.59
		157	5785	13.26	15.26	
		165	5825	13.14	15.14	
	802.11n-HT20 MCS0	149	5745	13.07	15.07	96.03
		157	5785	13.16	15.16	
		165	5825	12.99	14.99	
	802.11n-HT40 MCS0	151	5755	13.06	15.06	93.41
		159	5795	13.10	15.10	
	802.11ac-VHT20 MCS0	149	5745	13.01	15.01	92.54
		157	5785	13.10	15.10	
		165	5825	12.93	14.93	
	802.11ac-VHT40 MCS0	151	5755	13.01	15.01	87.23
		159	5795	13.05	15.05	
	802.11ac-VHT80 MCS0	155	5775	11.98	13.98	80.82

Reduced Power Level 1 for Hotspot

2.4GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	20.77	22.77	99.31
		6	2437	20.76	22.76	
		11	2462	20.86	22.86	
	802.11g 6Mbps	1	2412	19.37	21.37	98.31
		6	2437	19.47	21.47	
		11	2462	19.46	21.46	
	802.11n-HT20 MCS0	1	2412	19.31	21.31	96.52
		6	2437	19.31	21.31	
		11	2462	19.41	21.41	
	802.11n-HT40 MCS0	3	2422	17.97	19.97	92.29
		6	2437	18.02	20.02	
		9	2452	17.91	19.91	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	19.93	21.93	97.59
		40	5200	19.91	21.91	
		44	5220	19.84	21.84	
		48	5240	19.87	21.87	
	802.11n-HT20 MCS0	36	5180	19.75	21.75	96.03
		40	5200	19.72	21.72	
		44	5220	19.69	21.69	
		48	5240	19.59	21.59	
	802.11n-HT40 MCS0	38	5190	18.58	20.58	93.41
		46	5230	19.63	21.63	
	802.11ac-VHT20 MCS0	36	5180	19.69	21.69	92.54
		40	5200	19.65	21.65	
		44	5220	19.63	21.63	
		48	5240	19.53	21.53	
	802.11ac-VHT40 MCS0	38	5190	18.57	20.57	87.23
		46	5230	19.58	21.58	
	802.11ac-VHT80 MCS0	42	5210	17.70	19.70	80.82

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	18.17	20.17	97.59
		157	5785	18.33	20.33	
		165	5825	18.18	20.18	
	802.11n-HT20 MCS0	149	5745	18.15	20.15	96.03
		157	5785	18.21	20.21	
		165	5825	18.03	20.03	
	802.11n-HT40 MCS0	151	5755	18.14	20.14	93.41
		159	5795	18.22	20.22	
	802.11ac-VHT20 MCS0	149	5745	18.08	20.08	92.54
		157	5785	18.16	20.16	
		165	5825	17.98	19.98	
	802.11ac-VHT40 MCS0	151	5755	18.07	20.07	87.23
		159	5795	18.10	20.10	
	802.11ac-VHT80 MCS0	155	5775	17.08	19.08	80.82

Reduced Power Level 2 for Hotspot

2.4GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	18.72	20.72	99.31
		6	2437	18.76	20.76	
		11	2462	18.86	20.86	
	802.11g 6Mbps	1	2412	17.27	19.27	98.31
		6	2437	17.27	19.27	
		11	2462	17.41	19.41	
	802.11n-HT20 MCS0	1	2412	17.31	19.31	96.52
		6	2437	17.32	19.32	
		11	2462	17.41	19.41	
	802.11n-HT40 MCS0	3	2422	15.96	17.96	92.29
		6	2437	15.92	17.92	
		9	2452	15.82	17.82	

Reduced Power Level 2/3 for Hotspot

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	16.91	18.91	97.59
		40	5200	16.90	18.90	
		44	5220	16.83	18.83	
		48	5240	16.85	18.85	
	802.11n-HT20 MCS0	36	5180	16.73	18.73	96.03
		40	5200	16.71	18.71	
		44	5220	16.68	18.68	
		48	5240	16.58	18.58	
	802.11n-HT40 MCS0	38	5190	15.56	17.56	93.41
		46	5230	16.62	18.62	
	802.11ac-VHT20 MCS0	36	5180	16.67	18.67	92.54
		40	5200	16.64	18.64	
		44	5220	16.62	18.62	
		48	5240	16.52	18.52	
	802.11ac-VHT40 MCS0	38	5190	15.55	17.55	87.23
		46	5230	16.57	18.57	
	802.11ac-VHT80 MCS0	42	5210	14.69	16.69	80.82

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	14.54	16.54	97.59
		157	5785	14.65	16.65	
		165	5825	14.51	16.51	
	802.11n-HT20 MCS0	149	5745	14.47	16.47	96.03
		157	5785	14.55	16.55	
		165	5825	12.69	14.69	
	802.11n-HT40 MCS0	151	5755	14.45	16.45	93.41
		159	5795	14.49	16.49	
	802.11ac-VHT20 MCS0	149	5745	14.41	16.41	92.54
		157	5785	14.49	16.49	
		165	5825	14.31	16.31	
	802.11ac-VHT40 MCS0	151	5755	14.41	16.41	87.23
		159	5795	14.44	16.44	
	802.11ac-VHT80 MCS0	155	5775	13.36	15.36	80.82

Reduced Power Level 2 for Handheld

2.4GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	20.77	22.77	99.31
		6	2437	20.76	22.76	
		11	2462	20.86	22.86	
	802.11g 6Mbps	1	2412	19.37	21.37	98.31
		6	2437	19.47	21.47	
		11	2462	19.46	21.46	
	802.11n-HT20 MCS0	1	2412	19.31	21.31	96.52
		6	2437	19.31	21.31	
		11	2462	19.41	21.41	
	802.11n-HT40 MCS0	3	2422	17.97	19.97	92.29
		6	2437	18.02	20.02	
		9	2452	17.91	19.91	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	17.81	19.81	97.59
		40	5200	17.74	19.74	
		44	5220	17.78	19.78	
		48	5240	17.80	19.80	
	802.11n-HT20 MCS0	36	5180	17.68	19.68	96.03
		40	5200	17.65	19.65	
		44	5220	17.62	19.62	
		48	5240	17.52	19.52	
	802.11n-HT40 MCS0	38	5190	16.51	18.51	93.41
		46	5230	17.56	19.56	
	802.11ac-VHT20 MCS0	36	5180	17.62	19.62	92.54
		40	5200	17.58	19.58	
		44	5220	17.56	19.56	
		48	5240	17.46	19.46	
	802.11ac-VHT40 MCS0	38	5190	16.50	18.50	87.23
		46	5230	17.52	19.52	
	802.11ac-VHT80 MCS0	42	5210	15.64	17.64	80.82

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	17.82	19.82	97.59
		56	5280	17.62	19.62	
		60	5300	17.57	19.57	
		64	5320	17.64	19.64	
	802.11n-HT20 MCS0	52	5260	17.54	19.54	96.03
		56	5280	17.48	19.48	
		60	5300	17.35	19.35	
		64	5320	17.43	19.43	
	802.11n-HT40 MCS0	54	5270	17.50	19.50	93.41
		62	5310	14.07	16.07	
	802.11ac-VHT20 MCS0	52	5260	17.48	19.48	92.54
		56	5280	17.42	19.42	
		60	5300	17.29	19.29	
		64	5320	17.37	19.37	
	802.11ac-VHT40 MCS0	54	5270	17.46	19.46	87.23
		62	5310	14.06	16.06	
	802.11ac-VHT80 MCS0	58	5290	13.46	15.46	80.82

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	16.29	18.29	97.59
		116	5580	16.35	18.35	
		124	5620	16.31	18.31	
		132	5660	16.30	18.30	
		140	5700	16.29	18.29	
		144	5720	16.18	18.18	
	802.11n-HT20 MCS0	100	5500	16.06	18.06	96.03
		116	5580	16.12	18.12	
		124	5620	16.06	18.06	
		132	5660	16.10	18.10	
		140	5700	16.13	18.13	
		144	5720	16.11	18.11	
	802.11n-HT40 MCS0	102	5510	16.12	18.12	93.41
		110	5550	16.19	18.19	
		126	5630	16.21	18.21	
		134	5670	16.30	18.30	
		142	5710	16.08	18.08	
	802.11ac-VHT20 MCS0	100	5500	16.00	18.00	92.54
		116	5580	16.06	18.06	
		124	5620	16.13	18.13	
		132	5660	16.11	18.11	
		140	5700	16.07	18.07	
		144	5720	16.05	18.05	
	802.11ac-VHT40 MCS0	102	5510	16.07	18.07	87.23
		110	5550	16.14	18.14	
		126	5630	16.18	18.18	
		134	5670	16.25	18.25	
		142	5710	16.03	18.03	
	802.11ac-VHT80 MCS0	106	5530	11.83	13.83	80.82
		122	5610	15.22	17.22	
		138	5690	15.24	17.24	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	17.20	19.20	97.59
		157	5785	17.32	19.32	
		165	5825	17.19	19.19	
	802.11n-HT20 MCS0	149	5745	17.14	19.14	96.03
		157	5785	17.23	19.23	
		165	5825	17.05	19.05	
	802.11n-HT40 MCS0	151	5755	17.12	19.12	93.41
		159	5795	17.16	19.16	
	802.11ac-VHT20 MCS0	149	5745	17.08	19.08	92.54
		157	5785	17.16	19.16	
		165	5825	16.98	18.98	
	802.11ac-VHT40 MCS0	151	5755	17.08	19.08	87.23
		159	5795	17.11	19.11	
	802.11ac-VHT80 MCS0	155	5775	16.03	18.03	80.82

Appendix F. Supplemental Tuner Head & Body SAR Results

The results are shown as follows.

RF exposure position											Aperture 00																		
											Average Value of Time Sweep (W/kg)																		
WWAN_Ant 1 Head	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	0	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136
	WCDMA V_LAT	RMC 12.2Kbps	Full Power	4132	826.4	N/A	N/A	Left Cheek	0mm	0.205	0	0.15	0.201	0.098	0.134	0	0.064	0	0	0	0.159	0.194	0.116	0.176	0	0.044	0	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137
	LTE Band 12_LAT	10M-QPSK	Full Power	23095	707.5	1	49	Left Cheek	0mm	0.114	0.112	0.11	0	0.045	0	0	0	0	0	0.091	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)	2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138
	LTE Band 5_LAT	10M-QPSK	Full Power	20525	836.5	1	0	Left Cheek	0mm	0.163	0	0.089	0	0.137	0.143	0	0.06	0	0.061	0	0.089	0	0.161	0.129	0	0	0	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	3	11	19	27	35	43	51	59	67	75	83	91	99	107	115	123	131	139
	LTE Band 26_LAT	15M-QPSK	Full Power	26865	831.5	1	0	Left Cheek	0mm	0.164	0	0.156	0	0	0.102	0.074	0.069	0	0.071	0	0.113	0	0	0.074	0.049	0.049	0	0.045
WWAN_Ant 1 Body	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140
	WCDMA V_LAT	RMC 12.2Kbps	Full Power	4233	846.6	N/A	N/A	Back	10mm	0.362	0.057	0.174	0.075	0.177	0	0.3	0.249	0.059	0.148	0.076	0.197	0.084	0.327	0	0.231	0.18	0	0.095
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	141
	LTE Band 12_LAT	10M-QPSK	Full Power	23095	707.5	1	49	Bottom Side	10mm	0.23	0.211	0	0	0	0.062	0	0	0	0	0.159	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)	6	14	22	30	38	46	54	62	70	78	86	94	102	110	118	126	134	142
	LTE Band 5_LAT	10M-QPSK	Full Power	20525	836.5	1	0	Back	10mm	0.306	0.061	0.231	0.103	0.184	0	0	0	0.245	0.13	0.081	0.242	0.117	0.217	0	0	0	0.191	0.104
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135	143
	LTE Band 26_LAT	15M-QPSK	Full Power	26915	836.5	1	0	Back	10mm	0.309	0.124	0.24	0.119	0.194	0	0.063	0	0	0.081	0.188	0.255	0.14	0.239	0	0	0	0	0.063

Aperture 01																	
Average Value of Time Sweep (W/kg)																	
0	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136
0	0.07	0.123	0.043	0.086	0	0	0	0	0	0.081	0.165	0.055	0.103	0	0	0	0
1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137
0	0	0	0.071	0	0	0	0	0	0	0	0	0.051	0	0	0	0	0
2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138
0	0.044	0	0.095	0.095	0.095	0	0	0	0	0	0	0.07	0.12	0	0	0	0
3	11	19	27	35	43	51	59	67	75	83	91	99	107	115	123	131	139
0	0	0	0	0.123	0.097	0	0	0	0	0	0	0	0.129	0.072	0	0	0
4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140
0	0.053	0	0.043	0	0.117	0.323	0	0.047	0.038	0.071	0.043	0.048	0	0.120	0.298	0	0
5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	141
0.102	0	0.102	0	0	0	0	0.033	0	0.078	0	0.112	0	0	0	0	0	0
6	14	22	30	38	46	54	62	70	78	86	94	102	110	118	126	134	142
0.043	0.078	0.046	0.077	0	0	0	0.171	0.25	0.058	0.099	0.059	0.089	0	0	0	0.175	0.198
7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135	143
0.088	0.088	0.057	0.095	0	0	0	0	0.211	0.133	0.115	0.077	0.114	0	0	0	0	0.19

Aperture 02																	
Average Value of Time Sweep (W/kg)																	
0	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136
0.06	0.164	0.056	0.158	0	0	0	0.091	0	0.05	0.152	0.047	0.164	0	0	0	0.058	0
1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137
0	0	0	0	0	0.087	0	0	0	0	0	0	0	0	0.072	0	0	0
2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138
0.058	0	0.051	0.094	0	0	0.033	0.107	0	0.058	0	0.052	0.062	0	0	0	0.08	0
3	11	19	27	35	43	51	59	67	75	83	91	99	107	115	123	131	139
0.071	0	0.071	0	0	0	0.05	0.105	0	0.064	0	0.088	0	0	0	0	0.088	0
4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140
0.127	0.098	0.315	0	0	0.138	0.067	0.101	0.066	0.138	0.143	0.318	0	0	0.102	0.057	0.11	0
5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	141
0.134	0	0	0	0	0	0	0	0	0.135	0	0	0	0	0	0	0	0
6	14	22	30	38	46	54	62	70	78	86	94	102	110	118	126	134	142
0.138	0.065	0.228	0	0	0	0	0	0	0.133	0.067	0.247	0	0	0	0	0	0
7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135	143
0.196	0.068	0.233	0	0	0	0.088	0	0	0.197	0.152	0.244	0	0	0	0.055	0	0

Aperture 03																	
Average Value of Time Sweep (W/kg)																	
0	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136
0.133	0.088	0	0.042	0	0.004	0	0	0	0.151	0.059	0	0.063	0	0.046	0	0	0
1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138
0.16	0	0	0	0	0	0	0	0	0.136	0	0	0	0	0	0	0	0
163	171	179	187	195	203	211	219	227	235	243	251	259	267	275	283	291	299
0.147	0	0	0	0	0	0	0.05	0	0.122	0	0	0	0	0	0	0	0
4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140
0.269	0	0.07	0	0.09	0.073	0	0.211	0	0.229	0	0.103	0	0.061	0	0	0.192	0
5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	141
0	0	0	0	0	0	0	0	0	0.051	0	0	0	0	0	0	0	0
6	14	22	30	38	46	54	62	70	78	86	94	102	110	118	126	134	142
0.232	0	0.052	0	0.1	0	0	0	0	0.188	0	0.099	0	0.073	0	0	0	0
7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135	143
0.176	0	0.052	0	0.089	0	0	0	0	0.112	0	0.095	0	0.063	0	0	0	0

Aperture 04																	
Average Value of Time Sweep (W/kg)																	
0	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136
0.098	0.076	0	0	0	0.133	0	0	0	0.081	0.045	0	0.045	0	0.068	0	0	0
1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138
0.135	0	0	0	0	0.045	0	0	0	0.141	0	0	0	0	0	0	0	0
315	323	331	339	347	355	363	371	379	387	395	403	411	419	427	435	443	451
0.12	0	0	0	0	0	0	0	0	0.118	0	0	0	0	0	0	0	0
4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140
0.316	0	0.045	0	0.12	0	0	0.17	0	0.24	0	0	0	0.091	0	0	0.142	0
5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	141
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	14	22	30	38	46	54	62	70	78	86	94	102	110	118	126	134	142
0.214	0	0	0	0.148	0	0	0	0	0.157	0	0.057	0	0.12	0	0	0	0
7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135	143
0.144	0	0	0	0.124	0	0	0	0	0.089	0	0.064	0	0.098	0	0	0	0

Aperture 05																	
Average Value of Time Sweep (W/kg)																	
0	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136
0	0.153	0.104	0.194	0	0	0.001	0.065	0	0	0.188	0.081	0.173	0.055	0	0	0.043	0
1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137
0.043	0	0	0	0	0.082	0	0	0	0.051	0	0	0	0	0.072	0	0	0
2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138
0	0.047	0.072	0.136	0.004	0	0.097	0.002	0	0	0.058	0.097	0.108	0.048	0	0.065	0	0
475	483	491	499	507	515	523	531	539	547	555	563	571	579	587	595	603	611
0.043	0.044	0.115	0	0	0.047	0.06	0.063	0	0.044	0.050	0.119	0	0	0	0.067	0.045	0
4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140
0.084	0.22	0.181	0.003	0	0.289	0.114	0.092	0.152	0.071	0.268	0.178	0.084	0	0.223	0.091	0.091	0.097
5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	141
0.152	0	0	0	0	0	0	0	0	0.16	0	0	0	0	0	0	0	0
6	14	22	30	38	46	54	62	70	78	86	94	102	110	118	126	134	142
0.093	0.144	0.224	0.045	0	0	0	0.077	0.059	0.107	0.185	0.219	0.066	0	0	0	0.058	0.053
7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135	143
0.168	0.148	0.242	0.004	0	0.032	0.062	0	0	0.215	0.19	0.226	0.061	0	0	0	0	0

Aperture 05																	
Average Value of Time Sweep (W/kg)																	
0	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136
0.162	0.126	0	0.067	0	0.045	0	0	0	0.146	0.085	0	0.092	0	0	0	0	0
1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138
0.12	0	0	0.049	0	0	0	0.074	0	0.099	0	0	0	0	0	0	0.05	0
627	635	643	651	659	667	675	683	691	699	707	715	723	731	739	747	755	763
0.135	0	0	0	0	0	0	0.083	0	0.107	0	0	0	0	0	0	0.06	0
4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140
0.217	0	0.132	0	0	0.075	0.042	0.216	0	0.162	0.057	0.185	0	0	0.049	0	0.197	0
5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	141
0.044	0	0	0	0	0	0	0	0	0.0643	0	0	0	0	0	0	0	0
6	14	22	30	38	46	54	62	70	78	86	94	102	110	118	126	134	142
0.208	0	0.092	0	0.052	0	0	0	0	0.163	0.044	0.134	0	0	0	0	0	0
7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135	143
0.196	0	0.099	0	0.058	0	0	0	0	0.143	0.047	0.139	0	0	0	0	0	0

Aperture 07																	
Average Value of Time Sweep (W/kg)																	
0	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136
0.12	0.087	0	0	0	0.065	0	0	0	0	0.055	0	0.061	0	0.05	0	0	0
1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138
0.101	0	0	0	0	0	0	0	0	0.132	0	0	0	0	0.042	0	0	0
779	787	795	803	811	819	827	835	843	851	859	867	875	883	891	899	907	915
0.145	0	0	0	0	0	0	0.05	0	0.124	0	0	0	0	0	0	0	0
4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140
0.269	0	0.069	0	0.089	0.042	0	0.101	0	0.226	0	0.1	0	0.06	0	0	0.182	0
5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	141
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	14	22	30	38	46	54	62	70	78	86	94	102	110	118	126	134	142
0.225	0	0.053	0	0.099	0	0	0	0	0.182	0	0.076	0	0.07	0	0	0	0
7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135	143
0.168	0	0.027	0	0.087	0	0	0	0	0.135	0	0.087	0	0.064	0	0	0	0

Aperture 08																	
Average Value of Time Sweep (W/kg)																	
0	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136
0	0.056	0	0	0	0.113	0	0	0	0.042	0	0	0	0	0.104	0	0	0
1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138
0.093	0	0	0	0	0.033	0	0	0	0.119	0	0	0	0	0.046	0	0	0
3	11	19	27	35	43	51	59	67	75	83	91	99	107	115	123	131	139
0.086	0	0	0	0	0	0	0	0	0.108	0	0	0	0	0	0	0	0
4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140
0.28	0	0	0	0.061	0	0	0.122	0	0.061	0	0.045	0	0	0	0	0.091	0
5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	141
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	14	22	30	38	46	54	62	70	78	86	94	102	110	118	126	134	142
0.173	0	0	0	0.181	0	0	0	0	0.147	0	0	0	0.142	0	0	0	0
7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135	143
0.12	0	0	0	0.172	0	0	0	0	0.071	0	0.047	0	0.149	0	0	0	0

Aperture 09																	
Average Value of Time Sweep (W/kg)																	
0	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136
0	0.045	0	0	0	0.122	0	0	0	0	0	0	0	0	0.119	0	0	0
1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138
0.065	0	0	0	0	0.057	0	0	0	0.08	0	0	0	0	0.05	0	0.047	0
3	11	19	27	35	43	51	59	67	75	83	91	99	107	115	123	131	139
0.062	0	0	0	0	0	0	0	0	0.086	0	0	0	0	0	0	0	0
4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140
0.221	0	0	0	0	0	0	0.065	0	0.214	0	0	0	0	0	0	0.086	0
5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	141
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	14	22	30	38	46	54	62	70	78	86	94	102	110	118	126	134	142
0.127	0	0	0	0.149	0	0	0	0	0.127	0	0	0	0.11	0	0	0	0
7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135	143
0.089	0	0	0	0.181	0	0	0	0	0.061	0	0	0	0.157	0	0	0	0

Aperture 10																	
Average Value of Time Sweep (W/kg)																	
0	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136
0	0	0	0	0	0.102	0	0	0	0	0	0	0	0	0.086	0	0	0
1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138
0	0	0	0	0	0.098	0	0	0	0.052	0	0	0	0	0.073	0	0	0
3	11	19	27	35	43	51	59	67	75	83	91	99	107	115	123	131	139
0	0	0.073	0	0	0	0	0	0	0.051	0	0	0	0	0	0	0	0
4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140
0.126	0	0	0	0	0	0	0.052	0	0.154	0	0	0	0	0	0	0	0
5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	141
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	14	22	30	38	46	54	62	70	78	86	94	102	110	118	126	134	142
0.08	0	0	0	0.062	0	0	0	0	0.064	0	0	0	0	0	0	0	0
7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135	143
0.088	0	0	0	0.115	0	0	0	0	0.043	0	0	0	0.079	0	0	0	0

Aperture 11																	
Average Value of Time Sweep (W/kg)																	
0	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136
0.09	0.069	0	0	0	0.001	0	0	0	0.070	0	0	0.045	0	0.076	0	0	0
1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138
0.126	0	0	0	0	0.046	0	0	0	0.130	0	0	0	0	0	0	0	0
3	11	19	27	35	43	51	59	67	75	83	91	99	107	115	123	131	139
0.113	0	0	0	0	0	0	0	0	0.12	0	0	0	0	0	0	0	0
4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140
0.307	0	0.043	0	0.103	0	0	0.109	0	0.242	0	0.083	0	0.088	0	0	0.131	0
5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	141
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	14	22	30	38	46	54	62	70	78	86	94	102	110	118	126	134	142
0.208	0	0	0	0.105	0	0	0	0	0.159	0	0.059	0	0.124	0	0	0	0
7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135	143
0.141	0	0	0	0.131	0	0	0	0	0.086	0	0	0	0.107	0	0	0	0

Aperture 12																	
Average Value of Time Sweep (W/kg)																	
0	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136
0	0.052	0	0	0	0.112	0	0	0	0	0	0	0	0	0.104	0	0	0
1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138
0.087	0	0	0	0	0.033	0	0	0	0.111	0	0	0	0	0.045	0	0	0
3	11	19	27	35	43	51	59	67	75	83	91	99	107	115	123	131	139
0.08	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0
4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140
0.301	0	0	0	0.054	0	0	0.117	0	0.229	0	0.044	0	0	0	0	0.087	0
5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	141
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	14	22	30	38	46	54	62	70	78	86	94	102	110	118	126	134	142
0.165	0	0	0	0.177	0	0	0	0	0.14	0	0	0	0.139	0	0	0	0
7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135	143
0.111	0	0	0	0.17	0	0	0	0	0.067	0	0	0	0.148	0	0	0	0

Aperture 13																	
Average Value of Time Sweep (W/kg)																	
0	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136
0	0.064	0	0	0	0.110	0	0	0	0	0	0	0	0	0.102	0	0	0
1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138
0	0	0	0	0	0.065	0	0	0	0.06	0	0	0	0	0.065	0	0	0
3	11	19	27	35	43	51	59	67	75	83	91	99	107	115	123	131	139
0	0	0	0	0	0	0	0	0	0.06	0	0	0	0	0	0	0	0
4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140
0.148	0	0	0	0	0	0	0.062	0	0.171	0	0	0	0	0	0	0.042	0
5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	141
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	14	22	30	38	46	54	62	70	78	86	94	102	110	118	126	134	142
0.056	0	0	0	0.09	0	0	0	0	0.104	0	0	0	0.109	0	0	0	0
7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135	143
0.07	0	0	0	0.13	0	0	0	0	0.045	0	0	0	0.086	0	0	0	0

Aperture 14																	
Average Value of Time Sweep (W/kg)																	
0	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136
0	0	0	0	0	0.073	0	0	0	0	0	0	0	0	0.051	0	0	0
1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138
0	0	0	0	0	0.066	0	0	0	0	0	0	0	0	0.074	0	0	0
3	11	19	27	35	43	51	59	67	75	83	91	99	107	115	123	131	139
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140
0.086	0	0	0	0	0	0	0	0.12	0	0	0	0	0	0	0	0	0
5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	141
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	14	22	30	38	46	54	62	70	78	86	94	102	110	118	126	134	142
0.06	0	0	0	0	0	0	0	0	0.076	0	0	0	0	0	0	0	0
7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135	143
0.051	0	0	0	0	0	0	0	0	0	0	0	0	0.043	0	0	0	0

Aperture 15																	
Average Value of Time Sweep (W/kg)																	
0	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136
0	0	0	0	0	0.08	0	0	0	0	0	0	0	0	0.061	0	0	0
1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138
0	0	0	0	0	0.067	0	0	0	0	0	0	0	0	0.073	0	0	0
3	11	19	27	35	43	51	59	67	75	83	91	99	107	115	123	131	139
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140
0.1	0	0	0	0	0	0	0.044	0	0.13	0	0	0	0	0	0	0	0
5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	141
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	14	22	30	38	46	54	62	70	78	86	94	102	110	118	126	134	142
0.068	0	0	0	0.044	0	0	0	0	0.082	0	0	0	0	0	0	0	0
7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135	143
0.055	0	0	0	0.081	0	0	0	0	0	0	0	0	0.033	0	0	0	0

RF exposure position											Aperture 00										
											Average Value of Time Sweep (W/kg)										
WWAN_Ant 2 Head	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	0	14	28	42	56	70	84	98	112	126	140
	WCDMA IV_UAT	RMC 12.2Kbps	Standalone&Simul	1413	1732.6	N/A	N/A	Right Tilted	0mm	0.709	0.166	0.134	0.096	0.208	0.356	0.042	0.187	0.092	0.307	0.1	0.13
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	1	15	29	43	57	71	85	99	113	127	141
	WCDMA II_UAT	RMC 12.2Kbps	Standalone&Simul	9538	1907.6	N/A	N/A	Right Cheek	0mm	0.656	0.144	0.11	0.05	0.213	0.137	0	0.113	0.073	0.261	0.363	0.071
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	2	16	30	44	58	72	86	100	114	128	142
	LTE Band 66_UAT	20M-QPSK	Standalone&Simul	132572	1770	50	24	Right Tilted	0mm	0.572	0.162	0.097	0.068	0.132	0.159	0.516	0.117	0.123	0.16	0.336	0.059
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	3	17	31	45	59	73	87	101	115	129	143
	LTE Band 2_UAT	20M-QPSK	Standalone&Simul	18900	1880	50	24	Right Tilted	0mm	0.591	0.188	0.131	0.051	0.429	0.143	0.352	0.106	0.073	0.179	0.21	0.076
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	4	18	32	46	60	74	88	102	116	130	0
	LTE Band 7_UAT	20M-QPSK	Standalone&Simul	21100	2535	50	24	Right Tilted	0mm	0.758	0.249	0.119	0.335	0.265	0.52	0.196	0.589	0.274	0.499	0.43	0.096
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	5	19	33	47	61	75	89	103	117	131	1
	LTE Band 41_UAT	20M-QPSK	Standalone&Simul	40620	2593	50	24	Right Tilted	0mm	0.662	0.228	0.154	0.39	0.262	0.465	0.195	0.476	0.244	0.194	0.361	0.085
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	6	20	34	48	62	76	90	104	118	132	2
	LTE Band 41(HPUE)	20M-QPSK	Standalone&Simul	41490	2680	50	24	Right Tilted	0mm	0.763	0.376	0.304	0.606	0.44	0.63	0.289	0.389	0.435	0.304	0.61	0.584
WWAN _Ant 2 Body	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	7	21	35	49	63	77	91	105	119	133	3
	WCDMA IV_UAT	RMC 12.2Kbps	Hotspot	1513	1752.6	N/A	N/A	Top Side	10mm	0.591	0.187	0.136	0.052	0.171	0.304	0.279	0.281	0.055	0.365	0.065	0.179
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	8	22	36	50	64	78	92	106	120	134	4
	WCDMA II_UAT	RMC 12.2Kbps	Hotspot	9538	1907.6	N/A	N/A	Top Side	10mm	0.577	0.051	0.063	0.066	0.051	0.059	0.042	0.046	0.044	0.058	0.043	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	9	23	37	51	65	79	93	107	121	135	5
	LTE Band 66_UAT	20M-QPSK	Hotspot	132572	1770	1	0	Top Side	10mm	0.611	0.138	0.133	0.601	0.125	0.244	0.246	0.206	0.053	0.26	0.07	0.242
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	10	24	38	52	66	80	94	108	122	136	6
	LTE Band 2_UAT	20M-QPSK	Hotspot	19100	1900	50	24	Top Side	10mm	0.58	0.148	0.19	0.511	0.079	0.097	0.252	0.129	0.321	0.124	0.371	0.241
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	11	25	39	53	67	81	95	109	123	137	7
	LTE Band 7_UAT	20M-QPSK	Hotspot	21350	2560	50	24	Top Side	10mm	0.665	0.256	0.554	0.31	0.624	0.321	0.184	0.377	0.263	0.555	0.265	0.409
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	12	26	40	54	68	82	96	110	124	138	8
	LTE Band 41_UAT	20M-QPSK	Hotspot	41490	2680	50	24	Top Side	10mm	0.569	0.28	0.136	0.274	0.126	0.276	0.181	0.413	0.223	0.495	0.222	0.314
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	13	27	41	55	69	83	97	111	125	139	9
	LTE Band 41(HPUE)	20M-QPSK	Hotspot	41490	2680	1	99	Top Side	10mm	0.695	0.328	0.077	0.303	0.207	0.448	0.248	0.467	0.283	0.538	0.26	0.332

RF exposure position											Aperture 00										
											Average Value of Time Sweep (W/kg)										
WWAN_Ant 3 Head	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	0	14	28	42	56	70	84	98	112	126	140
	WCDMA IV_LAT	RMC 12.2Kbps	Full Power	1413	1732.6	N/A	N/A	Left Cheek	0mm	0.17	0	0.09	0	0	0.068	0	0.042	0.064	0	0	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	1	15	29	43	57	71	85	99	113	127	141
	WCDMA II_LAT	RMC 12.2Kbps	Full Power	9538	1907.6	N/A	N/A	Left Cheek	0mm	0.138	0	0.075	0.096	0.048	0.05	0	0.046	0.074	0	0.046	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	2	16	30	44	58	72	86	100	114	128	142
	LTE Band 66_LAT	20M-QPSK	Full Power	132572	1745	1	0	Left Cheek	0mm	0.119	0	0.041	0	0	0.011	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)	3	17	31	45	59	73	87	101	115	129	143
	LTE Band 2_LAT	20M-QPSK	Full Power	19100	1900	1	0	Left Cheek	0mm	0.111	0	0.057	0.077	0	0	0	0	0.07	0	0	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	4	18	32	46	60	74	88	102	116	130	0
	LTE Band 7_LAT	20M-QPSK	Full Power	21100	2535	1	0	Right Cheek	0mm	0.394	0.118	0.065	0.212	0.149	0.317	0.139	0.339	0.246	0.371	0.276	0.044
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	5	19	33	47	61	75	89	103	117	131	1
	LTE Band 41_LAT	20M-QPSK	Full Power	40620	2593	1	99	Right Cheek	0mm	0.183	0.075	0.048	0.112	0.091	0.173	0.083	0.167	0.122	0	0.139	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	6	20	34	48	62	76	90	104	118	132	2
	LTE Band 41(HPUE)	20M-QPSK	Full Power	40620	2593	1	99	Right Cheek	0mm	0.236	0.197	0.156	0.225	0.226	0.187	0.217	0.081	0.234	0.093	0.202	0.137
WWAN _Ant 3 Body	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	7	21	35	49	63	77	91	105	119	133	3
	WCDMA IV_LAT	RMC 12.2Kbps	Hotspot	1513	1752.6	N/A	N/A	Bottom Side	10mm	0.798	0.286	0.484	0.209	0.167	0.099	0.165	0.536	0.178	0.107	0	0.255
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	8	22	36	50	64	78	92	106	120	134	4
	WCDMA II_LAT	RMC 12.2Kbps	Hotspot	9538	1907.6	N/A	N/A	Bottom Side	10mm	0.695	0.322	0.627	0.125	0.216	0.563	0.232	0.432	0.138	0.099	0.066	0.244
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	9	23	37	51	65	79	93	107	121	135	5
	LTE Band 66_LAT	20M-QPSK	Hotspot	132572	1770	50	24	Bottom Side	10mm	0.661	0.656	0.416	0.102	0.12	0.321	0.152	0.279	0.063	0.06	0	0.216
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	10	24	38	52	66	80	94	108	122	136	6
	LTE Band 2_LAT	20M-QPSK	Full Power	18900	1880	1	0	Bottom Side	10mm	0.749	0.573	0.585	0.17	0.179	0.321	0.304	0.329	0.05	0.091	0.412	0.286
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	11	25	39	53	67	81	95	109	123	137	7
	LTE Band 7_LAT	20M-QPSK	Hotspot	21100	2535	1	0	Back	10mm	0.827	0.212	0.569	0.426	0.748	0.674	0.188	0.558	0.258	0.652	0.485	0.467
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	12	26	40	54	68	82	96	110	124	138	8
	LTE Band 41_LAT	20M-QPSK	Full Power	41490	2680	1	99	Back	10mm	0.493	0.306	0.407	0.398	0.186	0.403	0.26	0.414	0.262	0.284	0.346	0.389
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	13	27	41	55	69	83	97	111	125	139	9
	LTE Band 41(HPUE)	20M-QPSK	Full Power	41490	2680	1	99	Back	10mm	0.636	0.402	0.189	0.495	0.329	0.483	0.381	0.453	0.406	0.373	0.457	0.16