

Full & Default Power Mode

GSM850 Ant 0		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		32.02	31.98	31.94				33.50	23.02	22.98		
GPRS 1 Tx slot		32.01	32.02	31.91				33.50	23.01	23.02		
GPRS 2 Tx slots		31.22	31.23	31.16				32.50	25.22	25.23		
GPRS 3 Tx slots		29.41	29.42	29.33				30.50	25.15	25.16		
GPRS 4 Tx slots		28.20	28.25	28.13				29.50	25.20	25.25		
EDGE 1 Tx slot		26.38	26.43	26.45				27.50	17.38	17.43		
EDGE 2 Tx slots		25.14	25.23	25.37				26.50	19.14	19.23		
EDGE 3 Tx slots		22.91	22.98	23.07				24.00	18.65	18.72		
EDGE 4 Tx slots		21.58	21.66	21.69				22.50	18.56	18.66		

GSM1900 Ant 0		Burst Average Power (dBm)			Tune-up Limit (dBm)			Frame-Average Power (dBm)			Tune-up Limit (dBm)	
TX Channel		512	661	810				512	661	810		
Frequency (MHz)		1850.2	1860	1909.8				1850.2	1880	1909.8		
GSM 1 Tx slot		28.85	28.84	29.01				30.50	19.85	19.84		
GPRS 1 Tx slot		28.85	28.86	28.99				30.50	19.85	19.86		
GPRS 2 Tx slots		28.23	28.21	28.35				22.23	22.21	22.35		
GPRS 3 Tx slots		26.55	26.46	26.65				27.50	22.29	22.20		
GPRS 4 Tx slots		25.44	25.66	25.54				26.50	22.44	22.66		
EDGE 1 Tx slot		25.62	25.48	25.70				26.50	16.62	16.48		
EDGE 2 Tx slots		24.47	24.31	24.52				25.50	18.47	18.31		
EDGE 3 Tx slots		22.24	22.06	22.39				23.00	17.98	17.80		
EDGE 4 Tx slots		21.04	20.77	20.99				22.00	18.04	17.77		

Band		WCDMA II Ant 0			Tune-up Limit (dBm)	WCDMA IV Ant 0			Tune-up Limit (dBm)	WCDMA V Ant 0			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Frequency (MHz)		9662	9800	9938		1537	1638	1738		4357	4407	4458	
3GPP Rel 99		1832.4	1840	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMA 12.2kbps	23.00	23.21	23.21	24.00	22.76	23.02	22.99	24.00	23.09	23.38	23.36	24.00
3GPP Rel 99	RMC 12.2kbps	23.04	23.42	23.27	24.00	22.90	23.23	23.18	24.00	23.22	23.53	23.45	24.00
3GPP Rel 6	HSDPA Subtest-1	22.22	22.22	22.27	23.00	21.99	22.05	22.08	23.00	22.29	22.44	22.39	23.00
3GPP Rel 6	HSDPA Subtest-2	22.24	22.29	22.28	23.00	22.00	22.16	22.08	23.00	22.29	22.43	22.44	23.00
3GPP Rel 6	HSDPA Subtest-3	21.70	21.87	21.69	22.50	21.68	21.74	21.47	22.50	21.90	21.95	21.87	22.50
3GPP Rel 6	HSDPA Subtest-4	21.64	21.82	21.75	22.50	21.55	21.66	21.49	22.50	21.84	21.91	21.89	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.26	22.17	22.23	23.00	22.06	22.08	22.00	23.00	22.36	22.33	22.31	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.16	22.20	22.12	23.00	21.96	21.95	22.00	23.00	22.26	22.32	22.30	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.64	21.80	21.63	22.50	21.56	21.53	21.43	22.50	21.83	21.89	21.79	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.53	21.75	21.59	22.50	21.38	21.67	21.42	22.50	21.76	21.84	21.77	22.50
3GPP Rel 6	HSUPA Subtest-1	22.04	22.25	22.22	23.00	21.85	22.05	22.02	23.00	22.25	22.40	22.34	23.00
3GPP Rel 6	HSUPA Subtest-2	20.23	20.29	20.17	21.00	20.02	20.13	20.05	21.00	20.35	20.48	20.36	21.00
3GPP Rel 6	HSUPA Subtest-3	21.21	21.43	21.29	22.00	21.08	21.27	20.98	22.00	21.35	21.58	21.37	22.00
3GPP Rel 6	HSUPA Subtest-4	20.05	20.26	20.17	21.00	19.84	20.10	20.00	21.00	20.16	20.41	20.30	21.00
3GPP Rel 6	HSUPA Subtest-5	22.00	22.21	22.27	23.00	21.84	22.04	22.09	23.00	22.16	22.32	22.43	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.72	19.81	19.89	20.50	19.52	19.60	19.73	20.50	19.96	19.93	20.04	20.50

Band		WCDMA II Ant 1			Tune-up Limit (dBm)	WCDMA IV Ant 1			Tune-up Limit (dBm)	WCDMA V Ant 1			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9462	9600	9738		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1980	1997.6		1712.4	1732.6	1752.8		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	22.84	23.11	23.06	24.00	22.71	23.15	23.08	24.00	22.89	23.24	23.23	24.00
3GPP Rel 99	AMR 12.2Kbps	22.90	23.22	23.16	24.00	22.95	23.21	23.11	24.00	23.08	23.37	23.26	24.00
3GPP Rel 6	HSDPA Subtest-1	22.06	22.06	22.13	23.00	22.00	22.20	22.05	23.00	22.13	22.31	22.20	23.00
3GPP Rel 6	HSDPA Subtest-2	22.13	22.19	22.17	23.00	22.02	22.12	22.05	23.00	22.19	22.29	22.24	23.00
3GPP Rel 6	HSDPA Subtest-3	21.61	21.77	21.52	22.50	21.54	21.70	21.65	22.50	21.71	21.82	21.78	22.50
3GPP Rel 6	HSDPA Subtest-4	21.51	21.69	21.62	22.50	21.52	21.59	21.54	22.50	21.70	21.77	21.69	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.17	22.05	22.13	23.00	21.99	22.04	22.01	23.00	22.17	22.16	22.14	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.06	22.09	21.94	23.00	21.93	21.96	22.05	23.00	22.10	22.15	22.14	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.54	21.64	21.49	22.50	21.55	21.61	21.55	22.50	21.66	21.79	21.67	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.34	21.59	21.41	22.50	21.48	21.53	21.50	22.50	21.64	21.71	21.64	23.50
3GPP Rel 6	HSUPA Subtest-1	21.90	22.14	22.11	23.00	21.93	22.16	22.08	23.00	22.11	22.31	22.17	23.00
3GPP Rel 6	HSUPA Subtest-2	20.08	20.12	20.08	21.00	20.09	20.13	20.07	21.00	20.22	20.31	20.25	22.00
3GPP Rel 6	HSUPA Subtest-3	21.02	21.29	21.15	22.00	21.01	21.28	21.10	22.00	21.29	21.40	21.27	23.00
3GPP Rel 6	HSUPA Subtest-4	19.92	20.07	20.07	21.00	19.86	20.15	20.07	21.00	20.03	20.25	20.19	22.00
3GPP Rel 6	HSUPA Subtest-5	21.85	22.08	22.10	23.00	21.79	22.05	22.12	23.00	21.99	22.18	22.26	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.61	19.69	19.79	20.50	19.65	19.66	19.78	20.50	19.77	19.79	19.94	21.50



Band 2 Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power [mW]	Power [mW]	Power [mW]	Turn-up [dB]	MPR [dB]		
Channel				Channel	Channel	Channel	Ref. [dB]	(dB)		
Frequency [MHz]				16678	16680	16682	16684			
20	QPSK	1	0	22.36	22.58	22.54			24	0
20	QPSK	1	8	22.37	22.63	22.58				
20	QPSK	1	99	22.29	22.59	22.43				
20	QPSK	50	0	21.59	21.68	21.59				
20	QPSK	50	24	21.48	21.54	21.53			23	1
20	QPSK	50	50	21.47	21.61	21.56				
20	QPSK	100	0	21.60	21.67	21.61				
20	QPSK	100	50	21.66	21.69	21.67				
20	16QAM	1	49	21.79	21.91	21.75			23	1
20	16QAM	1	99	21.73	21.86	21.83				
20	16QAM	50	0	20.54	20.56	20.55				
20	16QAM	50	24	20.43	20.56	20.49				
20	16QAM	100	0	20.48	20.51	20.50			22	2
20	16QAM	100	50	20.56	20.59	20.54				
20	16QAM	1	0	20.66	20.79	20.69				
20	16QAM	1	49	20.59	20.74	20.63				
20	16QAM	50	0	19.54	19.65	19.57			21	3
20	16QAM	50	24	19.45	19.60	19.53				
20	16QAM	100	0	19.46	19.62	19.48				
20	16QAM	100	50	19.51	19.63	19.54				
20	256QAM	1	49	17.51	17.57	17.56			19	5
20	256QAM	1	99	17.58	17.62	17.62				
20	256QAM	50	0	17.56	17.60	17.54				
20	256QAM	50	24	17.50	17.53	17.56				
20	256QAM	100	0	17.50	17.60	17.54			19	5
20	256QAM	100	50	17.57	17.61	17.60				
Channel				16675	16678	16680	16682	Turn-up [dB]		
Frequency [MHz]				16675	16678	16680	16682			
15	QPSK	1	0	22.32	22.57	22.44			24	0
15	QPSK	1	8	22.31	22.41	22.36				
15	QPSK	1	74	22.24	22.54	22.35				
15	QPSK	50	0	21.48	21.64	21.55				
15	QPSK	50	24	21.36	21.49	21.43			23	1
15	QPSK	50	39	21.34	21.56	21.54				
15	QPSK	75	0	21.57	21.68	21.58				
15	QPSK	75	39	21.73	21.82	21.75				
15	16QAM	1	37	21.71	21.78	21.71			23	1
15	16QAM	1	87	21.68	21.78	21.65				
15	16QAM	39	0	20.44	20.51	20.55				
15	16QAM	39	20	20.40	20.42	20.39				
15	16QAM	75	0	20.44	20.55	20.43			22	2
15	16QAM	75	20	20.45	20.48	20.45				
15	16QAM	1	0	20.62	20.69	20.67				
15	16QAM	1	49	20.47	20.67	20.56				
15	16QAM	1	74	20.54	20.59	20.51			21	3
15	16QAM	39	0	19.43	19.59	19.52				
15	16QAM	39	20	19.38	19.38	19.38				
15	16QAM	39	39	19.33	19.42	19.42				
15	16QAM	75	0	19.43	19.53	19.48			19	5
15	16QAM	75	20	19.45	19.48	19.45				
15	256QAM	1	37	17.50	17.57	17.47				
15	256QAM	1	74	17.53	17.57	17.58				
15	256QAM	39	0	17.52	17.56	17.56			19	5
15	256QAM	39	20	17.37	17.51	17.47				
15	256QAM	39	39	17.44	17.54	17.49				
15	256QAM	75	0	17.47	17.57	17.48				
Channel				16669	16690	16690	Turn-up [dB]	MPR [dB]		
Frequency [MHz]				16669	16690	16690				
10	QPSK	1	0	22.23	22.43	22.42			24	0
10	QPSK	1	25	22.14	22.50	22.48				
10	QPSK	1	49	22.17	22.51	22.35				
10	QPSK	25	0	21.62	21.64	21.62				
10	QPSK	25	12	21.37	21.41	21.48			23	1
10	QPSK	25	25	21.38	21.60	21.46				
10	QPSK	25	39	21.46	21.54	21.50				
10	16QAM	1	0	21.62	21.81	21.73				
10	16QAM	1	25	21.71	21.89	21.81			23	1
10	16QAM	1	49	21.67	21.81	21.74				
10	16QAM	25	0	20.52	20.51	20.49				
10	16QAM	25	12	20.30	20.48	20.45				
10	16QAM	39	0	20.37	20.49	20.46			22	2
10	16QAM	39	12	20.37	20.49	20.46				
10	16QAM	50	0	20.49	20.53	20.41				
10	16QAM	50	0	20.63	20.66	20.67				
10	16QAM	1	0	20.45	20.61	20.61			22	2
10	16QAM	1	49	20.45	20.61	20.61				
10	16QAM	25	0	19.51	19.62	19.43				
10	16QAM	25	12	19.36	19.45	19.47				
10	16QAM	25	25	19.36	19.43	19.35			21	3
10	16QAM	50	0	19.43	19.55	19.42				
10	256QAM	1	25	17.56	17.62	17.58				
10	256QAM	1	25	17.42	17.46	17.53				
10	256QAM	1	25	17.52	17.56	17.57			19	5
10	256QAM	25	12	17.40	17.44	17.47				
10	256QAM	25	12	17.40	17.44	17.47				
10	256QAM	25	25	17.36	17.54	17.47				
10	256QAM	50	0	17.48	17.64	17.44			19	5
10	256QAM	50	12	17.40	17.64	17.44				
10	256QAM	50	12	17.40	17.64	17.44				
10	256QAM	50	25	17.36	17.54	17.47				
Channel				16663	16663	16663	Turn-up [dB]	MPR [dB]		
Frequency [MHz]				16663	16663	16663				
5	QPSK	1	0	22.21	22.53	22.45			24	0
5	QPSK	1	12	22.24	22.48	22.48				
5	QPSK	1	24	22.22	22.43	22.33				
5	QPSK	1	49	21.48	21.45	21.46				
5	QPSK	12	7	21.38	21.44	21.42			23	1
5	QPSK	12	13	21.33	21.52	21.42				
5	QPSK	25	0	21.48	21.49	21.49				
5	QPSK	25	0	21.74	21.90	21.77				
5	16QAM	1	0	21.66	21.82	21.72			23	1
5	16QAM	1	12	21.63	21.73	21.63				
5	16QAM	1	24	21.60	21.79	21.76				
5	16QAM	12	0	20.42	20.58	20.54				
5	16QAM	12	7	20.33	20.63	20.48			22	2
5	16QAM	12	13	20.41	20.44	20.52				
5	16QAM	25	0	20.48	20.52	20.50				
5	16QAM	25	0	20.48	20.53	20.49				
5	16QAM	1	0	20.55	20.75	20.58			22	2
5	16QAM	1	8	20.46	20.62	20.59				
5	16QAM	1	24	20.44	20.59	20.61				
5	16QAM	12	0	19.42	19.56	19.53				
5	16QAM	12	7	19.35	19.53	19.46			21	3
5	16QAM	12	13	19.36	19.38	19.43				
5	16QAM	25	0	19.46	19.52	19.44				
5	256QAM	1	12	17.50	17.56	17.54				
5	256QAM	1	12	17.39	17.47	17.53			19	5
5	256QAM	1	24	17.39	17.51	17.58				
5	256QAM	1	24	17.52	17.56	17.56				
5	256QAM	12	7	17.42	17.48	17.44				
5	256QAM	12	13	17.39	17.56	17.47			19	5
5	256QAM	12	13	17.47	17.57	17.48				
5	256QAM	50	0	17.47	17.67	17.47				
5	256QAM	50	12	17.40	17.67	17.45				
Channel				16653	16653	16653	Turn-up [dB]	MPR [dB]		
Frequency [MHz]				16653	16653	16653				
3	QPSK	1	0	22.25	22.54	22.45			24	0
3	QPSK	1	8	22.21	22.44	22.38				
3	QPSK	1	14	22.17	22.48	22.35				
3	QPSK	1	24	22.22	22.43	22.33				
3	QPSK	8	4	21.38	21.45	21.46			23	1
3	QPSK	8	7	21.35	21.56	21.49				
3	QPSK	15	0	21.48	21.62	21.52				
3	16QAM	1	0	21.61	21.91	21.79				
3	16QAM	1	8	21.60	21.81	21.71			23	1
3	16QAM	1	14	21.65	21.81	21.69				
3	16QAM	1	24	21.63	21.84	21.69				
3	16QAM	8	4	20.34	20.43	20.38				
3	16QAM	8	7	20.41	20.41	20.52			22	2
3	16QAM	15	0	20.42	20.53	20.46				
3	16QAM	15	0	20.54	20.61	20.55				
3	16QAM	1	8	20.49	20.59	20.51				
3	16QAM	1	14	20.45	20.63	20.54			22	2
3	16QAM	8	4	19.34	19.54	19.39				
3	16QAM	8	7	19.30	19.46	19.46				
3	16QAM	15	0	19.45	19.57	19.50				
3	256QAM	1	0	17.56	17.64	17.54			21	3
3	256QAM	1	8	17.49	17.49	17.50				
3	256QAM	1	14	17.54	17.49	17.50				
3	256QAM	8	4	17.56	17.60	17.51				
3	256QAM	8	7	17.37	17.45	17.49			19	5
3	256QAM	8	7	17.48	17.54	17.44				
3	256QAM	15	0	17.47	17.67	17.45				
Channel				16657	16657	16657	Turn-up [dB]	MPR [dB]		
Frequency [MHz]				16657	16657	16657				
1.4	QPSK	1	0	22.31	22.57	22.44			24	0
1.4	QPSK	1	8	22.30	22.61	22.46				
1.4	QPSK	1	0	22.23	22.42	22.40				
1.4	QPSK	3	0	22.17	22.51	22.38				
1.4	QPSK	3	3	22.12	22.29	22.34			23	1
1.4	QPSK	6	0	21.50	21.96	21.56				
1.4	QPSK	6	3	21.52	21.78	21.63				
1.4	16QAM	1	5	21.70	21.77	21.79				

Band 13 Ant 0									
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.66	22.66	22.66	24	0	
10	QPSK	1	25	22.61	22.61	22.61			
10	QPSK	1	49	22.66	22.66	22.66			
10	QPSK	25	0	22.66	22.66	22.66	23	1	
10	QPSK	25	12	21.84	21.84	21.84			
10	QPSK	25	25	21.81	21.81	21.81			
10	QPSK	50	0	21.85	21.85	21.85	23	1	
10	16QAM	1	0	22.29	22.29	22.29			
10	16QAM	1	25	22.24	22.24	22.24			
10	16QAM	1	49	22.26	22.26	22.26	22	2	
10	16QAM	25	0	20.94	20.94	20.94			
10	16QAM	25	12	20.90	20.90	20.90			
10	16QAM	25	25	20.95	20.95	20.95	22	2	
10	16QAM	50	0	20.79	20.79	20.79			
10	16QAM	50	12	20.75	20.75	20.75			
10	16QAM	50	25	20.76	20.76	20.76	21	3	
10	16QAM	1	0	21.54	21.54	21.54			
10	16QAM	1	25	21.06	21.06	21.06			
10	16QAM	1	49	21.06	21.06	21.06	22	2	
10	16QAM	25	0	19.83	19.83	19.83			
10	16QAM	25	12	19.75	19.75	19.75			
10	16QAM	25	25	19.71	19.71	19.71	21	3	
10	16QAM	50	0	19.83	19.83	19.83			
10	16QAM	50	12	19.80	19.80	19.80			
10	256QAM	1	0	16.90	16.90	16.90	19	5	
10	256QAM	1	25	16.94	16.94	16.94			
10	256QAM	1	49	17.69	17.69	17.69			
10	256QAM	25	0	17.66	17.66	17.66	19	5	
10	256QAM	25	12	17.78	17.78	17.78			
10	256QAM	25	25	17.79	17.79	17.79			
10	256QAM	50	0	17.70	17.70	17.70	19	5	
10	256QAM	50	12	17.70	17.70	17.70			
10	256QAM	50	25	17.70	17.70	17.70			

Band 14 Ant 0									
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.74	22.74	22.74	24	0	
10	QPSK	1	25	22.69	22.69	22.69			
10	QPSK	1	49	22.80	22.80	22.80			
10	QPSK	25	0	21.79	21.79	21.79	23	1	
10	QPSK	25	12	21.61	21.61	21.61			
10	QPSK	25	25	21.55	21.55	21.55			
10	QPSK	50	0	21.73	21.73	21.73	23	1	
10	16QAM	1	0	22.03	22.03	22.03			
10	16QAM	1	25	22.05	22.05	22.05			
10	16QAM	1	49	22.09	22.09	22.09	22	2	
10	16QAM	25	0	20.70	20.70	20.70			
10	16QAM	25	12	20.67	20.67	20.67			
10	16QAM	25	25	20.62	20.62	20.62	22	2	
10	16QAM	50	0	20.54	20.54	20.54			
10	16QAM	50	12	20.54	20.54	20.54			
10	16QAM	50	25	20.56	20.56	20.56	22	2	
10	16QAM	1	0	20.96	20.96	20.96			
10	16QAM	1	25	20.90	20.90	20.90			
10	16QAM	1	49	20.90	20.90	20.90	21	3	
10	16QAM	25	0	19.83	19.83	19.83			
10	16QAM	25	12	19.87	19.87	19.87			
10	16QAM	25	25	19.84	19.84	19.84	21	3	
10	16QAM	50	0	19.84	19.84	19.84			
10	16QAM	50	12	19.86	19.86	19.86			
10	256QAM	1	0	17.76	17.76	17.76	19	5	
10	256QAM	1	25	17.78	17.78	17.78			
10	256QAM	1	49	17.69	17.69	17.69			
10	256QAM	25	0	17.69	17.69	17.69	19	5	
10	256QAM	25	12	17.65	17.65	17.65			
10	256QAM	25	25	17.68	17.68	17.68			
10	256QAM	50	0	17.68	17.68	17.68	19	5	
10	256QAM	50	12	17.68	17.68	17.68			
10	256QAM	50	25	17.68	17.68	17.68			

Band 17 Ant 0									
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.79	22.83	22.79	24	0	
10	QPSK	1	25	22.83	22.87	22.83			
10	QPSK	1	49	22.49	22.65	22.60			
10	QPSK	25	0	21.84	21.80	21.81	23	1	
10	QPSK	25	12	21.68	21.74	21.70			
10	QPSK	25	25	21.60	21.72	21.69			
10	QPSK	50	0	21.80	21.81	21.79	23	1	
10	16QAM	1	0	22.03	22.08	22.03			
10	16QAM	1	25	22.03	22.13	22.01			
10	16QAM	1	49	21.82	22.09	21.94	22	2	
10	16QAM	25	0	20.73	20.87	20.69			
10	16QAM	25	12	20.67	20.79	20.65			
10	16QAM	25	25	20.66	20.84	20.62	22	2	
10	16QAM	50	0	20.63	20.65	20.65			
10	16QAM	1	0	20.94	20.99	21.00			
10	16QAM	1	25	20.86	21.04	20.91	22	2	
10	16QAM	1	49	20.85	20.88	20.83			
10	16QAM	25	0	19.72	19.73	19.59			
10	16QAM	25	12	19.63	19.67	19.60	21	3	
10	16QAM	25	25	19.62	19.56	19.61			
10	16QAM	50	0	19.58	19.62	19.54			
10	256QAM	1	0	17.61	17.67	17.60	19	5	
10	256QAM	1	25	17.62	17.71	17.71			
10	256QAM	1	49	17.60	17.78	17.69			
10	256QAM	25	0	17.68	17.71	17.61	19	5	
10	256QAM	25	12	17.59	17.59	17.45			
10	256QAM	25	25	17.63	17.70	17.60			
10	256QAM	50	0	17.60	17.73	17.67	19	5	
10	256QAM	50	12	17.62	17.73	17.67			
10	256QAM	50	25	17.61	17.65	17.61			

Band 25 Ant 0									
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPE (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.58	22.60	22.48	24	0	
20	QPSK	1	49	22.57	22.57	22.41			
20	QPSK	1	99	22.39	22.44	22.34			
20	QPSK	50	0	21.63	21.61	21.52	23	1	
20	QPSK	50	24	21.48	21.48	21.43			
20	QPSK	50	50	21.31	21.45	21.35			
20	QPSK	150	0	21.63	21.64	21.51	23	1	
20	16QAM	1	0	22.37	22.37	22.18			
20	16QAM	1	49	21.74	21.87	21.73			
20	16QAM	1	99	21.72	21.85	21.88	22	2	
20	16QAM	50	0	20.37	20.51	20.33			
20	16QAM	50	24	20.31	20.53	20.37			
20	16QAM	50	50	20.30	20.45	20.30	22	2	
20	16QAM	150	0	20.30	20.41	20.24			
20	16QAM	1	0	20.64	20.78	20.77			
20	16QAM	1	49	20.59	20.78	20.69	22	2	
20	16QAM	1	99	20.53	20.62	20.53			
20	16QAM	50	0	19.43	19.47	19.38	21	3	
20	16QAM	50	24	19.36	19.39	19.28			
20	16QAM	50	50	19.34	19.38	19.24			
20	16QAM	100	0	19.33	19.43	19.29	21	3	
20	25QAM	1	0	17.47	17.49	17.50			
20	25QAM	1	49	17.52	17.52	17.54			
20	25QAM	1	99	17.56	17.54	17.63	19	5	
20	25QAM	50	0	17.44	17.44	17.43			
20	25QAM	50	24	17.30	17.39	17.19			
20	25QAM	50	50	17.30	17.39	17.19	19	5	
20	25QAM	150	0	17.34	17.34	17.31			
20	25QAM	1	0	17.37	17.41	17.34			
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.52	22.53	22.54	24	0	
20	QPSK	1	49	22.49	22.49	22.43			
20	QPSK	1	99	22.25	22.30	22.24			
20	QPSK	50	0	21.48	21.48	21.43	23	1	
20	QPSK	50	24	21.27	21.44	21.31			
20	QPSK	50	50	21.25	21.38	21.29			
20	QPSK	150	0	21.48	21.49	21.37	23	1	
20	16QAM	1	0	21.56	21.79	21.67			
20	16QAM	1	49	21.65	21.79	21.69			
20	16QAM	1	99	21.52	21.72	21.64	22	2	
20	16QAM	50	0	20.28	20.48	20.29			
20	16QAM	50	24	20.18	20.48	20.27			
20	16QAM	50	50	20.17	20.32	20.24	22	2	
20	16QAM	150	0	20.58	20.65	20.62			
20	16QAM	1	0	20.64	20.78	20.77			
20	16QAM	1	49	20.59	20.78	20.69	22	2	
20	16QAM	1	99	20.53	20.62	20.53			
20	16QAM	50	0	19.43	19.47	19.38	21	3	
20	16QAM	50	24	19.36	19.39	19.28			
20	16QAM	50	50	19.34	19.38	19.24			
20	16QAM	100	0	19.33	19.43	19.29	21	3	
20	25QAM	1	0	17.47	17.49	17.50			
20	25QAM	1	49	17.52	17.52	17.54			
20	25QAM	1	99	17.56	17.54	17.63	19	5	
20	25QAM	50	0	17.44	17.44	17.43			
20	25QAM	50	24	17.30	17.39	17.19			
20	25QAM	50	50	17.30	17.39	17.19	19	5	
20	25QAM	150	0	17.34	17.34	17.31			
20	25QAM	1	0	17.37	17.41	17.30			
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.49	22.53	22.50	24	0	
20	QPSK	1	49	22.48	22.47	22.43			
20	QPSK	1	99	22.25	22.30	22.23			
20	QPSK	50	0	21.48	21.48	21.43	23	1	
20	QPSK	50	24	21.28	21.43	21.33			
20	QPSK	50	50	21.27	21.40	21.30			
20	QPSK	150	0	21.48	21.53	21.41	23	1	
20	16QAM	1	0	21.57	21.79	21.62			
20	16QAM	1	49	21.68	21.81	21.71			
20	16QAM	1	99	21.58	21.75	21.63	22	2	
20	16QAM	50	0	20.22	20.45	20.18			
20	16QAM	50	24	20.12	20.45	20.20			
20	16QAM	50	50	20.11	20.31	20.20	22	2	
20	16QAM	150	0	20.57	20.68	20.65			
20	16QAM	1	0	20.64	20.78	20.77			
20	16QAM	1	49	20.57	20.62	20.67	22	2	
20	16QAM	1	99	20.51	20.57	20.54			
20	16QAM	50	0	19.43	19.47	19.38	21	3	
20	16QAM	50	24	19.36	19.39	19.28			
20	16QAM	50	50	19.34	19.38	19.24			
20	16QAM	100	0	19.33	19.43	19.29	21	3	
20	25QAM	1	0	17.59	17.64	17.66			
20	25QAM	1	49	17.57	17.53	17.67			
20	25QAM	1	99	17.58	17.58	17.67	19	5	
20	25QAM	50	0	17.44	17.47	17.45			
20	25QAM	50	24	17.30	17.37	17.25			
20	25QAM	50	50	17.24	17.37	17.25	19	5	
20	25QAM	150	0	17.26	17.30	17.31			
20	25QAM	1	0	17.29	17.29	17.30			
20	25QAM	1	49	17.41	17.40	17.19	19	5	
20	25QAM	1	99	17.41	17.40	17.19			
20	25QAM	1	0	17.41	17.40	17.19			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.48	22.48	22.44	24	0	
5	QPSK	1	12	22.28	22.28	22.25			
5	QPSK	1	24	22.18	22.22	22.25			
5	QPSK	12	0	21.39	21.51	21.46	23	1	
5	QPSK	12	12	21.26	21.44	21.29			
5	QPSK	12	24	21.18	21.33	21.21			
5	QPSK	25	0	21.46	21.52	21.37	23	1	
5	QPSK	1	0	21.63	21.72	21.67			
5	QPSK	1	12	21.51	21.74	21.68			
5	16QAM	1	24	21.58	21.73	21.61	22	2	
5	16QAM	12	0	20.33	20.41	20.26			
5	16QAM	12	12	20.19	20.40	20.33			
5	16QAM	12	18	20.17	20.25	20.19	22	2	
5	16QAM	25	0	20.30	20.39	20.29			
5	16QAM	1	0	20.50	20.53	20.60			
5	16QAM	1	12	20.62	20.67	20.58	22	2	
5	16QAM	1	24	20.53	20.64	20.56			
5	16QAM	12	0	19.35	19.37	19.33			
5	16QAM	12	7	19.29	19.23	19.18	21	3	
5	16QAM	12	18	19.20	19.18	19.18			
5	16QAM	25	0	19.18	19.32	19.24			
5	16QAM	1	0	17.49	17.56	17.60	19	5	
5	16QAM	1	12	17.43	17.41	17.51			
5	16QAM	1	24	17.41	17.41	17.58			
5	16QAM	12	0	17.27	17.38	17.41	19	5	
5	16QAM	12	12	17.25	17.34	17.41			
5	16QAM	12	18	17.33	17.19	17.21			
5	25QAM	25	0	17.30	17.31	17.18	19	5	
5	25QAM	1	0	17.30	17.34	17.18			
5	25QAM	1	0	17.30	17.34	17.18			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.45	22.54	22.38	24	0	
3	QPSK	1	18	22.38	22.47	22.33			
3	QPSK	1	14	22.23	22.38	22.19			
3	QPSK	8	0	21.37	21.49	21.45	23	1	
3	QPSK	8	8	21.24	21.35	21.27			
3	QPSK	8	7	21.30	21.35	21.21			
3	QPSK	15	0	21.39	21.55	21.49	23	1	
3	QPSK	15	15	21.26	21.47	21.47			
3	QPSK	1	8	21.61	21.81	21.58			
3	QPSK	1	14	21.66	21.69	21.54	23	1	
3	QPSK	8	0	20.44	20.58	20.48			
3	QPSK	8	7	20.48	20.25	20.22			
3	QPSK	8	7	20.22	20.33	20.21	22	2	
3	QPSK	1	0	20.52	20.70	20.70			
3	QPSK	1	14	20.43	20.48	20.52			
3	QPSK	8	0	19.34	19.42	19.31	21	3	
3	QPSK	8	8	19.30	19.38	19.29			
3	QPSK	8	8	19.33	19.31	19.21			
3	QPSK	15	0	19.39	19.33	19.24	21	3	
3	QPSK	15	15	19.26	19.33	19.24			
3	QPSK	1	8	21.44	21.63	21.53			
3	QPSK	1	14	21.42	21.40	21.54	19	5	
3	QPSK	8	0	17.25	17.38	17.41			
3	QPSK	8	7	17.25	17.32	17.17			
3	QPSK	8	7	17.37	17.22	17.17	19	5	
3	QPSK	1	0	17.38	17.34	17.18			
3	QPSK	1	0	17.38	17.34	17.18			
Channel									
Frequency (MHz)									
14	QPSK	1	0	22.47	22.48	22.43	24	0	
14	QPSK	1	1	22.34	22.33	22.23			
14	QPSK	1	8	22.17	22.27	22.22			
14	QPSK	1	14	22.07	22.15	22.23	23	1	
14	QPSK	1	21	22.09	22.16	22.08			
14	QPSK	1	3	22.15	22.21	22.14			
14	QPSK	1	21	21.87	21.81	21.74	23	1	
14	QPSK	1	0	21.62	21.75	21.63			
14	QPSK	1	3	21.68	21.73	21.61			
14	QPSK	1	14	21.58	21.72	21.59	23	1	
14	QPSK	1	21	21.52	21.68	21.52			
14	QPSK	3	0	21.83	21.81	21.64			
14	QPSK	3	1	21.81	21.81	21.61	22	2	
14	QPSK	3	0	20.27	20.28	20.24			
14	QPSK	1	0	20.51	20.69	20.71			
14	QPSK	1	0	20.54	20.72	20.66	22	2	
14	QPSK	1	8	20.38	20.56	20.47			
14	QPSK	1	8	20.41	20.51	20.39			
14	QPSK	3	0	20.33	20.38	20.34	21	3	
14	QPSK	3	8	20.32	20.43	20.34			
14	QPSK	3	8	20.35	20.46	20.35			
14	QPSK	1	0	17.57	17.65	17.66	19	5	
14	QPSK	1	3	17.44	17.44	17.47			
14	QPSK	1	3						

Band 26 for FCC Ant 0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turnup Init. (dB)	APR3 (dB)				
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.55	22.64	22.61			24	0		
15	QPSK	1	3	22.45	22.44	22.45						
15	QPSK	1	74	22.40	22.43	22.32			23	1		
15	QPSK	36	0	21.63	21.73	21.54						
15	QPSK	36	26	21.46	21.56	21.41			23	1		
15	QPSK	36	39	21.34	21.43	21.47						
15	QPSK	75	0	21.58	21.62	21.60			23	1		
15	16QAM	1	0	21.82	21.84	21.85						
15	16QAM	1	37	21.74	21.86	21.81			23	1		
15	16QAM	1	74	21.79	21.84	21.69						
15	16QAM	36	0	20.41	20.52	20.32			22	2		
15	16QAM	36	20	20.44	20.53	20.47						
15	16QAM	36	39	20.39	20.49	20.36			22	2		
15	16QAM	75	0	20.37	20.51	20.49						
15	16QAM	75	26	20.34	20.44	20.42			22	2		
15	16QAM	75	39	20.27	20.70	20.52						
15	64QAM	1	74	20.68	20.71	20.65			21	3		
15	64QAM	36	0	19.45	19.55	19.46						
15	64QAM	36	20	19.35	19.47	19.34			19	5		
15	64QAM	36	39	19.31	19.36	19.40						
15	64QAM	75	0	19.38	19.50	19.42			19	5		
15	256QAM	1	37	17.57	17.67	17.63						
15	256QAM	1	74	17.63	17.68	17.58			19	5		
15	256QAM	36	0	17.43	17.57	17.48						
15	256QAM	36	20	17.33	17.41	17.34			19	5		
15	256QAM	36	39	17.34	17.41	17.39						
15	256QAM	75	0	17.36	17.45	17.42			Turnup (dB) APR3 (dB)			
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.55	22.42	22.49			24	0		
10	QPSK	1	26	22.48	22.49	22.40						
10	QPSK	1	49	22.32	22.33	22.28			23	1		
10	QPSK	26	0	21.62	21.49	21.47						
10	QPSK	26	12	21.45	21.41	21.33			23	1		
10	QPSK	26	26	21.32	21.22	21.33						
10	QPSK	50	0	21.65	21.69	21.66			23	1		
10	16QAM	1	0	21.82	21.87	21.79						
10	16QAM	1	26	21.83	21.84	21.75			22	2		
10	16QAM	1	49	21.79	21.82	21.68						
10	16QAM	26	0	20.40	20.34	20.46			21	3		
10	16QAM	26	12	20.46	20.34	20.37						
10	16QAM	50	0	20.35	20.29	20.34			19	5		
10	64QAM	1	0	20.68	20.63	20.68						
10	64QAM	1	26	20.68	20.63	20.65			22	2		
10	64QAM	1	49	20.58	20.57	20.53						
10	64QAM	26	0	19.42	19.30	19.37			21	3		
10	64QAM	26	12	19.34	19.29	19.28						
10	64QAM	26	26	19.20	19.21	19.31			19	5		
10	64QAM	50	0	19.35	19.31	19.28						
10	256QAM	1	26	17.59	17.44	17.59			19	5		
10	256QAM	1	49	17.68	17.56	17.49						
10	256QAM	26	0	17.48	17.54	17.53			19	5		
10	256QAM	26	12	17.29	17.28	17.28						
10	256QAM	26	26	17.34	17.21	17.34			Turnup (dB) APR3 (dB)			
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.55	22.45	22.47			24	0		
5	QPSK	1	12	22.43	22.29	22.40						
5	QPSK	1	24	22.34	22.25	22.21			23	1		
5	QPSK	12	0	21.51	21.42	21.29						
5	QPSK	12	13	21.33	21.20	21.37			23	1		
5	QPSK	36	0	21.65	21.69	21.66						
5	16QAM	1	0	21.85	21.88	21.71			23	1		
5	16QAM	1	12	21.80	21.68	21.72						
5	16QAM	1	24	21.80	21.74	21.68			22	2		
5	16QAM	12	0	20.47	20.32	20.47						
5	16QAM	12	7	20.47	20.39	20.34			21	3		
5	16QAM	12	14	20.35	20.38	20.27						
5	16QAM	25	0	20.40	20.29	20.39			22	2		
5	64QAM	1	0	20.69	20.63	20.71						
5	64QAM	1	12	20.61	20.65	20.65			21	3		
5	64QAM	1	24	20.64	20.62	20.63						
5	64QAM	12	0	19.42	19.29	19.27			19	5		
5	64QAM	12	7	19.37	19.28	19.26						
5	64QAM	12	14	19.23	19.23	19.31			19	5		
5	64QAM	25	0	19.42	19.25	19.31						
5	256QAM	1	0	17.67	17.58	17.68			19	5		
5	256QAM	1	12	17.58	17.47	17.52						
5	256QAM	1	24	17.68	17.54	17.53			19	5		
5	256QAM	12	0	17.48	17.34	17.34						
5	256QAM	12	7	17.30	17.28	17.32			19	5		
5	256QAM	12	13	17.41	17.27	17.35						
5	256QAM	25	0	17.37	17.27	17.38			Turnup (dB) APR3 (dB)			
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.53	22.40	22.47			24	0		
3	QPSK	1	8	22.47	22.34	22.33						
3	QPSK	1	14	22.34	22.30	22.29			23	1		
3	QPSK	8	0	21.63	21.67	21.66						
3	QPSK	8	4	21.43	21.36	21.29			23	1		
3	QPSK	8	7	21.29	21.18	21.32						
3	QPSK	15	0	21.15	21.45	21.46			23	1		
3	16QAM	1	0	21.80	21.72	21.75						
3	16QAM	1	8	21.74	21.63	21.75			23	1		
3	16QAM	1	14	21.65	21.75	21.67						
3	16QAM	8	0	20.46	20.35	20.36			22	2		
3	16QAM	8	4	20.44	20.39	20.35						
3	16QAM	8	7	20.35	20.29	20.25			21	3		
3	16QAM	15	0	20.36	20.32	20.33						
3	64QAM	1	0	20.75	20.70	20.73			22	2		
3	64QAM	1	8	20.67	20.62	20.63						
3	64QAM	1	14	20.58	20.58	20.54			21	3		
3	64QAM	8	0	19.45	19.31	19.29						
3	64QAM	8	4	19.36	19.23	19.20			19	5		
3	64QAM	8	7	19.25	19.18	19.31						
3	64QAM	15	0	19.40	19.25	19.36			19	5		
3	256QAM	1	0	17.61	17.56	17.56						
3	256QAM	1	8	17.60	17.42	17.53			19	5		
3	256QAM	1	14	17.58	17.48	17.53						
3	256QAM	8	0	17.46	17.33	17.26			19	5		
3	256QAM	8	4	17.25	17.28	17.23						
3	256QAM	8	7	17.39	17.31	17.35			19	5		
3	256QAM	15	0	17.40	17.34	17.38						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.52	22.45	22.45			24	0		
1.4	QPSK	1	3	22.47	22.31	22.35						
1.4	QPSK	1	5	22.29	22.31	22.16			23	1		
1.4	QPSK	3	0	22.47	22.37	22.41						
1.4	QPSK	3	1	22.35	22.19	22.27			23	1		
1.4	QPSK	3	3	22.20	22.19	22.05						
1.4	QPSK	15	0	21.57	21.43	21.39			23	1		
1.4	16QAM	1	0	21.87	21.72	21.72						
1.4	16QAM	1	3	21.79	21.61	21.66			23	1		
1.4	16QAM	1	5	21.70	21.65	21.59						
1.4	16QAM	3	0	21.77	21.60	21.68			22	2		
1.4	16QAM	3	1	21.74	21.53	21.61						
1.4	16QAM	3	3	21.67	21.61	21.49			22	2		
1.4	16QAM	6	0	20.46	20.33	20.40						
1.4	16QAM	6	1	20.50	20.46	20.73			22	2		
1.4	16QAM	6	3	20.58	20.51	20.56						
1.4	16QAM	6	5	20.48	20.53	20.50			22	2		
1.4	16QAM	6	7	20.71	20.50	20.62						
1.4	16QAM	6	9	20.77	20.52	20.59			22	2		
1.4	16QAM	6	11	20.84	20.51	20.56						
1.4	16QAM	6	13	20.58	20.41	20.56			21	3		
1.4	16QAM	6	15	20.45	20.25	20.38						
1.4	16QAM	6	17	20.57	20.50	20.47			19	5		
1.4	16QAM	6	19	20.77	20.52	20.39						
1.4	256QAM	1	3	17.57	17.50	17.48			19	5		
1.4	256QAM	1	5	17.51	17.38	17.33						
1.4	256QAM	3	0	17.31	17.26	17.30			19	5		
1.4	256QAM	3	1	17.33	17.26	17.28						
1.4	256QAM	3	3	17.24	17.24	17.24			19	5		
1.4	256QAM	6	0	17.45	17.30	17.30						



Band 38 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency [MHz]				37850	38050	38150			
20	QPSK	1	0	22.48	22.56	22.47	24	0	
20	QPSK	1	49	22.40	22.31	22.30			
20	QPSK	1	98	22.21	22.38	22.28			
20	QPSK	50	0	21.41	21.50	21.50			
20	QPSK	50	24	21.25	21.39	21.33	23	1	
20	QPSK	50	49	21.34	21.29	21.31			
20	QPSK	100	0	21.46	21.53	21.50			
20	QPSK	100	50	21.89	21.78	21.69			
20	16QAM	1	0	21.61	21.75	21.69	23	1	
20	16QAM	1	49	21.59	21.78	21.68			
20	16QAM	50	0	20.34	20.41	20.32			
20	16QAM	50	24	20.34	20.45	20.28			
20	16QAM	50	50	20.19	20.37	20.24	22	2	
20	16QAM	100	0	20.36	20.36	20.26			
20	64QAM	1	0	20.58	20.68	20.60			
20	64QAM	1	49	20.57	20.65	20.58			
20	64QAM	1	99	20.51	20.61	20.55	22	2	
20	64QAM	50	0	19.34	19.42	19.33			
20	64QAM	50	24	19.27	19.28	19.26			
20	64QAM	50	50	19.38	19.29	19.26			
20	256QAM	1	0	18.21	18.31	18.17	21	3	
20	256QAM	1	49	17.88	17.93	17.83			
20	256QAM	50	24	17.46	17.58	17.48			
20	256QAM	50	50	17.47	17.56	17.45			
20	256QAM	50	24	17.25	17.38	17.17	19	5	
20	256QAM	50	50	17.27	17.28	17.14			
20	256QAM	100	0	17.34	17.30	17.31			
20	256QAM	100	0	17.34	17.30	17.31			
Channel									
Frequency [MHz]				37825	38050	38175	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	22.33	22.47	22.38	24	0	
15	QPSK	1	37	22.28	22.16	22.18			
15	QPSK	1	74	22.25	22.33	22.15			
15	QPSK	36	0	21.34	21.42	21.37			
15	QPSK	36	20	21.14	21.24	21.17	23	1	
15	QPSK	36	39	21.18	21.13	21.25			
15	QPSK	75	0	21.38	21.39	21.30			
15	QPSK	75	0	21.59	21.86	21.81			
15	16QAM	1	37	21.55	21.67	21.44	23	1	
15	16QAM	1	74	21.54	21.72	21.51			
15	16QAM	36	0	20.24	20.36	20.19			
15	16QAM	36	20	20.22	20.34	20.13			
15	16QAM	36	39	20.49	20.29	20.18	22	2	
15	16QAM	75	0	20.26	20.25	20.22			
15	16QAM	75	0	20.44	20.38	20.45			
15	64QAM	1	37	20.52	20.49	20.51			
15	64QAM	1	74	20.44	20.47	20.39	22	2	
15	64QAM	36	0	19.25	19.37	19.25			
15	64QAM	36	20	19.15	19.17	19.20			
15	64QAM	36	39	19.26	19.24	19.21			
15	64QAM	75	0	19.05	19.21	19.01	19	5	
15	256QAM	1	0	17.50	17.52	17.43			
15	256QAM	1	37	17.41	17.48	17.40			
15	256QAM	1	74	17.42	17.45	17.43			
15	256QAM	36	0	17.15	17.23	17.18	19	5	
15	256QAM	36	20	17.16	17.17	17.06			
15	256QAM	36	39	17.25	17.13	17.20			
15	256QAM	75	0	17.26	17.21	17.19			
Channel									
Frequency [MHz]				37800	38050	38300	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	22.38	22.45	22.40	24	0	
10	QPSK	1	49	22.31	22.31	22.30			
10	QPSK	1	49	22.67	22.71	22.60			
10	QPSK	25	0	21.31	21.45	21.40			
10	QPSK	25	12	21.19	21.24	21.11	23	1	
10	QPSK	25	25	21.19	21.14	21.26			
10	QPSK	50	0	21.34	21.39	21.26			
10	16QAM	1	0	21.67	21.70	21.63			
10	16QAM	1	25	21.52	21.62	21.44	23	1	
10	16QAM	1	49	21.47	21.67	21.59			
10	16QAM	25	0	20.28	20.34	20.16			
10	16QAM	25	12	20.28	20.41	20.12			
10	16QAM	25	12	20.38	20.41	20.14	22	2	
10	16QAM	50	0	20.28	20.25	20.22			
10	16QAM	50	0	20.30	20.37	20.53			
10	16QAM	1	25	20.49	20.56	20.42			
10	64QAM	1	49	20.45	20.54	20.50	22	2	
10	64QAM	25	0	19.21	19.38	19.21			
10	64QAM	25	12	19.22	19.30	19.14			
10	64QAM	25	25	19.30	19.25	19.10			
10	64QAM	50	0	19.16	19.25	19.05	21	3	
10	256QAM	1	0	17.51	17.46	17.42			
10	256QAM	1	25	17.41	17.48	17.40			
10	256QAM	1	49	17.38	17.43	17.39			
10	256QAM	25	12	17.17	17.16	17.07	19	5	
10	256QAM	25	12	17.17	17.16	17.07			
10	256QAM	25	25	17.22	17.19	17.09			
10	256QAM	50	0	17.24	17.22	17.22			
10	256QAM	50	0	17.15	17.15	17.05			
Channel									
Frequency [MHz]				37775	38050	38325	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	22.33	22.47	22.37	24	0	
5	QPSK	1	12	22.30	22.25	22.31			
5	QPSK	1	24	22.29	22.24	22.13			
5	QPSK	12	0	21.26	21.48	21.47			
5	QPSK	12	7	21.16	21.27	21.15	23	1	
5	QPSK	12	13	21.20	21.22	21.15			
5	QPSK	25	0	21.36	21.49	21.23			
5	16QAM	1	0	21.62	21.69	21.63			
5	16QAM	1	12	21.48	21.59	21.52	23	1	
5	16QAM	12	13	20.26	20.31	20.14			
5	16QAM	12	7	20.28	20.36	20.14			
5	16QAM	12	13	20.35	20.31	20.14			
5	16QAM	25	0	20.25	20.26	20.18	22	2	
5	16QAM	25	0	20.25	20.26	20.40			
5	16QAM	1	0	20.52	20.62	20.49			
5	16QAM	1	19	20.47	20.58	20.43			
5	64QAM	1	24	20.37	20.47	20.47	21	3	
5	64QAM	12	0	19.26	19.37	19.21			
5	64QAM	12	7	19.18	19.14	19.12			
5	64QAM	12	13	19.23	19.22	19.18			
5	64QAM	25	0	19.14	19.27	19.04	19	5	
5	256QAM	1	0	17.45	17.45	17.45			
5	256QAM	1	12	17.39	17.40	17.39			
5	256QAM	1	24	17.37	17.42	17.43			
5	256QAM	12	0	17.15	17.23	17.03	19	5	
5	256QAM	12	7	17.08	17.18	17.08			
5	256QAM	12	13	17.21	17.13	17.06			
5	256QAM	25	0	17.30	17.20	17.24			

Band 41 Ant 0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Mid Ch / Freq	Power Power Mid Ch / Freq	Power Power High Ch / Freq	Power Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel											
Frequency (MHz)				396750	40185	40620	41055	41490			
20	QPSK	1	0	21.61	21.63	21.63	21.63	21.62	23.00	24	0
20	QPSK	1	49	22.97	22.93	22.93	22.92	22.92			
20	QPSK	1	99	22.76	22.78	22.81	22.99	22.99			
20	QPSK	50	0	22.06	22.03	22.05	22.11	22.11			
20	QPSK	50	24	21.88	21.88	21.90	21.96	21.95	23.00	23	1
20	QPSK	50	49	21.88	21.83	21.88	21.96	21.92			
20	QPSK	100	0	22.26	22.23	22.25	22.31	22.31	23.00		
20	QPSK	100	49	22.26	22.33	22.30	22.45	22.37			
20	QPSK	1	49	22.21	22.24	22.23	22.29	22.28	23	1	
20	QPSK	1	99	22.21	22.26	22.25	22.31	22.30			
20	QPSK	50	0	22.05	22.05	22.07	22.10	22.09			
20	QPSK	50	24	20.83	20.84	20.92	21.05	20.83	22	2	
20	QPSK	50	49	20.83	20.86	20.87	21.00	20.88			
20	QPSK	100	0	21.05	21.03	21.05	21.07	21.07			
20	QPSK	100	49	21.03	21.05	21.05	21.12	21.12			
20	QPSK	1	0	21.13	21.28	21.22	21.25	21.30	23	1	
20	QPSK	1	49	21.29	21.26	21.26	21.32	21.34			
20	QPSK	1	99	21.10	21.23	21.02	21.11	21.15			
20	QPSK	50	0	19.92	19.94	19.89	19.96	19.98			
20	QPSK	50	24	19.89	19.89	19.87	19.93	19.93	21	3	
20	QPSK	50	49	19.89	19.76	19.91	19.85	19.90			
20	QPSK	100	0	19.88	19.74	19.88	19.87	19.81			
20	QPSK	100	49	18.13	18.16	18.16	18.13	18.20			
20	25QPSK	1	49	18.11	18.06	18.08	18.11	18.08	19	5	
20	25QPSK	1	99	18.05	18.15	18.16	18.12	18.14			
20	25QPSK	50	0	17.72	17.66	17.63	17.68	17.68			
20	25QPSK	50	24	17.62	17.70	17.79	17.83	17.71	19	5	
20	25QPSK	50	49	17.67	17.77	17.80	17.82	17.77			
20	25QPSK	100	0	17.72	17.84	17.81	17.85	17.81			
Channel											
Frequency (MHz)				39675	40185	40620	41055	41490			
10	QPSK	1	0	21.61	21.63	21.63	21.63	21.62	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	49	22.84	22.79	22.80	22.87	22.87		24	0
10	QPSK	1	99	22.67	22.69	22.71	22.80	22.80			
10	QPSK	1	74	21.88	21.87	21.88	21.97	21.93			
10	QPSK	36	24	21.77	21.84	21.83	21.91	21.89			
10	QPSK	36	36	21.78	21.72	21.88	21.93	21.79	23	1	
10	QPSK	36	49	21.78	21.82	21.81	21.92	21.82			
10	QPSK	1	0	22.12	22.23	22.16	22.31	22.24			
10	QPSK	1	37	22.19	22.22	22.20	22.26	22.15			
10	QPSK	1	74	22.15	22.20	22.22	22.28	22.28			
10	QPSK	36	24	20.94	20.85	20.87	20.92	20.88	22	2	
10	QPSK	36	36	20.91	20.75	20.81	20.97	20.74			
10	QPSK	36	49	20.91	20.82	20.86	20.92	20.75			
10	QPSK	75	0	20.81	20.80	20.88	20.92	20.74			
10	QPSK	1	0	21.10	21.17	21.13	21.16	21.24	23	2	
10	QPSK	1	49	21.10	21.17	21.13	21.21	21.23			
10	QPSK	1	74	21.07	21.21	21.01	20.96	21.06			
10	QPSK	36	0	19.79	19.90	19.83	19.93	19.83			
10	QPSK	36	24	19.79	19.75	19.86	19.85	19.73	21	3	
10	QPSK	36	36	19.76	19.62	19.82	19.75	19.66			
10	QPSK	75	0	19.78	19.62	19.74	19.84	19.74			
10	25QPSK	1	0	17.66	17.66	17.66	17.66	17.66			
10	25QPSK	1	37	18.05	17.93	18.01	18.03	17.94			
10	25QPSK	1	74	17.96	18.06	18.04	18.05	17.97			
10	25QPSK	36	24	17.67	17.78	17.77	17.80	17.68	19	5	
10	25QPSK	36	20	17.80	17.62	17.74	17.76	17.61			
10	25QPSK	75	0	17.68	17.73	17.77	17.85	17.68			
10	25QPSK	75	49	17.67	17.74	17.78	17.86	17.68			
Channel											
Frequency (MHz)				39678	40186	40620	41055	41490			
10	QPSK	1	0	21.61	21.63	21.63	21.63	21.62	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	49	22.88	22.83	22.82	22.85	22.78		24	0
10	QPSK	1	99	22.67	22.71	22.76	22.80	22.81			
10	QPSK	1	74	21.87	21.88	21.88	21.97	21.93			
10	QPSK	36	24	21.77	21.84	21.78	21.88	21.82			
10	QPSK	36	36	21.81	21.78	21.75	21.85	21.69	23	1	
10	QPSK	36	49	21.80	21.82	21.81	21.92	21.88			
10	QPSK	1	0	22.16	22.24	22.23	22.42	22.24			
10	QPSK	1	20	22.08	22.19	22.20	22.20	22.23	23	1	
10	QPSK	1	74	22.15	22.20	22.22	22.28	22.28			
10	QPSK	36	0	20.95	20.76	20.89	20.95	20.85			
10	QPSK	36	24	20.74	20.71	20.83	20.99	20.73	22	2	
10	QPSK	36	36	20.70	20.70	20.82	20.98	20.70			
10	QPSK	75	0	20.89	20.91	20.82	20.81	20.80			
10	QPSK	1	0	21.60	21.57	21.52	21.55	21.58	23	2	
10	QPSK	1	49	21.60	21.57	21.52	21.55	21.58			
10	QPSK	25	0	19.87	19.89	19.87	19.87	19.73			
10	QPSK	25	24	19.85	19.69	19.79	19.80	19.73	21	3	
10	QPSK	25	49	19.84	19.65	19.75	19.80	19.76			
10	QPSK	50	0	19.81	19.71	19.76	19.86	19.76			
10	25QPSK	1	0	17.68	17.68	17.68	17.68	17.68			
10	25QPSK	1	20	18.06	17.94	18.01	17.99	17.88	19	5	
10	25QPSK	1	49	18.01	18.04	18.13	18.03	18.04			
10	25QPSK	36	24	17.65	17.75	17.72	17.80	17.65	19	5	
10	25QPSK	36	20	17.72	17.56	17.65	17.72	17.62			
10	25QPSK	25	25	17.78	17.84	17.74	17.86	17.70	19	5	
10	25QPSK	25	49	17.68	17.77	17.78	17.89	17.68			
Channel											
Frequency (MHz)				39678	40186	40620	41055	41490			
5	QPSK	1	0	21.60	22.98	22.98	23.98	23.98	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	12	22.84	22.84	22.81	22.88	22.78		24	0
5	QPSK	1	24	22.64	22.68	22.70	22.86	22.81			
5	QPSK	1	36	21.80	21.82	21.80	21.88	21.80			
5	QPSK	12	7	21.78	21.82	21.82	21.82	21.79			
5	QPSK	12	13	21.81	21.72	21.81	21.86	21.81	23	1	
5	QPSK	12	19	21.89	21.86	21.87	22.01	21.88			
5	QPSK	1	0	22.22	22.21	22.25	22.34	22.22			
5	QPSK	1	12	22.13	22.11	22.11	22.22	22.23			
5	QPSK	1	24	22.15	22.09	22.09	22.29	22.28			
5	QPSK	12	0	20.90	20.76	20.84	20.89	20.84	22	2	
5	QPSK	12	7	20.71	20.77	20.87	20.95	20.78			
5	QPSK	12	13	20.77	20.79	20.82	20.93	20.84			
5	QPSK	25	0	20.87	20.83	20.81	20.90	20.83			
5	QPSK	1	0	21.60	21.57	21.50	21.53	21.58	23	2	
5	QPSK	1	12	21.60	21.57	21.50	21.53	21.58			
5	QPSK	1	24	20.97	21.19	20.94	20.98	21.01			
5	QPSK	12	0	19.81	19.92	19.86	19.86	19.75			
5	QPSK	12	7	19.82	19.74	19.83	19.83	19.78	21	3	
5	QPSK	12	13	19.80	19.67	19.87	19.82	19.75			
5	QPSK	25	0	19.79	19.63	19.82	19.92	19.75			
5	QPSK	25	12	19.84	19.63	19.80	19.92	19.75			
5	25QPSK	1	12	18.01	18.03	18.06	18.00	17.97	19	5	
5	25QPSK	1	24	18.04	18.07	18.03	18.08	18.10			
5	25QPSK	12	7	17.86	17.78	17.79	17.83	17.77			
5	25QPSK	12	7	17.72	17.61	17.73	17.70	17.68			
5	25QPSK	12	13	17.76	17.72	17.72	17.79	17.67			
5	25QPSK	25	0	17.65	17.79	17.65	17.75	17.67			



Band 2 Ant 1									
BW [MHz]	Modulation	RS Size	RS Offset	Power Min [Ch./Freq.]	Power Max [Ch./Freq.]	Power Hsp [Ch./Freq.]	Time-up Int. (sec)	MPR (dB)	
Channel									
Frequency [MHz]									
20	QPSK	1	0	22.29	22.37	22.36			
20	QPSK	1	8	22.27	22.28	22.28	24	0	
20	QPSK	1	99	22.08	22.26	22.12			
20	QPSK	50	0	21.27	21.42	21.27			
20	QPSK	50	24	21.09	21.26	21.19	23	1	
20	QPSK	50	50	21.05	21.25	21.18			
20	QPSK	100	0	21.24	21.40	21.19			
20	QPSK	100	24	21.04	21.19	21.07	23	1	
20	16QAM	1	49	21.55	21.63	21.50			
20	16QAM	1	99	21.48	21.61	21.49			
20	16QAM	50	0	20.20	20.29	20.14			
20	16QAM	50	24	20.21	20.34	20.05	22	2	
20	16QAM	50	50	20.08	20.26	20.16			
20	16QAM	100	0	20.09	20.21	20.32			
20	64QAM	1	0	20.38	20.52	20.51			
20	64QAM	1	49	20.37	20.45	20.42	22	2	
20	64QAM	50	0	20.25	20.39	20.40			
20	64QAM	50	0	19.25	19.24	19.16			
20	64QAM	24	19.15	19.16	19.21		21	3	
20	64QAM	50	0	19.19	19.16	19.12			
20	64QAM	100	0	19.11	19.14	19.27			
20	256QAM	1	49	17.43	17.42	17.31	19	5	
20	256QAM	1	99	17.37	17.42	17.43			
20	256QAM	50	0	17.40	17.39	17.32			
20	256QAM	50	24	17.21	17.17	17.23	19	5	
20	256QAM	50	50	17.11	17.14	17.25			
20	256QAM	100	0	17.20	17.19	17.25			
Channel									
Frequency [MHz]									
15	QPSK	1	0	18.07	18.05	18.05			
15	QPSK	1	8	22.15	22.23	22.18	24	0	
15	QPSK	1	24	22.17	22.07	22.11			
15	QPSK	1	74	22.05	22.16	22.05			
15	QPSK	50	0	21.10	21.41	21.20			
15	QPSK	50	24	21.08	21.20	21.10	23	1	
15	QPSK	36	39	21.03	21.15	21.05			
15	QPSK	75	0	21.21	21.22	21.20			
15	16QAM	1	24	21.42	21.55	21.41			
15	16QAM	1	37	21.34	21.59	21.37	23	1	
15	16QAM	50	0	20.13	20.23	20.04			
15	16QAM	36	39	20.02	20.21	20.01	22	2	
15	16QAM	75	0	20.11	20.13	20.15			
15	64QAM	1	0	20.31	20.43	20.47	22	2	
15	64QAM	1	24	20.21	20.39	20.38			
15	64QAM	1	74	20.23	20.34	20.32			
15	64QAM	36	39	19.13	19.12	19.05			
15	64QAM	36	39	19.08	19.06	19.05	21	3	
15	64QAM	36	39	19.10	19.05	19.01			
15	64QAM	75	0	19.08	19.06	19.08			
15	256QAM	1	37	17.32	17.36	17.13	19	5	
15	256QAM	1	74	17.36	17.29	17.31			
15	256QAM	36	39	17.35	17.34	17.08			
15	256QAM	36	39	17.03	17.07	17.15	19	5	
15	256QAM	36	39	17.04	17.05	17.07			
15	256QAM	75	0	17.06	17.14	17.08			
15	256QAM	50	0	17.02	17.15	17.03			
Channel									
Frequency [MHz]									
10	QPSK	1	0	18.05	18.05	18.05			
10	QPSK	1	85	22.15	22.09	22.02	24	0	
10	QPSK	1	49	22.03	22.07	22.07			
10	QPSK	25	12	21.05	21.26	21.10	23	1	
10	QPSK	25	25	21.03	21.05	21.10			
10	16QAM	1	0	21.50	21.52	21.42			
10	16QAM	1	25	21.42	21.48	21.43	23	1	
10	16QAM	25	12	20.44	20.45	20.45			
10	16QAM	25	0	20.11	20.21	20.21	22	2	
10	16QAM	50	0	20.02	20.07	20.04			
10	16QAM	50	0	20.14	20.11	20.21			
10	64QAM	1	0	20.36	20.38	20.48	22	2	
10	64QAM	1	49	20.25	20.37	20.40			
10	64QAM	1	49	20.14	20.30	20.35			
10	64QAM	25	0	19.12	19.12	19.08			
10	64QAM	25	12	19.08	19.15	19.15	21	3	
10	64QAM	25	25	19.04	19.04	19.11			
10	64QAM	50	0	19.11	19.08	19.09			
10	256QAM	1	25	17.27	17.28	17.01	19	5	
10	256QAM	1	25	17.24	17.27	17.23			
10	256QAM	25	12	17.30	17.31	17.26			
10	256QAM	25	12	17.03	17.02	17.10	19	5	
10	256QAM	25	12	17.10	17.07	17.16			
10	256QAM	25	25	17.07	17.06	17.09			
10	256QAM	50	0	17.02	17.15	17.03			
Channel									
Frequency [MHz]									
5	QPSK	1	0	18.03	18.05	18.05			
5	QPSK	1	12	22.05	22.12	22.04	24	0	
5	QPSK	1	24	22.07	22.12	22.00			
5	QPSK	12	6	21.14	21.41	21.14	23	1	
5	QPSK	12	7	21.16	21.17	21.11			
5	QPSK	12	13	21.06	21.14	21.11			
5	QPSK	25	12	21.14	21.25	21.10	23	1	
5	16QAM	1	0	21.48	21.63	21.41			
5	16QAM	1	12	21.45	21.58	21.37	23	1	
5	16QAM	1	14	21.41	21.55	21.47			
5	16QAM	12	6	20.07	20.24	20.05			
5	16QAM	12	7	20.03	20.23	20.25	22	2	
5	16QAM	12	13	20.02	20.10	20.08			
5	16QAM	25	0	20.02	20.15	20.14			
5	64QAM	1	0	20.27	20.46	20.38	22	2	
5	64QAM	1	8	20.24	20.39	20.36			
5	64QAM	1	24	20.20	20.35	20.34			
5	64QAM	12	6	19.12	19.21	19.08			
5	64QAM	12	13	19.08	19.15	19.08	21	3	
5	64QAM	12	13	19.03	19.07	19.00			
5	64QAM	25	0	19.11	19.01	19.15			
5	256QAM	1	17	17.38	17.25	17.40	19	5	
5	256QAM	1	12	17.25	17.27	17.19			
5	256QAM	1	24	17.30	17.21	17.26			
5	256QAM	12	6	17.11	17.14	17.00	19	5	
5	256QAM	12	7	17.08	17.07	17.16			
5	256QAM	12	13	17.08	17.03	17.08			
5	256QAM	25	0	17.06	17.15	17.02			
Channel									
Frequency [MHz]									
3	QPSK	1	0	22.23	22.31	22.24			
3	QPSK	1	8	22.18	22.06	22.06	24	0	
3	QPSK	1	14	22.07	22.12	22.01			
3	QPSK	3	3	21.12	21.32	21.27	23	1	
3	QPSK	3	4	21.11	21.25	21.09			
3	QPSK	15	7	21.03	21.12	21.17	23	1	
3	16QAM	1	0	21.44	21.49	21.43			
3	16QAM	1	8	21.37	21.49	21.32	23	1	
3	16QAM	1	14	21.47	21.47	21.49			
3	16QAM	3	4	20.08	20.22	20.09			
3	16QAM	3	4	20.02	20.23	20.19	22	2	
3	16QAM	15	0	20.04	20.15	20.06			
3	16QAM	15	0	20.02	20.12	20.13			
3	64QAM	1	0	20.34	20.40	20.47	22	2	
3	64QAM	1	8	20.35	20.39	20.34			
3	64QAM	1	14	20.13	20.25	20.26			
3	64QAM	3	4	19.08	19.08	19.11	21	3	
3	64QAM	3	7	19.01	19.03	19.09			
3	256QAM	1	0	17.37	17.30	17.36	19	5	
3	256QAM	1	8	17.27	17.34	17.22			
3	256QAM	3	3	17.02	17.13	17.05			
3	256QAM	3	4	17.05	17.04	17.16	19	5	
3	256QAM	15	0	17.07	17.09	17.10			
3	256QAM	15	0	17.05	17.07	17.06			
Channel									
Frequency [MHz]									
1.4	QPSK	1	0	22.15	22.25	22.23			
1.4	QPSK	1	3	22.09	22.03	22.09	24	0	
1.4	QPSK	1	5	22.06	22.10	22.06			
1.4	QPSK	3	3	22.13	22.13	22.22	23	1	
1.4	QPSK	3	1	22.17	22.00	22.03			
1.4	QPSK	3	1	22.11	22.04	22.14			
1.4	QPSK	15	6	21.15	21.25	21.10	23	1	
1.4	16QAM	1	0	21.50	21.54	21.47			
1.4	16QAM	1	3	21.34	21.51	21.37	23	1	
1.4	16QAM	1	5	21.41	21.52	21.45			
1.4	16QAM	3	0	21.51	21.48	21.48			
1.4	16QAM	3	3	21.46	21.47	21.56	22	2	
1.4	16QAM	3	4	21.45	21.47	21.56			
1.4	16QAM								



Band 13 Ant 1									
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.60	22.60	22.60	24	0	
10	QPSK	1	25	22.70	22.70	22.70			
10	QPSK	1	49	22.87	22.87	22.87			
10	QPSK	25	0	21.84	21.84	21.84			
10	QPSK	25	12	21.74	21.74	21.74	23	1	
10	QPSK	25	25	21.69	21.69	21.69			
10	QPSK	50	0	21.65	21.65	21.65			
10	16QAM	1	0	22.05	22.05	22.05			
10	16QAM	1	25	22.09	22.09	22.09	23	1	
10	16QAM	1	49	22.07	22.07	22.07			
10	16QAM	25	0	20.70	20.70	20.70			
10	16QAM	25	12	20.74	20.74	20.74			
10	16QAM	25	25	20.69	20.69	20.69	22	2	
10	16QAM	50	0	20.52	20.52	20.52			
10	64QAM	1	0	21.50	21.50	21.50			
10	64QAM	1	25	20.96	20.96	20.96			
10	64QAM	1	49	20.93	20.93	20.93	21	3	
10	64QAM	25	0	19.67	19.67	19.67			
10	64QAM	25	12	19.69	19.69	19.69			
10	64QAM	25	25	19.52	19.52	19.52			
10	64QAM	50	0	19.70	19.70	19.70	19	5	
10	256QAM	1	25	17.84	17.84	17.84			
10	256QAM	1	49	17.87	17.87	17.87			
10	256QAM	25	0	17.68	17.68	17.68			
10	256QAM	25	12	17.61	17.61	17.61	19	5	
10	256QAM	25	25	17.62	17.62	17.62			
10	256QAM	50	0	17.22	17.22	17.22			

Band 14 Ant 1									
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.60	22.60	22.60	24	0	
10	QPSK	1	25	22.69	22.69	22.69			
10	QPSK	1	49	22.44	22.44	22.44			
10	QPSK	25	0	21.72	21.72	21.72			
10	QPSK	25	12	21.62	21.62	21.62	23	1	
10	QPSK	25	25	21.51	21.51	21.49			
10	QPSK	50	0	21.62	21.62	21.62			
10	16QAM	1	0	21.90	21.90	21.90			
10	16QAM	1	25	21.96	21.96	21.96	23	1	
10	16QAM	1	49	21.97	21.97	21.97			
10	16QAM	25	0	20.57	20.57	20.57			
10	16QAM	25	12	20.62	20.62	20.62			
10	16QAM	25	25	20.46	20.46	20.46	22	2	
10	16QAM	50	0	20.52	20.52	20.52			
10	64QAM	1	0	20.92	20.92	20.92			
10	64QAM	1	25	20.78	20.78	20.78			
10	64QAM	1	49	20.70	20.70	20.70	22	2	
10	64QAM	25	0	19.58	19.58	19.58			
10	64QAM	25	12	19.48	19.48	19.48			
10	64QAM	25	25	19.46	19.46	19.46			
10	64QAM	50	0	19.48	19.48	19.48	21	3	
10	256QAM	1	25	17.79	17.79	17.79			
10	256QAM	1	49	17.85	17.85	17.85			
10	256QAM	25	0	17.58	17.58	17.58			
10	256QAM	25	12	17.49	17.49	17.49	19	5	
10	256QAM	25	25	17.51	17.51	17.51			
10	256QAM	50	0	17.61	17.61	17.61			

Band 17 Ant 1												
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int (dB)	MPE (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.61	22.60	22.56	24	0				
10	QPSK	1	25	22.52	22.51	22.47						
10	QPSK	1	49	22.39	22.33	22.43						
10	QPSK	25	0	21.52	21.74	21.63						
10	QPSK	25	12	21.42	21.58	21.43	23	1				
10	QPSK	25	25	21.42	21.51	21.49						
10	QPSK	50	0	21.58	21.54	21.50						
10	16QAM	1	0	21.65	21.69	21.69						
10	16QAM	1	25	21.92	21.92	21.79	23	1				
10	16QAM	1	49	21.76	21.90	21.86						
10	16QAM	25	0	20.51	20.59	20.49						
10	16QAM	25	12	20.42	20.51	20.47						
10	16QAM	25	25	20.43	20.46	20.47	22	2				
10	16QAM	50	0	20.46	20.52	20.46						
10	64QAM	1	0	20.89	20.85	20.79						
10	64QAM	1	25	20.61	20.78	20.81						
10	64QAM	1	49	20.57	20.66	20.71	22	2				
10	64QAM	25	0	19.46	19.49	19.49						
10	64QAM	25	12	19.40	19.52	19.40						
10	64QAM	25	25	19.45	19.42	19.41						
10	64QAM	50	0	19.38	19.48	19.40	21	3				
10	256QAM	1	0	17.72	17.76	17.72						
10	256QAM	1	25	17.61	17.69	17.59						
10	256QAM	1	49	17.67	17.68	17.68						
10	256QAM	25	0	17.44	17.56	17.41	19	5				
10	256QAM	25	12	17.36	17.47	17.34						
10	256QAM	25	25	17.46	17.52	17.40						
10	256QAM	50	0	17.47	17.50	17.45						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.56	22.61	22.48	24	0				
5	QPSK	1	12	22.47	22.39	22.37						
5	QPSK	1	24	22.32	22.45	22.32						
5	QPSK	12	0	21.43	21.62	21.60						
5	QPSK	12	7	21.29	21.53	21.38	23	1				
5	QPSK	12	13	21.39	21.44	21.47						
5	QPSK	25	0	21.52	21.59	21.49						
5	QPSK	25	12	21.73	21.84	21.78						
5	16QAM	1	0	21.73	21.84	21.78	23	1				
5	16QAM	1	12	21.75	21.84	21.87						
5	16QAM	12	0	20.45	20.56	20.45						
5	16QAM	12	7	20.58	20.53	20.43						
5	16QAM	12	13	20.31	20.42	20.38	22	2				
5	16QAM	25	0	20.49	20.48	20.35						
5	16QAM	25	0	20.56	20.76	20.65						
5	16QAM	1	12	20.40	20.73	20.73						
5	64QAM	1	24	20.54	20.62	20.65	22	2				
5	64QAM	1	24	20.54	20.54	20.54						
5	64QAM	12	7	19.34	19.44	19.38						
5	64QAM	12	7	19.35	19.30	19.28						
5	64QAM	12	13	19.42	19.36	19.32	21	3				
5	64QAM	25	0	19.24	19.33	19.30						
5	256QAM	1	0	17.63	17.66	17.62						
5	256QAM	1	12	17.53	17.58	17.52						
5	256QAM	1	24	17.54	17.54	17.55	19	5				
5	256QAM	12	0	17.58	17.49	17.51						
5	256QAM	12	7	17.39	17.34	17.34						
5	256QAM	12	13	17.38	17.47	17.39						
5	256QAM	25	0	17.45	17.48	17.41	19	5				

Band 25 Ant 1									
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.39	22.47	22.37	24	0	
20	QPSK	1	49	22.39	22.21	22.13			
20	QPSK	1	99	22.19	22.21	22.25	23	1	
20	QPSK	1	149	21.97	21.60	21.42			
20	QPSK	1	199	21.77	21.40	21.28	23	1	
20	QPSK	50	60	21.30	21.24	21.19			
20	QPSK	100	0	21.37	21.01	21.38	23	1	
20	QPSK	1	49	21.74	21.74	21.74			
20	QPSK	1	49	21.69	21.71	21.55	23	1	
20	QPSK	1	99	21.54	21.74	21.58			
20	QPSK	1	149	21.38	21.58	21.31	22	2	
20	QPSK	50	24	20.28	20.28	20.15			
20	QPSK	50	24	20.30	20.26	20.24	22	2	
20	QPSK	50	24	20.29	20.28	20.28			
20	QPSK	1	0	20.57	20.71	20.68	21	3	
20	QPSK	1	49	20.68	20.58	20.57			
20	QPSK	1	49	20.58	20.58	20.58	21	3	
20	QPSK	50	0	19.35	19.34	19.34			
20	QPSK	50	0	19.21	19.31	19.34	21	3	
20	QPSK	50	49	19.25	19.25	19.27			
20	QPSK	100	0	19.24	19.28	19.15	19	5	
20	QPSK	1	0	17.44	17.51	17.56			
20	QPSK	1	0	17.49	17.49	17.49	19	5	
20	QPSK	1	49	17.47	17.33	17.44			
20	QPSK	1	49	17.49	17.29	17.49	19	5	
20	QPSK	50	24	17.27	17.21	17.21			
20	QPSK	50	149	17.12	17.33	17.31	19	5	
20	QPSK	50	199	17.12	17.33	17.31			
Channel									
				26115	26140	26160	Tune-up Int (dB)	MPE (dB)	
Frequency (MHz)									
15	QPSK	1	0	22.27	22.44	22.28	24	0	
15	QPSK	1	39	22.15	22.15	22.19			
15	QPSK	1	74	22.11	22.19	22.07	23	1	
15	QPSK	1	119	21.88	21.43	22.14			
15	QPSK	1	154	21.28	21.22	21.16	23	1	
15	QPSK	36	20	21.21	21.24	21.04			
15	QPSK	36	119	21.41	21.47	21.37	23	1	
15	QPSK	36	239	21.58	21.63	21.67			
15	QPSK	1	0	21.58	21.63	21.65	23	1	
15	QPSK	1	39	21.57	21.71	21.58			
15	QPSK	1	74	21.63	21.63	21.51	22	2	
15	QPSK	36	20	20.16	20.17	20.16			
15	QPSK	36	119	20.16	20.17	20.16	22	2	
15	QPSK	75	0	20.14	20.18	20.16			
15	QPSK	1	0	20.43	20.51	20.36	22	2	
15	QPSK	1	39	20.42	20.41	20.41			
15	QPSK	1	74	20.43	20.32	20.38	21	3	
15	QPSK	36	20	19.16	19.24	19.18			
15	QPSK	36	119	19.16	19.17	19.05	21	3	
15	QPSK	75	0	19.11	19.17	19.05			
15	QPSK	1	0	17.17	17.17	17.17	19	5	
15	QPSK	1	39	17.41	17.41	17.30			
15	QPSK	1	74	17.33	17.24	17.43	19	5	
15	QPSK	1	119	17.12	17.12	17.12			
15	QPSK	36	20	17.09	17.12	17.17	19	5	
15	QPSK	36	119	17.01	17.08	17.18			
15	QPSK	75	0	17.22	17.19	17.20	19	5	
15	QPSK	75	0	17.22	17.19	17.20			
Channel									
				26660	26640	26660	Tune-up Int (dB)	MPE (dB)	
Frequency (MHz)									
10	QPSK	1	0	22.52	22.40	22.31	24	0	
10	QPSK	1	24	22.17	22.10	22.13			
10	QPSK	1	49	22.02	22.11	22.14	23	1	
10	QPSK	1	74	21.28	21.39	21.31			
10	QPSK	1	99	21.26	21.23	21.25	23	1	
10	QPSK	25	25	21.02	21.12	21.08			
10	QPSK	25	25	21.11	21.40	21.11	23	1	
10	QPSK	1	0	21.57	21.64	21.63			
10	QPSK	1	24	21.66	21.65	21.69	22	2	
10	QPSK	25	25	20.21	20.29	20.14			
10	QPSK	25	25	20.14	20.18	20.15	22	2	
10	QPSK	50	0	19.14	19.13	19.17			
10	QPSK	50	0	19.16	19.08	19.08	22	2	
10	QPSK	1	24	20.36	20.43	20.41			
10	QPSK	1	49	20.39	20.43	20.34	22	2	
10	QPSK	25	25	19.25	19.25	19.08			
10	QPSK	25	12	19.11	19.25	19.17	21	3	
10	QPSK	50	25	19.13	19.11	19.10			
10	QPSK	1	0	17.40	17.40	17.40	19	5	
10	QPSK	1	24	17.34	17.39	17.31			
10	QPSK	1	49	17.34	17.34	17.34	19	5	
10	QPSK	25	25	17.02	17.25	17.08			
10	QPSK	25	12	17.06	17.08	17.18	19	5	
10	QPSK	50	0	17.17	17.17	17.17			
10	QPSK	50	0	17.26	17.14	17.18	19	5	
10	QPSK	50	0	17.26	17.14	17.18			
Channel									
				1802.5	1800	1812.5	Tune-up Int (dB)	MPE (dB)	
Frequency (MHz)									
5	QPSK	1	0	22.29	22.39	22.23	24	0	
5	QPSK	1	12	22.17	22.18	22.07			
5	QPSK	1	25	22.15	22.15	22.14	23	1	
5	QPSK	1	38	21.24	21.40	21.39			
5	QPSK	1	27	21.06	21.21	21.18	23	1	
5	QPSK	1	12	21.18	21.11	21.11			
5	QPSK	25	0	21.24	21.38	21.27	23	1	
5	QPSK	1	0	21.64	21.60	21.63			
5	QPSK	12	0	20.16	20.24	20.20	22	2	
5	QPSK	12	0	20.15	20.21	20.18			
5	QPSK	12	18	20.15	20.18	20.11	22	2	
5	QPSK	25	0	19.24	19.24	19.08			
5	QPSK	25	0	19.47	19.47	19.47	22	2	
5	QPSK	1	12	20.37	20.42	20.47			
5	QPSK	12	18	20.37	20.42	20.47	22	2	
5	QPSK	12	24	19.26	19.25	19.05			
5	QPSK	12	7	19.02	19.27	19.15	21	3	
5	QPSK	1	0	19.07	19.13	19.13			
5	QPSK	1	0	19.21	19.13	19.05	21	3	
5	QPSK	1	0	17.30	17.41	17.42			
5	QPSK	1	12	17.42	17.42	17.42	19	5	
5	QPSK	1	24	17.41	17.28	17.37			
5	QPSK	12	0	17.10	17.22	17.12	19	5	
5	QPSK	12	18	17.05	17.12	17.05			
5	QPSK	1	18	17.03	17.20	17.17	19	5	
5	QPSK	25	0	17.26	17.19	17.21			
Channel									
				1801.5	1800	1811.5	Tune-up Int (dB)	MPE (dB)	
Frequency (MHz)									
3	QPSK	1	0	22.34	22.38	22.23	24	0	
3	QPSK	1	12	22.19	22.15	22.11			
3	QPSK	1	14	22.03	22.17	22.11	23	1	
3	QPSK	1	0	21.26	21.41	21.33			
3	QPSK	1	12	21.13	21.38	21.28	23	1	
3	QPSK	7	7	21.18	21.14	21.06			
3	QPSK	15	0	21.24	21.41	21.33	23	1	
3	QPSK	15	0	21.26	21.41	21.33			
3	QPSK	1	0	21.62	21.67	21.65	22	2	
3	QPSK	1	14	21.52	21.65	21.43			
3	QPSK	1	14	21.52	21.65	21.43	22	2	
3	QPSK	8	4	20.19	20.19	20.11			
3	QPSK	8	4	20.19	20.19	20.13	22	2	
3	QPSK	8	4	20.18	20.18	20.13			
3	QPSK	1	0	20.44	20.50	20.56	22	2	
3	QPSK	1	8	20.37	20.44	20.41			
3	QPSK	1	8	20.38	20.44	20.38	21	3	
3	QPSK	8	0	19.18	19.24	19.18			
3	QPSK	8	0	19.12	19.22	19.23	21	3	
3	QPSK	1	0	19.15	19.16	19.12			
3	QPSK	1	0	19.19	19.13	19.05	19	5	
3	QPSK	1	14	17.31	17.40	17.33			
3	QPSK	1	14	17.35	17.31	17.27	19	5	
3	QPSK	1	14	17.33	17.33	17.33			
3	QPSK	8	7	17.15	17.08	17.14	19	5	
3	QPSK	8	7	17.44	17.26	17.14			
3	QPSK	8	7	17.27	17.10	17.15	19	5	
3	QPSK	8	0	17.23	17.19	17.11			
Channel									
				26047	26040	26054	Tune-up Int (dB)	MPE (dB)	
Frequency (MHz)									
14	QPSK	1	0	22.26	22.37	22.21	24	0	
14	QPSK	1	19	22.19	22.15	22.16			
14	QPSK	1	5	22.11	22.11	22.11	23	1	
14	QPSK	1	19	21.28	21.38	21.28			
14	QPSK	1	3	22.15	22.19	22.03	23	1	
14	QPSK	3	3	22.12	22.14	22.14			
14	QPSK	1	0	21.53	21.65	21.65	23	1	
14	QPSK	1	3	21.57	21.62	21.63			
14	QPSK	1	3	21.62	21.61	21.61	23	1	
14	QPSK	1	3	21.55	21.67	21.56			
14	QPSK	1	3	21.61	21.61	21.62	22	2	
14	QPSK	6	0	20.07	20.22	20.15			
14	QPSK	1	0	20.39	20.07	20.55	22	2	
14	QPSK	6	0	20.60	20.38	20.52			
14	QPSK	1	0	20.19	20.48	20.44	21	3	
14	QPSK	6	0	19.16	19.12	19.04			
14	QPSK	6	0	19.13	19.10	19.04	21	3	
14	QPSK	1	3	17.33	17.40	17.24			
14	QPSK	1	3	17.29	17.26	17.31	19	5	
14	QPSK	1	3	17.23	17.23	17.23			
14	QPSK	1	3	17.16	17.09	17.10	19	5	
14	QPSK	6	0	17.27	17.17				

Band 26 for FCC Ant 1										
BS (MHz)	Modulation	PRB Size	PRB Offset	Power (mW)	Power Ch/Flt (mW)	Power (mW)	Power Ch/Flt (mW)	Turn-on (dBm)	MFR (dB)	
Channel 26765										
15	QPSK	1	0	22.56	22.52	22.50				
15	QPSK	1	37	22.47	22.48	22.41				24
15	QPSK	1	74	22.38	22.39	22.32				
15	QPSK	36	0	21.58	21.57	21.57				
15	QPSK	36	20	21.40	21.41	21.38				23
15	QPSK	36	57	21.22	21.23	21.20				
15	QPSK	75	0	21.49	21.55	21.55				
15	QPSK	1	0	21.86	21.96	21.87				23
15	QPSK	1	37	21.76	21.77	21.70				
15	QPSK	1	74	21.70	21.80	21.70				
15	QPSK	36	0	20.51	20.68	20.44				
15	QPSK	36	20	20.44	20.51	20.44				22
15	QPSK	36	57	20.38	20.41	20.38				
15	QPSK	75	0	20.50	20.42	20.42				
15	QPSK	1	74	20.62	20.64	20.60				22
15	QPSK	1	37	20.50	20.50	20.47				
15	QPSK	1	74	20.50	20.50	20.47				
15	QPSK	36	20	19.36	19.50	19.35				21
15	QPSK	36	57	19.37	19.38	19.33				
15	QPSK	75	0	19.37	19.37	19.33				
15	QPSK	1	0	17.63	17.73	17.68				
15	QPSK	1	37	17.59	17.63	17.59				19
15	QPSK	1	74	17.59	17.63	17.59				
15	QPSK	36	0	17.38	17.53	17.39				
15	QPSK	36	20	17.37	17.43	17.29				19
15	QPSK	36	57	17.37	17.43	17.29				
15	QPSK	75	0	17.47	17.43	17.38				
Channel 26765										
Frequency (MHz)	26765	26865	26965	27065	27165	27265	27365	Turn-on (dBm)	MFR (dB)	
15	QPSK	1	0	22.59	22.52	22.49	22.49			24
15	QPSK	1	28	22.35	22.36	22.31	22.31			
15	QPSK	1	65	22.33	22.33	22.30	22.30			
15	QPSK	25	0	21.72	21.72	21.65	21.65			
15	QPSK	25	12	21.47	21.41	21.35	21.35			23
15	QPSK	25	49	21.25	21.25	21.20	21.20			
15	QPSK	50	0	21.54	21.49	21.45	21.45			
15	QPSK	1	0	21.91	21.71	21.65	21.65			
15	QPSK	1	28	21.71	21.72	21.64	21.64			
15	QPSK	1	65	21.67	21.64	21.56	21.56			22
15	QPSK	25	0	20.55	20.42	20.40	20.40			
15	QPSK	25	12	20.33	20.37	20.33	20.33			
15	QPSK	25	49	20.40	20.34	20.23	20.23			22
15	QPSK	50	0	20.34	20.41	20.38	20.38			
15	QPSK	1	28	20.50	20.56	20.29	20.29			22
15	QPSK	1	25	20.07	20.00	19.90	19.90			
15	QPSK	1	49	20.54	20.50	20.20	20.20			
15	QPSK	25	0	19.47	19.47	19.30	19.30			21
15	QPSK	25	12	19.47	19.47	19.30	19.30			
15	QPSK	25	49	19.47	19.47	19.30	19.30			
15	QPSK	50	0	17.65	17.65	17.50	17.50			
15	QPSK	1	25	17.56	17.62	17.59	17.59			
15	QPSK	1	49	17.56	17.62	17.59	17.59			
15	QPSK	25	0	17.52	17.52	17.35	17.35			
15	QPSK	25	12	17.34	17.34	17.28	17.28			19
15	QPSK	25	49	17.34	17.34	17.28	17.28			
15	QPSK	50	0	17.38	17.38	17.31	17.31			
Channel 26765										
Frequency (MHz)	26765	26865	26965	27065	27165	27265	27365	Turn-on (dBm)	MFR (dB)	
5	QPSK	1	0	22.52	22.48	22.49				
5	QPSK	1	10	22.35	22.44	22.33				24
5	QPSK	1	20	22.37	22.33	22.33				
5	QPSK	1	70	21.79	21.84	21.74				
5	QPSK	12	0	21.41	21.31	21.35				23
5	QPSK	12	14	21.38	21.37	21.38				
5	QPSK	12	14	21.38	21.38	21.43				
5	QPSK	1	0	21.84	21.78	21.79				23
5	QPSK	1	10	21.87	21.72	21.68				
5	QPSK	12	0	20.51	20.40	20.42				
5	QPSK	12	14	20.40	20.39	20.32				22
5	QPSK	12	14	20.39	20.28	20.30				
5	QPSK	25	0	20.36	20.48	20.39				
5	QPSK	1	0	20.76	20.64	20.70				22
5	QPSK	1	10	20.76	20.73	20.67				
5	QPSK	1	20	20.58	20.53	20.52				
5	QPSK	12	0	19.40	19.30	19.36				21
5	QPSK	12	14	19.30	19.36	19.24				
5	QPSK	25	0	19.39	19.29	19.31				
5	QPSK	1	0	17.81	17.81	17.81				19
5	QPSK	1	10	17.82	17.67	17.69				
5	QPSK	12	0	17.66	17.66	17.67				19
5	QPSK	12	14	17.41	17.36	17.36				
5	QPSK	25	0	17.38	17.28	17.31				19
5	QPSK	25	14	17.38	17.38	17.28				
Channel 26765										
Frequency (MHz)	26765	26865	26965	27065	27165	27265	27365	Turn-on (dBm)	MFR (dB)	
3	QPSK	1	0	22.59	22.50	22.42				
3	QPSK	1	8	22.35	22.43	22.37				24
3	QPSK	1	14	22.42	22.29	22.27				
3	QPSK	1	61	21.87	21.84	21.82				
3	QPSK	8	4	21.43	21.34	21.28				23
3	QPSK	8	7	21.45	21.27	21.31				
3	QPSK	8	7	21.53	21.39	21.40				
3	QPSK	1	0	21.93	21.84	21.86				23
3	QPSK	1	8	21.86	21.69	21.81				
3	QPSK	1	14	21.87	21.70	21.78				
3	QPSK	8	4	20.43	20.48	20.37				22
3	QPSK	8	7	20.38	20.37	20.30				
3	QPSK	16	0	20.39	20.40	20.32				
3	QPSK	1	0	20.74	20.63	20.78				22
3	QPSK	1	8	20.76	20.59	20.67				
3	QPSK	1	14	20.56	20.57	20.60				
3	QPSK	8	8	19.43	19.38	19.31				21
3	QPSK	8	7	19.47	19.29	19.39				
3	QPSK	8	7	19.31	19.32	19.34				
3	QPSK	16	0	19.39	19.33	19.34				
3	QPSK	1	0	17.81	17.81	17.81				19
3	QPSK	1	8	17.82	17.68	17.68				
3	QPSK	1	14	17.82	17.65	17.54				
3	QPSK	1	14	17.81	17.57	17.58				
3	QPSK	8	7	17.42	17.30	17.36				19
3	QPSK	8	4	17.39	17.29	17.33				
3	QPSK	8	7	17.43	17.20	17.30				
3	QPSK	1	0	17.43	17.43	17.31				
Channel 26867										
Frequency (MHz)	26867	26967	27067	27167	27267	27367	27467	Turn-on (dBm)	MFR (dB)	
14	QPSK	1	0	22.42	22.32	22.24				
14	QPSK	1	3	22.35	22.33	22.24				24
14	QPSK	1	5	22.34	22.28	22.21				
14	QPSK	7	0	21.53	21.43	21.41				
14	QPSK	1	3	22.34	22.33	22.29				
14	QPSK	1	3	22.34	22.24	22.20				23
14	QPSK	7	0	21.51	21.41	21.53				
14	QPSK	1	0	21.94	21.79	21.81				23
14	QPSK	1	3	21.78	21.67	21.68				
14	QPSK	1	5	21.60	21.67	21.67				
14	QPSK	7	0	21.87	21.75	21.77				
14	QPSK	1	3	21.70	21.57	21.60				22
14	QPSK	1	5	21.67	21.67	21.67				
14	QPSK	7	0	20.39	20.41	20.32				22
14	QPSK	1	3	20.80	20.72	20.71				
14	QPSK	7	0	20.50	20.52	20.50				
14	QPSK	1	3	20.37	20.56	20.66				22
14	QPSK	1	5	20.74	20.69	20.69				
14	QPSK	7	0	19.48	19.48	19.48				
14	QPSK	3	0	20.50	20.47	20.35				21
14	QPSK	1	3	17.51	17.58	17.47				
14	QPSK	1	5	17.56	17.50	17.48				19
14	QPSK	7	0	17.32	17.37	17.37				
14	QPSK	1	3	17.34	17.34	17.23				
14	QPSK	1	5	17.46	17.38	17.25				19

Band 30 Ant 1									
BW [MHz]	Modulation	RB [kHz]	RB Offset	Power [W]	Power [dBm]	Power [dBm]	Turn-on time [s]	MFR [dB]	
Channel				27610	27710	27810			
Frequency [MHz]									
10	QPSK	1	0		22.02	22.02			
5	QPSK	1	25		22.02	22.02			24
10	QPSK	25	0		22.02	22.02			
10	QPSK	25	0		21.71	21.71			
10	QPSK	25	12		21.87	21.87			23
10	QPSK	25	12		21.87	21.87			1
10	QPSK	50	0		21.00	21.00			
10	QPSK	1	0		21.91	21.91			
10	QPSK	1	25		21.86	21.86			23
10	QPSK	1	49		21.89	21.89			
10	QPSK	25	0		20.92	20.92			
10	QPSK	25	12		20.92	20.92			
10	QPSK	25	12		20.40	20.40			22
10	QPSK	50	0		20.42	20.42			2
10	QPSK	50	0		20.34	20.34			
10	QPSK	1	25		20.72	20.72			22
10	QPSK	1	49		20.63	20.63			
10	QPSK	25	0		20.63	20.63			
10	QPSK	25	12		19.47	19.47			21
10	QPSK	25	12		19.39	19.39			3
10	QPSK	50	0		17.66	17.66			
10	QPSK	1	25		17.65	17.65			19
10	QPSK	1	49		17.60	17.60			5
10	QPSK	25	0		17.49	17.49			
10	QPSK	25	12		17.43	17.43			19
10	QPSK	25	12		17.43	17.43			5
10	QPSK	50	0		17.47	17.47			
Channel				27865	27970	28075			
Frequency [MHz]									
10	QPSK	1	0		22.58	22.53	22.60		
5	QPSK	1	12		22.39	22.45	22.49		24
10	QPSK	25	0		22.49	22.49	22.49		
10	QPSK	12	0		21.60	21.62	21.60		
10	QPSK	12	7		21.48	21.51	21.49		
10	QPSK	12	7		21.59	21.47	21.47		
10	QPSK	25	0		21.51	21.51	21.50		
5	QPSK	1	0		21.89	21.86	21.83		
10	QPSK	1	12		21.83	21.83	21.76		
10	QPSK	1	24		21.83	21.88	21.75		
5	QPSK	12	0		20.47	20.48	20.48		
10	QPSK	12	7		20.55	20.46	20.46		
10	QPSK	12	18		20.35	20.31	20.35		
5	QPSK	25	0		20.38	20.37	20.34		
10	QPSK	25	0		20.77	20.70	20.73		
5	QPSK	1	12		20.70	20.61	20.65		22
5	QPSK	1	24		20.53	20.63	20.55		
10	QPSK	12	0		19.36	19.40	19.40		
10	QPSK	12	7		19.37	19.38	19.38		
5	QPSK	12	18		19.33	19.37	19.36		
5	QPSK	25	0		19.40	19.34	19.40		
5	QPSK	1	0		17.63	17.64	17.64		
5	QPSK	1	12		17.65	17.64	17.63		19
5	QPSK	25	0		17.63	17.60	17.58		
5	QPSK	12	7		17.45	17.39	17.35		
5	QPSK	12	7		17.40	17.32	17.37		19
5	QPSK	12	18		17.37	17.33	17.34		
5	QPSK	25	0		17.45	17.37	17.44		

Band 66 Ant 1												
SR	Modulation	PRB Size	PRB Offset	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Turn-on (dBm)	MFR (dB)			
Channel												
Frequency (MHz)				130072	130332	130672	131012					
20	QPSK	1	0	22.38	22.38	22.38	22.38					
20	QPSK	1	49	22.38	22.37	22.37	22.37		24	0		
20	QPSK	1	98	22.38	22.38	22.38	22.38					
20	QPSK	50	0	21.41	21.32	21.32	21.43					
20	QPSK	50	24	21.24	21.30	21.30	21.28		23	1		
20	QPSK	50	49	21.28	21.32	21.32	21.29					
20	QPSK	100	0	21.40	21.43	21.35	21.35					
20	QPSK	1	0	21.68	21.81	21.70	21.70		23	1		
20	QPSK	1	49	21.68	21.81	21.70	21.70					
20	QPSK	50	24	20.96	20.99	20.91	20.91		22	2		
20	QPSK	50	49	20.96	20.99	20.91	20.91					
20	QPSK	100	0	20.92	20.94	20.85	20.85					
20	QPSK	1	0	20.59	20.60	20.60	20.60					
20	QPSK	1	49	20.59	20.62	20.53	20.53		22	2		
20	QPSK	50	24	20.59	20.62	20.53	20.53					
20	QPSK	50	49	20.53	20.53	20.54	20.54					
20	QPSK	100	0	19.39	19.39	19.28	19.28		21	3		
20	QPSK	1	0	19.24	19.27	19.27	19.27					
20	QPSK	1	49	19.24	19.27	19.27	19.27					
20	QPSK	50	24	19.54	19.61	19.52	19.52		19	5		
20	QPSK	50	49	19.54	19.61	19.52	19.52					
20	QPSK	100	0	17.26	17.26	17.32	17.32		19	5		
20	QPSK	1	0	17.44	17.54	17.45	17.45					
20	QPSK	1	49	17.45	17.51	17.53	17.53					
20	QPSK	50	24	17.21	17.40	17.39	17.39					
20	QPSK	50	49	17.26	17.38	17.38	17.38					
20	QPSK	100	0	17.18	17.28	17.13	17.13					
20	QPSK	1	0	17.28	17.38	17.32	17.32					
Frequency (MHz)				171715	17451	177215	177515					
15	QPSK	1	0	22.35	22.35	22.35	22.35		Turn-on (dBm)	MFR (dB)		
15	QPSK	1	49	22.35	22.35	22.35	22.35					
15	QPSK	1	98	22.35	22.35	22.35	22.35					
15	QPSK	1	74	22.09	22.09	22.09	22.09					
15	QPSK	1	147	21.39	21.40	21.39	21.39		23	1		
15	QPSK	1	205	21.39	21.40	21.39	21.39					
15	QPSK	50	24	21.22	21.28	21.28	21.28					
15	QPSK	50	49	21.25	21.28	21.28	21.28		23	1		
15	QPSK	100	0	21.35	21.43	21.27	21.27					
15	QPSK	1	0	21.74	21.82	21.68	21.68					
15	QPSK	1	49	21.74	21.82	21.68	21.68					
15	QPSK	50	24	20.51	20.58	20.58	20.58		22	2		
15	QPSK	50	49	20.51	20.58	20.58	20.58					
15	QPSK	100	0	20.58	20.62	20.59	20.59					
15	QPSK	1										
15	QPSK	1	74	20.29	20.30	20.30	20.30		22	2		
15	QPSK	1	147	20.29	20.30	20.30	20.30					
15	QPSK	50	24	20.51	20.58	20.58	20.58		21	3		
15	QPSK	50	49	20.51	20.58	20.58	20.58					
15	QPSK	100	0	19.18	19.18	19.24	19.24					
15	QPSK	1	0	19.18	19.18	19.24	19.24					
15	QPSK	50	24	19.18	19.18	19.24	19.24					
15	QPSK	1	0	17.33	17.46	17.40	17.40		19	5		
15	QPSK	1	74	17.40	17.44	17.51	17.51					
15	QPSK	50	24	17.18	17.38	17.38	17.38					
15	QPSK	50	49	17.21	17.37	17.37	17.37					
15	QPSK	100	0	17.21	17.17	17.17	17.17					
15	QPSK	1	0	17.31	17.31	17.32	17.32					
Channel				130092	130392	130732	131072					
Frequency (MHz)				17151	17451	17751	17781					
10	QPSK	1	0	22.45	22.45	22.45	22.45		Turn-on (dBm)	MFR (dB)		
10	QPSK	1	24	22.25	22.33	22.21	22.21		24	0		
10	QPSK	1	48	22.17	22.28	22.15	22.15					
10	QPSK	1	72	22.17	22.28	22.15	22.15					
10	QPSK	50	24	21.23	21.31	21.19	21.19		23	1		
10	QPSK	50	48	21.17	21.28	21.16	21.16					
10	QPSK	100	0	21.32	21.40	21.28	21.28					
10	QPSK	1	0	21.59	21.75	21.66	21.66					
10	QPSK	1	24	21.51	21.61	21.60	21.60		23	1		
10	QPSK	1	48	21.51	21.61	21.60	21.60					
10	QPSK	50	24	20.27	20.32	20.25	20.25		22	2		
10	QPSK	50	48	20.16	20.25	20.21	20.21					
10	QPSK	100	0	20.24	20.32	20.27	20.27					
10	QPSK	1	0	20.34	20.43	20.48	20.48					
10	QPSK	1	24	20.34	20.43	20.48	20.48					
10	QPSK	50	24	20.29	20.37	20.32	20.32		22	2		
10	QPSK	50	48	20.31	20.39	20.34	20.34					
10	QPSK	100	0	20.31	20.39	20.34	20.34					
10	QPSK	1	0	20.37	20.43	20.48	20.48					
10	QPSK	1	24	20.34	20.39	20.43	20.43					
10	QPSK	50	24	20.24	20.32	20.29	20.29		21	3		
10	QPSK	50	48	20.19	20.27	20.24	20.24					
10	QPSK	100	0	20.19	20.27	20.24	20.24					
10	QPSK	1	0	19.13	19.30	19.17	19.17					
10	QPSK	1	24	19.46	19.45	19.47	19.47					
10	QPSK	50	24	19.35	19.35	19.40	19.40					
10	QPSK	1	0	17.35	17.52	17.43	17.43		19	5		
10	QPSK	1	24	17.35	17.52	17.43	17.43					
10	QPSK	50	24	17.14	17.25	17.15	17.15					
10	QPSK	1	0	17.14	17.25	17.15	17.15					
10	QPSK	50	24	17.14	17.18	17.18	17.18		19	5		
10	QPSK	50	48	17.14	17.18	17.18	17.18					
Channel				131997	132322	132677	133017					
Frequency (MHz)				17151	17451	17751	17781					
5	QPSK	1	0	22.58	22.51	22.40	22.40		Turn-on (dBm)	MFR (dB)		
5	QPSK	1	12	22.31	22.36	22.23	22.23		24	0		
5	QPSK	1	24	22.10	22.30	22.18	22.18					
5	QPSK	12	12	21.39	21.44	21.33	21.33		23	1		
5	QPSK	24	12	21.16	21.28	21.21	21.21					
5	QPSK	12	18	21.24	21.25	20.20	20.20					
5	QPSK	24	18	21.35	21.40	21.35	21.35					
5	QPSK	1	0	21.59	21.81	21.63	21.63					
5	QPSK	1	12	21.61	21.81	21.63	21.63					
5	QPSK	1	24	21.49	21.74	21.55	21.55		23	1		
5	QPSK	12	0	20.27	20.31	20.22	20.22					
5	QPSK	12	12	20.32	20.37	20.27	20.27		22	2		
5	QPSK	12	18	20.21	20.13	20.17	20.17					
5	QPSK	24	12	20.38	20.22	20.21	20.21					
5	QPSK	12	24	20.37	20.18	20.20	20.20					
5	QPSK	1	12	20.42	20.08	20.51	20.51					
5	QPSK	1	24	20.40	20.41	20.52	20.52					
5	QPSK	12	0	19.12	19.28	19.15	19.15		21	3		
5	QPSK	12	12	19.12	19.28	19.15	19.15					
5	QPSK	12	18	19.14	19.20	19.12	19.12					
5	QPSK	12	24	19.14	19.20	19.12	19.12					
5	QPSK	1	12	17.40	17.48	17.38	17.38		19	5		
5	QPSK	1	24	17.40	17.48	17.38	17.38					
5	QPSK	12	12	17.40	17.48	17.38	17.38					
5	QPSK	12	18	17.23	17.21	17.07	17.07					
5	QPSK	12	24	17.23	17.21	17.07	17.07					
5	QPSK	24	12	17.17	17.31	17.30	17.30		19	5		
Channel				131997	132322	132677	133017					
Frequency (MHz)				17151	17451	17751	17781					
3	QPSK	1	0	22.30	22.53	22.41	22.41		Turn-on (dBm)	MFR (dB)		
3	QPSK	1	8	22.32	22.29	22.29	22.29		24	0		
3	QPSK	1	16	22.14	22.22	22.22	22.22					
3	QPSK	8	8	21.23	21.46	21.46	21.46		23	1		
3	QPSK	8	24	21.23	21.38	21.25	21.25					
3	QPSK	16	0	21.24	21.41	21.36	21.36					
3	QPSK	1	0	21.66	21.86	21.81	21.81		23	1		
3	QPSK	8	0	21.69	21.83	21.78	21.78					
3	QPSK	1	16	21.50	21.78	21.56	21.56					
3	QPSK	8	0	20.26	20.50	20.21	20.21		22	2		
3	QPSK	8	8	20.26	20.44	20.23	20.23					
3	QPSK	8	24	20.14	20.22	20.13	20.13					
3	QPSK	16	0	20.14	20.22	20.13	20.13					
3	QPSK	1	0	20.47	20.54	20.54	20.54					
3	QPSK	1	8	20.38	20.62	20.51	20.51		22	2		
3	QPSK	8	8	2								

Band 71 Ant 1														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dB)	APR3 (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	22.49	22.61	22.47	24	0						
20	QPSK	1	48	22.44	22.45	22.36								
20	QPSK	1	96	22.32	22.45	20.34								
20	QPSK	50	0	21.51	21.65	21.57								
20	QPSK	50	24	21.41	21.48	21.38								
20	QPSK	50	50	21.30	21.41	21.33	23	1						
20	QPSK	100	0	21.45	21.63	21.48								
20	16QAM	1	0	21.74	21.92	21.63								
20	16QAM	1	48	21.75	21.88	21.75								
20	16QAM	1	96	21.70	21.82	21.73								
20	16QAM	50	0	20.42	20.50	20.35	22	2						
20	16QAM	50	24	20.34	20.49	20.34								
20	16QAM	50	50	20.30	20.41	20.31								
20	16QAM	100	0	20.37	20.39	20.32								
20	64QAM	1	0	20.61	20.71	20.72								
20	64QAM	1	48	20.59	20.76	20.72	22	2						
20	64QAM	1	96	20.49	20.64	20.58								
20	64QAM	50	0	19.36	19.44	19.37								
20	64QAM	50	24	19.31	19.34	19.24								
20	64QAM	50	50	19.40	19.27	19.24								
20	64QAM	100	0	19.36	19.40	19.25	21	3						
20	256QAM	1	0	17.56	17.68	17.68								
20	256QAM	1	48	17.61	17.59	17.44								
20	256QAM	1	96	17.55	17.57	17.61								
20	256QAM	50	0	17.28	17.42	17.38								
20	256QAM	50	24	17.24	17.38	17.21	19	5						
20	256QAM	50	50	17.35	17.33	17.22								
20	256QAM	100	0	17.26	17.40	17.24								
Channel														
Frequency (MHz)														
15	QPSK	1	0	22.45	22.59	22.36	24	0						
15	QPSK	1	37	22.33	22.45	22.28								
15	QPSK	1	74	22.24	22.39	22.28								
15	QPSK	36	0	21.47	21.54	21.55								
15	QPSK	36	20	21.38	21.45	21.29								
15	QPSK	36	39	21.24	21.40	21.32	23	1						
15	QPSK	75	0	21.42	21.58	21.48								
15	16QAM	1	0	21.67	21.80	21.73								
15	16QAM	1	37	21.68	21.80	21.71								
15	16QAM	1	74	21.60	21.74	21.70								
15	16QAM	36	0	20.32	20.38	20.32	22	2						
15	16QAM	36	20	20.31	20.45	20.28								
15	16QAM	36	39	20.25	20.37	20.23								
15	16QAM	75	0	20.34	20.37	20.24								
15	64QAM	1	0	20.60	20.59	20.62								
15	64QAM	1	37	20.54	20.65	20.58	22	2						
15	64QAM	1	74	20.47	20.55	20.55								
15	64QAM	36	0	19.31	19.38	19.33								
15	64QAM	36	20	19.36	19.28	19.25								
15	64QAM	36	39	19.35	19.35	19.15								
15	64QAM	75	0	19.35	19.35	19.17	21	3						
15	256QAM	1	0	17.54	17.50	17.40								
15	256QAM	1	37	17.58	17.55	17.39								
15	256QAM	1	74	17.48	17.48	17.57								
15	256QAM	36	0	17.20	17.22	17.36								
15	256QAM	36	20	17.23	17.31	17.13	19	5						
15	256QAM	36	39	17.31	17.29	17.18								
15	256QAM	75	0	17.34	17.30	17.29								
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.43	22.57	22.43	24	0						
10	QPSK	1	25	22.38	22.35	22.31								
10	QPSK	1	48	22.28	22.44	22.30								
10	QPSK	25	0	21.48	21.61	21.47								
10	QPSK	25	12	21.30	21.35	21.26								
10	QPSK	25	25	21.26	21.37	21.27	23	1						
10	QPSK	50	0	21.43	21.58	21.38								
10	16QAM	1	0	21.64	21.82	21.83								
10	16QAM	1	25	21.64	21.83	21.85								
10	16QAM	1	48	21.65	21.76	21.72								
10	16QAM	25	0	20.41	20.35	20.33	22	2						
10	16QAM	25	12	20.24	20.37	20.22								
10	16QAM	25	25	20.30	20.38	20.33								
10	16QAM	50	0	20.32	20.38	20.30								
10	64QAM	1	0	20.59	20.63	20.61								
10	64QAM	1	25	20.57	20.66	20.70	22	2						
10	64QAM	1	48	20.40	20.64	20.65								
10	64QAM	25	0	19.35	19.36	19.32								
10	64QAM	25	12	19.29	19.28	19.22								
10	64QAM	25	25	19.39	19.17	19.12								
10	64QAM	50	0	19.31	19.29	19.16	21	3						
10	256QAM	1	0	17.44	17.52	17.55								
10	256QAM	1	25	17.58	17.52	17.34								
10	256QAM	1	48	17.50	17.52	17.58								
10	256QAM	25	0	17.22	17.24	17.28								
10	256QAM	25	12	17.17	17.27	17.18	19	5						
10	256QAM	25	25	17.28	17.21	17.16								
10	256QAM	50	0	17.25	17.42	17.25								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.37	22.50	22.35	24	0						
5	QPSK	1	12	22.35	22.44	22.29								
5	QPSK	1	24	22.28	22.42	22.25								
5	QPSK	12	0	21.60	21.67	21.53								
5	QPSK	12	7	21.39	21.37	21.33								
5	QPSK	12	13	21.26	21.37	21.24	23	1						
5	QPSK	25	0	21.43	21.53	21.43								
5	16QAM	1	0	21.73	21.92	21.73								
5	16QAM	1	12	21.66	21.75	21.64								
5	16QAM	1	24	21.69	21.80	21.67								
5	16QAM	12	0	20.38	20.44	20.28	22	2						
5	16QAM	12	7	20.23	20.45	20.29								
5	16QAM	12	13	20.26	20.34	20.22								
5	16QAM	25	0	20.28	20.30	20.25								
5	64QAM	1	0	20.51	20.66	20.64								
5	64QAM	1	12	20.52	20.71	20.60	22	2						
5	64QAM	1	24	20.42	20.55	20.58								
5	64QAM	12	0	19.31	19.38	19.36								
5	64QAM	12	7	19.20	19.27	19.16								
5	64QAM	12	13	19.33	19.17	19.17								
5	64QAM	25	0	19.29	19.29	19.22	21	3						
5	256QAM	1	0	17.53	17.67	17.63								
5	256QAM	1	12	17.54	17.49	17.36								
5	256QAM	1	24	17.47	17.47	17.52								
5	256QAM	12	0	17.21	17.20	17.32								
5	256QAM	12	7	17.21	17.28	17.09	19	5						
5	256QAM	12	13	17.29	17.26	17.21								
5	256QAM	25	0	17.31	17.38	17.33								



Band 38 Ant 1												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.76	22.84	22.90	24	0				
20	QPSK	1	49	22.64	22.67	22.54						
20	QPSK	1	98	22.46	22.62	22.90						
20	QPSK	50	0	21.84	21.82	21.79						
20	QPSK	50	24	21.58	21.74	21.59						
20	QPSK	50	49	21.46	21.46	21.49	23	1				
20	QPSK	100	0	21.73	21.73	21.73						
20	HQAM	1	0	21.92	22.07	22.07						
20	HQAM	1	49	21.86	22.00	21.91						
20	HQAM	50	0	20.98	20.75	20.56						
20	HQAM	50	24	20.54	20.78	20.54	22	2				
20	HQAM	50	49	20.53	20.66	20.61						
20	HQAM	100	0	20.93	20.86	20.63						
20	HQAM	100	0	20.87	20.93	20.90						
20	HQAM	1	49	20.79	20.59	20.50						
20	HQAM	1	99	20.71	20.65	20.84	22	2				
20	HQAM	50	0	19.60	19.72	19.55						
20	HQAM	50	24	19.53	19.50	19.52						
20	HQAM	50	49	19.62	19.58	19.57						
20	HQAM	100	0	19.58	19.65	19.55						
20	HQAM	1	49	17.78	17.86	17.63	21	3				
20	HQAM	1	99	17.81	17.89	17.75						
20	HQAM	50	0	17.60	17.83	17.78						
20	HQAM	50	24	17.57	17.73	17.59						
20	HQAM	50	49	17.52	17.58	17.40						
20	HQAM	50	98	17.50	17.55	17.51	19	5				
20	HQAM	100	0	17.82	17.82	17.54						
Channel												
Frequency (MHz)												
16	QPSK	1	0	22.74	22.78	22.68				24	0	
16	QPSK	1	37	22.62	22.60	22.52						
16	QPSK	1	74	22.44	22.54	22.45						
16	QPSK	36	0	21.80	21.71	21.68						
16	QPSK	36	20	21.49	21.65	21.53						
16	QPSK	36	39	21.59	21.53	21.59	23	1				
16	QPSK	75	0	21.82	21.78	21.70						
16	HQAM	1	0	21.83	22.01	22.08						
16	HQAM	1	37	21.82	22.04	21.81						
16	HQAM	1	74	21.84	22.03	21.92						
16	HQAM	36	0	20.96	20.85	20.98	22	2				
16	HQAM	36	20	20.47	20.71	20.55						
16	HQAM	36	39	20.43	20.66	20.59						
16	HQAM	75	0	20.62	20.80	20.99						
16	HQAM	1	1	20.78	20.84	20.85						
16	HQAM	1	37	20.70	20.97	20.89	22	2				
16	HQAM	1	74	20.65	20.75	20.84						
16	HQAM	36	0	19.50	19.65	19.82						
16	HQAM	36	20	19.43	19.59	19.44						
16	HQAM	36	39	19.50	19.55	19.45						
16	HQAM	75	0	19.50	19.55	19.45	21	3				
16	HQAM	1	1	17.71	17.82	17.82						
16	HQAM	1	74	17.77	17.77	17.77						
16	HQAM	36	0	17.53	17.62	17.52						
16	HQAM	36	20	17.58	17.64	17.53						
16	HQAM	36	39	17.48	17.48	17.31	19	5				
16	HQAM	75	0	17.55	17.57	17.47						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.71	22.81	22.88	24	0				
10	QPSK	1	49	22.66	22.67	22.62						
10	QPSK	1	49	22.40	22.60	22.46						
10	QPSK	25	0	21.57	21.77	21.77						
10	QPSK	25	12	21.47	21.73	21.49						
10	QPSK	25	25	21.60	21.52	21.38	23	1				
10	QPSK	50	0	21.70	21.76	21.65						
10	HQAM	1	0	21.85	22.03	21.80						
10	HQAM	1	25	21.86	21.89	21.90						
10	HQAM	25	0	20.42	20.46	20.40						
10	HQAM	25	12	20.46	20.74	20.49	22	2				
10	HQAM	25	25	20.42	20.58	20.80						
10	HQAM	50	0	20.81	20.95	20.99						
10	HQAM	1	0	20.83	20.88	20.89						
10	HQAM	1	25	20.76	20.88	20.83						
10	HQAM	1	49	20.61	20.79	20.82	22	2				
10	HQAM	25	0	19.53	19.64	19.60						
10	HQAM	25	12	19.51	19.52	19.41						
10	HQAM	25	25	19.51	19.54	19.51						
10	HQAM	50	0	19.54	19.64	19.51						
10	HQAM	1	0	17.96	17.96	17.77	19	5				
10	HQAM	1	25	17.79	17.79	17.75						
10	HQAM	1	49	17.76	17.77	17.71						
10	HQAM	25	12	17.53	17.48	17.53						
10	HQAM	25	25	17.51	17.47	17.52						
10	HQAM	25	25	17.54	17.47	17.42	19	5				
10	HQAM	50	0	17.59	17.50	17.60						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.75	22.95	23.07	24	0				
5	QPSK	1	12	22.54	22.57	22.53						
5	QPSK	1	24	22.42	22.65	22.47						
5	QPSK	12	0	21.60	21.78	21.79						
5	QPSK	12	7	21.52	21.87	21.58						
5	QPSK	12	13	21.58	21.57	21.43	23	1				
5	QPSK	25	0	21.86	21.73	21.67						
5	HQAM	1	0	21.88	22.03	21.84						
5	HQAM	1	12	21.80	22.09	22.02						
5	HQAM	1	24	21.76	21.98	21.86						
5	HQAM	12	0	20.64	20.71	20.56	22	2				
5	HQAM	12	7	20.47	20.65	20.44						
5	HQAM	12	13	20.52	20.65	20.56						
5	HQAM	25	0	20.58	20.65	20.55						
5	HQAM	1	0	20.83	20.90	20.81						
5	HQAM	1	19	20.68	20.91	20.83	22	2				
5	HQAM	1	24	20.69	20.75	20.83						
5	HQAM	12	0	19.49	19.68	19.54						
5	HQAM	12	7	19.47	19.51	19.42						
5	HQAM	12	13	19.51	19.58	19.47						
5	HQAM	25	0	19.50	19.56	19.50	21	3				
5	HQAM	1	0	17.70	17.75	17.72						
5	HQAM	1	12	17.79	17.83	17.77						
5	HQAM	1	24	17.77	17.81	17.70						
5	HQAM	1	49	17.46	17.71	17.55						
5	HQAM	12	7	17.46	17.52	17.36	19	5				
5	HQAM	12	13	17.59	17.50	17.40						
5	HQAM	25	0	17.54	17.60	17.49						

Band 41 Ant 1												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High Power	Tune-up limit (dBm)	MPR (dB)			
Channel												
Frequency (MHz)												
20	QPSK	1	0	36795	40185	40620	41055	41480	24	0		
20	QPSK	1	49	23.27	23.31	23.10	23.10	23.07				
20	QPSK	1	99	23.13	23.27	23.00	23.11	23.08				
20	QPSK	50	0	22.28	22.30	22.18	22.28	22.26				
20	QPSK	50	24	22.16	22.31	22.03	22.12	22.03				
20	QPSK	50	49	22.19	22.26	22.09	22.12	22.03	23	1		
20	QPSK	100	0	22.73	22.42	22.18	22.34	22.16				
20	HQAM	1	0	22.81	22.70	22.42	22.64	22.46				
20	HQAM	1	99	22.47	22.61	22.46	22.48	22.48				
20	HQAM	50	0	21.18	21.30	21.11	21.16	21.13				
20	HQAM	50	24	21.10	21.26	21.13	21.24	21.06	22	2		
20	HQAM	50	49	21.15	21.13	21.01	21.04	20.98				
20	HQAM	100	0	21.23	21.20	21.14	21.16	21.07				
20	HQAM	100	0	21.12	21.03	20.97	21.04	20.97				
20	HQAM	1	49	21.40	21.49	21.30	21.31	21.41	21	3		
20	HQAM	50	0	20.27	20.29	20.10	20.19	20.08				
20	HQAM	50	24	20.18	20.34	20.06	20.16	20.03				
20	HQAM	50	49	20.19	20.11	20.08	20.04	19.99				
20	HQAM	100	0	20.12	20.23	20.07	20.08	19.97				
20	HQAM	100	0	20.04	20.15	19.99	20.04	19.94	19	5		
20	HQAM	1	49	19.38	19.46	19.31	19.33	19.24				
20	HQAM	1	99	18.40	18.39	18.29	18.28	18.36				
20	HQAM	50	0	18.42	18.36	18.14	18.24	18.06				
20	HQAM	50	24	18.07	18.18	17.97	18.05	17.97				
20	HQAM	50	49	18.15	18.20	18.09	18.04	18.02				
20	HQAM	100	0	18.07	18.18	18.01	18.15	18.04	18	5		
20	HQAM	100	0	17.92	18.03	17.85	17.99	17.84				
Channel												
Frequency (MHz)												
15	QPSK	1	0	23.34	27.43	27.93	28.97	29.15			24	0
15	QPSK	1	49	23.19	23.20	23.10	23.11	22.95				
15	QPSK	1	74	23.08	23.24	23.00	22.88	23.01				
15	QPSK	36	0	22.03	22.23	21.90	22.01	22.00				
15	QPSK	36	20	22.03	22.20	21.88	21.99	21.99				
15	QPSK	36	74	22.03	22.23	21.90	22.01	22.00	23	1		
15	HQAM	1	0	22.82	22.67	22.30	22.63	22.38				
15	HQAM	1	37	22.48	22.61	22.27	22.42	22.39				
15	HQAM	1	74	22.30	22.42	22.21	22.32	22.21				
15	HQAM	36	0	21.15	21.27	21.06	21.08	21.01				
15	HQAM	36	20	21.06	21.15	21.06	21.00	21.02	22	2		
15	HQAM	36	74	21.06	21.15	21.06	21.00	21.02				
15	HQAM	75	0	21.19	21.19	21.08	21.00	21.02				
15	HQAM	1	0	21.30	21.61	21.24	21.38	21.30				
15	HQAM	1	49	21.37	21.61	21.24	21.52	21.33	22	2		
15	HQAM	1	74	21.53	21.61	21.21	21.17	21.31				
15	HQAM	36	0	20.20	20.21	20.03	20.14	19.95				
15	HQAM	36	20	20.20	20.21	20.03	20.03	19.95				
15	HQAM	75	0	20.03	20.12	19.95	20.00	19.94	19	5		
15	HQAM	75	20	19.97	19.95	19.80	19.98	19.85				
15	HQAM	1	37	18.36	18.42	18.17	18.22	18.19				
15	HQAM	1	74	18.34	18.30	18.18	18.21	18.19				
15	HQAM	36	0	18.07	18.15	17.98	18.00	17.95				
15	HQAM	36	20	17.88	18.15	17.89	18.03	17.95	19	5		
15	HQAM	36	74	18.07	18.17	18.05	17.96	17.93				
15	HQAM	75	0	18.11	18.18	18.00	18.10	18.03				
Channel												
Frequency (MHz)												
10	QPSK	1	0	23.34	27.47	27.93	28.96	29.14	24	0		
10	QPSK	1	49	23.24	23.24	23.07	23.07	22.95				
10	QPSK	1	99	23.00	23.25	22.91	23.09	23.04				
10	QPSK	25	0	22.06	22.26	21.93	22.04	22.02				
10	QPSK	25	12	22.06	22.24	21.98	22.12	22.02				
10	QPSK	25	25	22.13	22.16	21.88	22.09	21.95	23	1		
10	QPSK	25	37	22.30	22.33	22.03	22.23	22.08				
10	HQAM	1	0	22.84	22.63	22.38	22.69	22.38				
10	HQAM	1	25	22.46	22.47	22.29	22.44	22.33				
10	HQAM	1	49	22.28	22.28	22.18	22.27	22.18				
10	HQAM	25	0	21.08	21.18	21.08	21.11	21.05	22	2		
10	HQAM	25	12	21.02	21.26	21.06	21.21	21.04				
10	HQAM	25	25	21.08	21.22	21.00	21.03	21.02				
10	HQAM	50	0	21.12	21.06	21.01	21.03	21.02				
10	HQAM	1	0	21.34	21.45	21.28	21.38	21.27	22	2		
10	HQAM	1	25	21.43	21.43	21.21	21.37	21.28				
10	HQAM	1	49	21.30	21.36	21.16	21.22	21.35				
10	HQAM	25	0	20.15	20.18	20.02	20.07	20.04				
10	HQAM	25	12	20.11	20.19	20.00	20.07	19.99	21	3		
10	HQAM	25	25	20.11	20.04	19.97	19.91	19.89				
10	HQAM	50	0	20.03	20.19	19.96	19.99	19.92				
10	HQAM	50	12	19.97	19.95	19.81	19.92	19.85				
10	HQAM	1	25	18.33	18.37	18.20	18.20	18.18	19	5		
10	HQAM	1	49	18.38	18.35	18.26	18.26	18.16				
10	HQAM	25	0	18.05	18.05	17.88	18.02	17.90				
10	HQAM	25	12	17.85	18.10	17.83	18.00	17.90				
10	HQAM	25	25	18.13	18.15	18.05	17.97	17.93				
10	HQAM	50	0	18.06	18.06	17.85	17.91	17.81	19	5		
Channel												
Frequency (MHz)												
5	QPSK	1	0	36875	40144	40620	41093	41665			24	0
5	QPSK	1	24	23.26	23.26	23.13	23.26	23.14				
5	QPSK	1	12	23.16	23.22	23.02	23.14	22.95				
5	QPSK	1	24	23.00	23.19	22.87	23.06	22.98				
5	QPSK	1	49	22.16	22.28	22.11	22.18	22.11				
5	QPSK	12	7	22.13	22.25	21.98	22.06	22.03	23	1		
5	QPSK	12	19	22.03	22.14	22.04	22.06	21.89				
5	QPSK	1	24	22.19	22.21	22.09	22.24	22.09				
5	HQAM	1	0	22.57	22.63	22.33	22.55	22.39				
5	HQAM	1	12	22.43	22.47	22.25	22.49	22.32				
5	HQAM	1	24	22.19	22.49	22.29	22.48	22.32	22	2		
5	HQAM	12	7	21.06	21.16	21.04	21.12	21.02				
5	HQAM	12	19	21.06	21.19	21.06	21.18	21.03				
5	HQAM	12	24	21.15	21.18	20.81	21.00	20.92				
5	HQAM	25	0	21.16	21.14	21.04	21.12	21.05	22	2		
5	HQAM	25	0	21.33	21.47	21.31	21.36	21.30				
5	HQAM	1	12	21.29	21.39	21.30	21.40	21.32				
5	HQAM	1	24	21.29	21.31	21.22	21.28	21.31				
5	HQAM	12	0	20.25	20.24	19.97	20.16	20.03	21	3		
5	HQAM	12	19	20.25	20.24	19.99	20.07	19.99				
5	HQAM	12	24	20.10	20.08	20.01	19.99	19.97				
5	HQAM	25	0	20.03	20.21	20.01	20.04	19.91				
5	HQAM	25	12	19.91	19.92	19.82	19.87	19.80	19	5		
5	HQAM	1	12	18.28	18.32	18.22	18.31	18.16				
5	HQAM	1	24	18.29	18.34	18.16	18.22	18.16				
5	HQAM	12	0	18.00	18.00	17.80	18.00	17.81				
5	HQAM	12	7	17.84	18.15	17.89	17.97	17.85				
5	HQAM	12	19	18.07	18.08	18.00	17.98	17.93	19	5		
5	HQAM	12	24	18.07	18.08	18.00	17.91	17.91				
Channel												
Frequency (MHz)												
5	QPSK	1	0	36875	40144	40620	41093	41665			24	0
5	QPSK	1	24	23.26	23.26	23.13	23.26	23.14				
5	QPSK	1	12	23.16	23.22	23.02	23.14	22.95				
5	QPSK	1	24	23.00	23.19	22.87	23.06	22.98				
5	QPSK	1	49	22.16	22.28	22.11	22.18	22.11				
5	QPSK	12	7	22.13	22.25	21.98	22.06	22.03	23	1		
5	QPSK	12	19	22.03	22.14	22.04	22.06	21.89				
5	QPSK	1	24	22.19	22.21	22.09	22.24	22.09				
5	HQAM	1	0	22.57	22.63	22.33	22.55	22.39				
5	HQAM	1	12	22.43	22.47	22.25	22.49	22.32				
5	HQAM	1	24	22.19	22.49	22.29	22.48	22.32	22	2		
5	HQAM	12	7	21.06	21.16	21.04	21.12	21.02				
5	HQAM	12	19	21.06	21.19	21.06	21.18	21.03				
5	HQAM	12	24	21.15	21.18	20.81	21.00	20.92				
5	HQAM	25	0	21.16	21.14	21.04	21.12	21.05	22	2		
5	HQAM	25	0	21.33	21.47	21.31	21.36	21.30				
5	HQAM	1	12	21.29	21.39	21.30	21.40	21.32				
5	HQAM	1	24	21.29	21.31	21.22	21.28	21.31				
5	HQAM	12	0	20.25	20.24	19.97	20.16	20.03	21	3		
5	HQAM	12	19	20.25	20.24	19.99	20.07	19.99				
5	HQAM	12	24	20.10	20.08	20.01	19.99	19.97				
5	HQAM	25	0	20.03	20.21	20.01	20.04	19.91				
5	HQAM	25	12	19.91	19.92	19.82	19.87	19.80	19	5		
5	HQAM	1	12	18.28	18.32	18.22	18.31	18.16				
5	HQAM	1	24	18.29	18.34	18.16	18.22	18.16				
5	HQAM	12	0	18.00	18.00	17.80	18.00	17.81				
5	HQAM	12	7	17.84	18.15	17.89	17.97	17.85				
5	HQAM	12	19	18.07	18.08	18.00	17.98	17.93	19	5		
5	HQAM	12	24	18.07	18.08	18.00	17.91	17.91				

Band 7 Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				20850	21100	21350				
Frequency (MHz)				2510	2535	2560				
20	QPSK	1	0	23.03	23.08	22.96	24	0		
20	QPSK	1	49	22.91	22.89	22.79				
20	QPSK	1	99	22.75	22.92	22.81				
20	QPSK	50	0	21.94	22.11	22.08	23	1		
20	QPSK	50	24	21.85	21.93	21.84				
20	QPSK	50	50	21.88	21.92	21.81				
20	QPSK	100	0	21.95	22.09	22.02	23	1		
20	16QAM	1	0	22.20	22.40	22.24				
20	16QAM	1	49	22.21	22.31	22.17				
20	16QAM	1	99	22.23	22.29	22.20	22	2		
20	16QAM	50	0	20.91	20.95	20.88				
20	16QAM	50	24	20.89	21.03	20.80				
20	16QAM	50	50	20.75	20.91	20.89	21	3		
20	16QAM	100	0	20.90	20.93	20.88				
20	64QAM	1	0	21.12	21.26	21.27				
20	64QAM	1	49	21.06	21.15	21.15	21	5		
20	64QAM	1	99	21.08	21.18	21.16				
20	64QAM	50	0	19.86	19.91	19.87				
20	64QAM	50	24	19.87	19.84	19.71	19	5		
20	64QAM	50	50	19.83	19.87	19.74				
20	64QAM	100	0	19.83	19.91	19.75				
20	256QAM	1	0	18.15	18.19	18.07	19	5		
20	256QAM	1	49	18.04	18.08	18.00				
20	256QAM	1	99	18.07	18.00	18.12				
20	256QAM	50	0	17.82	17.93	17.88	19	5		
20	256QAM	50	24	17.74	17.83	17.66				
20	256QAM	50	50	17.78	17.84	17.82				
20	256QAM	100	0	17.93	17.92	17.81				
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2507.5	2535	2562.5				
15	QPSK	1	0	22.99	23.06	22.85	24	0		
15	QPSK	1	37	22.90	22.89	22.77				
15	QPSK	1	74	22.67	22.85	22.70				
15	QPSK	36	0	21.90	22.07	21.99	23	1		
15	QPSK	36	20	21.74	21.92	21.83				
15	QPSK	36	39	21.76	21.83	21.73				
15	QPSK	75	0	21.88	22.00	22.00	23	1		
15	16QAM	1	0	22.09	22.38	22.20				
15	16QAM	1	37	22.16	22.22	22.10				
15	16QAM	1	74	22.15	22.18	22.09	22	2		
15	16QAM	36	0	20.91	20.89	20.88				
15	16QAM	36	20	20.82	20.95	20.78				
15	16QAM	36	39	20.68	20.85	20.86	22	2		
15	16QAM	75	0	20.85	20.87	20.84				
15	64QAM	1	0	21.03	21.23	21.17				
15	64QAM	1	37	21.04	21.15	21.12	22	2		
15	64QAM	1	74	21.06	21.08	21.12				
15	64QAM	36	0	19.81	19.90	19.80	21	3		
15	64QAM	36	20	19.85	19.75	19.71				
15	64QAM	36	39	19.77	19.86	19.63				
15	64QAM	75	0	19.78	19.87	19.72	19	5		
15	256QAM	1	0	18.15	18.18	17.97				
15	256QAM	1	37	17.99	17.97	17.90				
15	256QAM	1	74	17.98	17.92	18.05	19	5		
15	256QAM	36	0	17.77	17.92	17.82				
15	256QAM	36	20	17.70	17.78	17.61				
15	256QAM	36	39	17.74	17.83	17.74	19	5		
15	256QAM	75	0	17.88	17.92	17.73				
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2505	2535	2565				
10	QPSK	1	0	22.93	22.99	22.90	24	0		
10	QPSK	1	25	22.87	22.78	22.74				
10	QPSK	1	49	22.69	22.82	22.71				
10	QPSK	25	0	21.86	22.07	22.00	23	1		
10	QPSK	25	12	21.84	21.85	21.78				
10	QPSK	25	25	21.87	21.89	21.74				
10	QPSK	50	0	21.86	22.04	21.96	23	1		
10	16QAM	1	0	22.17	22.37	22.20				
10	16QAM	1	25	22.16	22.31	22.10				
10	16QAM	1	49	22.14	22.24	22.16	22	2		
10	16QAM	25	0	20.90	20.84	20.80				
10	16QAM	25	12	20.81	20.98	20.72				
10	16QAM	25	25	20.71	20.81	20.84	22	2		
10	16QAM	50	0	20.78	20.82	20.81				
10	64QAM	1	0	21.03	21.16	21.23				
10	64QAM	1	25	21.04	21.09	21.07	22	2		
10	64QAM	1	49	21.05	21.07	21.06				
10	64QAM	25	0	19.77	19.84	19.82				
10	64QAM	25	12	19.81	19.73	19.63	21	3		
10	64QAM	25	25	19.77	19.78	19.67				
10	64QAM	50	0	19.82	19.88	19.65				
10	256QAM	1	0	18.14	18.09	18.01	19	5		
10	256QAM	1	25	17.97	18.04	17.90				
10	256QAM	1	49	18.06	17.99	18.09				
10	256QAM	25	0	17.76	17.85	17.82	19	5		
10	256QAM	25	12	17.67	17.78	17.66				
10	256QAM	25	25	17.70	17.83	17.81				
10	256QAM	50	0	17.86	17.84	17.74				
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2502.5	2535	2567.5				
5	QPSK	1	0	22.94	23.01	22.84	24	0		
5	QPSK	1	12	22.84	22.85	22.78				
5	QPSK	1	24	22.67	22.85	22.77				
5	QPSK	12	0	21.87	22.08	22.07	23	1		
5	QPSK	12	7	21.75	21.87	21.81				
5	QPSK	12	13	21.84	21.91	21.71				
5	QPSK	25	0	21.86	22.02	21.90	23	1		
5	16QAM	1	0	22.16	22.40	22.15				
5	16QAM	1	12	22.16	22.22	22.07				
5	16QAM	1	24	22.20	22.27	22.09	22	2		
5	16QAM	12	0	20.88	20.83	20.85				
5	16QAM	12	7	20.82	20.99	20.69				
5	16QAM	12	13	20.72	20.83	20.85	22	2		
5	16QAM	25	0	20.83	20.83	20.88				
5	64QAM	1	0	21.04	21.26	21.27				
5	64QAM	1	12	21.04	21.10	21.11	22	2		
5	64QAM	1	24	20.97	21.15	21.10				
5	64QAM	12	0	19.84	19.84	19.82				
5	64QAM	12	7	19.80	19.73	19.65	21	3		
5	64QAM	12	13	19.71	19.83	19.67				
5	64QAM	25	0	19.81	19.83	19.66				
5	256QAM	1	0	18.05	18.15	18.05	19	5		
5	256QAM	1	12	17.95	18.04	17.91				
5	256QAM	1	24	18.01	17.92	18.09				
5	256QAM	12	0	17.82	17.83	17.79	19	5		
5	256QAM	12	7	17.69	17.75	17.64				
5	256QAM	12	13	17.75	17.82	17.77				
5	256QAM	25	0	17.84	17.82	17.81				

Band 30 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				27710					
Frequency (MHz)				2310					
10	QPSK	1	0		23.09		24	0	
10	QPSK	1	25		22.89				
10	QPSK	1	49		22.91				
10	QPSK	25	0		22.09		23	1	
10	QPSK	25	12		21.92				
10	QPSK	25	25		21.84				
10	QPSK	50	0		22.04		23	1	
10	16QAM	1	0		22.36				
10	16QAM	1	25		22.36				
10	16QAM	1	49		22.33		22	2	
10	16QAM	25	0		20.97				
10	16QAM	25	12		20.91				
10	16QAM	25	25		20.89		22	2	
10	16QAM	50	0		20.93				
10	64QAM	1	0		21.28				
10	64QAM	1	25		21.23		22	2	
10	64QAM	1	49		21.09				
10	64QAM	25	0		19.92				
10	64QAM	25	12		19.85		21	3	
10	64QAM	25	25		19.83				
10	64QAM	50	0		19.88				
10	256QAM	1	0		18.10		19	5	
10	256QAM	1	25		18.14				
10	256QAM	1	49		18.07				
10	256QAM	25	0		17.92		19	5	
10	256QAM	25	12		17.80				
10	256QAM	25	25		17.91				
10	256QAM	50	0		17.84				
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	0	23.04	23.04	23.03	24	0	
5	QPSK	1	12	22.81	22.88	22.78			
5	QPSK	1	24	22.86	22.81	22.88			
5	QPSK	12	0	22.07	21.99	22.05	23	1	
5	QPSK	12	7	21.85	21.80	21.92			
5	QPSK	12	13	21.73	21.79	21.75			
5	QPSK	25	0	22.00	22.01	21.96	23	1	
5	16QAM	1	0	22.33	22.33	22.35			
5	16QAM	1	12	22.25	22.25	22.33			
5	16QAM	1	24	22.23	22.29	22.22	22	2	
5	16QAM	12	0	20.91	20.96	20.92			
5	16QAM	12	7	20.88	20.90	20.82			
5	16QAM	12	13	20.86	20.84	20.78	22	2	
5	16QAM	25	0	20.89	20.86	20.83			
5	64QAM	1	0	21.22	21.24	21.22			
5	64QAM	1	12	21.22	21.17	21.21	22	2	
5	64QAM	1	24	20.99	21.01	21.00			
5	64QAM	12	0	19.84	19.80	19.91			
5	64QAM	12	7	19.74	19.83	19.74	21	3	
5	64QAM	12	13	19.76	19.80	19.71			
5	64QAM	25	0	19.83	19.79	19.85			
5	256QAM	1	0	18.04	18.04	18.05	19	5	
5	256QAM	1	12	18.14	18.10	18.09			
5	256QAM	1	24	17.98	18.03	18.03			
5	256QAM	12	0	17.91	17.91	17.85	19	5	
5	256QAM	12	7	17.71	17.79	17.79			
5	256QAM	12	13	17.85	17.81	17.85			
5	256QAM	25	0	17.72	17.80	17.72			



Band 38 Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38050	38150				
Frequency [MHz]				24.55	24.55	24.55				
20	QPSK	1	0	22.57	22.53	22.45	24	0		
20	QPSK	1	49	22.44	22.45	22.39				
20	QPSK	1	99	22.36	22.47	22.38				
20	QPSK	50	0	21.57	21.63	21.59				
20	QPSK	50	24	21.38	21.44	21.39	23	1		
20	QPSK	50	49	21.31	21.42	21.36				
20	QPSK	100	0	21.52	21.65	21.56				
20	QPSK	100	50	21.58	21.57	21.79				
20	16QAM	1	0	21.71	21.87	21.69	23	1		
20	16QAM	1	99	21.74	21.84	21.78				
20	16QAM	50	0	20.47	20.50	20.38				
20	16QAM	50	24	20.55	20.51	20.27				
20	16QAM	100	0	20.44	20.49	20.35	22	2		
20	16QAM	100	0	20.35	20.45	20.27				
20	16QAM	100	0	20.28	20.42	20.34				
20	64QAM	1	0	20.66	20.65	20.77				
20	64QAM	1	99	20.62	20.68	20.70	22	2		
20	64QAM	50	0	19.49	19.53	19.44				
20	64QAM	50	24	19.56	19.48	19.35				
20	64QAM	100	0	19.41	19.33	19.35				
20	64QAM	100	0	19.35	19.45	19.27	21	3		
20	64QAM	100	0	17.87	17.85	17.77				
20	256QAM	1	0	17.38	17.33	17.24				
20	256QAM	1	0	17.65	17.58	17.62				
20	256QAM	50	0	17.42	17.44	17.37	19	5		
20	256QAM	50	24	17.38	17.33	17.24				
20	256QAM	50	49	17.35	17.44	17.32				
20	256QAM	100	0	17.47	17.43	17.43				
Channel				37850	38050	38150			Tune-up limit (dBm)	MPR (dB)
Frequency [MHz]				21.73	21.73	21.73				
15	QPSK	1	0	22.54	22.54	22.41	24	0		
15	QPSK	1	97	22.58	22.59	22.34				
15	QPSK	1	99	22.38	22.39	22.34				
15	QPSK	36	0	21.85	21.89	21.88				
15	QPSK	36	20	21.33	21.41	21.37	23	1		
15	QPSK	36	39	21.32	21.39	21.37				
15	QPSK	75	0	21.45	21.58	21.46				
15	16QAM	1	0	21.69	21.84	21.73				
15	16QAM	1	97	21.68	21.81	21.61	23	1		
15	16QAM	1	74	21.62	21.75	21.72				
15	16QAM	36	0	20.40	20.42	20.27				
15	16QAM	36	20	20.32	20.42	20.33				
15	16QAM	36	39	20.26	20.33	20.31	22	2		
15	16QAM	75	0	20.44	20.46	20.27				
15	16QAM	75	0	20.64	20.74	20.67				
15	64QAM	1	97	20.54	20.69	20.67				
15	64QAM	1	74	20.51	20.62	20.66	22	2		
15	64QAM	36	0	19.38	19.50	19.38				
15	64QAM	36	20	19.29	19.40	19.35				
15	64QAM	36	39	19.24	19.35	19.31				
15	64QAM	75	0	19.31	19.37	19.15	21	3		
15	64QAM	75	0	19.44	19.43	19.35				
15	256QAM	1	0	17.57	17.61	17.65				
15	256QAM	1	74	17.57	17.49	17.55				
15	256QAM	36	0	17.38	17.38	17.25	19	5		
15	256QAM	36	20	17.34	17.35	17.23				
15	256QAM	36	39	17.34	17.38	17.23				
15	256QAM	75	0	17.46	17.47	17.38				
Channel				37850	38050	38050	Tune-up limit (dBm)	MPR (dB)		
Frequency [MHz]				22.53	22.53	22.53				
10	QPSK	1	0	22.53	22.53	22.43	24	0		
10	QPSK	1	49	22.50	22.58	22.35				
10	QPSK	1	99	22.40	22.44	22.26				
10	QPSK	25	0	21.52	21.61	21.52				
10	QPSK	25	12	21.45	21.54	21.37	23	1		
10	QPSK	25	25	21.30	21.29	21.30				
10	QPSK	50	0	21.48	21.54	21.52				
10	16QAM	1	0	21.78	21.78	21.71				
10	16QAM	1	25	21.61	21.60	21.65	23	1		
10	16QAM	1	49	21.71	21.75	21.73				
10	16QAM	25	0	20.46	20.49	20.34				
10	16QAM	25	12	20.38	20.44	20.35				
10	16QAM	25	25	20.38	20.43	20.28	22	2		
10	16QAM	50	0	20.41	20.45	20.34				
10	16QAM	50	0	20.65	20.74	20.68				
10	64QAM	1	0	20.52	20.67	20.66				
10	64QAM	1	49	20.58	20.62	20.62	22	2		
10	64QAM	25	0	19.44	19.43	19.35				
10	64QAM	25	12	19.27	19.40	19.26				
10	64QAM	25	25	19.28	19.39	19.35				
10	64QAM	50	0	19.31	19.34	19.28	21	3		
10	256QAM	1	0	17.64	17.65	17.64				
10	256QAM	1	0	17.53	17.64	17.64				
10	256QAM	1	49	17.57	17.59	17.58				
10	256QAM	25	0	17.31	17.36	17.25	19	5		
10	256QAM	25	12	17.38	17.31	17.21				
10	256QAM	25	25	17.31	17.42	17.22				
10	256QAM	50	0	17.46	17.45	17.33				
Channel				37775	38050	38050			Tune-up limit (dBm)	MPR (dB)
Frequency [MHz]				22.53	22.53	22.53				
5	QPSK	1	0	22.55	22.55	22.47	24	0		
5	QPSK	1	12	22.40	22.39	22.30				
5	QPSK	1	24	22.28	22.49	22.38				
5	QPSK	12	0	21.45	21.65	21.57				
5	QPSK	12	7	21.34	21.49	21.30	23	1		
5	QPSK	12	13	21.31	21.29	21.30				
5	QPSK	25	0	21.46	21.58	21.46				
5	16QAM	1	0	21.75	21.93	21.76				
5	16QAM	1	12	21.59	21.86	21.62	23	1		
5	16QAM	1	24	21.64	21.83	21.78				
5	16QAM	12	0	20.45	20.47	20.35				
5	16QAM	12	7	20.28	20.44	20.34				
5	16QAM	12	13	20.26	20.41	20.32	22	2		
5	16QAM	25	0	20.38	20.47	20.35				
5	16QAM	25	0	20.60	20.61	20.77				
5	16QAM	25	0	20.35	20.67	20.78				
5	64QAM	1	24	20.56	20.66	20.64	22	2		
5	64QAM	12	0	19.44	19.42	19.34				
5	64QAM	12	7	19.28	19.39	19.31				
5	64QAM	12	13	19.41	19.52	19.24	21	3		
5	64QAM	25	0	19.29	19.45	19.19				
5	64QAM	25	0	17.77	17.83	17.68				
5	256QAM	1	12	17.53	17.63	17.47				
5	256QAM	1	24	17.54	17.53	17.60	19	5		
5	256QAM	12	0	17.37	17.33	17.28				
5	256QAM	12	7	17.38	17.32	17.23				
5	256QAM	12	13	17.30	17.40	17.29				
5	256QAM	25	0	17.37	17.42	17.33				



Band 42 FCC Part27Q Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Main Ch / Freq.	Power High Ch / Freq.	Tx-to-ant (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				42190	42590	42990			
20	QPSK	1	0	23.13	23.15	23.50	24	0	
20	QPSK	1	49	23.01	23.02	22.91			
20	QPSK	1	99	23.01	22.96	22.86			
20	QPSK	50	0	23.16	23.19	23.11	23	1	
20	QPSK	50	24	22.01	22.04	21.90			
20	QPSK	50	49	21.99	21.98	21.82			
20	QPSK	100	0	23.16	23.18	21.99	23	1	
20	16QAM	1	0	22.46	22.41	22.34			
20	16QAM	1	49	22.43	22.35	22.28			
20	16QAM	1	99	22.37	22.43	22.26	22	2	
20	16QAM	50	0	21.03	21.04	20.85			
20	16QAM	50	24	21.01	21.07	20.85			
20	16QAM	50	50	20.92	20.90	20.94	22	2	
20	16QAM	100	0	20.88	20.96	20.85			
20	64QAM	1	0	21.07	21.07	21.24			
20	64QAM	1	49	21.27	21.27	21.15	22	2	
20	64QAM	1	99	21.17	21.15	21.26			
20	64QAM	50	0	20.01	19.97	19.98			
20	64QAM	50	24	19.98	19.86	19.93	21	3	
20	64QAM	50	50	19.87	19.83	19.86			
20	64QAM	100	0	19.96	19.95	19.94			
20	256QAM	1	0	18.24	18.17	18.14	19	5	
20	256QAM	1	49	18.20	18.16	18.07			
20	256QAM	1	99	18.08	18.14	18.12			
20	256QAM	50	0	17.88	17.97	17.90	19	5	
20	256QAM	50	24	17.86	17.89	17.75			
20	256QAM	50	50	17.02	17.90	17.80			
20	256QAM	100	0	17.86	18.01	17.88			
Channel				42195	42595	43015	Tx-to-ant (dBm)	MPR (dB)	
Frequency (MHz)				42195	42595	43015			
15	QPSK	1	0	23.08	23.10	22.87	24	0	
15	QPSK	1	37	22.94	22.94	22.80			
15	QPSK	1	74	22.92	22.92	22.70			
15	QPSK	36	0	22.03	22.13	22.06	23	1	
15	QPSK	36	20	21.90	21.99	21.85			
15	QPSK	36	36	21.91	21.98	21.88			
15	QPSK	75	0	22.06	21.88	21.92	23	1	
15	16QAM	1	0	22.36	22.33	22.27			
15	16QAM	1	37	22.38	22.27	22.22			
15	16QAM	1	74	22.35	22.31	22.20	22	2	
15	16QAM	36	0	21.00	20.91	20.77			
15	16QAM	36	20	20.98	20.94	20.92			
15	16QAM	36	36	20.80	20.87	20.80	22	2	
15	16QAM	75	0	20.91	20.92	20.76			
15	64QAM	1	0	21.25	21.13	21.31			
15	64QAM	1	37	21.15	21.19	21.09	22	2	
15	64QAM	1	74	21.19	21.07	21.16			
15	64QAM	36	0	19.93	19.92	19.83			
15	64QAM	36	20	19.91	19.83	19.72	21	3	
15	64QAM	36	36	19.83	19.73	19.75			
15	64QAM	75	0	19.89	19.92	19.81			
15	256QAM	1	0	18.16	18.10	18.04	19	5	
15	256QAM	1	37	18.10	18.05	18.02			
15	256QAM	1	74	18.00	18.12	18.02			
15	256QAM	36	0	17.84	17.91	17.87	19	5	
15	256QAM	36	20	17.73	17.82	17.72			
15	256QAM	36	36	17.85	17.77	17.76			
15	256QAM	75	0	17.87	17.93	17.75			
Channel				42140	42590	42940	Tx-to-ant (dBm)	MPR (dB)	
Frequency (MHz)				42140	42590	42940			
10	QPSK	1	0	23.04	23.10	22.94	24	0	
10	QPSK	1	25	22.90	22.94	22.78			
10	QPSK	1	49	22.96	22.94	22.71			
10	QPSK	25	0	22.06	22.06	22.08	23	1	
10	QPSK	25	12	21.99	21.94	21.82			
10	QPSK	25	25	21.92	21.95	21.81			
10	QPSK	50	0	22.02	22.09	21.95	23	1	
10	16QAM	1	0	22.37	22.27	22.20			
10	16QAM	1	25	22.41	22.27	22.22			
10	16QAM	1	49	22.26	22.35	22.21	22	2	
10	16QAM	25	0	20.03	20.95	20.80			
10	16QAM	25	12	20.87	21.03	20.72			
10	16QAM	25	25	20.89	20.94	20.86	22	2	
10	16QAM	50	0	20.89	20.85	20.75			
10	64QAM	1	0	21.14	21.22	21.22			
10	64QAM	1	25	21.24	21.22	21.13	22	2	
10	64QAM	1	49	21.10	21.09	21.19			
10	64QAM	25	0	19.97	19.85	19.91			
10	64QAM	25	12	19.90	19.75	19.75	21	3	
10	64QAM	25	25	19.74	19.71	19.69			
10	64QAM	50	0	19.90	19.83	19.81			
10	256QAM	1	0	18.10	18.06	18.11	19	5	
10	256QAM	1	25	18.09	18.08	17.93			
10	256QAM	1	49	18.02	18.01	18.00			
10	256QAM	25	0	17.96	17.93	17.78	19	5	
10	256QAM	25	12	17.80	17.80	17.68			
10	256QAM	25	25	17.85	17.78	17.75			
10	256QAM	50	0	17.86	17.95	17.74			
Channel				42115	42595	43005	Tx-to-ant (dBm)	MPR (dB)	
Frequency (MHz)				42115	42595	43005			
5	QPSK	1	0	23.08	23.02	22.88	24	0	
5	QPSK	1	12	22.97	22.91	22.83			
5	QPSK	1	24	22.92	22.92	22.69			
5	QPSK	10	0	22.03	22.15	21.98	23	1	
5	QPSK	12	7	21.95	22.01	21.83			
5	QPSK	12	13	21.85	21.85	21.76			
5	QPSK	20	0	22.03	22.06	21.92	23	1	
5	16QAM	1	0	22.30	22.31	22.22			
5	16QAM	1	12	22.36	22.25	22.13			
5	16QAM	1	24	22.34	22.36	22.22	22	2	
5	16QAM	12	0	20.88	21.02	20.77			
5	16QAM	12	7	20.88	20.96	20.72			
5	16QAM	12	13	20.84	20.84	20.80	22	2	
5	16QAM	20	0	20.89	20.93	20.85			
5	64QAM	1	0	21.22	21.19	21.28			
5	64QAM	1	12	21.16	21.15	21.08	22	2	
5	64QAM	1	24	21.08	21.11	21.18			
5	64QAM	12	0	19.87	19.94	19.92			
5	64QAM	12	7	19.81	19.80	19.79	21	3	
5	64QAM	12	13	19.73	19.72	19.71			
5	64QAM	20	0	19.85	19.92	19.71			
5	256QAM	1	0	18.17	18.07	18.01	19	5	
5	256QAM	1	12	18.12	18.07	17.99			
5	256QAM	1	24	17.99	18.02	17.99			
5	256QAM	12	0	17.86	17.85	17.83	19	5	
5	256QAM	12	7	17.84	17.81	17.68			
5	256QAM	12	13	17.90	17.81	17.73			
5	256QAM	20	0	17.84	17.89	17.84			



Band 48_FCC Ant 2												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel				56340	56800	56160	56640					
Frequency (MHz)				30.71	30.71	30.71	30.71					
20	QPSK	1	0	23.54	23.77	23.66	23.58	24	0			
20	QPSK	1	48	23.67	23.63	23.49	23.53					
20	QPSK	1	96	23.60	23.55	23.39	23.45					
20	QPSK	50	0	22.88	22.73	22.60	22.69					
20	QPSK	50	24	22.70	22.60	22.50	22.46	23	1			
20	QPSK	50	50	22.68	22.59	22.49	22.48					
20	QPSK	100	0	22.76	22.71	22.66	22.59					
20	HQAM	1	0	22.80	22.69	22.54	22.61					
20	HQAM	1	48	22.75	22.57	22.52	22.55	23	1			
20	HQAM	1	96	22.82	22.75	22.51	22.58					
20	HQAM	50	24	21.65	21.58	21.63	21.53					
20	HQAM	50	50	21.63	21.59	21.39	21.46					
20	HQAM	100	0	21.53	21.57	21.53	21.52	22	2			
20	HQAM	1	0	21.96	21.95	21.75	21.91					
20	HQAM	1	48	21.91	21.52	21.72	21.93					
20	HQAM	1	96	21.88	21.94	21.69	21.77					
20	HQAM	50	0	20.64	20.60	20.60	20.53	21	3			
20	HQAM	50	24	20.60	20.53	20.46	20.43					
20	HQAM	50	50	20.54	20.52	20.53	20.45					
20	HQAM	100	0	20.57	20.53	20.43	20.36					
20	25GQAM	1	0	18.89	18.84	18.68	18.77	19	5			
20	25GQAM	1	48	18.67	18.71	18.70	18.59					
20	25GQAM	1	96	18.61	18.62	18.76	18.73					
20	25GQAM	50	0	18.73	18.53	18.46	18.50					
20	25GQAM	50	24	18.67	18.47	18.42	18.30	19			5	
20	25GQAM	50	50	18.65	18.62	18.44	18.41					
20	25GQAM	100	0	18.65	18.58	18.58	18.51					
Channel				56315	56805	56160	56665					
Frequency (MHz)				30.67	30.67	30.67	30.67					
15	QPSK	1	0	23.71	23.76	23.93	23.51	24	0			
15	QPSK	1	37	23.61	23.52	23.36	23.51					
15	QPSK	1	74	23.68	23.52	23.36	23.34					
15	QPSK	36	0	22.78	22.68	22.57	22.64					
15	QPSK	36	20	22.65	22.52	22.48	22.42	23	1			
15	QPSK	36	36	22.54	22.45	22.37	22.45					
15	QPSK	75	0	22.85	22.67	22.43	22.52					
15	HQAM	1	0	22.71	22.60	22.49	22.51					
15	HQAM	1	37	22.71	22.51	22.38	22.47	23	1			
15	HQAM	1	74	22.73	22.71	22.42	22.52					
15	HQAM	36	0	21.64	21.56	21.36	21.49					
15	HQAM	36	20	21.62	21.47	21.50	21.38					
15	HQAM	36	36	21.51	21.49	21.35	21.38	22	2			
15	HQAM	75	0	21.59	21.46	21.40	21.48					
15	HQAM	1	0	21.91	21.88	21.71	21.69					
15	HQAM	1	37	21.84	21.81	21.60	21.72					
15	HQAM	1	74	21.82	21.81	21.69	21.66	22	2			
15	HQAM	36	0	20.54	20.45	20.35	20.51					
15	HQAM	36	20	20.46	20.42	20.32	20.39					
15	HQAM	36	36	20.50	20.39	20.47	20.42					
15	HQAM	75	0	20.51	20.45	20.35	20.23	21	3			
15	25GQAM	1	0	18.77	18.73	18.60	18.65					
15	25GQAM	1	37	18.80	18.64	18.57	18.46					
15	25GQAM	1	74	18.78	18.70	18.73	18.59					
15	25GQAM	36	0	18.85	18.42	18.43	18.47	19	5			
15	25GQAM	36	20	18.44	18.34	18.37	18.30					
15	25GQAM	36	36	18.57	18.47	18.42	18.38					
15	25GQAM	75	0	18.58	18.49	18.65	18.48					
Channel				56305	56815	56160	56655					
Frequency (MHz)				30.65	30.67	30.62	30.65					
10	QPSK	1	0	23.80	23.67	23.55	23.56	24	0			
10	QPSK	1	26	23.64	23.50	23.39	23.40					
10	QPSK	1	49	23.55	23.47	23.33	23.40					
10	QPSK	25	0	22.84	22.62	22.54	22.61					
10	QPSK	25	12	22.60	22.56	22.37	22.43	23	1			
10	QPSK	25	25	22.60	22.57	22.40	22.37					
10	QPSK	50	0	22.66	22.61	22.45	22.55					
10	HQAM	1	0	22.67	22.59	22.46	22.53					
10	HQAM	1	26	22.71	22.49	22.38	22.47	23	1			
10	HQAM	1	48	22.60	22.66	22.40	22.48					
10	HQAM	25	0	21.61	21.52	21.47	21.49					
10	HQAM	25	12	21.67	21.47	21.50	21.38					
10	HQAM	25	25	21.57	21.51	21.26	21.28	22	2			
10	HQAM	50	0	21.57	21.45	21.49	21.48					
10	HQAM	1	0	21.93	21.83	21.69	21.87					
10	HQAM	1	26	21.82	21.85	21.67	21.78					
10	HQAM	1	49	21.77	21.91	21.61	21.74	21	3			
10	HQAM	25	0	20.55	20.58	20.53	20.44					
10	HQAM	25	12	20.42	20.40	20.36	20.30					
10	HQAM	25	25	20.40	20.39	20.48	20.35					
10	HQAM	50	0	20.50	20.41	20.36	20.25	19	5			
10	25GQAM	1	0	18.76	18.60	18.62	18.68					
10	25GQAM	1	26	18.75	18.61	18.59	18.53					
10	25GQAM	1	49	18.72	18.70	18.63	18.67					
10	25GQAM	25	0	18.70	18.36	18.44	18.40	19	5			
10	25GQAM	25	12	18.45	18.38	18.20	18.22					
10	25GQAM	25	25	18.54	18.42	18.30	18.27					
10	25GQAM	50	0	18.51	18.44	18.32	18.38					
Channel				56255	56815	56160	56615					
Frequency (MHz)				30.62	30.67	30.63	30.67					
5	QPSK	1	0	23.78	23.71	23.53	23.49	24	0			
5	QPSK	1	12	23.51	23.49	23.44	23.39					
5	QPSK	1	24	23.51	23.42	23.28	23.38					
5	QPSK	12	0	22.74	22.67	22.51	22.65					
5	QPSK	12	7	22.61	22.57	22.38	22.39	23	1			
5	QPSK	12	13	22.61	22.41	22.44	22.38					
5	QPSK	25	0	22.70	22.68	22.46	22.56					
5	HQAM	1	0	22.73	22.55	22.43	22.49					
5	HQAM	1	12	22.63	22.49	22.48	22.44	23	1			
5	HQAM	1	24	22.76	22.62	22.42	22.44					
5	HQAM	12	0	21.61	21.55	21.40	21.40					
5	HQAM	12	7	21.52	21.50	21.39	21.36					
5	HQAM	12	13	21.53	21.58	21.32	21.32	22	2			
5	HQAM	25	0	21.60	21.48	21.42	21.44					
5	HQAM	1	0	21.91	21.89	21.68	21.84					
5	HQAM	1	19	21.83	21.80	21.54	21.80					
5	HQAM	1	24	21.85	21.88	21.59	21.65	21	3			
5	HQAM	12	0	20.61	20.46	20.52	20.44					
5	HQAM	12	7	20.42	20.41	20.39	20.36					
5	HQAM	12	13	20.41	20.43	20.45	20.35					
5	HQAM	25	0	20.53	20.44	20.44	20.29	19	5			
5	25GQAM	1	0	18.74	18.60	18.63	18.73					
5	25GQAM	1	12	18.76	18.64	18.65	18.50					
5	25GQAM	1	24	18.73	18.77	18.71	18.62					
5	25GQAM	12	0	18.63	18.43	18.43	18.37	19	5			
5	25GQAM	12	7	18.63	18.35	18.35	18.23					
5	25GQAM	12	13	18.65	18.47	18.51	18.44	19	5			
5	25GQAM	25	0	18.62	18.52	18.44	18.52					

Band 42 FCC Part27Q Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					42190	42590	42990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3450	3500	3550		
20	QPSK	1	0		22.99	23.04	22.89	24	0
20	QPSK	1	49		22.78	22.79	22.81		
20	QPSK	1	99		22.85	22.85	22.75		
20	QPSK	50	0		22.02	22.07	21.97		
20	QPSK	50	24		21.81	21.85	21.76	23	1
20	QPSK	50	50		21.78	21.84	21.70		
20	QPSK	100	0		21.99	22.04	21.84		
20	16QAM	1	0		22.29	22.31	22.19		
20	16QAM	1	49		22.19	22.25	22.09	23	1
20	16QAM	1	99		22.23	22.31	22.11		
20	16QAM	50	0		20.89	20.95	20.84		
20	16QAM	50	24		20.85	20.85	20.74		
20	16QAM	50	50		20.80	20.77	20.73	22	2
20	16QAM	100	0		20.78	20.77	20.77		
20	64QAM	1	0		21.18	21.19	21.12		
20	64QAM	1	49		21.13	21.07	21.14		
20	64QAM	1	99		21.04	21.07	21.13	21	3
20	64QAM	50	0		19.81	19.90	19.77		
20	64QAM	50	24		19.83	19.78	19.67		
20	64QAM	50	50		19.67	19.76	19.73		
20	64QAM	100	0		19.80	19.79	19.74	19	5
20	256QAM	1	0		18.00	18.08	18.10		
20	256QAM	1	49		17.86	17.97	17.88		
20	256QAM	1	99		17.93	17.92	17.99		
20	256QAM	50	0		17.83	17.85	17.78	19	5
20	256QAM	50	24		17.71	17.71	17.58		
20	256QAM	50	50		17.74	17.80	17.68		
20	256QAM	100	0		17.85	17.85	17.74		
Channel					42495	42590	42695	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3457.5	3500	3542.5		
15	QPSK	1	0		22.89	23.03	22.84	24	0
15	QPSK	1	37		22.71	22.77	22.79		
15	QPSK	1	74		22.85	22.75	22.68		
15	QPSK	36	0		21.94	21.98	21.88		
15	QPSK	36	20		21.70	21.91	21.67	23	1
15	QPSK	36	39		21.73	21.79	21.64		
15	QPSK	75	0		21.91	21.94	21.77		
15	16QAM	1	0		22.26	22.22	22.14		
15	16QAM	1	37		22.16	22.24	22.07	23	1
15	16QAM	1	74		22.19	22.21	22.10		
15	16QAM	36	0		20.80	20.89	20.74		
15	16QAM	36	20		20.82	20.77	20.72		
15	16QAM	36	39		20.89	20.75	20.66	22	2
15	16QAM	75	0		20.74	20.75	20.66		
15	64QAM	1	0		21.12	21.16	21.09		
15	64QAM	1	37		21.06	21.02	21.10		
15	64QAM	1	74		20.95	20.96	21.10	21	3
15	64QAM	36	0		19.73	19.87	19.73		
15	64QAM	36	20		19.75	19.67	19.60		
15	64QAM	36	39		19.59	19.67	19.73		
15	64QAM	75	0		19.70	19.76	19.64	19	5
15	256QAM	1	0		17.82	17.96	18.06		
15	256QAM	1	37		17.89	17.91	17.79		
15	256QAM	1	74		17.89	17.87	17.94		
15	256QAM	36	0		17.79	17.78	17.69	19	5
15	256QAM	36	20		17.68	17.66	17.48		
15	256QAM	36	39		17.73	17.73	17.66		
15	256QAM	75	0		17.77	17.76	17.71		
Channel					42140	42590	43040	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3455	3500	3545		
10	QPSK	1	0		22.84	22.97	22.80	24	0
10	QPSK	1	25		22.67	22.68	22.81		
10	QPSK	1	49		22.82	22.82	22.66		
10	QPSK	25	0		22.00	22.06	21.91		
10	QPSK	25	12		21.75	21.93	21.72	23	1
10	QPSK	25	25		21.78	21.72	21.61		
10	QPSK	50	0		21.91	21.98	21.74		
10	16QAM	1	0		22.26	22.31	22.19		
10	16QAM	1	25		22.09	22.17	22.03	23	1
10	16QAM	1	49		22.12	22.25	22.04		
10	16QAM	25	0		20.81	20.84	20.70		
10	16QAM	25	12		20.83	20.75	20.69		
10	16QAM	25	25		20.75	20.74	20.65	22	2
10	16QAM	50	0		20.74	20.75	20.75		
10	64QAM	1	0		21.17	21.17	21.10		
10	64QAM	1	25		21.08	20.98	21.14		
10	64QAM	1	49		20.93	20.97	21.11	22	2
10	64QAM	25	0		19.70	19.86	19.70		
10	64QAM	25	12		19.81	19.73	19.60		
10	64QAM	25	25		19.58	19.67	19.63		
10	64QAM	50	0		19.71	19.72	19.66	19	5
10	256QAM	1	0		18.00	18.00	18.10		
10	256QAM	1	25		17.80	17.91	17.77		
10	256QAM	1	49		17.84	17.85	17.97		
10	256QAM	25	0		17.77	17.81	17.76	19	5
10	256QAM	25	12		17.61	17.68	17.56		
10	256QAM	25	25		17.67	17.69	17.64		
10	256QAM	50	0		17.78	17.79	17.69		
Channel					42115	42590	43065	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3452.5	3500	3547.5		
5	QPSK	1	0		22.90	23.01	22.80	24	0
5	QPSK	1	12		22.71	22.69	22.75		
5	QPSK	1	24		22.75	22.78	22.75		
5	QPSK	12	0		21.91	22.02	21.96		
5	QPSK	12	7		21.76	21.85	21.69	23	1
5	QPSK	12	13		21.75	21.74	21.59		
5	QPSK	25	0		21.89	21.94	21.83		
5	16QAM	1	0		22.18	22.29	22.15		
5	16QAM	1	12		22.13	22.18	22.03	23	1
5	16QAM	1	24		22.14	22.27	22.04		
5	16QAM	12	0		20.81	20.86	20.80		
5	16QAM	12	7		20.82	20.79	20.73		
5	16QAM	12	13		20.76	20.77	20.64	22	2
5	16QAM	25	0		20.99	20.76	20.65		
5	64QAM	1	0		21.09	21.17	21.01		
5	64QAM	1	12		21.08	21.06	21.11		
5	64QAM	1	24		21.01	21.05	21.08	21	3
5	64QAM	12	0		19.76	19.82	19.68		
5	64QAM	12	7		19.74	19.74	19.60		
5	64QAM	12	13		19.63	19.66	19.65		
5	256QAM	25	0		19.72	19.71	19.70	19	5
5	256QAM	1	0		17.97	17.97	18.03		
5	256QAM	1	12		17.92	17.89	17.80		
5	256QAM	1	24		17.83	17.86	17.99		
5	256QAM	12	0		17.82	17.75	17.71	19	5
5	256QAM	12	7		17.82	17.68	17.56		
5	256QAM	12	13		17.73	17.69	17.60		
5	256QAM	25	0		17.80	17.78	17.73		

Band 48_FCC Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3570	3600	3644	3690		
20	QPSK	1	0	23.25	23.33	23.25	23.14	24	0
20	QPSK	1	49	23.11	23.17	23.17	23.04		
20	QPSK	1	99	22.82	23.11	22.97	22.95		
20	QPSK	50	0	22.12	22.31	22.19	22.24		
20	QPSK	50	24	22.02	22.14	22.11	22.05	23	1
20	QPSK	50	50	22.07	22.10	22.06	21.98		
20	QPSK	100	0	22.21	22.31	22.13	22.21		
20	16QAM	1	0	22.47	22.53	22.47	22.53		
20	16QAM	1	49	22.36	22.47	22.45	22.42	23	1
20	16QAM	1	99	22.38	22.55	22.39	22.46		
20	16QAM	50	0	21.12	21.15	21.17	21.13		
20	16QAM	50	24	21.03	21.22	21.07	21.02		
20	16QAM	50	50	21.02	21.04	20.96	21.03	22	2
20	16QAM	100	0	21.13	21.08	21.09	21.10		
20	64QAM	1	0	21.33	21.51	21.30	21.44		
20	64QAM	1	49	21.30	21.39	21.28	21.41		
20	64QAM	1	99	21.21	21.33	21.26	21.31	21	3
20	64QAM	50	0	20.08	20.12	20.11	20.07		
20	64QAM	50	24	20.07	20.10	19.98	19.95		
20	64QAM	50	50	20.02	20.05	20.10	19.98		
20	64QAM	100	0	20.01	20.15	20.07	20.00	19	5
20	256QAM	1	0	18.34	18.33	18.35	18.38		
20	256QAM	1	49	18.26	18.25	18.22	18.22		
20	256QAM	1	99	18.25	18.26	18.29	18.29		
20	256QAM	50	0	18.09	18.20	18.09	18.05	19	5
20	256QAM	50	24	18.01	18.00	18.03	17.85		
20	256QAM	50	50	17.97	18.04	18.06	17.99		
20	256QAM	100	0	18.04	18.14	18.13	18.06		
Channel				55315	55620	56160	56660	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	23.20	23.25	23.25	23.05	24	0
15	QPSK	1	37	22.99	23.07	23.15	22.93		
15	QPSK	1	74	22.84	23.05	22.96	22.93		
15	QPSK	36	0	22.09	22.30	22.18	22.14		
15	QPSK	36	20	21.94	22.12	22.00	21.97	23	1
15	QPSK	36	39	22.06	22.10	22.01	21.86		
15	QPSK	75	0	22.12	22.27	22.07	22.17		
15	16QAM	1	0	22.38	22.46	22.35	22.47		
15	16QAM	1	37	22.29	22.40	22.39	22.42	23	1
15	16QAM	1	74	22.37	22.47	22.30	22.45		
15	16QAM	36	0	21.02	21.06	21.12	21.02		
15	16QAM	36	20	20.93	21.17	21.05	20.98		
15	16QAM	36	39	20.95	20.99	20.87	20.98	22	2
15	16QAM	75	0	21.12	21.05	21.05	21.04		
15	64QAM	1	0	21.23	21.47	21.29	21.34		
15	64QAM	1	37	21.24	21.36	21.22	21.38		
15	64QAM	1	74	21.16	21.32	21.11	21.31	21	3
15	64QAM	36	0	20.00	20.07	20.07	20.01		
15	64QAM	36	20	19.99	20.02	19.95	19.90		
15	64QAM	36	39	19.93	19.99	20.07	19.89		
15	64QAM	75	0	19.96	20.11	19.97	19.94	19	5
15	256QAM	1	0	18.28	18.24	18.28	18.33		
15	256QAM	1	37	18.15	18.23	18.12	18.15		
15	256QAM	1	74	18.21	18.17	18.20	18.17		
15	256QAM	36	0	17.99	18.13	18.05	18.00	19	5
15	256QAM	36	20	17.95	17.91	17.98	17.84		
15	256QAM	36	39	17.90	17.94	17.95	17.93		
15	256QAM	75	0	17.99	18.04	18.01	17.97		
Channel				55290	55815	56165	56690	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3655	3697.5	3642.5	3695		
10	QPSK	1	0	23.22	23.23	23.27	23.07	24	0
10	QPSK	1	25	23.00	23.07	23.16	23.02		
10	QPSK	1	49	22.88	23.06	22.92	22.83		
10	QPSK	25	0	22.10	22.28	22.09	22.22		
10	QPSK	25	12	21.96	22.02	22.09	22.04	23	1
10	QPSK	25	25	21.99	22.00	22.03	21.93		
10	QPSK	50	0	22.18	22.28	22.12	22.10		
10	16QAM	1	0	22.47	22.49	22.45	22.46		
10	16QAM	1	25	22.25	22.42	22.40	22.33	23	1
10	16QAM	1	49	22.33	22.52	22.34	22.40		
10	16QAM	25	0	21.08	21.09	21.12	21.09		
10	16QAM	25	12	20.97	21.13	21.04	21.02		
10	16QAM	25	25	21.00	20.99	20.86	20.95	22	2
10	16QAM	50	0	21.06	20.97	21.06	21.02		
10	64QAM	1	0	21.30	21.42	21.28	21.38		
10	64QAM	1	25	21.24	21.30	21.21	21.30		
10	64QAM	1	49	21.19	21.21	21.16	21.30	21	3
10	64QAM	25	0	20.05	20.05	19.99	19.96		
10	64QAM	25	12	20.07	19.98	19.96	19.89		
10	64QAM	25	25	19.93	19.98	20.09	19.93		
10	64QAM	50	0	19.99	20.09	20.07	19.97	19	5
10	256QAM	1	0	18.24	18.30	18.28	18.29		
10	256QAM	1	25	18.20	18.16	18.18	18.11		
10	256QAM	1	49	18.14	18.25	18.17	18.24		
10	256QAM	25	0	17.86	18.17	18.04	17.97	19	5
10	256QAM	25	12	17.88	17.96	17.99	17.83		
10	256QAM	25	25	17.89	18.04	17.97	17.92		
10	256QAM	50	0	18.00	18.07	18.08	18.00		
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	23.20	23.31	23.19	23.05	24	0
5	QPSK	1	12	23.09	23.13	23.07	22.99		
5	QPSK	1	24	22.85	23.07	22.93	22.87		
5	QPSK	12	0	22.05	22.30	22.18	22.13		
5	QPSK	12	7	21.98	22.06	22.04	21.94	23	1
5	QPSK	12	13	21.98	22.06	22.03	21.86		
5	QPSK	25	0	22.21	22.22	22.12	22.19		
5	16QAM	1	0	22.44	22.45	22.38	22.42		
5	16QAM	1	12	22.30	22.39	22.45	22.33	23	1
5	16QAM	1	24	22.33	22.53	22.32	22.36		
5	16QAM	12	0	21.09	21.10	21.13	21.07		
5	16QAM	12	7	20.96	21.10	20.99	20.99		
5	16QAM	12	13	20.99	21.03	20.86	20.92	22	2
5	16QAM	25	0	21.05	21.07	21.06	21.01		
5	64QAM	1	0	21.31	21.40	21.19	21.38		
5	64QAM	1	12	21.26	21.31	21.24	21.32		
5	64QAM	1	24	21.16	21.26	21.12	21.23	21	3
5	64QAM	12	0	20.05	20.03	20.06	20.05		
5	64QAM	12	7	20.00	20.00	19.89	19.93		
5	64QAM	12	13	19.96	19.96	19.98	19.89		
5	256QAM	25	0	19.91	20.13	20.04	19.98	19	5
5	256QAM	1	0	18.32	18.25	18.27	18.28		
5	256QAM	1	12	18.23	18.21	18.20	18.21		
5	256QAM	1	24	18.15	18.23	18.21	18.21		
5	256QAM	12	0	18.03	18.09	18.00	17.99	19	5
5	256QAM	12	7	17.94	17.89	18.01	17.80		
5	256QAM	12	13	17.96	17.94	17.97	17.89		
5	256QAM	25	0	18.04	18.05	18.05	18.00		

Band 42 FCC Part27Q Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	21.94	21.96	21.88	23	0	
20	QPSK	1	49	21.87	21.81	21.72			
20	QPSK	1	99	21.78	21.74	21.76			
20	QPSK	50	0	20.90	20.93	20.91	22	1	
20	QPSK	50	24	20.73	20.83	20.71			
20	QPSK	50	50	20.78	20.71	20.63			
20	QPSK	100	0	20.92	20.94	20.86	22	1	
20	16QAM	1	0	21.17	21.21	21.07			
20	16QAM	1	49	21.19	21.12	20.99			
20	16QAM	1	99	21.17	21.18	20.99	21	2	
20	16QAM	50	0	19.80	19.80	19.64			
20	16QAM	50	24	19.83	19.85	19.67			
20	16QAM	50	50	19.65	19.73	19.61	21	2	
20	16QAM	100	0	19.79	19.74	19.65			
20	64QAM	1	0	20.04	20.05	19.99			
20	64QAM	1	49	19.98	20.05	19.96	21	2	
20	64QAM	1	99	19.97	19.92	20.03			
20	64QAM	50	0	18.89	18.76	18.66			
20	64QAM	50	24	18.74	18.66	18.56	20	3	
20	64QAM	50	50	18.74	18.63	18.64			
20	64QAM	100	0	18.70	18.76	18.62			
20	256QAM	1	0	17.04	16.95	17.00	18	5	
20	256QAM	1	49	16.99	16.90	16.79			
20	256QAM	1	99	16.96	16.84	16.95			
20	256QAM	50	0	16.82	16.83	16.64	18	5	
20	256QAM	50	24	16.76	16.71	16.48			
20	256QAM	50	50	16.69	16.74	16.53			
20	256QAM	100	0	16.88	16.71	16.62			
Channel				42165	42590	43015			
Frequency (MHz)				3457.5	3500	3542.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	21.88	21.85	21.85	23	0	
15	QPSK	1	37	21.76	21.74	21.70			
15	QPSK	1	74	21.66	21.65	21.70			
15	QPSK	36	0	20.82	20.97	20.88	22	1	
15	QPSK	36	20	20.69	20.80	20.62			
15	QPSK	36	39	20.73	20.66	20.53			
15	QPSK	75	0	20.89	20.78	20.80	22	1	
15	16QAM	1	0	21.08	21.16	20.99			
15	16QAM	1	37	21.14	21.12	20.93			
15	16QAM	1	74	21.05	21.15	20.91	21	2	
15	16QAM	36	0	19.78	19.75	19.56			
15	16QAM	36	20	19.80	19.83	19.64			
15	16QAM	36	39	19.64	19.62	19.52	21	2	
15	16QAM	75	0	19.69	19.70	19.59			
15	64QAM	1	0	19.88	19.87	19.94			
15	64QAM	1	37	19.92	20.00	19.94	21	2	
15	64QAM	1	74	19.92	19.83	19.94			
15	64QAM	36	0	18.83	18.75	18.54			
15	64QAM	36	20	18.72	18.56	18.54	20	3	
15	64QAM	36	39	18.63	18.61	18.52			
15	64QAM	75	0	18.62	18.74	18.54			
15	256QAM	1	0	16.93	16.95	16.98	18	5	
15	256QAM	1	37	16.91	16.88	16.79			
15	256QAM	1	74	16.94	16.83	16.90			
15	256QAM	36	0	16.79	16.78	16.63	18	5	
15	256QAM	36	20	16.71	16.70	16.45			
15	256QAM	36	39	16.58	16.66	16.45			
15	256QAM	75	0	16.79	16.69	16.55			
Channel				42140	42590	43040			
Frequency (MHz)				3453	3500	3545	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	21.89	21.89	21.81	23	0	
10	QPSK	1	25	21.86	21.79	21.71			
10	QPSK	1	49	21.66	21.69	21.68			
10	QPSK	25	0	20.84	20.96	20.79	22	1	
10	QPSK	25	12	20.71	20.78	20.62			
10	QPSK	25	25	20.69	20.60	20.55			
10	QPSK	50	0	20.83	20.72	20.74	22	1	
10	16QAM	1	0	21.06	21.09	20.96			
10	16QAM	1	25	21.10	21.02	20.92			
10	16QAM	1	49	21.13	21.08	20.98	21	2	
10	16QAM	25	0	19.73	19.74	19.58			
10	16QAM	25	12	19.71	19.76	19.60			
10	16QAM	25	25	19.62	19.63	19.49	21	2	
10	16QAM	50	0	19.79	19.67	19.60			
10	64QAM	1	0	19.96	19.97	19.96			
10	64QAM	1	25	19.88	20.05	19.94	21	2	
10	64QAM	1	49	19.89	19.89	20.00			
10	64QAM	25	0	18.81	18.65	18.59			
10	64QAM	25	12	18.70	18.60	18.55	20	3	
10	64QAM	25	25	18.66	18.56	18.61			
10	64QAM	50	0	18.60	18.72	18.57			
10	256QAM	1	0	16.92	16.90	16.97	18	5	
10	256QAM	1	25	16.87	16.82	16.71			
10	256QAM	1	49	16.92	16.79	16.83			
10	256QAM	25	0	16.72	16.80	16.53	18	5	
10	256QAM	25	12	16.72	16.69	16.48			
10	256QAM	25	25	16.61	16.71	16.48			
10	256QAM	50	0	16.77	16.61	16.59			
Channel				42115	42590	43065			
Frequency (MHz)				3452.5	3500	3547.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	21.87	21.86	21.79	23	0	
5	QPSK	1	12	21.83	21.80	21.85			
5	QPSK	1	24	21.60	21.63	21.67			
5	QPSK	12	0	20.81	20.87	20.82	22	1	
5	QPSK	12	7	20.69	20.73	20.69			
5	QPSK	12	13	20.68	20.63	20.54			
5	QPSK	25	0	20.91	20.77	20.79	22	1	
5	16QAM	1	0	21.14	21.13	20.99			
5	16QAM	1	12	21.11	21.12	20.89			
5	16QAM	1	24	21.09	21.15	20.95	22	1	
5	16QAM	12	0	19.75	19.76	19.64			
5	16QAM	12	7	19.72	19.82	19.62			
5	16QAM	12	13	19.54	19.62	19.56	21	2	
5	16QAM	25	0	19.68	19.63	19.58			
5	64QAM	1	0	19.93	19.97	19.93			
5	64QAM	1	12	19.94	19.96	19.84	21	2	
5	64QAM	1	24	19.85	19.83	19.95			
5	64QAM	12	0	18.89	18.73	18.65			
5	64QAM	12	7	18.68	18.66	18.48	20	3	
5	64QAM	12	13	18.62	18.56	18.55			
5	64QAM	25	0	18.68	18.66	18.58			
5	256QAM	1	0	16.96	16.94	16.92	18	5	
5	256QAM	1	12	16.89	16.82	16.69			
5	256QAM	1	24	16.90	16.77	16.90			
5	256QAM	12	0	16.71	16.76	16.55	18	5	
5	256QAM	12	7	16.75	16.66	16.39			
5	256QAM	12	13	16.66	16.64	16.50			
5	256QAM	25	0	16.80	16.70	16.52			
Channel				42115	42590	43065			
Frequency (MHz)				3452.5	3500	3547.5	Tune-up limit (dBm)	MPR (dB)	

Band 48_FCC Ant 6											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low-Middle Ch. / Freq.	Power High-Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				55340	55830	56150	56640				
Frequency (MHz)				3560	3609	3641	3690				
20	QPSK	1	0	21.56	21.70	21.72	21.64	23	0		
20	QPSK	1	49	21.43	21.65	21.64	21.56				
20	QPSK	1	99	21.49	21.59	21.64	21.45				
20	QPSK	50	0	20.69	20.82	20.84	20.68				
20	QPSK	50	24	20.49	20.80	20.72	20.61	22	1		
20	QPSK	50	50	20.47	20.53	20.59	20.54				
20	QPSK	100	0	20.67	20.69	20.72	20.69				
20	16QAM	1	0	20.90	21.02	21.07	20.95				
20	16QAM	1	49	20.94	20.99	21.00	20.95	22	1		
20	16QAM	1	99	20.82	20.96	21.04	20.86				
20	16QAM	50	0	19.63	19.68	19.67	19.57				
20	16QAM	50	24	19.54	19.68	19.66	19.51				
20	16QAM	50	50	19.47	19.52	19.55	19.60	21	2		
20	16QAM	100	0	19.58	19.55	19.61	19.52				
20	64QAM	1	0	19.88	19.96	19.98	19.90				
20	64QAM	1	49	19.80	19.86	19.91	19.85				
20	64QAM	1	99	19.71	19.82	19.82	19.86	20	3		
20	64QAM	50	0	18.63	18.63	18.69	18.49				
20	64QAM	50	24	18.46	18.51	18.56	18.46				
20	64QAM	50	50	18.54	18.54	18.46	18.43				
20	64QAM	100	0	18.50	18.57	18.59	18.47	18	5		
20	256QAM	1	0	16.76	16.82	16.79	16.86				
20	256QAM	1	49	16.79	16.83	16.81	16.69				
20	256QAM	1	99	16.74	16.74	16.80	16.86				
20	256QAM	50	0	16.51	16.59	16.60	16.48	18	5		
20	256QAM	50	24	16.47	16.50	16.57	16.39				
20	256QAM	50	50	16.54	16.52	16.58	16.48				
20	256QAM	100	0	16.55	16.53	16.63	16.51				
Channel				55315	55920	56160	56665	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3557.5	3608	3642	3692.5				
15	QPSK	1	0	21.53	21.69	21.62	21.55	23	0		
15	QPSK	1	37	21.37	21.54	21.53	21.49				
15	QPSK	1	74	21.48	21.54	21.64	21.38				
15	QPSK	38	0	20.63	20.80	20.78	20.58				
15	QPSK	38	20	20.38	20.50	20.64	20.50	22	1		
15	QPSK	38	39	20.36	20.52	20.54	20.54				
15	QPSK	75	0	20.67	20.67	20.67	20.60				
15	16QAM	1	0	20.83	20.93	20.98	20.94				
15	16QAM	1	37	20.83	20.96	20.91	20.73	22	1		
15	16QAM	1	74	20.82	20.94	21.02	20.75				
15	16QAM	38	0	19.52	19.60	19.58	19.55				
15	16QAM	38	20	19.42	19.62	19.61	19.48				
15	16QAM	38	39	19.37	19.44	19.55	19.49	21	2		
15	16QAM	75	0	19.57	19.52	19.55	19.42				
15	64QAM	1	0	19.80	19.87	19.91	19.82				
15	64QAM	1	37	19.78	19.79	19.90	19.82				
15	64QAM	1	74	19.67	19.81	19.77	19.83	20	3		
15	64QAM	38	0	18.57	18.62	18.63	18.47				
15	64QAM	38	20	18.42	18.50	18.46	18.40				
15	64QAM	38	39	18.50	18.52	18.42	18.39				
15	64QAM	75	0	18.46	18.49	18.57	18.41	18	5		
15	256QAM	1	0	16.67	16.81	16.67	16.81				
15	256QAM	1	37	16.76	16.72	16.73	16.61				
15	256QAM	1	74	16.63	16.73	16.79	16.77				
15	256QAM	38	0	16.41	16.57	16.50	16.42	18	5		
15	256QAM	38	20	16.44	16.47	16.49	16.37				
15	256QAM	38	39	16.50	16.40	16.47	16.36				
15	256QAM	75	0	16.52	16.49	16.52	16.49				
Channel				55290	55815	56165	56690	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3555	3607.5	3642.5	3695				
10	QPSK	1	0	21.56	21.69	21.69	21.53	23	0		
10	QPSK	1	25	21.42	21.58	21.58	21.54				
10	QPSK	1	49	21.40	21.58	21.60	21.37				
10	QPSK	25	0	20.59	20.73	20.82	20.58				
10	QPSK	25	12	20.48	20.52	20.70	20.56	22	1		
10	QPSK	25	25	20.42	20.46	20.63	20.47				
10	QPSK	50	0	20.57	20.63	20.60	20.61				
10	16QAM	1	0	20.86	21.00	21.03	20.93				
10	16QAM	1	25	20.88	20.92	20.98	20.78	22	1		
10	16QAM	1	49	20.74	20.94	21.00	20.81				
10	16QAM	25	0	19.63	19.62	19.67	19.57				
10	16QAM	25	12	19.47	19.58	19.65	19.41				
10	16QAM	25	25	19.39	19.47	19.55	19.55	21	2		
10	16QAM	50	0	19.57	19.51	19.55	19.43				
10	64QAM	1	0	19.84	19.87	19.89	19.79				
10	64QAM	1	25	19.78	19.91	19.87	19.77				
10	64QAM	1	49	19.70	19.79	19.76	19.82	20	3		
10	64QAM	25	0	18.52	18.58	18.67	18.43				
10	64QAM	25	12	18.45	18.46	18.48	18.42				
10	64QAM	25	25	18.51	18.51	18.45	18.34				
10	64QAM	50	0	18.48	18.52	18.57	18.37	18	5		
10	256QAM	1	0	16.68	16.79	16.75	16.77				
10	256QAM	1	25	16.76	16.75	16.72	16.61				
10	256QAM	1	49	16.68	16.67	16.78	16.75				
10	256QAM	25	0	16.44	16.53	16.54	16.38	18	5		
10	256QAM	25	12	16.38	16.40	16.48	16.28				
10	256QAM	25	25	16.50	16.47	16.50	16.43				
10	256QAM	50	0	16.45	16.44	16.56	16.48				
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3552.5	3609	3643	3697.5				
5	QPSK	1	0	21.49	21.63	21.71	21.53	23	0		
5	QPSK	1	12	21.33	21.58	21.61	21.51				
5	QPSK	1	24	21.45	21.55	21.60	21.41				
5	QPSK	12	0	20.67	20.73	20.75	20.63				
5	QPSK	12	7	20.43	20.57	20.67	20.58	22	1		
5	QPSK	12	13	20.45	20.50	20.56	20.53				
5	QPSK	25	0	20.64	20.62	20.69	20.61				
5	16QAM	1	0	20.83	20.96	21.00	20.90				
5	16QAM	1	12	20.92	20.90	20.99	20.80	22	1		
5	16QAM	1	24	20.76	20.89	20.93	20.84				
5	16QAM	12	0	19.55	19.66	19.60	19.53				
5	16QAM	12	7	19.50	19.59	19.56	19.44				
5	16QAM	12	13	19.37	19.51	19.51	19.54	21	2		
5	16QAM	25	0	19.52	19.53	19.58	19.49				
5	64QAM	1	0	19.77	19.84	19.88	19.90				
5	64QAM	1	12	19.68	19.78	19.88	19.82				
5	64QAM	1	24	19.60	19.77	19.81	19.77	20	3		
5	64QAM	12	0	18.59	18.54	18.61	18.42				
5	64QAM	12	7	18.42	18.51	18.48	18.44				
5	64QAM	12	13	18.49	18.51	18.37	18.40				
5	256QAM	1	0	16.44	16.51	16.51	16.45	18	5		
5	256QAM	1	0	16.64	16.82	16.72	16.85				
5	256QAM	1	12	16.77	16.80	16.70	16.64				
5	256QAM	1	24	16.65	16.73	16.71	16.83				
5	256QAM	12	0	16.42	16.58	16.49	16.40	18	5		
5	256QAM	12	7	16.39	16.48	16.53	16.77				
5	256QAM	12	13	16.51	16.45	16.53	16.40				
5	256QAM	25	0	16.48	16.43	16.57	16.50				

Band 42 FCC Part27Q Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3455	3500	3545			
20	QPSK	1	0	20.66	20.67	20.50			
20	QPSK	1	49	20.44	20.53	20.36	21.5	0	
20	QPSK	1	99	20.37	20.41	20.31			
20	QPSK	50	0	19.64	19.65	19.61			
20	QPSK	50	24	19.50	19.50	19.47	20.5	1	
20	QPSK	50	50	19.41	19.41	19.34			
20	QPSK	100	0	19.65	19.68	19.54			
20	16QAM	1	0	19.88	19.95	19.86	20.5	1	
20	16QAM	1	49	19.64	19.65	19.79			
20	16QAM	1	99	19.90	19.88	19.75			
20	16QAM	50	0	18.58	18.52	18.41	19.5	2	
20	16QAM	50	24	18.47	18.57	18.33			
20	16QAM	50	50	18.41	18.47	18.41			
20	16QAM	100	0	18.48	18.41	18.38	19.5	2	
20	64QAM	1	0	18.75	18.76	18.61			
20	64QAM	1	49	18.69	18.74	18.68			
20	64QAM	1	99	18.71	18.72	18.74	18.5	3	
20	64QAM	50	0	17.47	17.54	17.36			
20	64QAM	50	24	17.41	17.41	17.29			
20	64QAM	50	50	17.37	17.44	17.29	16.5	5	
20	64QAM	100	0	17.45	17.44	17.31			
20	256QAM	1	0	15.72	15.67	15.64			
20	256QAM	1	49	15.62	15.68	15.50	16.5	5	
20	256QAM	1	99	15.56	15.65	15.62			
15	256QAM	50	0	15.52	15.40	15.39			
20	256QAM	50	24	15.35	15.38	15.23	16.5	5	
20	256QAM	50	50	15.39	15.39	15.29			
20	256QAM	100	0	15.49	15.45	15.43			
Channel				43165	43590	43915	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	20.59	20.60	20.47			
15	QPSK	1	37	20.33	20.45	20.36	21.5	0	
15	QPSK	1	74	20.27	20.36	20.27			
15	QPSK	36	0	19.63	19.57	19.59			
15	QPSK	36	20	19.39	19.50	19.45	20.5	1	
15	QPSK	36	39	19.32	19.32	19.24			
15	QPSK	75	0	19.62	19.53	19.52			
15	16QAM	1	0	19.78	19.83	19.81	20.5	1	
15	16QAM	1	37	19.76	19.84	19.74			
15	16QAM	1	74	19.83	19.86	19.85			
15	16QAM	36	0	18.49	18.46	18.41	19.5	2	
15	16QAM	36	20	18.36	18.56	18.24			
15	16QAM	36	39	18.39	18.46	18.37			
15	16QAM	75	0	18.39	18.41	18.27	19.5	2	
15	64QAM	1	0	18.70	18.70	18.60			
15	64QAM	1	37	18.59	18.69	18.67			
15	64QAM	1	74	18.61	18.64	18.68	18.5	3	
15	64QAM	36	0	17.37	17.44	17.36			
15	64QAM	36	20	17.39	17.32	17.19			
15	64QAM	36	39	17.32	17.32	17.19	16.5	5	
15	64QAM	75	0	17.44	17.42	17.20			
15	256QAM	1	0	15.64	15.55	15.53			
15	256QAM	1	37	15.51	15.60	15.40	16.5	5	
15	256QAM	1	74	15.53	15.64	15.62			
15	256QAM	36	0	15.45	15.43	15.31			
15	256QAM	36	20	15.25	15.37	15.12	16.5	5	
15	256QAM	36	39	15.28	15.33	15.26			
15	256QAM	75	0	15.43	15.43	15.42			
Channel				42140	42590	43040	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	20.60	20.57	20.49			
10	QPSK	1	25	20.38	20.46	20.26	21.5	0	
10	QPSK	1	49	20.36	20.40	20.26			
10	QPSK	25	0	19.60	19.60	19.60			
10	QPSK	25	12	19.38	19.40	19.46	20.5	1	
10	QPSK	25	25	19.35	19.31	19.23			
10	QPSK	50	0	19.63	19.61	19.50			
10	16QAM	1	0	19.76	19.89	19.85	20.5	1	
10	16QAM	1	25	19.84	19.80	19.68			
10	16QAM	1	49	19.87	19.84	19.65			
10	16QAM	25	0	18.47	18.45	18.41	19.5	2	
10	16QAM	25	12	18.39	18.46	18.25			
10	16QAM	25	25	18.33	18.40	18.41			
10	16QAM	50	0	18.46	18.33	18.35	19.5	2	
10	64QAM	1	0	18.68	18.67	18.79			
10	64QAM	1	25	18.62	18.72	18.65			
10	64QAM	1	49	18.70	18.67	18.70	18.5	3	
10	64QAM	25	0	17.45	17.53	17.35			
10	64QAM	25	12	17.39	17.34	17.21			
10	64QAM	25	25	17.33	17.34	17.20	16.5	5	
10	64QAM	50	0	17.38	17.36	17.30			
10	256QAM	1	0	15.61	15.57	15.61			
10	256QAM	1	25	15.59	15.59	15.46	16.5	5	
10	256QAM	1	49	15.47	15.62	15.56			
10	256QAM	25	0	15.44	15.44	15.33			
10	256QAM	25	12	15.32	15.28	15.21	16.5	5	
10	256QAM	25	25	15.31	15.31	15.20			
10	256QAM	50	0	15.47	15.36	15.36			
Channel				42115	42590	43065	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	20.65	20.57	20.40			
5	QPSK	1	12	20.35	20.46	20.34	21.5	0	
5	QPSK	1	24	20.35	20.40	20.24			
5	QPSK	12	0	19.60	19.58	19.53			
5	QPSK	12	7	19.44	19.49	19.45	20.5	1	
5	QPSK	12	15	19.37	19.34	19.53			
5	QPSK	25	0	19.63	19.60	19.44			
5	16QAM	1	0	19.81	19.95	19.82	20.5	1	
5	16QAM	1	12	19.84	19.81	19.79			
5	16QAM	1	24	19.78	19.87	19.65			
5	16QAM	12	0	18.51	18.43	18.34	19.5	2	
5	16QAM	12	7	18.44	18.57	18.30			
5	16QAM	12	13	18.38	18.42	18.30			
5	16QAM	25	0	18.44	18.39	18.26	19.5	2	
5	64QAM	1	0	18.73	18.75	18.60			
5	64QAM	1	12	18.64	18.72	18.62			
5	64QAM	1	24	18.67	18.64	18.62	18.5	3	
5	64QAM	12	0	17.43	17.44	17.31			
5	64QAM	12	7	17.39	17.37	17.21			
5	64QAM	12	13	17.29	17.36	17.22	16.5	5	
5	64QAM	25	0	17.36	17.36	17.28			
5	256QAM	1	0	15.68	15.59	15.64			
5	256QAM	1	12	15.55	15.61	15.39	16.5	5	
5	256QAM	1	24	15.62	15.62	15.62			
5	256QAM	12	0	15.44	15.46	15.27			
5	256QAM	12	7	15.28	15.38	15.23	16.5	5	
5	256QAM	12	13	15.32	15.33	15.26			
5	256QAM	25	0	15.40	15.42	15.38			

Band 48_FCC Ant 7												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel												
Frequency (MHz)				55340	55830	56150	56640					
20	QPSK	1	0	20.82	20.72	20.76	20.65	22	0			
20	QPSK	1	49	20.65	20.49	20.58	20.50					
20	QPSK	1	99	20.61	20.45	20.49	20.44					
20	QPSK	50	0	19.83	19.72	19.61	19.78					
20	QPSK	50	24	19.67	19.55	19.55	19.60	21	1			
20	QPSK	50	50	19.56	19.53	19.53	19.58					
20	QPSK	100	0	19.76	19.66	19.72	19.69					
20	16QAM	1	0	20.11	20.03	19.92	19.96					
20	16QAM	1	49	20.02	19.84	19.96	19.94	21	1			
20	16QAM	1	99	20.09	19.87	19.81	19.89					
20	16QAM	50	0	18.64	18.53	18.63	18.61					
20	16QAM	50	24	18.66	18.55	18.56	18.51					
20	16QAM	50	50	18.51	18.58	18.51	18.53	20	2			
20	16QAM	100	0	18.54	18.53	18.63	18.58					
20	64QAM	1	0	19.00	18.90	18.82	18.93					
20	64QAM	1	49	18.94	18.83	18.72	18.82					
20	64QAM	1	99	18.82	18.84	18.75	18.82	20	2			
20	64QAM	50	0	17.69	17.57	17.58	17.61					
20	64QAM	50	24	17.63	17.49	17.49	17.43					
20	64QAM	50	50	17.49	17.49	17.61	17.45					
20	64QAM	100	0	17.57	17.49	17.55	17.49	19	3			
20	256QAM	1	0	15.89	15.83	15.77	15.85					
20	256QAM	1	49	15.83	15.66	15.69	15.63					
20	256QAM	1	99	15.74	15.85	15.72	15.78					
20	256QAM	50	0	15.69	15.49	15.57	15.52	17	5			
20	256QAM	50	24	15.57	15.36	15.44	15.38					
20	256QAM	50	50	15.53	15.43	15.51	15.51					
20	256QAM	100	0	15.54	15.56	15.61	15.55					
Channel				55315	55820	56160	56605					
Frequency (MHz)				3552.5	3508	3542	3592.5					
15	QPSK	1	0	20.76	20.66	20.70	20.61	22	0			
15	QPSK	1	37	20.61	20.46	20.55	20.44					
15	QPSK	1	74	20.60	20.36	20.37	20.44					
15	QPSK	36	0	19.78	19.72	19.54	19.73					
15	QPSK	36	20	19.65	19.47	19.46	19.60	21	1			
15	QPSK	36	39	19.56	19.42	19.47	19.36					
15	QPSK	75	0	19.74	19.60	19.62	19.60					
15	16QAM	1	0	20.06	19.96	19.87	19.92					
15	16QAM	1	37	19.99	19.76	19.95	19.80	21	1			
15	16QAM	1	74	20.01	19.79	19.78	19.89					
15	16QAM	36	0	18.56	18.50	18.63	18.57					
15	16QAM	36	20	18.63	18.43	18.46	18.39					
15	16QAM	36	39	18.49	18.56	18.50	18.53	20	2			
15	16QAM	75	0	18.42	18.46	18.62	18.47					
15	64QAM	1	0	18.93	18.79	18.79	18.84					
15	64QAM	1	37	18.82	18.79	18.61	18.80					
15	64QAM	1	74	18.78	18.77	18.71	18.75	20	2			
15	64QAM	36	0	17.67	17.52	17.57	17.43					
15	64QAM	36	20	17.63	17.40	17.48	17.41					
15	64QAM	36	39	17.42	17.46	17.59	17.45					
15	64QAM	75	0	17.55	17.46	17.50	17.43	19	3			
15	256QAM	1	0	15.85	15.79	15.71	15.80					
15	256QAM	1	37	15.76	15.56	15.69	15.54					
15	256QAM	1	74	15.63	15.62	15.67	15.71					
15	256QAM	36	0	15.69	15.36	15.45	15.43	17	5			
15	256QAM	36	20	15.53	15.31	15.38	15.34					
15	256QAM	36	39	15.49	15.34	15.43	15.39					
15	256QAM	75	0	15.44	15.54	15.54	15.47					
Channel				55310	55915	56165	56690					
Frequency (MHz)				3555	3607.5	3642.5	3695					
10	QPSK	1	0	20.78	20.68	20.66	20.56	22	0			
10	QPSK	1	25	20.57	20.46	20.53	20.50					
10	QPSK	1	49	20.58	20.42	20.43	20.32					
10	QPSK	25	0	19.82	19.62	19.49	19.72					
10	QPSK	25	12	19.56	19.43	19.43	19.55	21	1			
10	QPSK	25	25	19.45	19.46	19.49	19.45					
10	QPSK	50	0	19.70	19.57	19.67	19.67					
10	16QAM	1	0	20.07	19.92	19.86	19.86					
10	16QAM	1	25	19.94	19.74	19.92	19.78	21	1			
10	16QAM	1	49	20.04	19.87	19.71	19.62					
10	16QAM	25	0	18.54	18.53	18.60	18.60					
10	16QAM	25	12	18.64	18.44	18.56	18.41					
10	16QAM	25	25	18.48	18.57	18.42	18.43	20	2			
10	16QAM	50	0	18.44	18.41	18.61	18.46					
10	64QAM	1	0	19.99	18.79	18.75	18.83					
10	64QAM	1	25	18.82	18.81	18.65	18.76					
10	64QAM	1	49	18.81	18.74	18.73	18.72	19	3			
10	64QAM	25	0	17.66	17.47	17.49	17.41					
10	64QAM	25	12	17.53	17.39	17.39	17.42					
10	64QAM	25	25	17.46	17.47	17.61	17.34					
10	64QAM	50	0	17.55	17.45	17.55	17.44	17	5			
10	256QAM	1	0	15.85	15.80	15.66	15.83					
10	256QAM	1	25	15.61	15.60	15.59	15.63					
10	256QAM	1	49	15.68	15.90	15.70	15.78					
10	256QAM	25	0	15.58	15.46	15.54	15.42	17	5			
10	256QAM	25	12	15.51	15.33	15.36	15.27					
10	256QAM	25	25	15.47	15.36	15.41	15.45					
10	256QAM	50	0	15.49	15.48	15.60	15.47					
Channel				56265	56810	56170	56715					
Frequency (MHz)				3552.5	3607	3543	3597.5					
5	QPSK	1	0	20.79	20.69	20.73	20.55	22	0			
5	QPSK	1	12	20.60	20.44	20.44	20.57					
5	QPSK	1	24	20.58	20.40	20.43	20.32					
5	QPSK	12	0	19.81	19.63	19.57	19.71					
5	QPSK	12	7	19.55	19.54	19.44	19.54	21	1			
5	QPSK	12	13	19.51	19.51	19.42	19.46					
5	QPSK	25	0	19.75	19.61	19.72	19.63					
5	16QAM	1	0	20.07	19.97	19.85	19.90					
5	16QAM	1	12	19.98	19.77	19.67	19.80	21	1			
5	16QAM	1	24	20.07	19.84	19.75	19.88					
5	16QAM	12	0	18.64	18.42	18.54	18.57					
5	16QAM	12	7	18.61	18.50	18.52	18.47					
5	16QAM	12	13	18.43	18.53	18.39	18.47	20	2			
5	16QAM	25	0	18.45	18.43	18.53	18.53					
5	64QAM	1	0	18.90	18.82	18.78	18.87					
5	64QAM	1	12	18.91	18.73	18.65	18.78					
5	64QAM	1	24	18.75	18.72	18.72	18.81	19	3			
5	64QAM	12	0	17.59	17.46	17.58	17.40					
5	64QAM	12	7	17.52	17.43	17.46	17.33					
5	64QAM	12	13	17.48	17.42	17.59	17.37					
5	256QAM	25	0	17.49	17.47	17.46	17.37	17	5			
5	256QAM	1	0	15.79	15.75	15.74	15.78					
5	256QAM	1	12	15.82	15.59	15.58	15.59					
5	256QAM	1	24	15.68	15.74	15.62	15.76					
5	256QAM	12	0	15.68	15.37	15.46	15.44					
5	256QAM	12	7	15.57	15.31	15.31	15.26					
5	256QAM	12	13	15.43	15.33	15.51	15.41	17	5			
5	256QAM	25	0	15.43	15.55	15.55	15.51					



Band 38 Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency [MHz]				37850	38050	38150			
20	QPSK	1	0	22.75	22.75	22.75			
20	QPSK	1	49	22.61	22.66	22.54	24	0	
20	QPSK	1	98	22.45	22.61	22.47			
20	QPSK	50	0	21.71	21.76	21.77			
20	QPSK	50	24	21.54	21.71	21.54	23	1	
20	QPSK	50	49	21.38	21.61	21.59			
20	QPSK	100	0	21.76	21.85	21.85			
20	16QAM	1	0	21.94	22.06	22.05	23	1	
20	16QAM	1	49	21.84	21.99	21.96			
20	16QAM	1	99	21.90	22.02	21.97			
20	16QAM	50	0	20.63	20.76	20.67			
20	16QAM	50	24	20.57	20.68	20.59	22	2	
20	16QAM	50	50	20.47	20.58	20.50			
20	16QAM	100	0	20.58	20.67	20.53			
20	16QAM	100	0	19.56	19.64	19.67			
20	64QAM	1	49	20.76	20.54	20.95	22	2	
20	64QAM	1	99	20.72	20.69	20.88			
20	64QAM	50	0	19.51	19.57	19.51	21	3	
20	64QAM	50	50	19.57	19.57	19.45			
20	256QAM	1	0	17.75	17.84	17.75			
20	256QAM	1	49	17.77	17.86	17.74	19	5	
20	256QAM	1	99	17.76	17.87	17.69			
20	256QAM	50	0	17.57	17.62	17.52			
20	256QAM	50	24	17.50	17.57	17.37	19	5	
20	256QAM	50	50	17.54	17.59	17.36			
20	256QAM	100	0	17.63	17.60	17.52			
Channel									
Frequency [MHz]				37850	38050	38175	Tune-up limit (dBm)	MPR (dB)	
16	QPSK	1	0	22.72	22.69	22.62	24	0	
16	QPSK	1	37	22.59	22.61	22.43			
16	QPSK	22	24	22.36	22.56	22.45	23	1	
16	QPSK	36	0	21.61	21.69	21.70			
16	QPSK	36	20	21.43	21.69	21.45			
16	QPSK	36	39	21.57	21.67	21.48	23	1	
16	QPSK	75	0	21.62	21.77	21.65			
16	QPSK	1	0	21.94	22.05	21.94	23	1	
16	QPSK	1	37	21.91	21.90	21.81			
16	16QAM	1	74	21.89	21.98	21.84			
16	16QAM	1	0	20.56	20.71	20.46	22	2	
16	16QAM	36	20	20.53	20.56	20.30			
16	16QAM	36	39	20.57	20.52	20.40			
16	16QAM	75	0	20.57	20.56	20.30			
16	16QAM	1	1	20.50	20.55	20.30			
16	64QAM	1	37	20.59	20.54	20.51	22	2	
16	64QAM	1	74	20.54	20.54	20.51			
16	64QAM	36	0	19.54	19.55	19.51	21	3	
16	64QAM	36	20	19.54	19.54	19.41			
16	64QAM	75	0	19.54	19.57	19.44			
16	256QAM	1	0	17.69	17.62	17.63	19	5	
16	256QAM	1	74	17.72	17.76	17.77			
16	256QAM	36	0	17.55	17.51	17.52			
16	256QAM	36	39	17.49	17.52	17.33	19	5	
16	256QAM	75	0	17.55	17.53	17.50			
Channel									
Frequency [MHz]				2075	2085	2095	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	22.66	22.74	22.80	24	0	
10	QPSK	1	49	22.58	22.60	22.53			
10	QPSK	1	49	22.58	22.60	22.47			
10	QPSK	25	0	21.69	21.74	21.68	23	1	
10	QPSK	12	0	21.66	21.69	21.61			
10	QPSK	25	25	21.60	21.58	21.56			
10	QPSK	50	0	21.58	21.60	21.57			
10	16QAM	1	25	21.33	21.33	21.88	23	1	
10	16QAM	1	49	21.37	21.50	21.84			
10	16QAM	25	0	20.36	20.42	20.42	22	2	
10	16QAM	25	12	20.36	20.42	20.44			
10	16QAM	25	25	20.36	20.38	20.34			
10	16QAM	50	0	20.72	20.94	20.84			
10	16QAM	1	25	20.72	20.91	20.80			
10	16QAM	1	49	20.72	20.79	20.78	21	3	
10	16QAM	25	0	19.56	19.58	19.52			
10	16QAM	25	12	19.46	19.55	19.40			
10	16QAM	25	25	19.47	19.49	19.45			
10	64QAM	50	0	19.56	19.51	19.59			
10	256QAM	1	0	17.66	17.76	17.76	19	5	
10	256QAM	1	49	17.75	17.78	17.73			
10	256QAM	25	0	17.46	17.51	17.41			
10	256QAM	25	12	17.49	17.54	17.47	19	5	
10	256QAM	25	25	17.49	17.50	17.30			
10	256QAM	50	0	17.49	17.43	17.42			
Channel									
Frequency [MHz]				2172.5	2175	2177.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	22.54	22.73	22.63	24	0	
5	QPSK	1	12	22.60	22.60	22.53			
5	QPSK	1	24	22.34	22.60	22.38			
5	QPSK	12	0	21.66	21.69	21.71	23	1	
5	QPSK	12	7	21.52	21.66	21.52			
5	QPSK	12	13	21.58	21.61	21.55			
5	QPSK	25	0	21.67	21.74	21.69	23	1	
5	16QAM	1	0	21.82	21.97	22.01			
5	16QAM	1	12	21.86	21.98	21.93			
5	16QAM	1	24	21.85	22.01	21.83	22	2	
5	16QAM	12	0	20.60	20.76	20.54			
5	16QAM	12	7	20.46	20.67	20.50			
5	16QAM	12	13	20.45	20.48	20.47			
5	16QAM	25	0	20.55	20.58	20.46			
5	16QAM	1	0	20.76	20.95	20.79	22	2	
5	16QAM	1	12	20.67	20.82	20.87			
5	16QAM	12	0	19.56	19.63	19.43	21	3	
5	16QAM	12	7	19.45	19.50	19.43			
5	16QAM	12	13	19.49	19.54	19.45			
5	64QAM	25	0	19.57	19.47	19.41			
5	256QAM	1	0	17.67	17.74	17.65	19	5	
5	256QAM	1	12	17.76	17.77	17.69			
5	256QAM	1	24	17.75	17.76	17.61			
5	256QAM	12	0	17.56	17.62	17.51			
5	256QAM	12	7	17.48	17.58	17.47	19	5	
5	256QAM	12	13	17.51	17.53	17.37			
5	256QAM	25	0	17.52	17.55	17.51			

Band 41 Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency [MHz]				39750	40185	40620	41055	41490	
20	QPSK	1	0	23.34	23.29	23.31	23.24	23.14	
20	QPSK	1	49	23.19	23.14	23.05	23.13	22.96	24
20	QPSK	1	99	23.17	23.03	22.97	23.04	22.90	
20	QPSK	50	0	22.36	22.32	22.17	22.25	22.20	23
20	QPSK	50	24	22.26	22.09	22.01	22.14	22.07	
20	QPSK	50	50	22.13	22.05	22.01	22.08	21.98	
20	QPSK	100	0	22.15	22.21	22.15	22.25	22.13	23
20	16QAM	1	0	22.61	22.50	22.40	22.48	22.46	
20	16QAM	1	49	22.54	22.40	22.39	22.45	22.38	23
20	16QAM	1	99	22.63	22.46	22.35	22.48	22.38	
20	16QAM	50	0	21.25	21.13	21.13	21.20	21.02	
20	16QAM	50	24	21.23	21.13	21.06	21.10	21.01	
20	16QAM	50	50	21.14	21.08	20.99	21.07	21.03	
20	16QAM	100	0	21.12	21.13	21.01	21.08	21.05	
20	64QAM	1	49	21.47	21.42	21.21	21.40	21.31	22
20	64QAM	1	99	21.39	21.43	21.21	21.38	21.33	
20	64QAM	50	0	20.33	20.32	20.17	20.30	20.26	21
20	64QAM	50	24	20.12	20.03	19.97	20.08	19.99	
20	64QAM	50	50	20.13	20.02	19.97	20.08	19.99	
20	64QAM	100	0	19.74	19.62	19.67	19.69	19.58	
20	256QAM	1	0	18.33	18.26	18.21	18.27	18.20	19
20	256QAM	1	49	18.31	18.27	18.26	18.23	18.20	
20	256QAM	1	99	18.30	18.26	18.16	18.23	18.20	
20	256QAM	50	0	18.14	17.91	18.01	17.88	17.89	19
20	256QAM	50	24	18.10	17.80	17.87	17.84	17.81	
20	256QAM	50	50	18.10	17.80	17.87	17.84	17.81	
20	256QAM	100	0	18.14	18.11	18.09	18.13	18.04	
Channel									
Frequency [MHz]				39725	40173	40620	41055	41515	
15	QPSK	1	0	23.28	23.21	23.14	23.21	23.01	24
15	QPSK	1	37	23.03	23.09	23.01	23.01	22.88	
15	QPSK	1	74	23.12	22.97	22.95	23.02	22.81	
15	QPSK	36	0	22.29	22.21	22.07	22.20	22.17	23
15	QPSK	36	20	22.15	22.03	21.89	22.03	22.03	
15	QPSK	36	39	22.03	21.97	21.92	21.99	21.90	
15	QPSK	78	0	22.03	22.03	22.03	22.03	22.03	
15	16QAM	1	0	22.58	22.48	22.32	22.44	22.42	
15	16QAM	1	37	22.51	22.44	22.29	22.35	22.31	23
15	16QAM	1	74	22.58	22.42	22.29	22.40	22.37	
15	16QAM	36	0	21.23	21.09	20.99	21.16	21.06	
15	16QAM	36	20	21.13	21.08	20.93	21.06	20.99	22
15	16QAM	36	39	21.03	20.98	20.83	21.00	20.93	
15	16QAM	78	0	20.98	21.10	20.95	21.01	21.01	
15	64QAM	1	0	21.47	21.31	21.31	21.32	21.38	22
15	64QAM	1	37	21.37	21.37	21.16	21.37	21.38	
15	64QAM	1	74	21.36	21.40	21.17	21.17	21.20	
15	64QAM	36	0	20.20	20.34	19.99	20.20	20.21	
15	64QAM	36	20	20.10	20.10	19.95	20.10	20.06	
15	64QAM	36	39	20.11	19.94	19.94	19.87	19.76	
15	64QAM	78	0	20.02	19.88	19.87	20.01	19.81	
15	256QAM	1	0	18.11	18.11	18.11	18.26	18.25	
15	256QAM	1	37	18.24	18.24	18.11	18.22	18.07	19
15	256QAM	1	74	18.28	18.30	18.24	18.15	18.15	
15	256QAM	36	0	17.81	18.16	17.81	18.03	17.83	
15	256QAM	36	20	18.07	17.81	17.90	17.91	17.79	
15	256QAM	36	39	18.00	17.83	17.89	17.84	17.79	19
15	256QAM	78	0	18.01	17.86	17.86	18.00	17.80	
Channel									
Frequency [MHz]				39700	40165	40620	41050	41450	
15	QPSK	1	0	23.23	23.12	23.13	23.19	23.01	24
15	QPSK	1	25	23.10	23.10	22.99	23.11	22.93	
15	QPSK	1	49	23.07	22.94	22.85	22.98	22.87	24
15	QPSK	1	74	23.02	22.92	22.80	22.91	22.81	
15	QPSK	12	0	22.21	22.06	21.92	22.04	21.96	23
15	QPSK	25	0	22.04	22.01	21.91	21.99	21.93	
15	QPSK	25	12	22.01	22.01	21.91	21.99	21.93	
15	16QAM	1	0	22.53	22.40	22.37	22.41	22.36	
15	16QAM	1	25	22.49	22.38	22.33	22.39	22.34	23
15	16QAM	1	49	22.50	22.37	22.24	22.39	22.31	
15	16QAM	25	0	21.20	21.02	20.99	21.16	21.06	
15	16QAM	25	12	21.11	21.05	20.88	21.03	20.96	22
15	16QAM	25	25	21.07	21.07	20.88	21.03	20.96	
15	16QAM	50	0	21.04	21.08	20.98	21.05	21.01	
15	64QAM	1	0	21.43	21.31	21.28	21.36	21.41	22
15	64QAM	1	25	21.31	21.21	21.07	21.28	21.37	
15	64QAM	1	49	21.34	21.31	21.13	21.17	21.24	
15	64QAM	25	0	20.19	20.04	20.03	19.95	20.02	
15	64QAM	25	12	20.09	19.99	19.87	19.99	19.94	
15	64QAM	25	25	20.06	19.97	20.00	19.91	19.76	
15	64QAM	50	0	20.10	19.88	19.83	20.00	19.81	
15	256QAM	1	0	18.02	18.31	18.02	18.20	18.13	19
15	256QAM	1	25	18.20	18.22	18.08	18.19	18.11	
15	256QAM	1	49	18.18	18.24	18.20	18.13	18.22	
15	256QAM	25	0	18.01	18.01	17.90	17.99	17.93	19
15	256QAM	25	12	18.04	17.87	17.93	17.86	17.72	
15	256QAM	25	25	17.98	17.88	17.94	17.99	17.89	
15	256QAM	50	0	18.01	18.04	17.98	18.00	17.93	
Channel									
Frequency [MHz]				39675	40145	40620	41005	41405	
5	QPSK	1	0	23.32	23.29	23.33	23.14	23.11	24
5	QPSK	1	12	23.32	23.30	23.33	23.03	22.85	
5	QPSK	1	25	23.14	22.92	22.94	22.96	22.96	24
5	QPSK	1	37	23.07	22.82	22.80	22.91	22.84	
5	QPSK	12	7	22.17	22.06	21.89	22.07	22.00	23
5	QPSK	12	19	22.05	22.01	21.91	22.00	21.96	
5	QPSK	12	31	21.93	21.88	21.80	21.93	21.88	
5	16QAM	1	0	22.55	22.39	22.26	22.34	22.21	
5	16QAM	1	12	22.52	22.38	22.28	22.33	22.20	23
5	16QAM	1	25	22.53	22.37	22.26	22.30	22.19	
5	16QAM	12	7	21.17	21.07	21.10	21.17	21.07	
5	16QAM	12	19	21.13	21.07	20.85	21.07	20.93	
5	16QAM	12	31	21.03	20.95	20.85	21.00	20.89	22
5	16QAM	25	0	21.03	21.03	20.88	21.03	20.93	
5	16QAM	25	0	21.03	21.09	20.90	21.04	20.96	
5	64QAM	1	0	21.46	21.27	21.30	21.37	21.36	22
5	64QAM	1	12	21.45	21.27	21.27	21.29	21.30	
5	64QAM	1	24	21.29	21.34	21.09	21.13	21.30	
5	64QAM	12	0	20.20	19.98	20.05	20.02	19.96	
5	64QAM	12	19	20.09	19.91	19.99	19.91	19.79	21
5	64QAM	12	31	20.07	19.90	20.01	19.84	19.77	
5	64QAM	25	0	20.04	19.93	19.86	19.99	19.90	
5	256QAM	1	0	18.37	18.22	18.11	18.28	18.19	19
5	256QAM	1	12	18.23	18.14	18.08	18.18	18.17	
5	256QAM	1	24	18.22	18.31	18.25	18.12	18.17	
5	256QAM	12	0	17.98	17.86	17.91	17.83	17.82	19
5	256QAM	12	19	17.98	17.86	17.90	17.87	17.83	
5	256QAM	12	31	18.02	17.86	17.86	17.91	17.83	
5	256QAM	25	0	18.02	18.01	17.88	18.00	17.88	

Reduced Power Mode for ECI2

GSM850 Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8	824.2	836.4	848.8		
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8		
GSM 1 Tx slot	32.02	31.98	31.84	33.50	33.02	22.98	22.94	24.50
GPRS 1 Tx slot	32.01	32.02	31.91	33.50	23.01	23.02	22.91	24.50
GPRS 2 Tx slots	31.22	31.23	31.16	32.50	25.22	25.23	25.16	26.50
GPRS 3 Tx slots	29.41	29.42	29.33	30.50	25.15	25.16	25.07	26.24
GPRS 4 Tx slots	28.20	28.25	28.13	29.50	25.20	25.25	25.13	26.50
EDGE 1 Tx slot	26.38	26.43	26.45	27.50	17.38	17.43	17.45	18.50
EDGE 2 Tx slots	25.14	25.23	25.37	26.50	19.14	19.23	19.37	20.50
EDGE 3 Tx slots	22.91	22.98	23.07	24.00	18.85	18.72	18.81	19.74
EDGE 4 Tx slots	21.58	21.66	21.69	22.50	18.56	18.66	18.69	19.50

GSM1900 Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1860	1909.8	1850.2	1860	1909.8		
Frequency (MHz)	1850.2	1860	1909.8	1850.2	1860	1909.8		
GSM 1 Tx slot	28.85	28.84	29.01	30.50	19.85	19.84	20.01	21.50
GPRS 1 Tx slot	28.85	28.86	28.99	30.50	19.85	19.86	19.99	21.50
GPRS 2 Tx slots	28.23	28.21	28.35	29.50	22.23	22.21	22.35	23.50
GPRS 3 Tx slots	26.55	26.46	26.65	27.50	22.29	22.20	22.39	23.24
GPRS 4 Tx slots	25.44	25.36	25.54	26.50	22.44	22.36	22.54	23.50
EDGE 1 Tx slot	25.62	25.48	25.70	26.50	16.62	16.48	16.70	17.50
EDGE 2 Tx slots	24.47	24.31	24.52	25.50	18.47	18.31	18.52	19.50
EDGE 3 Tx slots	22.24	22.06	22.39	23.00	17.98	17.80	18.13	18.74
EDGE 4 Tx slots	21.04	20.77	20.99	22.00	18.04	17.77	17.99	19.00

Band	WCDMA II Ant 0			Tune-up Limit (dBm)	WCDMA IV Ant 0			Tune-up Limit (dBm)	WCDMA V Ant 0			Tune-up Limit (dBm)	
	TX Channel	9262	9400		9538	1312	1413		1513	4132	4182		4233
TX Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		2062.4	2074	2086	
3GPP Rel 99	AMR 12.2Kbps	23.00	23.21	23.21	24.00	22.76	23.02	22.99	24.00	23.09	23.38	23.36	24.00
3GPP Rel 99	RMC 12.2Kbps	23.04	23.42	23.27	24.00	22.90	23.23	23.18	24.00	23.22	23.53	23.45	24.00
3GPP Rel 6	HSDPA Subtest-1	22.22	22.22	22.27	23.00	21.99	22.05	22.08	23.00	22.29	22.44	22.39	23.00
3GPP Rel 6	HSDPA Subtest-2	22.24	22.29	22.28	23.00	22.00	22.16	22.08	23.00	22.29	22.43	22.44	23.00
3GPP Rel 6	HSDPA Subtest-3	21.70	21.87	21.69	22.50	21.68	21.74	21.47	22.50	21.90	21.95	21.87	22.50
3GPP Rel 6	HSDPA Subtest-4	21.64	21.82	21.75	22.50	21.55	21.66	21.49	22.50	21.84	21.91	21.89	22.50
3GPP Rel 6	DC-HSDPA Subtest-1	22.26	22.17	22.23	23.00	22.06	22.08	22.00	23.00	22.36	22.33	22.31	23.00
3GPP Rel 6	DC-HSDPA Subtest-2	22.16	22.20	22.12	23.00	21.98	21.95	22.00	23.00	22.26	22.32	22.30	23.00
3GPP Rel 6	DC-HSDPA Subtest-3	21.64	21.80	21.63	22.50	21.56	21.53	21.43	22.50	21.83	21.89	21.78	22.50
3GPP Rel 6	DC-HSDPA Subtest-4	21.53	21.75	21.59	22.50	21.38	21.67	21.42	22.50	21.76	21.84	21.77	22.50
3GPP Rel 6	HSUPA Subtest-1	22.04	22.25	22.22	23.00	21.85	22.05	22.02	23.00	22.25	22.40	22.34	23.00
3GPP Rel 6	HSUPA Subtest-2	20.23	20.29	20.17	21.00	20.02	20.13	20.05	21.00	20.35	20.48	20.36	21.00
3GPP Rel 6	HSUPA Subtest-3	21.21	21.43	21.29	22.00	21.08	21.27	20.98	22.00	21.35	21.58	21.37	22.00
3GPP Rel 6	HSUPA Subtest-4	20.05	20.26	20.17	21.00	19.84	20.10	20.00	21.00	20.16	20.41	20.30	21.00
3GPP Rel 6	HSUPA Subtest-5	22.00	22.21	22.27	23.00	21.84	22.04	22.09	23.00	22.16	22.32	22.43	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.72	19.81	19.89	20.50	19.52	19.60	19.73	20.50	19.96	19.93	20.04	20.50



Band 2 Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Min [Ch./Freq.]	Power Max [Ch./Freq.]	Power Hsp [Ch./Freq.]	Turnup rate [dB]	MPR (dB)		
Channel										
Frequency [MHz]										
20	QPSK	1	0	22.36	22.63	22.54			24	
20	QPSK	1	8	22.37	22.63	22.54				
20	QPSK	1	99	22.29	22.66	22.43			23	
20	QPSK	50	0	21.59	21.68	21.59				
20	QPSK	50	24	21.48	21.54	21.53			23	
20	QPSK	50	50	21.47	21.61	21.56				
20	QPSK	100	0	21.60	21.62	21.61			23	
20	QPSK	100	50	21.66	21.66	21.65				
20	16QAM	1	49	21.79	21.91	21.75			23	
20	16QAM	1	99	21.73	21.86	21.83				
20	16QAM	50	0	20.54	20.54	20.52			22	
20	16QAM	50	24	20.43	20.56	20.49				
20	16QAM	50	50	20.48	20.51	20.50			21	
20	16QAM	100	0	20.56	20.59	20.54				
20	16QAM	1	0	20.66	20.79	20.69			22	
20	16QAM	1	49	20.59	20.74	20.63				
20	16QAM	50	0	19.54	19.65	19.57			21	
20	16QAM	50	24	19.45	19.60	19.53				
20	16QAM	50	50	19.46	19.52	19.48			19	
20	16QAM	100	0	19.51	19.63	19.54				
20	256QAM	1	49	17.51	17.57	17.56			19	
20	256QAM	1	99	17.58	17.62	17.62				
20	256QAM	50	0	17.56	17.62	17.59			19	
20	256QAM	50	24	17.50	17.53	17.56				
20	256QAM	50	50	17.50	17.60	17.54			19	
20	256QAM	100	0	17.51	17.59	17.55				
Channel										
Frequency [MHz]										
15	QPSK	1	0	22.32	22.62	22.44			24	
15	QPSK	1	8	22.37	22.61	22.53				
15	QPSK	1	74	22.24	22.64	22.35			23	
15	QPSK	36	0	21.48	21.64	21.55				
15	QPSK	36	24	21.36	21.49	21.43			23	
15	QPSK	36	99	21.34	21.56	21.54				
15	QPSK	75	0	21.57	21.66	21.56			23	
15	QPSK	75	0	21.73	21.82	21.75				
15	16QAM	1	37	21.71	21.78	21.71			23	
15	16QAM	1	99	21.76	21.81	21.76				
15	16QAM	36	0	20.44	20.51	20.55			22	
15	16QAM	36	20	20.40	20.42	20.39				
15	16QAM	36	99	20.45	20.48	20.47			21	
15	16QAM	75	0	20.44	20.55	20.43				
15	16QAM	1	0	20.62	20.69	20.67			22	
15	16QAM	1	49	20.47	20.67	20.56				
15	16QAM	1	74	20.54	20.59	20.51			21	
15	16QAM	36	0	19.43	19.59	19.52				
15	16QAM	36	20	19.38	19.40	19.39			21	
15	16QAM	36	99	19.33	19.42	19.42				
15	16QAM	36	99	19.33	19.42	19.42			19	
15	16QAM	75	0	19.43	19.53	19.48				
15	256QAM	1	37	17.50	17.52	17.51			19	
15	256QAM	1	99	17.52	17.59	17.57				
15	256QAM	36	0	17.53	17.57	17.58			19	
15	256QAM	36	20	17.52	17.56	17.54				
15	256QAM	36	99	17.57	17.51	17.57			19	
15	256QAM	36	99	17.44	17.54	17.49				
15	256QAM	75	0	17.47	17.57	17.48				
Channel										
Frequency [MHz]										
10	QPSK	1	0	22.40	22.60	22.50			24	
10	QPSK	1	8	22.44	22.60	22.48				
10	QPSK	1	85	22.14	22.60	22.48			23	
10	QPSK	1	49	22.17	22.61	22.35				
10	QPSK	25	0	21.37	21.41	21.48			23	
10	QPSK	25	12	21.37	21.41	21.48				
10	QPSK	25	25	21.38	21.50	21.46			23	
10	QPSK	25	50	21.40	21.50	21.45				
10	16QAM	1	0	21.62	21.81	21.73			23	
10	16QAM	1	25	21.71	21.89	21.81				
10	16QAM	1	25	21.71	21.89	21.81			22	
10	16QAM	25	0	20.52	20.51	20.49				
10	16QAM	25	12	20.30	20.48	20.45			21	
10	16QAM	25	25	20.37	20.49	20.43				
10	16QAM	50	0	20.49	20.53	20.41			22	
10	16QAM	50	0	20.63	20.66	20.67				
10	16QAM	1	0	20.52	20.58	20.54			21	
10	16QAM	1	49	20.45	20.61	20.61				
10	16QAM	25	0	19.51	19.62	19.43			21	
10	16QAM	25	12	19.36	19.45	19.45				
10	16QAM	25	25	19.36	19.43	19.36			19	
10	16QAM	50	0	19.43	19.65	19.42				
10	256QAM	1	25	17.52	17.62	17.57			19	
10	256QAM	1	25	17.42	17.46	17.53				
10	256QAM	1	25	17.52	17.56	17.52			19	
10	256QAM	25	12	17.48	17.48	17.48				
10	256QAM	25	12	17.48	17.48	17.48			19	
10	256QAM	25	25	17.36	17.54	17.47				
10	256QAM	50	0	17.48	17.54	17.48				
Channel										
Frequency [MHz]										
5	QPSK	1	0	22.25	22.59	22.45			24	
5	QPSK	1	8	22.21	22.64	22.38				
5	QPSK	1	14	22.17	22.48	22.35			23	
5	QPSK	1	24	22.22	22.43	22.33				
5	QPSK	12	0	21.38	21.44	21.42			23	
5	QPSK	12	13	21.33	21.52	21.42				
5	16QAM	1	0	21.74	21.90	21.77			23	
5	16QAM	1	12	21.66	21.82	21.72				
5	16QAM	1	12	21.63	21.73	21.68			22	
5	16QAM	12	0	20.42	20.68	20.54				
5	16QAM	12	7	20.33	20.63	20.48			21	
5	16QAM	12	11	20.41	20.44	20.52				
5	16QAM	25	0	20.48	20.52	20.50			22	
5	16QAM	25	0	20.56	20.75	20.58				
5	16QAM	1	0	20.46	20.62	20.59			21	
5	16QAM	1	24	20.44	20.59	20.61				
5	16QAM	12	0	19.42	19.56	19.53			21	
5	16QAM	12	7	19.35	19.53	19.43				
5	16QAM	12	13	19.36	19.38	19.43			19	
5	16QAM	25	0	19.40	19.52	19.44				
5	256QAM	1	12	17.50	17.56	17.54			19	
5	256QAM	1	12	17.39	17.47	17.53				
5	256QAM	1	24	17.39	17.51	17.50			19	
5	256QAM	1	24	17.52	17.56	17.56				
5	256QAM	12	7	17.42	17.48	17.44			19	
5	256QAM	12	13	17.39	17.46	17.44				
5	256QAM	25	0	17.42	17.57	17.48				
Channel										
Frequency [MHz]										
3	QPSK	1	0	22.25	22.59	22.45			24	
3	QPSK	1	8	22.21	22.64	22.38				
3	QPSK	1	14	22.17	22.48	22.35			23	
3	QPSK	1	24	22.22	22.43	22.33				
3	QPSK	8	4	21.38	21.45	21.48			23	
3	QPSK	8	7	21.48	21.52	21.52				
3	16QAM	1	0	21.61	21.91	21.79			23	
3	16QAM	1	8	21.69	21.84	21.71				
3	16QAM	1	8	21.65	21.81	21.68			22	
3	16QAM	8	4	20.34	20.45	20.38				
3	16QAM	1	0	20.41	20.41	20.52			22	
3	16QAM	16	0	20.42	20.53	20.46				
3	16QAM	1	0	20.54	20.76	20.66			21	
3	16QAM	1	8	20.46	20.66	20.61				
3	16QAM	1	14	20.50	20.63	20.54			21	
3	16QAM	8	4	19.49	19.54	19.54				
3	16QAM	8	4	19.34	19.54	19.38			21	
3	16QAM	8	7	19.35	19.48	19.46				
3	16QAM	1	0	17.56	17.54	17.54			19	
3	256QAM	1	8	17.49	17.49	17.50				
3	256QAM	8	4	17.50	17.50	17.50			19	
3	256QAM	8	4	1						

Band 13 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.66	22.66	22.66	24	0	
10	QPSK	1	25	22.61	22.61	22.61			
10	QPSK	1	49	22.66	22.66	22.66			
10	QPSK	25	0	22.66	22.66	22.66	23	1	
10	QPSK	25	12	21.84	21.84	21.84			
10	QPSK	25	25	21.81	21.81	21.81			
10	QPSK	50	0	21.85	21.85	21.85	23	1	
10	16QAM	1	0	22.29	22.29	22.29			
10	16QAM	1	25	22.24	22.24	22.24			
10	16QAM	1	49	22.29	22.29	22.29	22	2	
10	16QAM	25	0	20.94	20.94	20.94			
10	16QAM	25	12	20.90	20.90	20.90			
10	16QAM	25	25	20.90	20.90	20.90	21	3	
10	16QAM	50	0	20.79	20.79	20.79			
10	16QAM	50	0	21.14	21.14	21.14			
10	64QAM	1	0	21.06	21.06	21.06	22	2	
10	64QAM	1	49	21.06	21.06	21.06			
10	64QAM	25	0	19.83	19.83	19.83			
10	64QAM	25	12	19.75	19.75	19.75	19	5	
10	64QAM	25	25	19.71	19.71	19.71			
10	64QAM	50	0	19.83	19.83	19.83			
10	256QAM	1	0	16.90	16.90	16.90	19	5	
10	256QAM	1	25	16.94	16.94	16.94			
10	256QAM	1	49	17.69	17.69	17.69			
10	256QAM	25	0	17.69	17.69	17.69	19	5	
10	256QAM	25	12	17.78	17.78	17.78			
10	256QAM	25	25	17.79	17.79	17.79			
10	256QAM	50	0	17.70	17.70	17.70	21	3	
10	256QAM	50	0	17.70	17.70	17.70			
10	256QAM	50	0	17.82	17.82	17.82			

Band 14 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.74	22.74	22.74	24	0	
10	QPSK	1	25	22.69	22.69	22.69			
10	QPSK	1	49	22.60	22.60	22.60			
10	QPSK	25	0	21.79	21.79	21.79	23	1	
10	QPSK	25	12	21.67	21.67	21.67			
10	QPSK	25	25	21.55	21.55	21.55			
10	QPSK	50	0	21.73	21.73	21.73	23	1	
10	16QAM	1	0	22.03	22.03	22.03			
10	16QAM	1	25	22.05	22.05	22.05			
10	16QAM	1	49	22.00	22.00	22.00	22	2	
10	16QAM	25	0	20.70	20.70	20.70			
10	16QAM	25	12	20.62	20.62	20.62			
10	16QAM	25	25	20.59	20.59	20.59	22	2	
10	16QAM	50	0	20.54	20.54	20.54			
10	16QAM	50	0	20.96	20.96	20.96			
10	64QAM	1	0	20.96	20.96	20.96	22	2	
10	64QAM	1	25	20.90	20.90	20.90			
10	64QAM	1	49	19.83	19.83	19.83			
10	64QAM	25	0	19.83	19.83	19.83	21	3	
10	64QAM	25	12	19.97	19.97	19.97			
10	64QAM	25	25	19.84	19.84	19.84			
10	64QAM	50	0	19.84	19.84	19.84	19	5	
10	256QAM	1	0	17.66	17.66	17.66			
10	256QAM	1	25	17.76	17.76	17.76			
10	256QAM	1	49	17.76	17.76	17.76	19	5	
10	256QAM	25	0	17.69	17.69	17.69			
10	256QAM	25	12	17.65	17.65	17.65			
10	256QAM	25	25	17.68	17.68	17.68	19	5	
10	256QAM	50	0	17.68	17.68	17.68			
10	256QAM	50	0	17.80	17.80	17.80			

Band 17 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.79	22.83	22.79	24	0	
10	QPSK	1	25	22.83	22.87	22.83			
10	QPSK	1	49	22.49	22.65	22.60			
10	QPSK	25	0	21.84	21.80	21.81	23	1	
10	QPSK	25	12	21.68	21.74	21.70			
10	QPSK	25	25	21.60	21.72	21.69			
10	QPSK	50	0	21.80	21.81	21.79	23	1	
10	16QAM	1	0	22.03	22.08	22.03			
10	16QAM	1	25	22.03	22.13	22.07			
10	16QAM	1	49	21.82	22.09	21.94	22	2	
10	16QAM	25	0	20.73	20.87	20.84			
10	16QAM	25	12	20.67	20.79	20.65			
10	16QAM	25	25	20.66	20.84	20.62	21	3	
10	16QAM	50	0	20.63	20.65	20.65			
10	64QAM	1	0	20.94	20.99	21.00	22	2	
10	64QAM	1	25	20.86	21.04	20.97			
10	64QAM	1	49	20.85	20.88	20.83			
10	64QAM	25	0	19.72	19.73	19.59	21	3	
10	64QAM	25	12	19.63	19.67	19.60			
10	64QAM	25	25	19.62	19.56	19.61			
10	64QAM	50	0	19.58	19.62	19.54	19	5	
10	256QAM	1	0	17.61	17.67	17.60			
10	256QAM	1	25	17.62	17.71	17.71			
10	256QAM	1	49	17.60	17.78	17.69	19	5	
10	256QAM	25	0	17.68	17.71	17.61			
10	256QAM	25	12	17.59	17.59	17.45			
10	256QAM	25	25	17.63	17.70	17.60	19	5	
10	256QAM	50	0	17.60	17.73	17.67			
10	256QAM	50	0	17.60	17.73	17.67			

Band 25 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (Sec)	MPE (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.68	22.68	22.48	24	0	
20	QPSK	1	49	22.67	22.67	22.41			
20	QPSK	1	99	22.39	22.44	22.34			
20	QPSK	50	0	21.63	21.61	21.52	23	1	
20	QPSK	50	24	21.48	21.48	21.43			
20	QPSK	50	50	21.31	21.45	21.35			
20	QPSK	100	0	21.63	21.64	21.51	23	1	
20	16QAM	1	0	22.37	22.38	22.17			
20	16QAM	1	49	21.74	21.87	21.73			
20	16QAM	1	99	21.72	21.85	21.88	22	2	
20	16QAM	50	0	20.37	20.51	20.33			
20	16QAM	50	24	20.31	20.53	20.37			
20	16QAM	50	50	20.30	20.45	20.30	22	2	
20	16QAM	100	0	20.35	20.41	20.34			
20	64QAM	1	0	20.64	20.78	20.77			
20	64QAM	1	49	20.59	20.78	20.86	22	2	
20	64QAM	1	99	20.53	20.62	20.53			
20	64QAM	50	0	19.43	19.47	19.38			
20	64QAM	50	24	19.36	19.35	19.28	21	3	
20	64QAM	50	50	19.38	19.36	19.34			
20	64QAM	100	0	19.35	19.43	19.29			
20	256QAM	1	0	17.62	17.69	17.70	19	5	
20	256QAM	1	49	17.52	17.59	17.54			
20	256QAM	1	99	17.56	17.54	17.63			
20	256QAM	50	0	17.60	17.64	17.53	19	5	
20	256QAM	50	24	17.39	17.39	17.19			
20	256QAM	50	50	17.37	17.34	17.31			
20	256QAM	100	0	17.41	17.41	17.24	21	3	
20	256QAM	100	0	17.41	17.41	17.24			
20	256QAM	100	0	17.41	17.41	17.24			
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.67	22.68	22.47	24	0	
20	QPSK	1	49	22.36	22.33	22.24			
20	QPSK	1	74	22.25	22.22	22.10			
20	QPSK	50	0	21.27	21.25	21.13	23	1	
20	QPSK	50	24	21.17	21.14	21.03			
20	QPSK	50	50	21.25	21.38	21.21			
20	QPSK	100	0	21.27	21.30	21.17	23	1	
20	16QAM	1	0	21.59	21.61	21.47			
20	16QAM	1	49	21.56	21.78	21.61			
20	16QAM	1	99	21.65	21.79	21.89	23	1	
20	16QAM	50	0	20.28	20.42	20.25			
20	16QAM	50	24	20.18	20.48	20.27			
20	16QAM	50	50	20.17	20.32	20.23	22	2	
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	75	0	20.27	20.32	20.27	22	2	
20	16QAM	1	0	20.58	20.65	20.52			
20	16QAM	1	49	20.58	20.65	20.52			
20	16QAM	1	99	20.58	20.65	20.52	22	2	
20	16QAM	50	0	20.28	20.40	20.35			
20	16QAM	50	24	20.18	20.48	20.27			
20	16QAM	50	50	20.17	20.32	20.23	22	2	
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	75	0	20.27	20.32	20.27	22	2	
20	16QAM	1	0	20.58	20.65	20.52			
20	16QAM	1	49	20.58	20.65	20.52			
20	16QAM	1	99	20.58	20.65	20.52	22	2	
20	16QAM	50	0	20.28	20.40	20.35			
20	16QAM	50	24	20.18	20.48	20.27			
20	16QAM	50	50	20.17	20.32	20.23	22	2	
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	75	0	20.27	20.32	20.27	22	2	
20	16QAM	1	0	20.58	20.65	20.52			
20	16QAM	1	49	20.58	20.65	20.52			
20	16QAM	1	99	20.58	20.65	20.52	22	2	
20	16QAM	50	0	20.28	20.40	20.35			
20	16QAM	50	24	20.18	20.48	20.27			
20	16QAM	50	50	20.17	20.32	20.23	22	2	
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	75	0	20.27	20.32	20.27	22	2	
20	16QAM	1	0	20.58	20.65	20.52			
20	16QAM	1	49	20.58	20.65	20.52			
20	16QAM	1	99	20.58	20.65	20.52	22	2	
20	16QAM	50	0	20.28	20.40	20.35			
20	16QAM	50	24	20.18	20.48	20.27			
20	16QAM	50	50	20.17	20.32	20.23	22	2	
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	75	0	20.27	20.32	20.27	22	2	
20	16QAM	1	0	20.58	20.65	20.52			
20	16QAM	1	49	20.58	20.65	20.52			
20	16QAM	1	99	20.58	20.65	20.52	22	2	
20	16QAM	50	0	20.28	20.40	20.35			
20	16QAM	50	24	20.18	20.48	20.27			
20	16QAM	50	50	20.17	20.32	20.23	22	2	
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	75	0	20.27	20.32	20.27	22	2	
20	16QAM	1	0	20.58	20.65	20.52			
20	16QAM	1	49	20.58	20.65	20.52			
20	16QAM	1	99	20.58	20.65	20.52	22	2	
20	16QAM	50	0	20.28	20.40	20.35			
20	16QAM	50	24	20.18	20.48	20.27			
20	16QAM	50	50	20.17	20.32	20.23	22	2	
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	75	0	20.27	20.32	20.27	22	2	
20	16QAM	1	0	20.58	20.65	20.52			
20	16QAM	1	49	20.58	20.65	20.52			
20	16QAM	1	99	20.58	20.65	20.52	22	2	
20	16QAM	50	0	20.28	20.40	20.35			
20	16QAM	50	24	20.18	20.48	20.27			
20	16QAM	50	50	20.17	20.32	20.23	22	2	
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	75	0	20.27	20.32	20.27	22	2	
20	16QAM	1	0	20.58	20.65	20.52			
20	16QAM	1	49	20.58	20.65	20.52			
20	16QAM	1	99	20.58	20.65	20.52	22	2	
20	16QAM	50	0	20.28	20.40	20.35			
20	16QAM	50	24	20.18	20.48	20.27			
20	16QAM	50	50	20.17	20.32	20.23	22	2	
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	75	0	20.27	20.32	20.27	22	2	
20	16QAM	1	0	20.58	20.65	20.52			
20	16QAM	1	49	20.58	20.65	20.52			
20	16QAM	1	99	20.58	20.65	20.52	22	2	
20	16QAM	50	0	20.28	20.40	20.35			
20	16QAM	50	24	20.18	20.48	20.27			
20	16QAM	50	50	20.17	20.32	20.23	22	2	
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	75	0	20.27	20.32	20.27	22	2	
20	16QAM	1	0	20.58	20.65	20.52			
20	16QAM	1	49	20.58	20.65	20.52			
20	16QAM	1	99	20.58	20.65	20.52	22	2	
20	16QAM	50	0	20.28	20.40	20.35			
20	16QAM	50	24	20.18	20.48	20.27			
20	16QAM	50	50	20.17	20.32	20.23	22	2	
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	75	0	20.27	20.32	20.27	22	2	
20	16QAM	1	0	20.58	20.65	20.52			
20	16QAM	1	49	20.58	20.65	20.52			
20	16QAM	1	99	20.58	20.65	20.52	22	2	
20	16QAM	50	0	20.28	20.40	20.35			
20	16QAM	50	24	20.18	20.48	20.27			
20	16QAM	50	50	20.17	20.32	20.23	22	2	
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	75	0	20.27	20.32	20.27	22	2	
20	16QAM	1	0	20.58	20.65	20.52			
20	16QAM	1	49	20.58	20.65	20.52			
20	16QAM	1	99	20.58	20.65	20.52	22	2	
20	16QAM	50	0	20.28	20.40	20.35			
20	16QAM	50	24	20.18	20.48	20.27			
20	16QAM	50	50	20.17	20.32	20.23	22	2	
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	75	0	20.27	20.32	20.27	22	2	
20	16QAM	1	0	20.58	20.65	20.52			
20	16QAM	1	49	20.58	20.65	20.52			
20	16QAM	1	99	20.58	20.65	20.52	22	2	
20	16QAM	50	0	20.28	20.40	20.35			
20	16QAM	50	24	20.18	20.48	20.27			
20	16QAM	50	50	20.17	20.32	20.23	22	2	
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	100	0	20.18	20.65	20.27			
20	16QAM	75	0	20.27	20.32	20.27	22	2	
20	16QAM	1	0	20.58	20.65	20.52			
20	16QAM	1	49	20.58	20.65	20.52			
20	16QAM	1	99	20.58	20.65	20.52	2		



Band 26 for FCC Ant 0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turnup Init. (dB)	MPR (dB)				
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.55	22.64	22.61			24	0		
15	QPSK	1	37	22.45	22.54	22.48						
15	QPSK	36	0	21.63	21.73	21.54			23	1		
15	QPSK	36	26	21.46	21.56	21.41						
15	QPSK	36	39	21.34	21.43	21.47			23	1		
15	QPSK	75	0	21.58	21.62	21.60						
15	16QAM	1	0	21.82	21.84	21.85			23	1		
15	16QAM	1	37	21.79	21.84	21.69						
15	16QAM	36	0	20.41	20.52	20.32			22	2		
15	16QAM	36	20	20.44	20.53	20.47						
15	16QAM	36	39	20.39	20.49	20.36			22	2		
15	16QAM	75	0	20.37	20.51	20.49						
15	64QAM	1	0	20.77	20.84	20.77			22	2		
15	64QAM	1	37	20.70	20.76	20.62						
15	64QAM	1	74	20.68	20.71	20.65			21	3		
15	64QAM	36	0	19.45	19.56	19.47						
15	64QAM	36	20	19.35	19.47	19.34			21	3		
15	64QAM	36	39	19.31	19.36	19.40						
15	256QAM	1	0	17.71	17.74	17.70			19	5		
15	256QAM	1	37	17.57	17.67	17.63						
15	256QAM	1	74	17.63	17.68	17.58			19	5		
15	256QAM	36	0	17.43	17.56	17.58						
15	256QAM	36	20	17.33	17.41	17.34			19	5		
15	256QAM	36	39	17.34	17.42	17.39						
15	256QAM	75	0	17.26	17.45	17.42						
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.55	22.42	22.49			24	0		
15	QPSK	1	26	22.48	22.49	22.33						
15	QPSK	1	49	22.32	22.33	22.22			23	1		
15	QPSK	26	0	21.62	21.49	21.47						
15	QPSK	26	12	21.45	21.41	21.33			23	1		
15	QPSK	26	26	21.32	21.22	21.33						
15	QPSK	50	0	21.65	21.69	21.56			23	1		
15	16QAM	1	0	21.82	21.87	21.75						
15	16QAM	1	26	21.83	21.84	21.75			23	1		
15	16QAM	1	49	21.79	21.85	21.68						
15	16QAM	25	0	20.40	20.34	20.46			22	2		
15	16QAM	25	12	20.46	20.34	20.37						
15	16QAM	25	26	20.35	20.29	20.38			22	2		
15	16QAM	50	0	20.35	20.29	20.34						
15	64QAM	1	0	20.68	20.63	20.68			22	2		
15	64QAM	1	26	20.68	20.63	20.68						
15	64QAM	1	49	20.58	20.57	20.53			21	3		
15	64QAM	25	0	19.42	19.30	19.37						
15	64QAM	25	12	19.34	19.24	19.28			21	3		
15	64QAM	25	26	19.20	19.23	19.33						
15	64QAM	50	0	19.35	19.31	19.28			19	5		
15	256QAM	1	26	17.63	17.62	17.62						
15	256QAM	1	25	17.69	17.44	17.56			19	5		
15	256QAM	1	49	17.56	17.56	17.56						
15	256QAM	25	0	17.52	17.36	17.37			19	5		
15	256QAM	25	12	17.29	17.28	17.28						
15	256QAM	25	26	17.34	17.21	17.34			19	5		
15	256QAM	50	0	17.39	17.24	17.32						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.58	22.45	22.47			24	0		
5	QPSK	1	12	22.43	22.29	22.40						
5	QPSK	1	24	22.34	22.25	22.21			24	0		
5	QPSK	12	0	21.57	21.57	21.47						
5	QPSK	12	7	21.51	21.42	21.29			23	1		
5	QPSK	12	13	21.33	21.20	21.37						
5	QPSK	36	0	21.62	21.67	21.56			23	1		
5	16QAM	1	0	21.85	21.68	21.71						
5	16QAM	1	12	21.80	21.68	21.72			23	1		
5	16QAM	1	24	21.74	21.61	21.68						
5	16QAM	12	0	20.47	20.32	20.47			22	2		
5	16QAM	12	7	20.47	20.39	20.34						
5	16QAM	12	13	20.35	20.38	20.27			22	2		
5	16QAM	25	0	20.40	20.29	20.39						
5	64QAM	1	0	20.69	20.63	20.71			22	2		
5	64QAM	1	12	20.61	20.62	20.65						
5	64QAM	1	24	20.64	20.62	20.63			21	3		
5	64QAM	12	0	19.42	19.29	19.27						
5	64QAM	12	7	19.37	19.28	19.26			21	3		
5	64QAM	12	13	19.23	19.23	19.31						
5	64QAM	25	0	19.42	19.25	19.33			19	5		
5	256QAM	1	49	17.67	17.58	17.62						
5	256QAM	1	12	17.58	17.47	17.62			19	5		
5	256QAM	1	24	17.68	17.54	17.63						
5	256QAM	12	0	17.48	17.34	17.48			19	5		
5	256QAM	12	7	17.30	17.28	17.32						
5	256QAM	12	13	17.41	17.27	17.35			19	5		
5	256QAM	25	0	17.37	17.27	17.28						
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.63	22.45	22.47			24	0		
3	QPSK	1	8	22.47	22.34	22.33						
3	QPSK	1	14	22.34	22.30	22.22			23	1		
3	QPSK	8	0	21.63	21.62	21.51						
3	QPSK	8	4	21.43	21.36	21.29			23	1		
3	QPSK	8	7	21.29	21.18	21.32						
3	QPSK	15	0	21.15	21.45	21.46			23	1		
3	16QAM	1	0	21.80	21.72	21.75						
3	16QAM	1	8	21.74	21.63	21.75			23	1		
3	16QAM	1	14	21.65	21.75	21.67						
3	16QAM	8	0	20.46	20.35	20.36			22	2		
3	16QAM	8	4	20.44	20.39	20.35						
3	16QAM	8	7	20.35	20.29	20.25			22	2		
3	16QAM	15	0	20.36	20.32	20.33						
3	64QAM	1	0	20.75	20.70	20.73			22	2		
3	64QAM	1	8	20.67	20.62	20.53						
3	64QAM	1	14	20.58	20.58	20.54			21	3		
3	64QAM	8	0	19.45	19.31	19.29						
3	64QAM	8	4	19.36	19.23	19.20			21	3		
3	64QAM	8	7	19.25	19.18	19.31						
3	64QAM	15	0	19.40	19.25	19.36			19	5		
3	256QAM	1	0	17.61	17.56	17.56						
3	256QAM	1	8	17.60	17.42	17.63			19	5		
3	256QAM	1	14	17.58	17.48	17.53						
3	256QAM	12	0	17.46	17.33	17.26			19	5		
3	256QAM	12	7	17.25	17.29	17.23						
3	256QAM	15	0	17.39	17.31	17.33			19	5		
3	256QAM	15	8	17.40	17.34	17.38						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.52	22.45	22.45			24	0		
1.4	QPSK	1	3	22.47	22.31	22.35						
1.4	QPSK	1	5	22.29	22.31	22.16			24	0		
1.4	QPSK	3	0	22.47	22.37	22.41						
1.4	QPSK	3	1	22.35	22.19	22.07			23	1		
1.4	QPSK	3	3	22.20	22.19	22.05						
1.4	16QAM	1	0	21.57	21.43	21.39			23	1		
1.4	16QAM	1	3	21.57	21.43	21.39						
1.4	16QAM	1	5	21.37	21.41	21.44			23	1		
1.4	16QAM	3	0	21.77	21.60	21.68						
1.4	16QAM	3	1	21.74	21.53	21.61			23	1		
1.4	16QAM	3	3	21.67	21.61	21.49						
1.4	64QAM	1	0	20.46	20.33	20.40			22	2		
1.4	64QAM	1	5	20.46	20.46	20.73						
1.4	64QAM	3	0	20.61	20.51	20.63			22	2		
1.4	64QAM	3	1	20.66	20.53	20.59						
1.4	64QAM	3	3	20.57	20.50	20.62			22	2		
1.4	64QAM	15	0	20.52	20.52	20.52						
1.4	64QAM	3	5	20.58	20.41	20.56			21	3		
1.4	64QAM	6	0	19.45	19.25	19.26						
1.4	64QAM	6	1	19.42	19.26	19.28			21	3		
1.4	64QAM	15	0	17.57	17.50	17.44						
1.4	256QAM	1	0	17.57	17.38	17.33			19	5		
1.4	256QAM	1	3	17.51	17.26	17.30						
1.4	256QAM	3	0	17.33	17.26	17.28			19	5		
1.4	256QAM	3	3	17.33	17.25	17.28						



Band 38 Ant 0												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Turn-up time (dBm)	MFR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.48	22.52	22.51	23	0				
20	QPSK	1	48	22.48	22.51	22.50						
20	QPSK	50	0	22.51	22.52	22.50	22	1				
20	QPSK	50	24	21.25	21.38	21.33						
20	QPSK	50	24	21.36	21.53	21.51	22	1				
20	QPSK	100	0	21.46	21.54	21.51						
20	QPSK	1	48	21.51	21.78	21.66	22	1				
20	QPSK	1	96	21.51	21.75	21.63						
20	QPSK	50	24	20.34	20.41	20.32	21	2				
20	QPSK	50	24	20.45	20.45	20.28						
20	QPSK	50	50	20.19	20.37	20.24	21	2				
20	QPSK	100	0	20.26	20.26	20.26						
20	QPSK	1	48	20.57	20.65	20.56	21	2				
20	QPSK	1	96	20.55	20.61	20.55						
20	QPSK	50	0	19.34	19.42	19.33	20	3				
20	QPSK	50	24	19.27	19.28	19.26						
20	QPSK	50	50	19.28	19.29	19.26	18	5				
20	QPSK	100	0	19.21	19.31	19.17						
20	QPSK	1	0	17.52	17.60	17.53	18	5				
20	QPSK	1	48	17.51	17.56	17.55						
20	QPSK	50	24	17.25	17.25	17.17	18	5				
20	QPSK	50	24	17.30	17.28	17.24						
20	QPSK	100	0	17.27	17.28	17.26	18	5				
20	QPSK	100	0	17.13	17.13	17.13						
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.13	22.42	22.27	23	0				
15	QPSK	1	37	22.28	22.18	22.18						
15	QPSK	1	74	22.28	22.33	22.12	22	1				
15	QPSK	36	0	21.34	21.42	21.37						
15	QPSK	36	20	21.14	21.24	21.17	22	1				
15	QPSK	36	20	21.38	21.39	21.39						
15	QPSK	75	0	21.38	21.39	21.37	22	1				
15	QPSK	75	0	21.55	21.66	21.61						
15	QPSK	1	74	21.54	21.72	21.61	21	2				
15	QPSK	36	0	20.24	20.36	20.19						
15	QPSK	36	20	20.22	20.26	20.15	21	2				
15	QPSK	36	20	20.09	20.29	20.16						
15	QPSK	75	0	20.25	20.25	20.22	20	3				
15	QPSK	75	0	19.23	19.32	19.25						
15	QPSK	1	37	20.52	20.59	20.51	21	2				
15	QPSK	1	74	20.44	20.47	20.39						
15	QPSK	36	0	19.23	19.32	19.25	18	5				
15	QPSK	36	20	19.15	19.17	19.20						
15	QPSK	75	0	19.25	19.25	19.25	18	5				
15	QPSK	75	0	17.42	17.43	17.43						
15	QPSK	36	0	17.15	17.33	17.18	18	5				
15	QPSK	36	20	17.17	17.27	17.05						
15	QPSK	36	36	17.25	17.13	17.20	18	5				
15	QPSK	75	0	17.26	17.21	17.21						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.13	22.42	22.27	23	0				
10	QPSK	1	25	22.31	22.32	22.33						
10	QPSK	1	48	22.13	22.31	22.20	22	1				
10	QPSK	1	48	21.28	21.46	21.47						
10	QPSK	25	12	21.19	21.24	21.19	22	1				
10	QPSK	25	12	21.19	21.14	21.26						
10	QPSK	25	0	21.87	21.78	21.83	22	1				
10	QPSK	25	0	21.52	21.62	21.44						
10	QPSK	1	48	21.47	21.67	21.59	21	2				
10	QPSK	1	0	20.28	20.28	20.21						
10	QPSK	25	0	20.22	20.41	20.12	21	2				
10	QPSK	25	0	20.07	20.31	20.14						
10	QPSK	50	0	20.28	20.25	20.22	21	2				
10	QPSK	50	0	20.07	20.07	20.07						
10	QPSK	1	48	20.49	20.58	20.42	21	2				
10	QPSK	1	48	20.45	20.54	20.50						
10	QPSK	25	0	19.21	19.33	19.21	20	3				
10	QPSK	25	12	19.22	19.20	19.14						
10	QPSK	25	12	19.20	19.25	19.11	18	5				
10	QPSK	50	0	19.15	19.25	19.05						
10	QPSK	1	0	17.51	17.46	17.42	18	5				
10	QPSK	1	48	17.41	17.46	17.40						
10	QPSK	1	48	17.38	17.43	17.35	18	5				
10	QPSK	25	0	17.22	17.28	17.20						
10	QPSK	25	12	17.14	17.15	17.07	18	5				
10	QPSK	25	12	17.22	17.15	17.15						
10	QPSK	50	0	17.24	17.22	17.22	18	5				
10	QPSK	50	0	17.10	17.10	17.10						

Band 41 Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MFR (dB)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	30.952	40.185	40.626	41.068	41.660	24	0
20	QPSK	1	48	23.08	22.92	22.93	23.10	23.02		
20	QPSK	1	48	22.87	22.83	22.83	22.92	22.82		
20	QPSK	50	0	22.79	22.78	22.81	22.99	22.82		
20	QPSK	50	0	22.05	22.03	22.05	22.12	22.11		
20	QPSK	50	24	21.88	21.88	21.90	21.96	21.90		
20	QPSK	50	24	21.98	21.85	21.88	21.92	21.88		
20	QPSK	100	0	22.01	21.94	22.03	22.14	22.01		
20	QPSK	100	0	22.36	22.33	22.30	22.46	22.37		
20	QPSK	1	96	22.21	22.24	22.22	22.28	22.23		
20	16QAM	1	96	22.25	22.20	22.20	22.43	22.39		
20	16QAM	50	0	20.99	20.89	20.97	21.00	20.91		
20	16QAM	50	24	20.93	20.84	20.94	21.00	20.83		
20	16QAM	50	50	20.84	20.88	20.79	20.93	20.88		
20	16QAM	100	0	20.95	20.85	20.93	20.92	20.87		
20	16QAM	1	48	21.13	21.28	21.22	21.28	21.15		
20	16QAM	1	48	21.14	21.24	21.09	21.28	21.14		
20	16QAM	1	96	21.10	21.03	21.02	21.13	21.15		
20	16QAM	50	0	19.92	19.94	19.89	19.97	19.86		
20	16QAM	50	24	19.89	19.80	19.87	19.90	19.83		
20	16QAM	50	50	19.86	19.76	19.91	19.96	19.80		
20	16QAM	100	0	19.88	19.74	19.88	19.97	19.81		
20	256QAM	1	0	18.11	18.12	18.10	18.13	18.20		
20	256QAM	1	48	18.11	18.06	18.06	18.11	18.08		
20	256QAM	1	96	18.05	18.15	18.16	18.12	18.14		
20	256QAM	50	24	17.82	17.70	17.79	17.83	17.71		
20	256QAM	50	24	17.87	17.77	17.80	17.82	17.73		
20	256QAM	100	0	17.84	17.82	17.82	17.89	17.81		
Channel										
Frequency (MHz)										
15	QPSK	1	0	30.952	40.173	40.626	41.068	41.615	24	0
15	QPSK	1	0	23.04	22.93	22.93	23.17	23.05		
15	QPSK	1	37	22.84	22.79	22.80	22.90	22.89		
15	QPSK	1	74	22.87	22.89	22.71	22.97	22.77		
15	QPSK	36	0	21.88	21.87	21.83	21.91	21.88		
15	QPSK	36	20	21.77	21.84	21.83	21.91	21.88		
15	QPSK	36	20	21.78	21.72	21.68	21.75	21.71		
15	QPSK	75	0	21.90	21.87	21.97	22.03	21.92		
15	16QAM	1	9	22.12	22.23	22.16	22.31	22.24		
15	16QAM	1	37	22.15	22.22	22.18	22.28	22.15		
15	16QAM	1	74	22.19	22.26	22.11	22.40	22.19		
15	16QAM	36	0	20.94	20.88	20.87	20.92	20.88		
15	16QAM	36	20	20.91	20.85	20.84	20.92	20.74		
15	16QAM	36	20	20.73	20.82	20.68	20.81	20.75		
15	16QAM	75	0	21.90	21.87	21.97	22.03	21.92		
15	16QAM	1	9	21.10	21.17	21.13	21.18	21.24		
15	16QAM	1	37	21.10	21.16	21.09	21.20	21.13		
15	16QAM	1	74	21.13	21.21	21.07	21.28	21.13		
15	16QAM	36	0	19.79	19.80	19.83	19.83	19.83		
15	16QAM	36	20	19.77	19.75	19.83	19.78	19.73		
15	16QAM	36	20	19.74	19.76	19.74	19.78	19.73		
15	16QAM	75	0	19.76	19.72	19.74	19.84	19.74		
15	256QAM	1	0	17.82	17.83	17.82	17.89	17.81		
15	256QAM	1	37	18.05	17.93	18.01	18.03	17.94		
15	256QAM	1	74	17.86	18.06	18.04	18.09	18.01		
15	256QAM	36	0	17.82	17.82	17.82	17.89	17.84		
15	256QAM	36	20	17.80	17.82	17.74	17.85	17.79		
15	256QAM	36	20	17.79	17.73	17.77	17.85	17.61		
15	256QAM	75	0	17.82	17.78	17.81	17.86	17.88		
Channel										
Frequency (MHz)										
10	QPSK	1	0	30.950	40.166	40.626	41.060	41.640	24	0
10	QPSK	1	0	23.03	22.97	22.93	23.16	23.00		
10	QPSK	1	25	22.88	22.83	22.82	22.85	22.78		
10	QPSK	1	49	22.87	22.86	22.71	22.97	22.77		
10	QPSK	25	0	22.02	21.89	21.93	22.08	21.97		
10	QPSK	25	12	21.77	21.84	21.78	21.88	21.82		
10	QPSK	25	12	21.78	21.72	21.68	21.75	21.71		
10	QPSK	50	0	21.90	21.89	21.90	22.03	21.98		
10	16QAM	1	9	22.16	22.24	22.23	22.34	22.24		
10	16QAM	1	25	22.19	22.26	22.11	22.40	22.19		
10	16QAM	1	49	22.15	22.12	22.08	22.36	22.20		
10	16QAM	25	0	20.95	20.76	20.89	20.95	20.85		
10	16QAM	25	12	20.874	20.71	20.874	20.96	20.73		
10	16QAM	25	12	20.84	20.80	20.76	20.74	20.82		
10	16QAM	50	0	20.98	20.88	20.98	21.03	20.80		
10	16QAM	1	9	21.00	21.17	21.12	21.19	21.18		
10	16QAM	1	25	21.09	21.19	20.98	21.25	21.09		
10	16QAM	1	49	21.08	21.17	20.98	21.25	21.08		
10	16QAM	25	0	19.87	19.89	19.87	19.87	19.73		
10	16QAM	25	12	19.80	19.89	19.83	19.81	19.70		
10	16QAM	25	12	19.78	19.78	19.74	19.80	19.70		
10	16QAM	50	0	19.81	19.71	19.78	19.86	19.72		
10	16QAM	50	0	19.78	19.68	19.78	19.86	19.72		
10	256QAM	1	25	18.06	17.94	18.01	17.99	17.90		
10	256QAM	1	49	18.01	18.04	18.13	18.03	18.04		
10	256QAM	25	0	17.82	17.82	17.79	17.89	17.77		
10	256QAM	25	12	17.72	17.86	17.66	17.72	17.82		
10	256QAM	25	12	17.73	17.84	17.74	17.86	17.70		
10	256QAM	50	0	17.82	17.81	17.73	17.79	17.88		
10	256QAM	12	13	17.72	17.72	17.72	17.79	17.87		
10	256QAM	12	13	17.72	17.85	17.79	17.89	17.77		
10	256QAM	12	7	17.72	17.81	17.73	17.79	17.88		
10	256QAM	12	13	17.76	17.72	17.72	17.79	17.87		
10	256QAM	12	13	17.76	17.85	17.79	17.89	17.77		
Channel										
Frequency (MHz)										
5	QPSK	1	12	22.87	22.84	22.91	22.88	22.78	24	0
5	QPSK	1	24	22.84	22.84	22.84	22.91	22.88		
5	QPSK	12	5	21.92	21.89	21.98	22.10	22.06		
5	QPSK	12	7	21.76	21.85	21.82	21.82	21.79		
5	QPSK	24	21	21.13	21.12	21.18	21.23	21.18		
5	QPSK	25	0	21.95	21.88	21.97	22.11	21.88		
5	16QAM	1	0	22.22	22.21	22.25	22.34	22.26		
5	16QAM	1	12	22.13	22.11	22.13	22.22	22.13		
5	16QAM	1	24	22.15	22.09	22.11	22.39	22.20		
5	16QAM	12	7	20.91	20.97	20.87	20.95	20.78		
5	16QAM	12	13	20.77	20.79	20.68	20.83	20.84		
5	16QAM	1	0	20.91	20.83	20.90	20.98	20.80		
5	16QAM	1	5	21.00	21.17	21.20	21.13	21.18		
5	16QAM	1	12	21.02	21.17	21.04	21.18	21.02		
5	16QAM	1	24	21.03	21.19	20.99	21.18	21.03		
5	16QAM	12	0	19.81	19.92	19.88	19.86	19.75		
5	16QAM	12	7	19.82	19.84	19.84	19.88	19.75		
5	16QAM	12	13	19.87	19.87	19.87	19.73	19.78		
5	16QAM	25	0	19.79	19.83	19.82	19.82	19.76		
5	16QAM	25	0	19.78	19.78	19.82	19.82	19.76		
5	256QAM	1	12	18.01	18.03	18.06	18.00	17.98		
5	256QAM	1	24	17.94	18.07	18.03	18.00	18.00		
5	256QAM	12	13	17.82	17.82	17.82	17.82	17.77		
5	256QAM	12	7	17.72	17.81	17.73	17.79	17.88		
5	256QAM	12	13	17.76	17.72	17.72	17.79	17.87		

Band		WCDMA II Ant 1			Tune-up Limit (dBm)	WCDMA IV Ant 1			Tune-up Limit (dBm)	WCDMA V Ant 1			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4367	4407	4458	
Frequency (MHz)		1823.4	1860	1907.5		1712.4	1722.5	1752.6		432.4	436.4	440.6	
3GPP Rel 99	AMR 12.2Kbps	15.59	15.87	15.80	16.60	16.49	16.95	16.89	18.00	22.89	23.24	23.23	23.60
3GPP Rel 99	RMC 12.2Kbps	15.64	15.96	15.89	16.60	16.70	16.97	16.83	18.00	23.08	23.37	23.26	23.60
3GPP Rel 6	HSDPA Subtest-1	14.82	14.89	14.91	15.60	15.79	15.99	15.83	17.00	22.13	22.31	22.20	22.60
3GPP Rel 6	HSDPA Subtest-2	14.85	14.96	14.96	15.60	15.83	15.86	15.81	17.00	22.19	22.29	22.24	22.60
3GPP Rel 6	HSDPA Subtest-3	14.45	14.58	14.24	15.10	15.29	15.49	15.47	16.50	21.71	21.82	21.78	22.10
3GPP Rel 6	HSDPA Subtest-4	14.32	14.51	14.39	15.10	15.28	15.42	15.32	16.50	21.70	21.77	21.69	22.10
3GPP Rel 6	DC-HSDPA Subtest-1	14.96	14.90	14.93	15.60	15.75	15.78	15.77	17.00	22.17	22.16	22.14	23.60
3GPP Rel 6	DC-HSDPA Subtest-2	14.82	14.88	14.68	15.60	15.76	15.68	15.78	17.00	22.10	22.15	22.14	22.60
3GPP Rel 6	DC-HSDPA Subtest-3	14.37	14.45	14.23	15.10	15.36	15.44	15.27	16.50	21.66	21.79	21.67	23.10
3GPP Rel 6	DC-HSDPA Subtest-4	14.11	14.35	14.17	15.10	15.22	15.29	15.24	16.50	21.64	21.71	21.64	23.10
3GPP Rel 6	HSUPA Subtest-1	14.63	14.95	14.88	15.60	15.73	16.00	15.84	17.00	22.11	22.31	22.17	22.60
3GPP Rel 6	HSUPA Subtest-2	12.62	12.92	12.91	13.60	13.91	13.90	13.85	15.00	20.22	20.31	20.25	21.60
3GPP Rel 6	HSUPA Subtest-3	13.76	14.11	13.97	14.60	14.78	15.11	14.87	16.00	21.20	21.40	21.27	22.60
3GPP Rel 6	HSUPA Subtest-4	12.65	12.85	12.91	13.60	13.68	13.96	13.83	15.00	20.03	20.25	20.19	21.60
3GPP Rel 6	HSUPA Subtest-5	14.59	14.90	14.85	15.60	15.56	15.88	15.89	17.00	21.98	22.18	22.26	23.60
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	12.36	12.43	12.56	13.10	13.47	13.41	13.61	14.50	19.77	19.79	19.94	21.10



Band 2 Ant 1												
BW [MHz]	Modulation	RB Size	RB Offset	Power Min Ch. Freq.	Power Max Ch. Freq.	Power Min Ch. Freq.	Turnup rate [dB/s]	MRR (dB)				
Channel												
Frequency [MHz]												
20	QPSK	1	0	14.76	14.86	14.94			16.1	0		
20	QPSK	1	8	14.76	14.86	14.94						
20	QPSK	1	99	14.80	14.95	14.82			16.1	0		
20	QPSK	50	0	14.76	14.91	14.81						
20	QPSK	50	14	14.76	14.74	14.75			16.1	0		
20	QPSK	50	50	14.78	14.76	14.71						
20	QPSK	100	0	14.54	14.70	14.48			16.1	0		
20	QPSK	100	50	14.54	14.62	14.68						
20	QPSK	1	49	14.68	14.68	14.59			16.1	0		
20	QPSK	1	99	14.45	14.36	14.58						
20	QPSK	50	0	14.50	14.44	14.58			16.1	0		
20	QPSK	50	24	14.48	14.43	14.43						
20	QPSK	50	50	14.50	14.52	14.58			16.1	0		
20	QPSK	100	0	14.43	14.29	14.51						
20	QPSK	1	0	14.57	14.56	14.41			16.1	0		
20	QPSK	1	99	14.69	14.38	14.57						
20	QPSK	50	0	14.56	14.40	14.58			16.1	0		
20	QPSK	50	0	14.39	14.48	14.47						
20	QPSK	100	0	14.46	14.39	14.58			16.1	0		
20	QPSK	100	0	14.46	14.47	14.52						
20	QPSK	1	49	14.59	14.51	14.44			16.1	0		
20	QPSK	1	99	14.54	14.32	14.54						
20	QPSK	50	0	14.45	14.40	14.57			16.1	0		
20	QPSK	50	24	14.52	14.39	14.51						
20	QPSK	50	50	14.49	14.32	14.54			16.1	0		
20	QPSK	100	0	14.50	14.32	14.50						
Channel												
Frequency [MHz]												
15	QPSK	1	0	14.71	14.86	14.80			16.1	0		
15	QPSK	1	8	14.76	14.78	14.84						
15	QPSK	1	74	14.70	14.84	14.87			16.1	0		
15	QPSK	50	0	14.60	14.73	14.68						
15	QPSK	50	14	14.54	14.67	14.59			16.1	0		
15	QPSK	50	39	14.71	14.55	14.61						
15	QPSK	75	0	14.41	14.48	14.31			16.1	0		
15	QPSK	75	0	14.53	14.54	14.50						
15	QPSK	1	37	14.59	14.64	14.54			16.1	0		
15	QPSK	1	89	14.46	14.47	14.52						
15	QPSK	36	0	14.49	14.34	14.48			16.1	0		
15	QPSK	36	20	14.35	14.30	14.27						
15	QPSK	75	0	14.27	14.31	14.43			16.1	0		
15	QPSK	75	0	14.49	14.46	14.35						
15	QPSK	1	49	14.59	14.52	14.48			16.1	0		
15	QPSK	1	74	14.53	14.25	14.42						
15	QPSK	36	0	14.30	14.27	14.40			16.1	0		
15	QPSK	36	0	14.53	14.43	14.46						
15	QPSK	36	39	14.32	14.25	14.46			16.1	0		
15	QPSK	75	0	14.37	14.27	14.48						
15	QPSK	75	0	14.53	14.52	14.47			16.1	0		
15	QPSK	1	37	14.52	14.43	14.38						
15	QPSK	1	74	14.41	14.29	14.48			16.1	0		
15	QPSK	36	0	14.43	14.36	14.50						
15	QPSK	36	20	14.38	14.30	14.46			16.1	0		
15	QPSK	36	39	14.36	14.27	14.45						
15	QPSK	75	0	14.43	14.47	14.38			16.1	0		
15	QPSK	75	0	14.43	14.47	14.38						
Channel												
Frequency [MHz]												
10	QPSK	1	0	14.69	14.80	14.80			16.1	0		
10	QPSK	1	25	14.70	14.78	14.85						
10	QPSK	1	49	14.70	14.87	14.78			16.1	0		
10	QPSK	25	0	14.69	14.76	14.77						
10	QPSK	25	12	14.73	14.64	14.70			16.1	0		
10	QPSK	25	25	14.70	14.69	14.67						
10	QPSK	50	0	14.68	14.68	14.68			16.1	0		
10	QPSK	50	50	14.62	14.54	14.53						
10	QPSK	1	25	14.54	14.57	14.65			16.1	0		
10	QPSK	1	25	14.54	14.57	14.65						
10	QPSK	25	12	14.36	14.37	14.32			16.1	0		
10	QPSK	25	12	14.59	14.78	14.50						
10	QPSK	50	0	14.38	14.27	14.38			16.1	0		
10	QPSK	50	0	14.42	14.46	14.34						
10	QPSK	1	49	14.53	14.25	14.48			16.1	0		
10	QPSK	1	49	14.56	14.35	14.41						
10	QPSK	25	12	14.23	14.31	14.37			16.1	0		
10	QPSK	25	12	14.48	14.43	14.43						
10	QPSK	25	25	14.36	14.32	14.48			16.1	0		
10	QPSK	50	0	14.41	14.28	14.52						
10	QPSK	50	14	14.38	14.38	14.48			16.1	0		
10	QPSK	50	39	14.49	14.44	14.36						
10	QPSK	1	25	14.49	14.44	14.36			16.1	0		
10	QPSK	1	25	14.41	14.31	14.53						
10	QPSK	25	0	14.31	14.31	14.53			16.1	0		
10	QPSK	25	0	14.36	14.26	14.44						
10	QPSK	50	0	14.49	14.43	14.49			16.1	0		
10	QPSK	50	12	14.54	14.43	14.29						
10	QPSK	1	24	14.47	14.16	14.41			16.1	0		
10	QPSK	12	0	14.51	14.29	14.44						
10	QPSK	12	7	14.39	14.34	14.37			16.1	0		
10	QPSK	12	7	14.39	14.26	14.44						
10	QPSK	50	0	14.42	14.40	14.57			16.1	0		
10	QPSK	50	0	14.42	14.40	14.57						
Channel												
Frequency [MHz]												
3	QPSK	1	0	14.61	14.87	14.82			16.1	0		
3	QPSK	1	8	14.68	14.81	14.88						
3	QPSK	1	14	14.72	14.81	14.71			16.1	0		
3	QPSK	3	0	14.63	14.76	14.89						
3	QPSK	3	4	14.67	14.64	14.69			16.1	0		
3	QPSK	7	0	14.68	14.60	14.65						
3	QPSK	15	0	14.45	14.58	14.59			16.1	0		
3	QPSK	15	0	14.54	14.58	14.54						
3	QPSK	1	0	14.64	14.53	14.54			16.1	0		
3	QPSK	1	12	14.30	14.28	14.48						
3	QPSK	1	12	14.60	14.43	14.29			16.1	0		
3	QPSK	1	12	14.38	14.21	14.43						
3	QPSK	12	0	14.51	14.29	14.44			16.1	0		
3	QPSK	12	7	14.34	14.28	14.31						
3	QPSK	12	81	14.40	14.42	14.33			16.1	0		
3	QPSK	12	0	14.35	14.33	14.39						
3	QPSK	1	0	14.41	14.42	14.31			16.1	0		
3	QPSK	1	0	14.54	14.33	14.40						
3	QPSK	1	8	14.49	14.36	14.53			16.1	0		
3	QPSK	1	8	14.52	14.30	14.52						
3	QPSK	1	8	14.33	14.28	14.35			16.1	0		
3	QPSK	1	8	14.49	14.36	14.53						
3	QPSK	15	0	14.32	14.24	14.45			16.1	0		
3	QPSK	15	0	14.44	14.50	14.26						
3	QPSK	1	8	14.58	14.29	14.48			16.1	0		
3	QPSK	1	8	14.52	14.35	14.42						
3	QPSK	8	0	14.51	14.37	14.50			16.1	0		
3	QPSK	8	0	14.51	14.37	14.50						
3	QPSK	8	7	14.34	14.33	14.46			16.1	0		
3	QPSK	8	7	14.34	14.37	14.43						
3	QPSK	1	0	14.4					16.1	0		
3	QPSK	1	0	14.4								
3	QPSK	1	0	14.4					16.1	0		
3	QPSK	1	0	14.4								
3	QPSK	1	0	14.4					16.1	0		
3	QPSK	1	0	14.4								
3	QPSK	1	0	14.4					16.1	0		
3	QPSK	1	0	14.4								
3	QPSK	1	0	14.4					16.1	0		
3	QPSK	1	0	14.4								
3	QPSK	1	0	14.4					16.1	0		
3	QPSK	1	0	14.4								
3	QPSK	1	0	14.4					16.1	0		
3	QPSK	1	0	14.4								
3	QPSK	1	0	14.4					16.1	0		
3	QPSK	1	0	14.4								
3	QPSK	1	0	14.4					16.1	0		
3	QPSK	1	0	14.4								
3	QPSK	1	0	14.4					16.1	0		
3	QPSK	1	0	14.4								
3	QPSK	1	0	14.4					16.1	0		
3	QPSK	1	0	14.4								
3	QPSK	1	0	14.4					16.1	0		
3	QPSK	1	0	14.4								
3	QPSK	1	0	14.4					16.1	0		
3	QPSK	1	0	14.4								
3	QPSK	1	0	14.4					16.1	0		
3	QPSK	1	0	14.4								
3	QPSK	1	0	14.4					16.1	0		
3	QPSK	1	0	14.4								
3	QPSK	1	0	14.4					16.1	0		
3	QPSK	1	0	14.4								
3	QPSK	1	0	14.4					16.1	0		
3	QPSK	1	0	14.4								
3	QPSK	1	0	14.4					16.1	0		
3	QPSK	1	0	14.4								
3	QPSK	1	0	14.4					16.1	0		
3	QPSK	1	0	14.4								
3	QPSK	1	0	14.4					16.1	0		
3	QPSK	1	0	14.4								
3	QPSK	1	0	14.4								



Band 13 Ant 1											
BW [MHz]	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mod Ch / Freq	Power High Ch / Freq	Tune-up inst (dB)	MPE (dB)			
Channel											
Frequency [MHz]											
10	QPSK	1	0	22.60	22.60	22.60	23.0	0			
10	QPSK	1	25	22.70	22.70	22.70					
10	QPSK	1	49	22.87	22.87	22.87					
10	QPSK	25	0	21.84	21.84	21.84	23	0.0			
10	QPSK	25	12	21.74	21.74	21.74					
10	QPSK	25	25	21.69	21.69	21.69					
10	QPSK	50	0	21.66	21.66	21.66	23	0.0			
10	16QAM	1	0	22.05	22.05	22.05					
10	16QAM	1	25	22.03	22.03	22.03					
10	16QAM	1	49	22.07	22.07	22.07	22	1.0			
10	16QAM	25	0	20.70	20.70	20.70					
10	16QAM	25	12	20.74	20.74	20.74					
10	16QAM	25	25	20.69	20.69	20.69	21	2.0			
10	16QAM	50	0	20.62	20.62	20.62					
10	16QAM	1	0	21.50	21.50	21.50					
10	64QAM	1	25	20.96	20.96	20.96	22	1.0			
10	64QAM	1	49	20.95	20.95	20.95					
10	64QAM	25	0	19.67	19.67	19.67					
10	64QAM	25	12	19.69	19.69	19.69	21	2.0			
10	64QAM	25	25	19.52	19.52	19.52					
10	64QAM	50	0	19.70	19.70	19.70					
10	256QAM	1	25	17.84	17.84	17.84	19	4.0			
10	256QAM	1	49	17.87	17.87	17.87					
10	256QAM	25	0	17.68	17.68	17.68					
10	256QAM	25	12	17.61	17.61	17.61	19	4.0			
10	256QAM	25	25	17.62	17.62	17.62					
10	256QAM	50	0	17.72	17.72	17.72					
Channel											
Frequency [MHz]											
5	QPSK	1	0	22.76	22.79	22.80	23.0	0			
5	QPSK	1	12	22.80	22.86	22.82					
5	QPSK	1	24	22.82	22.96	22.89					
5	QPSK	12	0	21.82	21.74	21.79	23	0.0			
5	QPSK	12	7	21.70	21.62	21.68					
5	QPSK	12	13	21.53	21.52	21.55					
5	QPSK	25	0	21.81	21.74	21.77	23	0.0			
5	16QAM	1	0	22.12	22.06	22.01					
5	16QAM	1	12	21.98	21.98	21.92					
5	16QAM	1	24	22.03	21.94	22.00	22	1.0			
5	16QAM	12	0	20.68	20.67	20.61					
5	16QAM	12	7	20.60	20.69	20.63					
5	16QAM	25	0	20.55	20.59	20.52	22	1.0			
5	64QAM	1	0	20.94	20.95	20.98					
5	64QAM	1	12	20.85	20.91	20.91					
5	64QAM	1	24	20.70	20.97	20.89	21	2.0			
5	64QAM	12	0	19.64	19.60	19.65					
5	64QAM	12	7	19.65	19.60	19.57					
5	64QAM	12	13	19.44	19.40	19.40	19	4.0			
5	64QAM	25	0	19.68	19.64	19.61					
5	256QAM	1	0	17.92	17.92	17.92					
5	256QAM	1	12	17.71	17.77	17.81	19	4.0			
5	256QAM	1	24	17.84	17.77	17.80					
5	256QAM	12	0	17.65	17.68	17.58					
5	256QAM	12	7	17.48	17.57	17.49	19	4.0			
5	256QAM	12	13	17.45	17.56	17.49					
5	256QAM	25	0	17.62	17.65	17.54					

Band 14 Ant 1									
BW [MHz]	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mod Ch / Freq	Power High Ch / Freq	Tune-up inst. (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.69	22.69	22.69	23.7	0	
10	QPSK	1	25	22.69	22.69	22.69			
10	QPSK	1	49	22.44	22.44	22.43			
10	QPSK	25	0	21.72	21.72	21.72	23	0.7	
10	QPSK	25	12	21.62	21.62	21.63			
10	QPSK	25	25	21.51	21.51	21.49			
10	QPSK	50	0	21.62	21.62	21.62	23	0.7	
10	16QAM	1	0	21.90	21.90	21.90			
10	16QAM	1	25	21.96	21.96	21.96			
10	16QAM	1	49	21.97	21.97	21.97	22	1.7	
10	16QAM	25	0	20.57	20.57	20.59			
10	16QAM	25	12	20.42	20.42	20.47			
10	16QAM	25	25	20.46	20.46	20.46	22	1.7	
10	16QAM	50	0	20.52	20.52	20.48			
10	64QAM	1	0	20.92	20.99	20.79	22	1.7	
10	64QAM	1	25	20.78	20.78	20.78			
10	64QAM	1	49	20.70	20.70	20.71			
10	64QAM	25	12	19.48	19.48	19.48	21	2.7	
10	64QAM	25	25	19.46	19.46	19.46			
10	64QAM	50	0	19.48	19.38	19.48			
10	256QAM	1	0	17.70	17.72	17.70	19	4.7	
10	256QAM	1	25	17.72	17.69	17.69			
10	256QAM	1	49	17.65	17.67	17.68			
10	256QAM	25	0	17.58	17.58	17.57	19	4.7	
10	256QAM	25	12	17.40	17.40	17.42			
10	256QAM	25	25	17.51	17.42	17.40			
10	256QAM	50	0	17.61	17.59	17.60	19	4.7	
10	256QAM	50	12	17.43	17.43	17.43			
10	256QAM	50	25	17.43	17.43	17.43			
10	256QAM	50	49	17.43	17.43	17.43			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.60	22.61	22.63	23.7	0	
5	QPSK	1	12	22.60	22.48	22.39			
5	QPSK	1	24	22.30	22.35	22.36			
5	QPSK	12	0	21.61	21.69	21.68	23	0.7	
5	QPSK	12	7	21.47	21.60	21.60			
5	QPSK	12	13	21.43	21.46	21.47			
5	QPSK	25	0	21.60	21.67	21.67	23	0.7	
5	16QAM	1	0	21.80	21.81	21.81			
5	16QAM	1	12	21.92	21.89	21.87			
5	16QAM	1	24	21.66	21.85	21.81	22	1.7	
5	16QAM	12	0	20.46	20.45	20.45			
5	16QAM	12	7	20.59	20.49	20.47			
5	16QAM	25	0	20.50	20.48	20.43	22	1.7	
5	64QAM	1	0	20.73	20.74	20.75			
5	64QAM	1	12	20.71	20.70	20.67			
5	64QAM	1	24	20.57	20.59	20.55	21	2.7	
5	64QAM	12	0	19.52	19.56	19.47			
5	64QAM	12	7	19.41	19.37	19.34			
5	64QAM	12	13	19.44	19.44	19.34	19	4.7	
5	64QAM	25	0	19.31	19.30	19.30			
5	256QAM	1	0	17.66	17.58	17.58			
5	256QAM	1	12	17.63	17.65	17.69	19	4.7	
5	256QAM	1	24	17.54	17.54	17.56			
5	256QAM	12	0	17.50	17.52	17.52			
5	256QAM	12	7	17.39	17.34	17.34	19	4.7	
5	256QAM	12	13	17.43	17.48	17.44			
5	256QAM	25	0	17.41	17.48	17.41			

Band 17 Ant 1									
BW [MHz]	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mod Ch / Freq	Power High Ch / Freq	Tune-up inst (dB)	MPE (dB)	
Channel									
Frequency [MHz]									
10	QPSK	1	0	22.61	22.60	22.60	24	0	
10	QPSK	1	25	22.62	22.61	22.67			
10	QPSK	1	49	22.39	22.53	22.43			
10	QPSK	25	0	21.62	21.74	21.63	23	1	
10	QPSK	25	12	21.62	21.68	21.63			
10	QPSK	25	25	21.42	21.51	21.49			
10	QPSK	50	0	21.68	21.64	21.56	23	1	
10	16QAM	1	0	21.65	21.69	21.69			
10	16QAM	1	25	21.62	21.62	21.70			
10	16QAM	1	49	21.76	21.50	21.86	22	2	
10	16QAM	25	0	20.51	20.59	20.49			
10	16QAM	25	12	20.42	20.51	20.47			



Band 26 for FCC Ant 1														
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up Init. (dB)	APRS (dB)						
Channel														
Frequency (MHz)														
15	QPSK	1	0	22.58	22.62	22.50	23.7	0						
15	QPSK	1	31	22.47	22.48	22.47								
15	QPSK	1	74	22.34	22.45	22.38								
15	QPSK	36	0	21.58	21.73	21.57								
15	QPSK	36	25	21.40	21.47	21.39	23	0.7						
15	QPSK	36	39	21.37	21.49	21.36								
15	QPSK	75	0	21.49	21.65	21.55								
15	16QAM	1	0	21.85	21.86	21.87								
15	16QAM	1	37	21.75	21.87	21.70	23	0.7						
15	16QAM	1	74	21.70	21.88	21.78								
15	16QAM	36	0	20.51	20.58	20.44								
15	16QAM	36	20	20.45	20.51	20.44								
15	16QAM	36	39	20.38	20.41	20.35	22	1.7						
15	16QAM	75	0	20.50	20.42	20.41								
15	64QAM	1	0	20.74	20.81	20.82								
15	64QAM	1	37	20.59	20.89	20.74								
15	64QAM	1	74	20.62	20.84	20.70	21	2.7						
15	64QAM	36	20	19.37	19.38	19.33								
15	64QAM	36	29	19.38	19.45	19.39								
15	256QAM	1	0	17.63	17.73	17.68								
15	256QAM	1	37	17.59	17.63	17.59	19	4.7						
15	256QAM	1	74	17.61	17.64	17.64								
15	256QAM	36	0	17.38	17.53	17.39								
15	256QAM	36	20	17.37	17.43	17.29								
15	256QAM	36	39	17.32	17.45	17.35	19	4.7						
15	256QAM	75	0	17.47	17.43	17.38								
Channel														
Frequency (MHz)														
15	QPSK	1	0	22.59	22.52	22.49			23.7	0				
15	QPSK	1	28	22.35	22.36	22.31								
15	QPSK	1	49	22.39	22.33	22.32								
15	QPSK	25	0	21.72	21.52	21.52								
15	QPSK	25	12	21.47	21.31	21.35	23	0.7						
15	QPSK	25	28	21.38	21.32	21.29								
15	QPSK	50	0	21.64	21.49	21.47								
15	16QAM	1	0	21.91	21.75	21.85								
15	16QAM	1	28	21.81	21.72	21.64	23	0.7						
15	16QAM	1	49	21.83	21.77	21.68								
15	16QAM	25	0	20.55	20.42	20.40								
15	16QAM	25	12	20.50	20.33	20.37								
15	16QAM	25	28	20.36	20.38	20.31	22	1.7						
15	16QAM	50	0	20.34	20.41	20.38								
15	64QAM	1	0	20.78	20.64	20.78								
15	64QAM	1	25	20.60	20.50	20.72								
15	64QAM	1	49	20.54	20.50	20.62	21	2.7						
15	64QAM	25	0	19.42	19.37	19.37								
15	64QAM	25	12	19.37	19.33	19.27								
15	64QAM	25	28	19.30	19.32	19.28								
15	64QAM	50	0	19.40	19.33	19.37	19	4.7						
15	256QAM	1	0	17.65	17.65	17.65								
15	256QAM	1	28	17.56	17.52	17.59								
15	256QAM	1	49	17.68	17.59	17.64								
15	256QAM	36	0	17.62	17.62	17.62	19	4.7						
15	256QAM	36	12	17.41	17.36	17.35								
15	256QAM	36	28	17.38	17.26	17.30								
15	256QAM	36	39	17.46	17.31	17.34								
15	256QAM	75	0	17.38	17.38	17.31	Turn-up	APRS						
Channel														
Frequency (MHz)														
15	QPSK	1	0	22.59	22.56	22.49	23.7	0						
15	QPSK	1	3	22.35	22.44	22.33								
15	QPSK	1	12	22.39	22.33	22.32								
15	QPSK	12	0	21.70	21.54	21.54								
15	QPSK	12	7	21.41	21.31	21.35	23	0.7						
15	QPSK	12	12	21.37	21.31	21.29								
15	QPSK	25	0	21.64	21.43	21.49								
15	16QAM	1	0	21.84	21.78	21.78								
15	16QAM	1	12	21.75	21.72	21.68	23	0.7						
15	16QAM	1	24	21.85	21.65	21.65								
15	16QAM	12	0	20.51	20.48	20.42								
15	16QAM	12	12	20.35	20.35	20.35								
15	16QAM	12	19	20.38	20.28	20.31	22	1.7						
15	16QAM	20	0	20.36	20.45	20.39								
15	16QAM	20	12	20.35	20.37	20.37								
15	16QAM	1	19	20.73	20.57	20.68								
15	64QAM	1	24	20.58	20.63	20.62	21	2.7						
15	64QAM	1	19	20.40	20.30	20.42								
15	64QAM	12	0	19.47	19.35	19.30								
15	64QAM	12	19	19.38	19.38	19.24								
15	256QAM	1	0	17.61	17.61	17.61	19	4.7						
15	256QAM	1	12	17.62	17.57	17.59								
15	256QAM	1	19	17.68	17.58	17.68								
15	256QAM	12	0	17.41	17.36	17.35								
15	256QAM	12	7	17.38	17.26	17.28	19	4.7						
15	256QAM	12	12	17.31	17.27	17.27								
15	256QAM	25	0	17.36	17.35	17.29								
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.59	22.50	22.49	23.7	0						
3	QPSK	1	8	22.35	22.43	22.37								
3	QPSK	1	14	22.42	22.29	22.37								
3	QPSK	3	0	21.61	21.50	21.55								
3	QPSK	8	4	21.43	21.34	21.38	23	0.7						
3	QPSK	8	7	21.45	21.27	21.31								
3	QPSK	15	0	21.53	21.39	21.50								
3	16QAM	1	0	21.93	21.84	21.86								
3	16QAM	1	8	21.86	21.69	21.61	23	0.7						
3	16QAM	1	14	21.88	21.58	21.60								
3	16QAM	8	0	20.47	20.48	20.37								
3	16QAM	8	4	20.43	20.43	20.32								
3	16QAM	8	7	20.38	20.37	20.30	22	1.7						
3	64QAM	1	0	20.74	20.63	20.78								
3	64QAM	1	8	20.74	20.50	20.73								
3	64QAM	1	14	20.56	20.57	20.89								
3	64QAM	8	0	19.43	19.36	19.31	21	2.7						
3	64QAM	8	4	19.47	19.29	19.29								
3	64QAM	8	7	19.31	19.32	19.31								
3	64QAM	15	0	19.44	19.33	19.34								
3	256QAM	1	8	17.60	17.55	17.54	19	4.7						
3	256QAM	1	14	17.61	17.57	17.57								
3	256QAM	8	0	17.42	17.30	17.36								
3	256QAM	8	4	17.39	17.33	17.20								
3	256QAM	8	7	17.43	17.29	17.35	19	4.7						
3	256QAM	15	0	17.43	17.43	17.31								
Channel														
Frequency (MHz)														
14	QPSK	1	0	22.59	22.55	22.49			23.7	0				
14	QPSK	1	3	22.35	22.43	22.41								
14	QPSK	1	5	22.34	22.26	22.31								
14	QPSK	3	0	22.47	22.53	22.41								
14	QPSK	3	1	22.34	22.43	22.29	23	0.7						
14	QPSK	3	3	22.34	22.24	22.29								
14	QPSK	15	0	21.61	21.41	21.53								
14	16QAM	1	0	21.94	21.79	21.81								
14	16QAM	1	3	21.78	21.67	21.68	23	0.7						
14	16QAM	1	5	21.82	21.60	21.67								
14	16QAM	3	0	21.87	21.75	21.77								
14	16QAM	3	1	21.70	21.57	21.60								
14	16QAM	1	0	21.77	21.67	21.67	22	1.7						
14	16QAM	6	0	20.39	20.41	20.32								
14	64QAM	1	0	20.80	20.72	20.71								
14	64QAM	1	8	20.70	20.58	20.66								
14	64QAM	1	5	20.57	20.56	20.66	22	1.7						
14	64QAM	3	0	20.74	20.66	20.69								
14	64QAM	3	1	20.69	20.49	20.68								
14	64QAM	3	3	20.50	20.47	20.56								
14	64QAM	8	0	19.44	19.47	19.35	21	2.7						
14	256QAM	1	0	17.67	17.54	17.67								
14	256QAM	1	3	17.51	17.58	17.47								
14	256QAM	8	0	17.56	17.50	17.38								
14	256QAM	8	1	17.52	17.42	17.32	19	4.7						
14	256QAM	3	0	17.34	17.34	17.23								
14	256QAM	3	3	17.45	17.38	17.25								
14	256QAM	3	5	17.42	17.35	17.25								

Band 71 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dB)	APPR (dB)	
Channel									
Frequency (MHz)				673	680.5	688			
20	QPSK	1	0	21.51	21.75	21.64			
20	QPSK	1	49	21.59	21.61	21.65	21.8	0	
20	QPSK	1	99	21.55	21.69	21.81			
20	QPSK	50	0	21.37	21.61	21.68			
20	QPSK	50	24	21.55	21.42	21.46	21.8	0	
20	QPSK	50	50	21.54	21.45	21.50			
20	QPSK	100	0	21.52	21.41	21.50			
20	16QAM	1	0	21.39	21.32	21.40			
20	16QAM	1	49	21.50	21.38	21.42	21.8	0	
20	16QAM	1	99	21.09	21.09	21.22			
20	16QAM	50	0	20.42	20.50	20.35			
20	16QAM	50	24	20.34	20.49	20.34	21.8	0	
20	16QAM	50	50	20.30	20.41	20.31			
20	16QAM	100	0	20.37	20.39	20.32			
20	64QAM	1	0	20.61	20.71	20.72	21.8	0	
20	64QAM	1	49	20.59	20.76	20.72			
20	64QAM	1	99	20.49	20.64	20.66			
20	64QAM	50	0	19.36	19.44	19.37			
20	64QAM	50	24	19.31	19.34	19.34	21	0.8	
20	64QAM	50	50	19.40	19.27	19.34			
20	64QAM	100	0	19.36	19.39	19.25			
20	256QAM	1	0	17.56	17.69	17.68			
20	256QAM	1	49	17.61	17.55	17.64	19	2.8	
20	256QAM	1	99	17.55	17.57	17.61			
20	256QAM	50	0	17.26	17.42	17.38			
20	256QAM	50	24	17.24	17.38	17.21	19	2.8	
20	256QAM	50	50	17.35	17.33	17.22			
20	256QAM	100	0	17.35	17.40	17.24			
Channel									
Frequency (MHz)				670.5	680.5	680.5	Tune-up limit (dB)	APPR (dB)	
15	QPSK	1	0	21.36	21.60	21.59			
15	QPSK	1	37	21.45	21.55	21.57	21.8	0	
15	QPSK	1	74	21.47	21.47	21.46			
15	QPSK	36	0	21.27	21.51	21.42			
15	QPSK	36	20	21.48	21.28	21.34	21.8	0	
15	QPSK	36	39	21.40	21.39	21.39			
15	QPSK	75	0	21.21	21.29	21.21			
15	16QAM	1	0	21.29	21.17	21.33			
15	16QAM	1	37	21.34	21.26	21.26	21.8	0	
15	16QAM	1	74	21.00	21.04	21.15			
15	16QAM	36	0	20.32	20.39	20.32			
15	16QAM	36	20	20.31	20.45	20.28	21.8	0	
15	16QAM	36	39	20.25	20.31	20.23			
15	16QAM	75	0	20.34	20.37	20.24			
15	64QAM	1	0	20.60	20.59	20.62	21.8	0	
15	64QAM	1	37	20.54	20.65	20.65			
15	64QAM	1	74	20.47	20.55	20.55			
15	64QAM	36	0	19.31	19.38	19.33			
15	64QAM	36	20	19.36	19.36	19.36	21	0.8	
15	64QAM	36	39	19.35	19.15	19.15			
15	64QAM	75	0	19.35	19.35	19.17			
15	256QAM	1	0	17.54	17.50	17.40			
15	256QAM	1	37	17.58	17.55	17.59	19	2.8	
15	256QAM	1	74	17.48	17.48	17.57			
15	256QAM	36	0	17.50	17.32	17.36			
15	256QAM	36	20	17.23	17.31	17.13	19	2.8	
15	256QAM	36	39	17.31	17.29	17.18			
15	256QAM	75	0	17.34	17.30	17.29			
Channel									
Frequency (MHz)				668	676	683	Tune-up limit (dB)	APPR (dB)	
10	QPSK	1	0	21.39	21.59	21.68			
10	QPSK	1	25	21.53	21.45	21.57	21.8	0	
10	QPSK	1	49	21.48	21.45	21.37			
10	QPSK	25	0	21.23	21.47	21.42			
10	QPSK	25	12	21.49	21.31	21.32	21.8	0	
10	QPSK	25	25	21.48	21.32	21.40			
10	QPSK	50	0	21.25	21.31	21.39			
10	16QAM	1	0	21.34	21.18	21.27			
10	16QAM	1	25	21.37	21.31	21.36	21.8	0	
10	16QAM	1	49	21.02	21.05	21.18			
10	16QAM	25	0	20.41	20.35	20.33			
10	16QAM	25	12	20.24	20.37	20.22	21.8	0	
10	16QAM	50	25	20.36	20.38	20.33			
10	16QAM	50	0	20.32	20.38	20.30			
10	64QAM	1	0	20.59	20.63	20.61	21.8	0	
10	64QAM	1	25	20.57	20.66	20.70			
10	64QAM	1	49	20.40	20.64	20.65			
10	64QAM	25	0	19.35	19.36	19.32			
10	64QAM	25	12	19.29	19.28	19.27	21	0.8	
10	64QAM	25	25	19.39	19.17	19.12			
10	64QAM	50	0	19.31	19.29	19.16			
10	256QAM	1	0	17.44	17.52	17.55			
10	256QAM	1	25	17.58	17.52	17.54	19	2.8	
10	256QAM	1	49	17.50	17.52	17.58			
10	256QAM	25	0	17.22	17.24	17.28			
10	256QAM	25	12	17.17	17.27	17.18	19	2.8	
10	256QAM	25	25	17.28	17.21	17.16			
10	256QAM	50	0	17.25	17.42	17.25			
Channel									
Frequency (MHz)				665.5	676.5	685.5	Tune-up limit (dB)	APPR (dB)	
5	QPSK	1	0	21.42	21.65	21.54			
5	QPSK	1	12	21.52	21.53	21.54	21.8	0	
5	QPSK	1	24	21.45	21.48	21.45			
5	QPSK	12	0	21.53	21.45	21.50			
5	QPSK	12	7	21.45	21.27	21.36	21.8	0	
5	QPSK	12	13	21.48	21.36	21.45			
5	QPSK	25	0	21.28	21.36	21.26			
5	16QAM	1	0	21.27	21.20	21.25			
5	16QAM	1	12	21.37	21.22	21.29	21.8	0	
5	16QAM	1	24	20.95	21.03	21.08			
5	16QAM	12	0	20.38	20.44	20.28			
5	16QAM	12	7	20.23	20.45	20.29	21.8	0	
5	16QAM	12	13	20.26	20.34	20.27			
5	16QAM	25	0	20.28	20.30	20.25			
5	64QAM	1	0	20.51	20.66	20.64	21.8	0	
5	64QAM	1	12	20.52	20.71	20.60			
5	64QAM	1	24	20.42	20.55	20.58			
5	64QAM	12	0	19.31	19.38	19.36			
5	64QAM	12	7	19.20	19.27	19.16	21	0.8	
5	64QAM	12	13	19.33	19.17	19.17			
5	64QAM	25	0	19.29	19.26	19.22			
5	256QAM	1	0	17.53	17.57	17.63			
5	256QAM	1	12	17.54	17.49	17.56	19	2.8	
5	256QAM	1	24	17.50	17.47	17.52			
5	256QAM	12	0	17.21	17.20	17.52			
5	256QAM	12	7	17.21	17.28	17.69	19	2.8	
5	256QAM	12	13	17.29	17.26	17.21			
5	256QAM	25	0	17.31	17.35	17.53			



Band 38 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37465	38050	38150			
20	QPSK	1	0	19.73	19.85	19.73	20.5	0	
20	QPSK	1	49	19.80	19.89	19.82			
20	QPSK	50	0	19.86	19.98	19.92	20.5	0	
20	QPSK	50	0	19.86	19.92	19.71			
20	QPSK	50	24	19.81	19.88	19.72	20.5	0	
20	QPSK	50	49	19.76	19.81	19.85			
20	QPSK	100	0	19.43	19.64	19.43	20.5	0	
20	QPSK	100	0	19.66	19.67	19.65			
20	QPSK	100	49	19.66	19.67	19.62	20.5	0	
20	QPSK	100	49	19.66	19.67	19.62			
20	QPSK	100	99	19.66	19.69	19.56	20.5	0	
20	QPSK	100	99	19.66	19.69	19.56			
20	QPSK	50	24	19.30	19.36	19.26	20.5	0	
20	QPSK	50	24	19.30	19.36	19.26			
20	QPSK	50	50	19.55	19.55	19.50	20.5	0	
20	QPSK	50	50	19.55	19.55	19.50			
20	QPSK	100	0	19.26	19.26	19.26	20.5	0	
20	QPSK	100	0	19.26	19.26	19.26			
20	QPSK	100	49	19.79	19.85	19.73	19	1.5	
20	QPSK	100	49	19.79	19.85	19.73			
20	QPSK	100	99	19.77	19.83	19.78	19	1.5	
20	QPSK	100	99	19.77	19.83	19.78			
20	QPSK	50	0	19.45	19.45	19.45	19	1.5	
20	QPSK	50	0	19.45	19.45	19.45			
20	QPSK	50	24	17.52	17.56	17.40	19	1.5	
20	QPSK	50	24	17.52	17.56	17.40			
20	QPSK	50	50	17.60	17.65	17.51	19	1.5	
20	QPSK	50	50	17.60	17.65	17.51			
20	QPSK	100	0	17.00	17.00	17.00			
20	QPSK	100	0	17.00	17.00	17.00			
Channel									
Frequency (MHz)				37455	38050	38175	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	19.12	19.15	19.12	20.5	0	
15	QPSK	1	37	19.76	19.71	19.81			
15	QPSK	1	74	19.66	19.70	19.72	20.5	0	
15	QPSK	1	74	19.66	19.70	19.72			
15	QPSK	36	0	19.51	19.79	19.66	20.5	0	
15	QPSK	36	20	19.64	19.54	19.66			
15	QPSK	36	36	19.40	19.49	19.39	20.5	0	
15	QPSK	36	36	19.40	19.49	19.39			
15	QPSK	75	0	19.45	19.45	19.50	20.5	0	
15	QPSK	75	0	19.45	19.45	19.50			
15	QPSK	75	37	19.52	19.62	19.55	20.5	0	
15	QPSK	75	37	19.52	19.62	19.55			
15	QPSK	75	74	19.25	19.28	19.34	20.5	0	
15	QPSK	75	74	19.25	19.28	19.34			
15	QPSK	36	0	19.50	19.26	19.41	20.5	0	
15	QPSK	36	0	19.50	19.26	19.41			
15	QPSK	36	36	19.47	19.46	19.39	20.5	0	
15	QPSK	36	36	19.47	19.46	19.39			
15	QPSK	75	0	19.22	19.33	19.43	20.5	0	
15	QPSK	75	0	19.22	19.33	19.43			
15	QPSK	75	37	19.45	19.49	19.45	20.5	0	
15	QPSK	75	37	19.45	19.49	19.45			
15	QPSK	75	74	19.50	19.29	19.45	20.5	0	
15	QPSK	75	74	19.50	19.29	19.45			
15	QPSK	100	0	19.50	19.35	19.42	20.5	0	
15	QPSK	100	0	19.50	19.35	19.42			
15	QPSK	100	36	19.22	19.25	19.35	20.5	0	
15	QPSK	100	36	19.22	19.25	19.35			
15	QPSK	100	74	19.51	19.15	19.35	20.5	0	
15	QPSK	100	74	19.51	19.15	19.35			
15	QPSK	36	0	19.51	19.29	19.34	20.5	0	
15	QPSK	36	0	19.51	19.29	19.34			
15	QPSK	36	36	19.45	19.45	19.39	20.5	0	
15	QPSK	36	36	19.45	19.45	19.39			
15	QPSK	75	0	19.41	19.15	19.35	19	1.5	
15	QPSK	75	0	19.41	19.15	19.35			
15	QPSK	75	37	17.71	17.62	17.82	19	1.5	
15	QPSK	75	37	17.71	17.62	17.82			
15	QPSK	75	74	17.77	17.77	17.77	19	1.5	
15	QPSK	75	74	17.77	17.77	17.77			
15	QPSK	36	0	17.53	17.62	17.53	19	1.5	
15	QPSK	36	0	17.53	17.62	17.53			
15	QPSK	36	36	17.48	17.45	17.51	19	1.5	
15	QPSK	36	36	17.48	17.45	17.51			
15	QPSK	75	0	17.50	17.54	17.47			
15	QPSK	75	0	17.50	17.54	17.47			
Channel									
Frequency (MHz)				37465	38050	38225	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	19.52	19.52	19.51	20.5	0	
5	QPSK	1	12	19.73	19.67	19.74			
5	QPSK	1	24	19.67	19.59	19.61	20.5	0	
5	QPSK	1	24	19.67	19.59	19.61			
5	QPSK	12	0	19.48	19.73	19.62	20.5	0	
5	QPSK	12	7	19.60	19.55	19.61			
5	QPSK	12	13	19.59	19.52	19.54	20.5	0	
5	QPSK	12	13	19.59	19.52	19.54			
5	QPSK	25	0	19.42	19.55	19.33	20.5	0	
5	QPSK	25	0	19.42	19.55	19.33			
5	QPSK	25	7	19.65	19.48	19.47	20.5	0	
5	QPSK	25	7	19.65	19.48	19.47			
5	QPSK	1	12	19.53	19.51	19.52	20.5	0	
5	QPSK	1	12	19.53	19.51	19.52			
5	QPSK	12	0	19.30	19.33	19.40	20.5	0	
5	QPSK	12	0	19.30	19.33	19.40			
5	QPSK	12	7	19.48	19.21	19.41	20.5	0	
5	QPSK	12	7	19.48	19.21	19.41			
5	QPSK	12	13	19.45	19.37	19.46	20.5	0	
5	QPSK	12	13	19.45	19.37	19.46			
5	QPSK	25	0	19.29	19.24	19.34	20.5	0	
5	QPSK	25	0	19.29	19.24	19.34			
5	QPSK	1	0	19.43	19.43	19.25	20.5	0	
5	QPSK	1	0	19.43	19.43	19.25			
5	QPSK	12	0	19.40	19.31	19.46	20.5	0	
5	QPSK	12	0	19.40	19.31	19.46			
5	QPSK	12	7	19.46	19.25	19.34	20.5	0	
5	QPSK	12	7	19.46	19.25	19.34			
5	QPSK	12	13	19.24	19.31	19.44	20.5	0	
5	QPSK	12	13	19.24	19.31	19.44			
5	QPSK	25	0	19.37	19.39	19.38	20.5	0	

Band 7 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	23.03	23.08	22.96	24	0	
20	QPSK	1	49	22.91	22.89	22.79			
20	QPSK	1	99	22.75	22.92	22.81			
20	QPSK	50	0	21.94	22.11	22.08			
20	QPSK	50	24	21.85	21.93	21.84	23	1	
20	QPSK	50	50	21.88	21.92	21.81			
20	QPSK	100	0	21.95	22.09	22.02			
20	16QAM	1	0	22.20	22.40	22.24			
20	16QAM	1	49	22.21	22.31	22.17	23	1	
20	16QAM	1	99	22.23	22.29	22.20			
20	16QAM	50	0	20.91	20.95	20.88			
20	16QAM	50	24	20.89	21.03	20.80			
20	16QAM	50	50	20.75	20.91	20.89	22	2	
20	16QAM	100	0	20.90	20.93	20.88			
20	64QAM	1	0	21.12	21.26	21.27			
20	64QAM	1	49	21.06	21.15	21.15			
20	64QAM	1	99	21.08	21.18	21.16	22	2	
20	64QAM	50	0	19.86	19.91	19.87			
20	64QAM	50	24	19.87	19.84	19.71			
20	64QAM	50	50	19.83	19.87	19.74			
20	64QAM	100	0	19.83	19.91	19.75	21	3	
20	256QAM	1	0	18.15	18.19	18.07			
20	256QAM	1	49	18.04	18.08	18.00			
20	256QAM	1	99	18.07	18.00	18.12			
20	256QAM	50	0	17.82	17.93	17.88	19	5	
20	256QAM	50	24	17.74	17.83	17.66			
20	256QAM	50	50	17.78	17.84	17.82			
20	256QAM	100	0	17.93	17.92	17.81			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	22.99	23.06	22.85		24	
15	QPSK	1	37	22.90	22.89	22.77			
15	QPSK	1	74	22.67	22.85	22.70			
15	QPSK	36	0	21.90	22.07	21.99			
15	QPSK	36	20	21.74	21.92	21.83	23	1	
15	QPSK	36	39	21.76	21.83	21.73			
15	QPSK	75	0	21.88	22.00	22.00			
15	16QAM	1	0	22.09	22.38	22.20			
15	16QAM	1	37	22.16	22.22	22.10	23	1	
15	16QAM	1	74	22.15	22.18	22.09			
15	16QAM	36	0	20.91	20.89	20.88			
15	16QAM	36	20	20.82	20.95	20.78			
15	16QAM	36	39	20.88	20.85	20.86	22	2	
15	16QAM	75	0	20.85	20.87	20.84			
15	64QAM	1	0	21.03	21.23	21.17			
15	64QAM	1	37	21.04	21.15	21.12			
15	64QAM	1	74	21.06	21.08	21.12	22	2	
15	64QAM	36	0	19.81	19.90	19.80			
15	64QAM	36	20	19.85	19.75	19.71			
15	64QAM	36	39	19.77	19.86	19.63			
15	64QAM	75	0	19.78	19.87	19.72	21	3	
15	256QAM	1	0	18.15	18.18	17.97			
15	256QAM	1	37	17.99	17.97	17.90			
15	256QAM	1	74	17.98	17.92	18.05			
15	256QAM	36	0	17.77	17.92	17.82	19	5	
15	256QAM	36	20	17.70	17.78	17.61			
15	256QAM	36	39	17.74	17.83	17.74			
15	256QAM	75	0	17.88	17.92	17.73			
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	22.93	22.99	22.90		24	
10	QPSK	1	25	22.87	22.78	22.74			
10	QPSK	1	49	22.69	22.82	22.71			
10	QPSK	25	0	21.86	22.07	22.00			
10	QPSK	25	12	21.84	21.85	21.78	23	1	
10	QPSK	25	25	21.87	21.89	21.74			
10	QPSK	50	0	21.86	22.04	21.96			
10	16QAM	1	0	22.17	22.37	22.20			
10	16QAM	1	25	22.16	22.31	22.10	23	1	
10	16QAM	1	49	22.14	22.24	22.16			
10	16QAM	25	0	20.90	20.84	20.80			
10	16QAM	25	12	20.81	20.98	20.72			
10	16QAM	25	25	20.71	20.81	20.84	22	2	
10	16QAM	50	0	20.78	20.82	20.81			
10	64QAM	1	0	21.03	21.16	21.23			
10	64QAM	1	25	21.04	21.09	21.07			
10	64QAM	1	49	21.05	21.07	21.06	22	2	
10	64QAM	25	0	19.77	19.84	19.82			
10	64QAM	25	12	19.81	19.73	19.63			
10	64QAM	25	25	19.77	19.78	19.67			
10	64QAM	50	0	19.82	19.88	19.65	19	5	
10	256QAM	1	0	18.14	18.09	18.01			
10	256QAM	1	25	17.97	18.04	17.90			
10	256QAM	1	49	18.06	17.99	18.09			
10	256QAM	25	0	17.76	17.85	17.82	19	5	
10	256QAM	25	12	17.67	17.78	17.66			
10	256QAM	25	25	17.70	17.83	17.81			
10	256QAM	50	0	17.86	17.84	17.74			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	22.94	23.01	22.84		24	
5	QPSK	1	12	22.84	22.85	22.78			
5	QPSK	1	24	22.67	22.85	22.77			
5	QPSK	12	0	21.87	22.08	22.07			
5	QPSK	12	7	21.75	21.87	21.81	23	1	
5	QPSK	12	13	21.84	21.91	21.71			
5	QPSK	25	0	21.86	22.02	21.90			
5	16QAM	1	0	22.16	22.40	22.15			
5	16QAM	1	12	22.16	22.22	22.07	23	1	
5	16QAM	1	24	22.20	22.27	22.09			
5	16QAM	12	0	20.88	20.83	20.85			
5	16QAM	12	7	20.82	20.99	20.69			
5	16QAM	12	13	20.72	20.83	20.85	22	2	
5	16QAM	25	0	20.83	20.83	20.88			
5	64QAM	1	0	21.04	21.26	21.27			
5	64QAM	1	12	21.04	21.10	21.11			
5	64QAM	1	24	20.97	21.15	21.10	21	3	
5	64QAM	12	0	19.84	19.84	19.82			
5	64QAM	12	7	19.80	19.73	19.65			
5	64QAM	12	13	19.71	19.83	19.67			
5	64QAM	25	0	19.81	19.83	19.66	19	5	
5	256QAM	1	0	18.05	18.15	18.05			
5	256QAM	1	12	17.95	18.04	17.91			
5	256QAM	1	24	18.01	17.92	18.09			
5	256QAM	12	0	17.82	17.83	17.79	19	5	
5	256QAM	12	7	17.69	17.75	17.64			
5	256QAM	12	13	17.75	17.82	17.77			
5	256QAM	25	0	17.84	17.82	17.81			

Band 30 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				27710					
Frequency (MHz)				2310					
10	QPSK	1	0		23.09		24	0	
10	QPSK	1	25		22.89				
10	QPSK	1	49		22.91				
10	QPSK	25	0		22.09				
10	QPSK	25	12		21.92		23	1	
10	QPSK	25	25		21.84				
10	QPSK	50	0		22.04				
10	16QAM	1	0		22.36				
10	16QAM	1	25		22.36		23	1	
10	16QAM	1	49		22.33				
10	16QAM	25	0		20.97				
10	16QAM	25	12		20.91				
10	16QAM	25	25		20.89		22	2	
10	16QAM	50	0		20.93				
10	64QAM	1	0		21.28				
10	64QAM	1	25		21.23				
10	64QAM	1	49		21.09		22	2	
10	64QAM	25	0		19.92				
10	64QAM	25	12		19.85				
10	64QAM	25	25		19.83				
10	64QAM	50	0		19.88		21	3	
10	256QAM	1	0		18.10				
10	256QAM	1	25		18.14				
10	256QAM	1	49		18.07				
10	256QAM	25	0		17.92		19	5	
10	256QAM	25	12		17.80				
10	256QAM	25	25		17.91				
10	256QAM	50	0		17.84				
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	0	23.04	23.04	23.03	24	0	
5	QPSK	1	12	22.81	22.88	22.78			
5	QPSK	1	24	22.86	22.81	22.88			
5	QPSK	12	0	22.07	21.99	22.05			
5	QPSK	12	7	21.85	21.80	21.92	23	1	
5	QPSK	12	13	21.73	21.79	21.75			
5	QPSK	25	0	22.00	22.01	21.96			
5	16QAM	1	0	22.33	22.33	22.35			
5	16QAM	1	12	22.25	22.26	22.33	23	1	
5	16QAM	1	24	22.23	22.29	22.22			
5	16QAM	12	0	20.91	20.96	20.92			
5	16QAM	12	7	20.88	20.90	20.82			
5	16QAM	12	13	20.86	20.84	20.78	22	2	
5	16QAM	25	0	20.89	20.86	20.83			
5	64QAM	1	0	21.22	21.24	21.22			
5	64QAM	1	12	21.22	21.17	21.21			
5	64QAM	1	24	20.99	21.01	21.00	22	2	
5	64QAM	12	0	19.84	19.80	19.91			
5	64QAM	12	7	19.74	19.83	19.74			
5	64QAM	12	13	19.76	19.80	19.71			
5	64QAM	25	0	19.83	19.79	19.85	21	3	
5	256QAM	1	0	18.04	18.04	18.05			
5	256QAM	1	12	18.14	18.10	18.09			
5	256QAM	1	24	17.98	18.03	18.03			
5	256QAM	12	0	17.91	17.91	17.85	19	5	
5	256QAM	12	7	17.71	17.79	17.79			
5	256QAM	12	13	17.85	17.81	17.85			
5	256QAM	25	0	17.72	17.80	17.72			



Band 38 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)				37965	38050	38135			
20	QPSK	1	0	22.57	22.63	22.69	24	0	
20	QPSK	1	48	22.44	22.47	22.39			
20	QPSK	1	96	22.35	22.47	22.58			
20	QPSK	50	0	21.57	21.58	21.61			
20	QPSK	50	24	21.41	21.53	21.39	23	1	
20	QPSK	50	48	21.71	21.67	21.66			
20	QPSK	100	0	21.52	21.55	21.56			
20	16QAM	1	0	21.80	21.87	21.78	23	1	
20	16QAM	1	48	21.71	21.74	21.60			
20	16QAM	1	96	21.74	21.84	21.76	22	2	
20	16QAM	50	0	20.47	20.50	20.38			
20	16QAM	50	24	20.35	20.51	20.37	22	2	
20	16QAM	50	50	20.29	20.42	20.34			
20	16QAM	100	0	20.44	20.49	20.35	22	2	
20	16QAM	100	1	20.55	20.57	20.37			
20	64QAM	1	0	20.62	20.71	20.76	22	2	
20	64QAM	1	48	20.56	20.67	20.70			
20	64QAM	1	96	20.52	20.58	20.70	22	2	
20	64QAM	50	0	19.49	19.53	19.45			
20	64QAM	50	24	19.34	19.48	19.35	21	3	
20	64QAM	50	50	19.41	19.53	19.35			
20	64QAM	100	0	19.35	19.45	19.27	19	5	
20	256QAM	1	0	17.87	17.85	17.70			
20	256QAM	1	48	17.77	17.79	17.68	19	5	
20	256QAM	1	96	17.65	17.58	17.62			
20	256QAM	50	0	17.44	17.44	17.39	19	5	
20	256QAM	50	24	17.38	17.33	17.34			
20	256QAM	50	48	17.35	17.44	17.32	19	5	
20	256QAM	50	50	17.35	17.44	17.32			
20	256QAM	100	0	17.48	17.43	17.34	19	5	
20	256QAM	100	1	17.52	17.55	17.39			
20	256QAM	100	1	17.52	17.55	17.39			
Channel									
Frequency (MHz)				37925	38050	38175	Tune-up limit (dBm)	MFR (dB)	
15	QPSK	1	0	22.73	22.75	22.81	24	0	
15	QPSK	1	37	22.38	22.39	22.34			
15	QPSK	1	74	22.28	22.38	22.35	23	1	
15	QPSK	36	0	21.55	21.60	21.68			
15	QPSK	36	20	21.35	21.41	21.36	23	1	
15	QPSK	36	36	21.46	21.56	21.45			
15	QPSK	75	0	21.45	21.56	21.45	23	1	
15	QPSK	75	1	21.69	21.54	21.73			
15	QPSK	75	37	21.56	21.51	21.61	23	1	
15	QPSK	75	74	21.65	21.75	21.72			
15	QPSK	36	50	20.40	20.42	20.27	22	2	
15	QPSK	36	20	20.32	20.35	20.24			
15	QPSK	36	36	20.26	20.33	20.31	22	2	
15	QPSK	75	0	20.44	20.40	20.27			
15	QPSK	75	0	19.38	19.50	19.36	21	3	
15	QPSK	75	1	20.54	20.69	20.69			
15	64QAM	1	37	20.54	20.69	20.69	22	2	
15	64QAM	1	74	20.51	20.62	20.66			
15	64QAM	36	50	19.38	19.50	19.36	21	3	
15	64QAM	36	20	19.29	19.49	19.35			
15	64QAM	36	36	19.25	19.37	19.34	19	5	
15	64QAM	75	0	19.31	19.37	19.15			
15	256QAM	1	37	17.57	17.66	17.66	19	5	
15	256QAM	1	74	17.57	17.69	17.65			
15	256QAM	1	96	17.46	17.51	17.56	19	5	
15	256QAM	36	20	17.34	17.32	17.27			
15	256QAM	36	36	17.34	17.36	17.27	19	5	
15	256QAM	75	0	17.40	17.41	17.28			
Channel									
Frequency (MHz)				37960	38050	38090	Tune-up limit (dBm)	MFR (dB)	
10	QPSK	1	0	22.51	22.54	22.57	24	0	
10	QPSK	1	25	22.39	22.34	22.38			
10	QPSK	1	48	22.30	22.45	22.28	23	1	
10	QPSK	25	0	21.52	21.57	21.52			
10	QPSK	25	12	21.32	21.44	21.37	23	1	
10	QPSK	25	25	21.30	21.29	21.32			
10	QPSK	50	0	20.78	20.79	20.78	23	1	
10	QPSK	50	24	21.78	21.64	21.57			
10	16QAM	1	0	21.51	21.60	21.68	23	1	
10	16QAM	1	48	21.71	21.79	21.73			
10	16QAM	1	96	21.74	22.04	21.67	23	1	
10	16QAM	25	0	20.46	20.49	20.44			
10	16QAM	25	12	20.34	20.44	20.36	23	1	
10	16QAM	25	25	20.36	20.44	20.36			
10	16QAM	50	0	20.51	20.53	20.28	22	2	
10	16QAM	50	24	20.47	20.52	20.60			
10	16QAM	50	48	20.32	20.48	20.34	22	2	
10	16QAM	50	50	20.47	20.50	20.43			
10	64QAM	1	0	20.65	20.74	20.66	22	2	
10	64QAM	1	25	20.52	20.67	20.62			
10	64QAM	1	48	20.62	20.69	20.62	22	2	
10	64QAM	25	0	19.44	19.43	19.39			
10	64QAM	25	12	19.27	19.40	19.29	21	3	
10	64QAM	25	25	19.29	19.32	19.30			
10	64QAM	50	0	19.31	19.34	19.20	21	3	
10	64QAM	50	24	19.34	19.37	19.44			
10	256QAM	1	25	17.53	17.64	17.64	19	5	
10	256QAM	1	48	17.55	17.66	17.66			
10	256QAM	1	96	17.47	17.58	17.68	19	5	
10	256QAM	25	0	17.37	17.38	17.25			
10	256QAM	25	12	17.36	17.31	17.19	19	5	
10	256QAM	25	25	17.31	17.42	17.22			
10	256QAM	50	0	17.43	17.49	17.41	19	5	
10	256QAM	50	0	17.43	17.49	17.41			
10	256QAM	50	0	17.43	17.49	17.41			
Channel									
Frequency (MHz)				37975	38060	38225	Tune-up limit (dBm)	MFR (dB)	
5	QPSK	1	0	22.65	22.66	22.67	24	0	
5	QPSK	1	12	22.45	22.38	22.37			
5	QPSK	1	24	22.42	22.43	22.41	23	1	
5	QPSK	12	0	21.65	21.69	21.67			
5	QPSK	12	7	21.54	21.69	21.57	23	1	
5	QPSK	12	13	21.53	21.48	21.45			
5	QPSK	25	0	21.46	21.59	21.46	23	1	
5	QPSK	25	7	21.75	21.68	21.71			
5	16QAM	1	0	21.75	21.89	21.72	23	1	
5	16QAM	1	24	21.64	21.83	21.76			
5	16QAM	1	48	21.75	21.86	21.76	23	1	
5	16QAM	12	7	20.39	20.44	20.34			
5	16QAM	12	13	20.36	20.41	20.32	22	2	
5	16QAM	25	0	20.38	20.47	20.35			
5	64QAM	1	0	20.60	20.61	20.77	22	2	
5	64QAM	1	12	20.50	20.67	20.76			
5	64QAM	1	24	20.50	20.67	20.74	22	2	
5	64QAM	12	13	19.41	19.42	19.34			
5	64QAM	12	0	19.39	19.43	19.31	21	3	
5	64QAM	12	7	19.38	19.40	19.34			
5	256QAM	1	12	17.53	17.63	17.63	19	5	
5	256QAM	1	24	17.54	17.63	17.60			
5	256QAM	1	48	17.47	17.58	17.68	19	5	
5	256QAM	12	0	17.37	17.38	17.22			
5	256QAM	12	7	17.38	17.32	17.23	19	5	
5	256QAM	12	13	17.30	17.36	17.29			
5	256QAM	25	0	17.47	17.49	17.29	19	5	

Band 42 FCC Part27Q Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPP (dB)	
Channel				42190	42660	42990			
Frequency (MHz)				3417.5	3417.5	3417.5			
20	QPSK	1	0	23.13	23.15	23.50	24	0	
20	QPSK	1	49	23.01	23.02	22.91			
20	QPSK	1	86	23.01	22.96	23.38			
20	QPSK	50	0	22.16	22.19	22.11			
20	QPSK	50	24	22.01	22.04	21.80	23	1	
20	QPSK	50	50	21.90	21.98	21.92			
20	QPSK	100	0	22.16	22.18	21.99			
20	16QAM	1	0	22.48	22.41	22.34			
20	16QAM	1	49	22.43	22.35	22.28	23	1	
20	16QAM	1	99	22.37	22.43	22.26			
20	16QAM	50	0	21.03	21.04	20.86			
20	16QAM	50	24	21.01	21.07	20.85			
20	16QAM	50	50	20.92	20.90	20.94	22	2	
20	16QAM	100	0	20.96	20.96	20.98			
20	64QAM	1	0	21.27	21.27	21.34			
20	64QAM	1	49	21.27	21.28	21.19			
20	64QAM	1	99	21.17	21.15	21.28	21	3	
20	64QAM	50	0	20.01	19.97	19.96			
20	64QAM	50	24	19.98	19.89	19.83			
20	64QAM	50	50	19.87	19.83	19.89			
20	64QAM	100	0	19.96	19.95	19.84	19	5	
20	256QAM	1	0	18.24	18.17	18.14			
20	256QAM	1	49	18.20	18.16	18.07			
20	256QAM	1	99	18.08	18.14	18.12			
20	256QAM	50	0	17.86	17.87	17.88	19	5	
20	256QAM	50	24	17.85	17.89	17.75			
20	256QAM	50	50	17.82	17.90	17.80			
20	256QAM	100	0	17.86	18.01	17.88			
Channel				42165	42665	43015			
Frequency (MHz)				3417.5	3417.5	3417.5			
15	QPSK	1	0	23.18	23.10	23.57	24	0	
15	QPSK	1	37	22.94	22.84	22.89			
15	QPSK	1	74	22.92	22.92	22.70			
15	QPSK	36	0	22.03	22.13	22.06			
15	QPSK	36	20	21.90	21.99	21.85	23	1	
15	QPSK	36	36	21.91	21.88	21.88			
15	QPSK	75	0	22.06	21.98	21.90			
15	16QAM	1	0	22.38	22.33	22.27			
15	16QAM	1	37	22.38	22.37	22.22	23	1	
15	16QAM	1	74	22.35	22.31	22.20			
15	16QAM	36	0	21.00	20.91	20.77			
15	16QAM	36	20	20.98	20.94	20.82			
15	16QAM	36	36	20.80	20.87	20.80	22	2	
15	16QAM	75	0	20.91	20.92	20.76			
15	64QAM	1	0	21.25	21.13	21.31			
15	64QAM	1	37	21.15	21.19	21.09			
15	64QAM	1	74	21.13	21.07	21.16	21	3	
15	64QAM	36	0	19.83	19.92	19.83			
15	64QAM	36	20	19.91	19.83	18.72			
15	64QAM	36	36	19.82	19.75	19.75			
15	64QAM	75	0	19.85	19.92	19.81	19	5	
15	256QAM	1	0	18.16	18.10	18.04			
15	256QAM	1	37	18.10	18.06	18.00			
15	256QAM	1	74	18.07	18.12	18.02			
15	256QAM	36	0	17.94	17.91	17.87	19	5	
15	256QAM	36	20	17.73	17.82	17.70			
15	256QAM	36	36	17.86	17.77	17.76			
15	256QAM	75	0	17.87	17.93	17.83			
Channel				42160	42660	43040			
Frequency (MHz)				3455	3450	3454			
10	QPSK	1	0	23.04	23.19	22.84	24	0	
10	QPSK	1	25	22.90	22.94	22.79			
10	QPSK	1	49	22.68	22.94	22.71			
10	QPSK	36	0	22.06	22.06	22.08			
10	QPSK	25	12	21.89	21.94	21.80	23	1	
10	QPSK	25	25	21.92	21.95	21.81			
10	QPSK	60	0	22.02	22.06	21.95			
10	16QAM	1	0	22.37	22.27	22.26			
10	16QAM	1	25	22.41	22.27	22.22	23	1	
10	16QAM	1	49	22.36	22.35	22.31			
10	16QAM	25	0	20.93	20.95	20.80			
10	16QAM	25	12	20.87	21.03	20.72			
10	16QAM	25	25	20.89	20.84	20.86	22	2	
10	16QAM	50	0	20.89	20.85	20.75			
10	64QAM	1	0	21.14	21.22	21.22			
10	64QAM	1	25	21.24	21.22	21.13			
10	64QAM	1	49	21.10	21.09	21.19	22	2	
10	64QAM	25	0	19.87	19.85	19.81			
10	64QAM	25	12	19.90	19.75	19.75			
10	64QAM	25	25	19.74	19.71	19.83			
10	64QAM	50	0	19.90	19.83	19.81	21	3	
10	256QAM	1	0	18.10	18.05	18.11			
10	256QAM	1	25	18.09	18.08	17.85			
10	256QAM	1	49	18.02	18.01	18.00			
10	256QAM	25	0	17.85	17.93	17.76	19	5	
10	256QAM	25	12	17.80	17.80	17.68			
10	256QAM	25	25	17.85	17.78	17.75			
10	256QAM	50	0	17.80	17.85	17.74			
Channel				3451.5	3450	3547.5			
Frequency (MHz)				3452.5	3450	3547.5			
5	QPSK	1	0	23.08	23.02	22.88	24	0	
5	QPSK	1	12	22.97	22.91	22.83			
5	QPSK	1	24	22.92	22.92	22.89			
5	QPSK	12	0	22.03	22.15	21.86			
5	QPSK	12	7	21.95	22.01	21.83	23	1	
5	QPSK	12	13	21.95	21.85	21.78			
5	QPSK	25	0	22.03	22.06	21.92			
5	16QAM	1	0	22.39	22.31	22.20			
5	16QAM	1	12	22.38	22.25	22.15	23	1	
5	16QAM	1	24	22.34	22.36	22.20			
5	16QAM	12	0	20.88	21.02	20.77			
5	16QAM	12	7	20.88	20.99	20.72			
5	16QAM	12	13	20.84	20.84	20.50	22	2	
5	16QAM	25	0	20.89	20.83	20.85			
5	64QAM	1	0	21.22	21.19	21.28			
5	64QAM	1	12	21.16	21.19	21.09			
5	64QAM	1	24	21.08	21.11	21.18	22	2	
5	64QAM	12	0	19.87	19.84	19.82			
5	64QAM	12	7	19.91	19.89	19.76			
5	64QAM	25	0	19.86	19.92	19.71			
5	256QAM	1	0	18.17	18.07	18.01	21	3	
5	256QAM	1	12	18.12	18.07	17.89			
5	256QAM	1	24	17.89	18.02	17.89			
5	256QAM	12	0	17.86	17.85	17.83			
5	256QAM	12	7	17.84	17.81	17.86	19	5	
5	256QAM	12	13	17.80	17.81	17.73			
5	256QAM	25	0	17.84	17.99	17.84			

Band 48_FCC Ant 2											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Mid/H Ch / Freq	Power Low Mid/H Ch / Freq	Power High Mid/H Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel				56340	56800	56100	56640				
Frequency (MHz)				3690	3660	3640	3690				
20	QPSK	1	0	23.54	23.77	23.86	23.58	24	0		
20	QPSK	1	48	23.67	23.63	23.49	23.53				
20	QPSK	1	96	23.60	23.63	23.39	23.45				
20	QPSK	50	0	22.79	22.73	22.60	22.69	23	1		
20	QPSK	50	24	22.70	22.68	22.50	22.46				
20	QPSK	50	48	22.58	22.52	22.49	22.45				
20	QPSK	100	0	22.76	22.71	22.56	22.58	23	1		
20	HQDM	1	0	22.80	22.69	22.54	22.61				
20	HQDM	1	48	22.82	22.75	22.51	22.58				
20	HQDM	50	0	21.73	21.59	21.89	21.53	22	2		
20	HQDM	50	24	21.65	21.58	21.53	21.46				
20	HQDM	50	50	21.61	21.50	21.39	21.44				
20	HQDM	100	0	21.63	21.57	21.56	21.52	22	2		
20	HQDM	1	0	21.06	21.05	21.75	21.01				
20	HQDM	1	48	21.93	21.82	21.72	21.83				
20	HQDM	1	96	21.88	21.84	21.68	21.77	21	3		
20	HQDM	50	0	20.84	20.80	20.60	20.53				
20	HQDM	50	24	20.55	20.52	20.45	20.42				
20	HQDM	50	50	20.54	20.52	20.53	20.45	19	5		
20	HQDM	100	0	20.67	20.53	20.49	20.36				
20	25GQAM	1	0	18.88	18.84	18.88	18.77				
20	25GQAM	1	48	18.87	18.71	18.70	18.59	19	5		
20	25GQAM	1	96	18.81	18.82	18.76	18.72				
20	25GQAM	50	0	18.73	18.63	18.46	18.50				
20	25GQAM	50	24	18.57	18.47	18.42	18.30	19	5		
20	25GQAM	50	50	18.85	18.62	18.44	18.41				
20	25GQAM	100	0	18.65	18.63	18.57	18.51				
Channel				56315	56800	56100	56660	Turn-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3672.5	3670	3642	3671				
15	QPSK	1	0	23.71	23.75	23.53	23.51	24	0		
15	QPSK	1	37	23.61	23.62	23.36	23.51				
15	QPSK	1	74	23.58	23.62	23.36	23.34				
15	QPSK	36	0	22.78	22.68	22.57	22.64	23	1		
15	QPSK	36	20	22.65	22.52	22.48	22.42				
15	QPSK	36	39	22.54	22.46	22.37	22.49				
15	QPSK	75	0	22.65	22.67	22.43	22.52	23	1		
15	HQDM	1	0	22.71	22.60	22.49	22.51				
15	HQDM	1	37	22.71	22.61	22.36	22.47				
15	HQDM	1	74	22.73	22.71	22.42	22.52	22	2		
15	HQDM	36	0	21.64	21.56	21.56	21.49				
15	HQDM	36	39	21.62	21.47	21.50	21.35				
15	HQDM	36	39	21.51	21.49	21.35	21.38	22	2		
15	HQDM	75	0	21.59	21.46	21.40	21.48				
15	HQDM	1	0	21.01	21.88	21.71	21.89				
15	HQDM	1	37	21.84	21.81	21.60	21.72	21	3		
15	HQDM	1	74	21.62	21.91	21.89	21.69				
15	HQDM	36	0	20.54	20.46	20.58	20.51				
15	HQDM	36	20	20.46	20.42	20.32	20.39	21	3		
15	HQDM	36	39	20.56	20.32	20.47	20.42				
15	HQDM	75	0	20.51	20.45	20.35	20.23				
15	25GQAM	1	0	18.77	18.73	18.60	18.65	19	5		
15	25GQAM	1	37	18.80	18.64	18.57	18.45				
15	25GQAM	1	74	18.78	18.70	18.73	18.59				
15	25GQAM	36	0	18.65	18.42	18.43	18.47	19	5		
15	25GQAM	36	20	18.44	18.24	18.37	18.20				
15	25GQAM	36	39	18.67	18.47	18.42	18.36				
15	25GQAM	75	0	18.58	18.41	18.50	18.46				
Channel				56290	56815	56100	56690	Turn-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3665	3607.5	3642.5	3695				
10	QPSK	1	0	23.89	23.47	23.56	23.56	24	0		
10	QPSK	1	25	23.84	23.50	23.39	23.40				
10	QPSK	1	49	23.55	23.47	23.33	23.40				
10	QPSK	36	0	22.84	22.62	22.54	22.61	23	1		
10	QPSK	25	12	22.80	22.58	22.37	22.43				
10	QPSK	25	25	22.60	22.37	22.40	22.37				
10	QPSK	36	0	22.66	22.61	22.46	22.55	23	1		
10	HQDM	1	0	22.87	22.69	22.48	22.52				
10	HQDM	1	25	22.71	22.49	22.38	22.47				
10	HQDM	1	49	22.80	22.68	22.40	22.48	22	2		
10	HQDM	25	0	21.61	21.52	21.47	21.49				
10	HQDM	25	12	21.67	21.42	21.50	21.38				
10	HQDM	25	25	21.57	21.52	21.26	21.38	22	2		
10	HQDM	50	0	21.67	21.45	21.49	21.48				
10	HQDM	1	0	21.09	21.63	21.68	21.87				
10	HQDM	1	25	21.82	21.80	21.67	21.78	21	3		
10	HQDM	1	49	21.77	21.61	21.61	21.74				
10	HQDM	25	0	20.55	20.58	20.53	20.44				
10	HQDM	25	12	20.42	20.40	20.36	20.36	21	3		
10	HQDM	25	25	20.40	20.39	20.48	20.35				
10	HQDM	50	0	20.50	20.41	20.36	20.25				
10	25GQAM	1	0	18.76	18.80	18.62	18.68	19	5		
10	25GQAM	1	25	18.75	18.61	18.59	18.53				
10	25GQAM	1	49	18.72	18.70	18.63	18.67				
10	25GQAM	25	0	18.70	18.59	18.44	18.40	19	5		
10	25GQAM	25	12	18.46	18.39	18.39	18.33				
10	25GQAM	25	25	18.54	18.42	18.32	18.27				
10	25GQAM	50	0	18.51	18.48	18.52	18.38				
Channel				56265	56070	56100	56675	Turn-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3662.5	3607	3643	3697.5				
5	QPSK	1	0	23.78	23.71	23.53	23.48	24	0		
5	QPSK	1	12	23.61	23.49	23.44	23.39				
5	QPSK	1	24	23.51	23.42	23.28	23.38				
5	QPSK	12	0	22.74	22.62	22.57	22.69	23	1		
5	QPSK	12	7	22.61	22.57	22.38	22.39				
5	QPSK	12	13	22.61	22.41	22.46	22.38				
5	QPSK	25	0	22.70	22.66	22.45	22.56	23	1		
5	HQDM	1	0	22.73	22.55	22.43	22.49				
5	HQDM	1	12	22.83	22.49	22.48	22.44				
5	HQDM	1	24	22.76	22.62	22.42	22.44	22	2		
5	HQDM	12	0	21.61	21.55	21.49	21.40				
5	HQDM	12	7	21.62	21.60	21.39	21.36				
5	HQDM	12	13	21.53	21.58	21.32	21.32	22	2		
5	HQDM	25	0	21.60	21.48	21.42	21.44				
5	HQDM	1	0	21.01	21.89	21.68	21.84				
5	HQDM	1	12	21.63	21.80	21.64	21.80	22	2		
5	HQDM	1	24	21.85	21.88	21.69	21.65				
5	HQDM	12	0	20.61	20.46	20.52	20.44				
5	HQDM	12	7	20.42	20.41	20.39	20.36	21	3		
5	HQDM	12	13	20.41	20.43	20.45	20.35				
5	HQDM	25	0	20.53	20.44	20.44	20.35				
5	25GQAM	1	0	18.74	18.80	18.63	18.73	19	5		
5	25GQAM	1	12	18.78	18.64	18.65	18.50				
5	25GQAM	1	24	18.73	18.77	18.71	18.62				

Band 42 FCC Part27Q Ant 4									
SR [MHz]	Modulation	SR [MHz]	SR [MHz]	Power [dBm]	Power [dBm]	Power [dBm]	Power [dBm]	SR [MHz]	SR [MHz]
Channel				14.50	14.50	14.50	14.50	SR [MHz]	
Frequency [MHz]									
5	QPSK	1	0	18.26	18.26	18.26	18.26	15	0
5	QPSK	1	45	18.26	18.27	18.26	18.26	15	0
5	QPSK	1	90	18.26	18.27	18.26	18.26	15	0
5	QPSK	50	0	18.18	18.27	18.17	18.17	15	0
5	QPSK	50	45	18.18	18.27	18.17	18.17	15	0
5	QPSK	50	90	18.12	18.11	18.17	18.17	15	0
5	QPSK	50	0	18.10	18.10	18.10	18.10	15	0
5	QPSK	1	0	18.10	18.10	18.10	18.10	15	0
5	QPSK	1	45	18.10	18.10	18.10	18.10	15	0
5	QPSK	1	90	18.10	18.10	18.10	18.10	15	0
5	QPSK	50	0	18.02	18.01	18.02	18.02	15	0
5	QPSK	50	45	17.98	17.73	17.98	17.98	15	0
5	QPSK	50	90	18.07	17.83	18.03	18.03	15	0
5	QPSK	50	0	18.07	17.83	18.03	18.03	15	0
5	QPSK	1	0	18.01	17.85	17.72	17.72	15	0
5	QPSK	1	45	18.01	17.85	17.72	17.72	15	0
5	QPSK	1	90	18.00	17.82	17.88	17.88	15	0
5	QPSK	50	0	18.00	17.82	17.88	17.88	15	0
5	QPSK	50	45	18.11	17.82	17.82	17.82	15	0
5	QPSK	50	90	18.11	17.82	17.82	17.82	15	0
5	QPSK	50	0	17.90	17.79	17.90	17.90	15	0
5	QPSK	1	0	18.12	18.02	18.10	18.10	15	0
5	QPSK	1	45	18.12	18.02	18.10	18.10	15	0
5	QPSK	1	90	18.03	18.00	18.09	18.09	15	0
5	QPSK	50	0	18.03	18.00	18.09	18.09	15	0
5	QPSK	50	45	18.00	17.71	17.75	17.75	15	0
5	QPSK	50	90	18.00	17.71	17.75	17.75	15	0
5	QPSK	1	0	17.91	17.81	17.88	17.88	15	0
Frequency [MHz]									
15	QPSK	1	0	18.13	18.13	18.13	18.13	15	0
15	QPSK	1	45	18.13	18.13	18.13	18.13	15	0
15	QPSK	1	90	18.13	18.13	18.13	18.13	15	0
15	QPSK	50	0	18.05	18.05	18.05	18.05	15	0
15	QPSK	50	45	18.02	18.00	18.01	18.01	15	0
15	QPSK	50	90	18.05	18.01	18.05	18.05	15	0
15	QPSK	1	0	17.83	17.89	17.74	17.74	15	0
15	QPSK	1	45	17.77	17.84	17.84	17.84	15	0
15	QPSK	1	90	18.07	18.00	18.00	18.00	15	0
15	QPSK	50	0	17.77	17.78	17.84	17.84	15	0
15	QPSK	50	45	17.91	17.87	17.87	17.87	15	0
15	QPSK	50	90	17.91	17.88	17.87	17.87	15	0
15	QPSK	50	0	17.89	17.80	17.80	17.80	15	0
15	QPSK	1	0	17.82	17.82	17.82	17.82	15	0
15	QPSK	1	45	17.82	17.82	17.82	17.82	15	0
15	QPSK	1	90	17.82	17.82	17.82	17.82	15	0
15	QPSK	50	0	17.77	17.86	17.86	17.86	15	0
15	QPSK	50	45	17.84	17.86	17.86	17.86	15	0
15	QPSK	50	90	17.84	17.86	17.86	17.86	15	0
15	QPSK	1	0	17.80	17.85	17.85	17.85	15	0
15	QPSK	1	45	17.80	17.85	17.85	17.85	15	0
15	QPSK	1	90	17.80	17.85	17.85	17.85	15	0
15	QPSK	50	0	17.75	17.81	17.81	17.81	15	0
15	QPSK	50	45	17.75	17.81	17.81	17.81	15	0
15	QPSK	50	90	17.75	17.81	17.81	17.81	15	0
15	QPSK	50	0	17.75	17.81	17.81	17.81	15	0
15	QPSK	1	0	17.86	17.78	17.71	17.71	15	0
Frequency [MHz]									
25	QPSK	1	0	18.20	18.20	18.14	18.01	15	0
25	QPSK	1	45	18.20	18.20	18.14	18.01	15	0
25	QPSK	1	90	18.20	18.20	18.14	18.01	15	0
25	QPSK	50	0	18.10	18.10	18.12	18.09	15	0
25	QPSK	50	45	18.10	18.10	18.12	18.09	15	0
25	QPSK	50	90	18.11	18.02	18.10	18.01	15	0
25	QPSK	50	0	18.05	18.07	18.09	18.09	15	0
25	QPSK	1	0	17.93	17.92	17.71	17.61	15	0
25	QPSK	1	45	17.93	17.92	17.71	17.61	15	0
25	QPSK	1	90	17.93	17.92	17.71	17.61	15	0
25	QPSK	50	0	17.82	17.84	17.64	17.54	15	0
25	QPSK	50	45	18.02	17.81	17.99	17.89	15	0
25	QPSK	50	90	17.92	17.84	17.64	17.54	15	0
25	QPSK	1	0	17.96	17.69	17.60	17.60	15	0
25	QPSK	1	45	17.96	17.69	17.60	17.60	15	0
25	QPSK	1	90	17.96	17.69	17.60	17.60	15	0
25	QPSK	50	0	17.93	17.68	17.68	17.68	15	0
25	QPSK	50	45	17.93	17.68	17.68	17.68	15	0
25	QPSK	50	90	17.93	17.68	17.68	17.68	15	0
25	QPSK	50	0	17.93	17.68	17.68	17.68	15	0
25	QPSK	1	0	17.88	17.65	17.65	17.65	15	0
25	QPSK	1	45	17.88	17.65	17.65	17.65	15	0
25	QPSK	1	90	17.88	17.65	17.65	17.65	15	0
25	QPSK	50	0	17.80	17.71	17.71	17.71	15	0
25	QPSK	50	45	17.87	17.73	17.89	17.89	15	0
25	QPSK	50	90	17.87	17.73	17.89	17.89	15	0
25	QPSK	50	0	17.87	17.73	17.89	17.89	15	0
25	QPSK	1	0	18.03	18.00	18.10	18.10	15	0
25	QPSK	1	45	18.03	18.00	18.10	18.10	15	0
25	QPSK	1	90	18.03	18.00	18.10	18.10	15	0
25	QPSK	50	0	18.02	17.85	17.97	17.97	15	0
25	QPSK	50	45	18.02	17.85	17.97	17.97	15	0
25	QPSK	50	90	18.02	17.85	17.97	17.97	15	0
25	QPSK	50	0	17.99	17.68	17.68	17.68	15	0
25	QPSK	50	45	17.99	17.68	17.68	17.68	15	0
25	QPSK	50	90	17.99	17.68	17.68	17.68	15	0
25	QPSK	50	0	17.90	17.72	17.80	17.80	15	0
Frequency [MHz]									
35	QPSK	1	0	18.21	18.21	18.10	18.12	15	0
35	QPSK	1	45	18.21	18.21	18.10	18.12	15	0
35	QPSK	1	90	18.21	18.21	18.10	18.12	15	0
35	QPSK	50	0	18.20	18.09	18.10	18.10	15	0
35	QPSK	50	45	18.04	18.14	18.04	18.04	15	0
35	QPSK	50	90	18.15	18.00	18.05	18.05	15	0
35	QPSK	1	0	18.17	18.05	18.05	18.05	15	0
35	QPSK	1	45	18.17	18.05	18.05	18.05	15	0
35	QPSK	1	90	18.17	18.05	18.05	18.05	15	0
35	QPSK	50	0	18.07	17.87	17.77	17.77	15	0
35	QPSK	50	45	18.07	17.87	17.77	17.77	15	0
35	QPSK	50	90	18.07	17.87	17.77	17.77	15	0
35	QPSK	1	0	18.04	17.81	17.81	17.81	15	0
35	QPSK	1	45	18.04	17.81	17.81	17.81	15	0
35	QPSK	1	90	18.04	17.81	17.81	17.81	15	0
35	QPSK	50	0	17.98	17.68	17.68	17.68	15	0
35	QPSK	50	45	17.98	17.68	17.68	17.68	15	0
35	QPSK	50	90	17.98	17.68	17.68	17.68	15	0
35	QPSK	50	0	17.98	17.68	17.68	17.68	15	0
35	QPSK	1	0	17.92	17.60	17.60	17.60	15	0
35	QPSK	1	45	17.92	17.60	17.60	17.60	15	0
35	QPSK	1	90	17.92	17.60	17.60	17.60	15	0
35	QPSK	50	0	17.84	17.62	17.61	17.61	15	0
35	QPSK	50	45	17.84	17.62	17.61	17.61	15	0
35	QPSK	50	90	17.84	17.62	17.61	17.61	15	0
35	QPSK	50	0	17.84	17.62	17.61	17.61	15	0
35	QPSK	1	0	18.11	17.87	18.00	18.00	15	0
35	QPSK	1	45	18.11	17.87	18.00	18.00	15	0
35	QPSK	1	90	18.11	17.87	18.00	18.00	15	0
35	QPSK	50	0	17.99	17.68	17.68	17.68	15	0
35	QPSK	50	45	17.99	17.68	17.68	17.68	15	0
35	QPSK	50	90	17.99	17.68	17.68	17.68	15	0
35	QPSK	50	0	17.99	17.68	17.68	17.68	15	0
35	QPSK	1	0	17.92	17.60	17.60	17.60	15	0
35	QPSK	1	45	17.92	17.60	17.60	17.60	15	0
35	QPSK	1	90	17.92	17.60	17.60	17.60	15	0
35	QPSK	50	0	17.84	17.62	17.61	17.61	15	0
35	QPSK	50	45	17.84	17.62	17.61	17.61	15	0
35	QPSK	50	90	17.84	17.62	17.61	17.61	15	0
35	QPSK	50	0	17.84	17.62	17.61	17.61	15	0
35	QPSK	1	0	18.11	17.87	18.00	18.00	15	0
35	QPSK	1	45	18.11	17.87	18.00	18.00	15	0
35	QPSK	1	90	18.11	17.87	18.00	18.00	15	0
35	QPSK	50	0	17.99	17.68	17.68	17.68	15	0
35	QPSK	50	45	17.99	17.68	17.68	17.68	15	0
35	QPSK	50	90	17.99	17.68	17.68	17.68	15	0
35	QPSK	50	0	17.99	17.68	17.68	17.68	15	0
35	QPSK	1	0	17.92	17.60	17.60	17.60	15	0
35	QPSK	1	45	17.92	17.60	17.60	17.60	15	0
35	QPSK	1	90	17.92	17.60	17.60	17.60	15	0
35	QPSK	50	0	17.84	17.62	17.61	17.61	15	

Band 48_FCC Ant 4											
Ref	Model	Channel	RF Ch	Power Class (mW)	Power Class (dBm)	Power Class (dBm)	Power Class (dBm)	Power Class (dBm)	Power Class (dBm)	Power Class (dBm)	Power Class (dBm)
Frequency Group 1											
20	OPRF	1	0	18.48	18.54	18.57	18.61	18.63	18.65	18.67	18.69
20	OPRF	1	20	18.55	18.52	18.56	18.53	18.52	18.51	18.50	18.49
20	OPRF	1	40	18.62	18.53	18.57	18.54	18.53	18.52	18.51	18.50
20	OPRF	1	60	18.69	18.54	18.58	18.55	18.54	18.53	18.52	18.51
20	OPRF	1	80	18.77	18.44	18.34	18.34	18.36	18.38	18.39	18.40
20	OPRF	1	100	18.85	18.37	18.27	18.27	18.29	18.31	18.32	18.33
20	OPRF	1	120	18.93	18.30	18.20	18.20	18.22	18.24	18.25	18.26
20	OPRF	1	140	19.01	18.23	18.13	18.13	18.15	18.17	18.18	18.19
20	OPRF	1	160	19.09	18.16	18.06	18.06	18.08	18.10	18.11	18.12
20	OPRF	1	180	19.17	18.10	18.01	18.01	18.03	18.05	18.06	18.07
20	OPRF	1	200	19.25	18.02	17.94	17.94	17.96	17.98	17.99	18.00
20	OPRF	1	220	19.33	17.95	17.87	17.87	17.89	17.91	17.92	17.93
20	OPRF	1	240	19.41	17.88	17.80	17.80	17.82	17.84	17.85	17.86
20	OPRF	1	260	19.49	17.81	17.73	17.73	17.75	17.77	17.78	17.79
20	OPRF	1	280	19.57	17.74	17.66	17.66	17.68	17.70	17.71	17.72
20	OPRF	1	300	19.65	17.67	17.59	17.59	17.61	17.63	17.64	17.65
20	OPRF	1	320	19.73	17.60	17.52	17.52	17.54	17.56	17.57	17.58
20	OPRF	1	340	19.81	17.53	17.45	17.45	17.47	17.49	17.50	17.51
20	OPRF	1	360	19.89	17.46	17.38	17.38	17.40	17.42	17.43	17.44
20	OPRF	1	380	19.97	17.39	17.31	17.31	17.33	17.35	17.36	17.37
20	OPRF	1	400	20.05	17.32	17.24	17.24	17.26	17.28	17.29	17.30
20	OPRF	1	420	20.13	17.25	17.17	17.17	17.19	17.21	17.22	17.23
20	OPRF	1	440	20.21	17.18	17.10	17.10	17.12	17.14	17.15	17.16
20	OPRF	1	460	20.29	17.11	17.03	17.03	17.05	17.07	17.08	17.09
20	OPRF	1	480	20.37	17.04	16.96	16.96	16.98	17.00	17.01	17.02
20	OPRF	1	500	20.45	16.97	16.89	16.89	16.91	16.93	16.94	16.95
20	OPRF	1	520	20.53	16.90	16.82	16.82	16.84	16.86	16.87	16.88
20	OPRF	1	540	20.61	16.83	16.75	16.75	16.77	16.79	16.80	16.81
20	OPRF	1	560	20.69	16.76	16.68	16.68	16.70	16.72	16.73	16.74
20	OPRF	1	580	20.77	16.69	16.61	16.61	16.63	16.65	16.66	16.67
20	OPRF	1	600	20.85	16.62	16.54	16.54	16.56	16.58	16.59	16.60
20	OPRF	1	620	20.93	16.55	16.47	16.47	16.49	16.51	16.52	16.53
20	OPRF	1	640	21.01	16.48	16.40	16.40	16.42	16.44	16.45	16.46
20	OPRF	1	660	21.09	16.41	16.33	16.33	16.35	16.37	16.38	16.39
20	OPRF	1	680	21.17	16.34	16.26	16.26	16.28	16.30	16.31	16.32
20	OPRF	1	700	21.25	16.27	16.19	16.19	16.21	16.23	16.24	16.25
20	OPRF	1	720	21.33	16.20	16.12	16.12	16.14	16.16	16.17	16.18
20	OPRF	1	740	21.41	16.13	16.05	16.05	16.07	16.09	16.10	16.11
20	OPRF	1	760	21.49	16.06	15.98	15.98	16.00	16.02	16.03	16.04
20	OPRF	1	780	21.57	15.99	15.91	15.91	15.93	15.95	15.96	15.97
20	OPRF	1	800	21.65	15.92	15.84	15.84	15.86	15.88	15.89	15.90
20	OPRF	1	820	21.73	15.85	15.77	15.77	15.79	15.81	15.82	15.83
20	OPRF	1	840	21.81	15.78	15.70	15.70	15.72	15.74	15.75	15.76
20	OPRF	1	860	21.89	15.71	15.63	15.63	15.65	15.67	15.68	15.69
20	OPRF	1	880	21.97	15.64	15.56	15.56	15.58	15.60	15.61	15.62
20	OPRF	1	900	22.05	15.57	15.49	15.49	15.51	15.53	15.54	15.55
20	OPRF	1	920	22.13	15.50	15.42	15.42	15.44	15.46	15.47	15.48
20	OPRF	1	940	22.21	15.43	15.35	15.35	15.37	15.39	15.40	15.41
20	OPRF	1	960	22.29	15.36	15.28	15.28	15.30	15.32	15.33	15.34
20	OPRF	1	980	22.37	15.29	15.21	15.21	15.23	15.25	15.26	15.27
20	OPRF	1	1000	22.45	15.22	15.14	15.14	15.16	15.18	15.19	15.20
20	OPRF	1	1020	22.53	15.15	15.07	15.07	15.09	15.11	15.12	15.13
20	OPRF	1	1040	22.61	15.08	15.00	15.00	15.02	15.04	15.05	15.06
20	OPRF	1	1060	22.69	15.01	14.93	14.93	14.95	14.97	14.98	14.99
20	OPRF	1	1080	22.77	14.94	14.86	14.86	14.88	14.90	14.91	14.92
20	OPRF	1	1100	22.85	14.87	14.79	14.79	14.81	14.83	14.84	14.85
20	OPRF	1	1120	22.93	14.80	14.72	14.72	14.74	14.76	14.77	14.78
20	OPRF	1	1140	23.01	14.73	14.65	14.65	14.67	14.69	14.70	14.71
20	OPRF	1	1160	23.09	14.66	14.58	14.58	14.60	14.62	14.63	14.64
20	OPRF	1	1180	23.17	14.59	14.51	14.51	14.53	14.55	14.56	14.57
20	OPRF	1	1200	23.25	14.52	14.44	14.44	14.46	14.48	14.49	14.50
20	OPRF	1	1220	23.33	14.45	14.37	14.37	14.39	14.41	14.42	14.43
20	OPRF	1	1240	23.41	14.38	14.30	14.30	14.32	14.34	14.35	14.36
20	OPRF	1	1260	23.49	14.31	14.23	14.23	14.25	14.27	14.28	14.29
20	OPRF	1	1280	23.57	14.24	14.16	14.16	14.18	14.20	14.21	14.22
20	OPRF	1	1300	23.65	14.17	14.09	14.09	14.11	14.13	14.14	14.15
20	OPRF	1	1320	23.73	14.10	14.02	14.02	14.04	14.06	14.07	14.08
20	OPRF	1	1340	23.81	14.03	13.95	13.95	13.97	13.99	14.00	14.01
20	OPRF	1	1360	23.89	13.96	13.88	13.88	13.90	13.92	13.93	13.94
20	OPRF	1	1380	23.97	13.89	13.81	13.81	13.83	13.85	13.86	13.87
20	OPRF	1	1400	24.05	13.82	13.74	13.74	13.76	13.78	13.79	13.80
20	OPRF	1	1420	24.13	13.75	13.67	13.67	13.69	13.71	13.72	13.73
20	OPRF	1	1440	24.21	13.68	13.60	13.60	13.62	13.64	13.65	13.66
20	OPRF	1	1460	24.29	13.61	13.53	13.53	13.55	13.57	13.58	13.59
20	OPRF	1	1480	24.37	13.54	13.46	13.46	13.48	13.50	13.51	13.52
20	OPRF	1	1500	24.45	13.47	13.39	13.39	13.41	13.43	13.44	13.45
20	OPRF	1	1520	24.53	13.40	13.32	13.32	13.34	13.36	13.37	13.38
20	OPRF	1	1540	24.61	13.33	13.25	13.25	13.27	13.29	13.30	13.31
20	OPRF	1	1560	24.69	13.26	13.18	13.18	13.20	13.22	13.23	13.24
20	OPRF	1	1580	24.77	13.19	13.11	13.11	13.13	13.15	13.16	13.17
20	OPRF	1	1600	24.85	13.12	13.04	13.04	13.06	13.08	13.09	13.10
20	OPRF	1	1620	24.93	13.05	12.97	12.97	12.99	13.01	13.02	13.03
20	OPRF	1	1640	25.01	12.98	12.90	12.90	12.92	12.94	12.95	12.96
20	OPRF	1	1660	25.09	12.91	12.83	12.83	12.85	12.87	12.88	12.89
20	OPRF	1	1680	25.17	12.84	12.76	12.76	12.78	12.80	12.81	12.82
20	OPRF	1	1700	25.25	12.77	12.69	12.69	12.71	12.73	12.74	12.75
20	OPRF	1	1720	25.33	12.70	12.62	12.62	12.64	12.66	12.67	12.68
20	OPRF	1	1740	25.41	12.63	12.55	12.55	12.57	12.59	12.60	12.61
20	OPRF	1	1760	25.49	12.56	12.48	12.48	12.50	12.52	12.53	12.54
20	OPRF	1	1780	25.57	12.49	12.41	12.41	12.43	12.45	12.46	12.47
20	OPRF	1	1800	25.65	12.42	12.34	12.34	12.36	12.38	12.39	12.40
20	OPRF	1	1820	25.73	12.35	12.27	12.27	12.29	12.31	12.32	12.33
20	OPRF	1	1840	25.81	12.28	12.20	12.20	12.22	12.24	12.25	12.26
20	OPRF	1	1860	25.89	12.21	12.13	12.13	12.15	12.17	12.18	12.19
20	OPRF	1	1880	25.97	12.14	12.06	12.06	12.08	12.10	12.11	12.12
20	OPRF	1	1900	26.05	12.07	11.99	11.99	12.01	12.03	12.04	12.05
20	OPRF	1	1920	26.13	12.00	11.92	11.92	11.94	11.96	11.97	11.98
20	OPRF	1	1940	26.21	11.93	11.85	11.85	11.87	11.89	11.90	11.91
20	OPRF	1	1960	26.29	11.86	11.78	11.78	11.80	11.82	11.83	11.84
20	OPRF	1	1980	26.37	11.79	11.71	11.71	11.73	11.75	11.76	11.77
20	OPRF	1	2000	26.45	11.72	11.64	11.64	11.66	11.68	11.69	11.70
20	OPRF	1	2020	26.53	11.65	11.57	11.57	11.59	11.61	11.62	11.63
20	OPRF	1	2040	26.61	11.58	11.50	11.50	11.52	11.54	11.55	11.56
20	OPRF	1	2060	26.69	11.51	11.43	11.43	11.45	11.47	11.48	11.49
20	OPRF	1	2080	26.77	11.44	11.36	11.36	11.38	11.40	11.41	11.42
20	OPRF	1	2100	26.85	11.37	11.29	11.29	11.31	11.33	11.34	11.35
20	OPRF	1	2120	26.93	11.30	11.22	11.22	11.24	11.26	11.27	11.28
20	OPRF	1	2140	27.01	11.23	11.15	11.15	11.17	11.19	11.20	11.21
20	OPRF	1	2160	27.09	11.16	11.08	11.08	11.10	11.		

Band 42 FCC Part27Q Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3455	3500	3545			
20	QPSK	1	0	20.69	20.75	20.65	21.3	0	
20	QPSK	1	49	20.65	20.62	20.53			
20	QPSK	1	99	20.66	20.66	20.59			
20	QPSK	50	0	20.64	20.66	20.62	21.3	0	
20	QPSK	50	24	20.58	20.48	20.59			
20	QPSK	50	50	20.53	20.44	20.50			
20	QPSK	100	0	20.45	20.50	20.48	21.3	0	
20	16QAM	1	0	20.42	20.36	20.36			
20	16QAM	1	49	20.45	20.41	20.43			
20	16QAM	1	99	20.30	20.06	20.26	21	0.3	
20	16QAM	50	0	19.80	19.80	19.64			
20	16QAM	50	24	19.83	19.85	19.67			
20	16QAM	50	50	19.65	19.73	19.61	21	0.3	
20	16QAM	100	0	19.79	19.74	19.65			
20	64QAM	1	0	20.04	20.05	19.99			
20	64QAM	1	49	19.98	20.05	19.96	20	1.3	
20	64QAM	1	99	19.97	19.92	20.03			
20	64QAM	50	0	18.89	18.76	18.66			
20	64QAM	50	24	18.74	18.66	18.56	18	3.3	
20	64QAM	50	50	18.74	18.63	18.64			
20	64QAM	100	0	18.70	18.76	18.62			
20	256QAM	1	0	17.04	16.95	17.00	18	3.3	
20	256QAM	1	49	16.99	16.90	16.79			
20	256QAM	1	99	16.96	16.84	16.91			
20	256QAM	50	0	16.82	16.83	16.64	18	3.3	
20	256QAM	50	24	16.76	16.71	16.68			
20	256QAM	50	50	16.69	16.74	16.53			
Channel				42165	42590	43065	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	20.59	20.64	20.54	21.3	0	
15	QPSK	1	37	20.50	20.56	20.46			
15	QPSK	1	74	20.54	20.56	20.43			
15	QPSK	36	0	20.55	20.53	20.53	21.3	0	
15	QPSK	36	20	20.44	20.35	20.53			
15	QPSK	36	39	20.37	20.32	20.42			
15	QPSK	75	0	20.25	20.43	20.21	21.3	0	
15	16QAM	1	0	20.28	20.26	20.26			
15	16QAM	1	37	20.29	20.30	20.28			
15	16QAM	1	74	20.23	19.97	20.21	21	0.3	
15	16QAM	36	0	19.76	19.75	19.56			
15	16QAM	36	20	19.80	19.83	19.64			
15	16QAM	36	39	19.64	19.62	19.52	21	0.3	
15	16QAM	75	0	19.69	19.70	19.59			
15	64QAM	1	0	19.98	19.67	19.93			
15	64QAM	1	37	19.92	20.00	19.94	20	1.3	
15	64QAM	1	74	19.92	19.83	19.94			
15	64QAM	36	0	18.83	18.76	18.54			
15	64QAM	36	20	18.72	18.55	18.54	18	3.3	
15	64QAM	36	39	18.63	18.61	18.52			
15	64QAM	75	0	18.62	18.74	18.54			
15	256QAM	1	0	16.93	16.95	16.98	18	3.3	
15	256QAM	1	37	16.91	16.88	16.79			
15	256QAM	1	74	16.94	16.83	16.90			
15	256QAM	36	0	16.79	16.78	16.63	18	3.3	
15	256QAM	36	20	16.71	16.70	16.45			
15	256QAM	36	39	16.58	16.66	16.45			
15	256QAM	75	0	16.79	16.69	16.55	Turn-up limit (dBm)	MPR (dB)	
Channel				42140	42590	43040			
Frequency (MHz)				3455	3500	3545	Turn-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	20.61	20.70	20.49		21.3	
10	QPSK	1	25	20.40	20.46	20.45			
10	QPSK	1	49	20.57	20.54	20.59	21.3	0	
10	QPSK	25	0	20.50	20.57	20.57			
10	QPSK	25	12	20.42	20.42	20.51			
10	QPSK	25	25	20.49	20.32	20.36	21.3	0	
10	QPSK	50	0	20.28	20.36	20.13			
10	16QAM	1	0	20.35	20.31	20.28			
10	16QAM	1	25	20.37	20.32	20.33	21	0.3	
10	16QAM	1	49	20.24	19.96	20.19			
10	16QAM	25	0	19.73	19.74	19.58			
10	16QAM	25	12	19.71	19.76	19.60	21	0.3	
10	16QAM	25	25	19.62	19.63	19.49			
10	16QAM	50	0	19.79	19.67	19.60			
10	64QAM	1	0	19.98	19.97	19.96	21	0.3	
10	64QAM	1	25	19.88	20.05	19.94			
10	64QAM	1	49	19.89	19.89	20.00			
10	64QAM	25	0	18.81	18.65	18.59	20	1.3	
10	64QAM	25	12	18.70	18.60	18.55			
10	64QAM	25	25	18.66	18.56	18.61			
10	64QAM	50	0	18.60	18.72	18.57	18	3.3	
10	256QAM	1	0	16.92	16.90	16.97			
10	256QAM	1	25	16.87	16.92	16.71			
10	256QAM	1	49	16.92	16.79	16.83	18	3.3	
10	256QAM	25	0	16.72	16.80	16.53			
10	256QAM	25	12	16.72	16.68	16.48			
10	256QAM	25	25	16.61	16.71	16.48	Turn-up limit (dBm)	MPR (dB)	
10	256QAM	50	0	16.77	16.61	16.59			
Channel				42115	42590	43065			
Frequency (MHz)				3452.5	3500	3547.5	Turn-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	20.50	20.65	20.61		21.3	
5	QPSK	1	12	20.49	20.49	20.39			
5	QPSK	1	24	20.60	20.53	20.45	21.3	0	
5	QPSK	12	0	20.48	20.58	20.56			
5	QPSK	12	7	20.42	20.37	20.48			
5	QPSK	12	13	20.48	20.36	20.42	21.3	0	
5	QPSK	25	0	20.28	20.34	20.16			
5	16QAM	1	0	20.33	20.21	20.25			
5	16QAM	1	12	20.38	20.25	20.31	21.3	0	
5	16QAM	1	24	20.26	19.89	20.11			
5	16QAM	12	0	19.75	19.68	19.64			
5	16QAM	12	7	19.72	19.82	19.62	21	0.3	
5	16QAM	12	13	19.54	19.62	19.56			
5	16QAM	25	0	19.68	19.63	19.58			
5	64QAM	1	0	19.93	19.97	19.93	21	0.3	
5	64QAM	1	12	19.94	19.96	19.84			
5	64QAM	1	24	19.85	19.83	19.95			
5	64QAM	12	0	18.89	18.73	18.65	20	1.3	
5	64QAM	12	7	18.68	18.66	18.48			
5	64QAM	12	13	18.62	18.55	18.55			
5	256QAM	25	0	16.68	16.66	16.58	18	3.3	
5	256QAM	1	0	16.96	16.94	16.92			
5	256QAM	1	12	16.89	16.82	16.69			
5	256QAM	1	24	16.90	16.77	16.90	18	3.3	
5	256QAM	12	0	16.71	16.76	16.55			
5	256QAM	12	7	16.75	16.66	16.39			
5	256QAM	12	13	16.66	16.64	16.50	Turn-up limit (dBm)	MPR (dB)	
5	256QAM	25	0	16.80	16.70	16.52			

Band 48_FCC Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55330	56150	56640		
Frequency (MHz)				3520	3520	3541	3540		
20	QPSK	1	0	20.73	20.81	21.01	20.97	21.5	0
20	QPSK	1	49	20.81	20.93	20.99	20.81		
20	QPSK	1	99	20.81	20.94	20.93	20.89		
20	QPSK	50	0	20.81	20.75	20.88	20.82		
20	QPSK	50	24	20.82	20.86	20.78	20.81	21.5	0
20	QPSK	50	50	20.75	20.81	20.81	20.80		
20	QPSK	100	0	20.42	20.63	20.73	20.60		
20	16QAM	1	0	20.81	20.67	20.66	20.73		
20	16QAM	1	49	20.68	20.75	20.62	20.75	21.5	0
20	16QAM	1	99	20.31	20.43	20.45	20.50		
20	16QAM	50	0	19.63	19.68	19.67	19.57		
20	16QAM	50	24	19.54	19.68	19.66	19.51		
20	16QAM	100	0	19.47	19.52	19.55	19.60	21	0.5
20	16QAM	100	0	19.58	19.55	19.61	19.52		
20	64QAM	1	0	19.88	19.96	19.98	19.90		
20	64QAM	1	49	19.80	19.86	19.91	19.85		
20	64QAM	1	99	19.71	19.83	19.82	19.86	20	1.5
20	64QAM	50	0	18.63	18.63	18.69	18.49		
20	64QAM	50	24	18.46	18.51	18.56	18.46		
20	64QAM	50	50	18.54	18.54	18.48	18.43		
20	256QAM	1	0	18.50	18.57	18.59	18.47	18	3.5
20	256QAM	1	49	16.76	16.82	16.79	16.86		
20	256QAM	1	99	16.79	16.83	16.81	16.69		
20	256QAM	1	99	16.74	16.74	16.80	16.86		
20	256QAM	50	0	16.51	16.59	16.60	16.48	18	3.5
20	256QAM	50	24	16.47	16.50	16.57	16.39		
20	256QAM	50	50	16.54	16.52	16.58	16.48		
20	256QAM	100	0	16.55	16.53	16.63	16.51		
Channel				55315	55300	56160	56650	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3527.5	3528	3545	3552.5		
15	QPSK	1	0	20.60	20.68	20.88	20.90	21.5	0
15	QPSK	1	37	20.68	20.77	20.85	20.75		
15	QPSK	1	74	20.73	20.80	20.82	20.78		
15	QPSK	36	0	20.45	20.58	20.63	20.69		
15	QPSK	36	20	20.70	20.70	20.73	20.76	21.5	0
15	QPSK	36	39	20.66	20.66	20.66	20.64		
15	QPSK	75	0	20.28	20.49	20.67	20.51		
15	16QAM	1	0	20.49	20.52	20.61	20.58		
15	16QAM	1	37	20.61	20.75	20.53	20.70	21.5	0
15	16QAM	1	74	20.25	20.34	20.33	20.42		
15	16QAM	36	0	19.52	19.60	19.58	19.55		
15	16QAM	36	20	19.42	19.62	19.61	19.48		
15	16QAM	36	39	19.37	19.44	19.55	19.49	21	0.5
15	16QAM	75	0	19.57	19.52	19.55	19.42		
15	64QAM	1	0	19.80	19.67	19.91	19.82		
15	64QAM	1	37	19.78	19.73	19.90	19.82		
15	64QAM	1	74	19.67	19.81	19.77	19.83	20	1.5
15	64QAM	36	0	18.57	18.62	18.63	18.47		
15	64QAM	36	20	18.42	18.50	18.46	18.40		
15	64QAM	36	39	18.50	18.52	18.42	18.39		
15	64QAM	75	0	18.46	18.49	18.57	18.41	18	3.5
15	256QAM	1	0	16.67	16.81	16.67	16.81		
15	256QAM	1	37	16.76	16.72	16.73	16.61		
15	256QAM	1	74	16.63	16.73	16.79	16.77		
15	256QAM	36	0	16.41	16.57	16.50	16.42	18	3.5
15	256QAM	36	20	16.44	16.47	16.49	16.37		
15	256QAM	36	39	16.50	16.40	16.47	16.36		
15	256QAM	75	0	16.52	16.40	16.52	16.49		
Channel				55290	55815	56165	56660	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	20.62	20.74	20.90	20.82	21.5	0
10	QPSK	1	25	20.71	20.89	20.89	20.67		
10	QPSK	1	49	20.68	20.63	20.86	20.74		
10	QPSK	25	0	20.50	20.62	20.76	20.71		
10	QPSK	25	12	20.76	20.72	20.68	20.67	21.5	0
10	QPSK	25	25	20.69	20.74	20.76	20.71		
10	QPSK	50	0	20.35	20.57	20.66	20.51		
10	16QAM	1	0	20.49	20.52	20.58	20.64		
10	16QAM	1	25	20.60	20.64	20.49	20.65	21.5	0
10	16QAM	1	49	20.25	20.39	20.30	20.37		
10	16QAM	25	0	19.63	19.62	19.67	19.57		
10	16QAM	25	12	19.47	19.58	19.65	19.41		
10	16QAM	25	25	19.39	19.47	19.55	19.55	21	0.5
10	16QAM	50	0	19.57	19.51	19.55	19.43		
10	64QAM	1	0	19.84	19.87	19.89	19.76		
10	64QAM	1	25	19.78	19.81	19.87	19.77		
10	64QAM	1	49	19.70	19.79	19.76	19.82	20	1.5
10	64QAM	25	0	18.52	18.58	18.67	18.43		
10	64QAM	25	12	18.45	18.46	18.46	18.42		
10	64QAM	25	25	18.51	18.51	18.45	18.34		
10	64QAM	50	0	18.48	18.52	18.57	18.37	18	3.5
10	256QAM	1	0	16.68	16.79	16.75	16.77		
10	256QAM	1	25	16.76	16.76	16.72	16.61		
10	256QAM	1	49	16.68	16.67	16.78	16.75		
10	256QAM	25	0	16.44	16.53	16.54	16.38	18	3.5
10	256QAM	25	12	16.38	16.40	16.48	16.28		
10	256QAM	25	25	16.50	16.47	16.50	16.43		
10	256QAM	50	0	16.45	16.44	16.59	16.48		
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	20.68	20.67	20.85	20.87	21.5	0
5	QPSK	1	12	20.71	20.85	20.88	20.68		
5	QPSK	1	24	20.67	20.83	20.88	20.84		
5	QPSK	12	0	20.46	20.69	20.74	20.72		
5	QPSK	12	7	20.78	20.74	20.70	20.76	21.5	0
5	QPSK	12	13	20.64	20.74	20.68	20.73		
5	QPSK	25	0	20.32	20.50	20.62	20.46		
5	16QAM	1	0	20.55	20.57	20.55	20.59		
5	16QAM	1	12	20.58	20.69	20.54	20.61	21.5	0
5	16QAM	1	24	20.21	20.29	20.36	20.45		
5	16QAM	12	0	19.55	19.66	19.60	19.53		
5	16QAM	12	7	19.50	19.59	19.56	19.44		
5	16QAM	12	13	19.37	19.51	19.51	19.54	21	0.5
5	16QAM	25	0	19.62	19.53	19.58	19.49		
5	64QAM	1	0	19.77	19.84	19.98	19.90		
5	64QAM	1	12	19.68	19.76	19.88	19.82		
5	64QAM	1	24	19.60	19.77	19.81	19.77	20	1.5
5	64QAM	12	0	18.59	18.54	18.61	18.42		
5	64QAM	12	7	18.42	18.51	18.48	18.44		
5	64QAM	12	13	18.49	18.51	18.37	18.40		
5	256QAM	25	0	16.44	16.51	16.50	16.45	18	3.5
5	256QAM	1	0	16.64	16.62	16.72	16.65		
5	256QAM	1	12	16.77	16.80	16.70	16.64		
5	256QAM	1	24	16.65	16.73	16.71	16.83		
5	256QAM	12	0	16.42	16.58	16.49	16.40	18	3.5
5	256QAM	12	7	16.39	16.48	16.53	16.37		
5	256QAM	12	13	16.51	16.45	16.53	16.40		
5	256QAM	25	0	16.48	16.43	16.57	16.50		

Band 42 FCC Part27Q Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3455	3500	3545			
20	QPSK	1	0	16.69	16.72	16.61	17.3	0	
20	QPSK	1	49	16.66	16.64	16.53			
20	QPSK	1	99	16.62	16.57	16.54			
20	QPSK	50	0	16.59	16.64	16.57			
20	QPSK	50	24	16.54	16.55	16.49	17.3	0	
20	QPSK	50	50	16.44	16.51	16.46			
20	QPSK	100	0	16.40	16.41	16.31			
20	16QAM	1	0	16.29	16.33	16.31			
20	16QAM	1	49	16.27	16.34	16.42	17.3	0	
20	16QAM	1	99	16.08	16.09	16.28			
20	16QAM	50	0	16.07	16.08	16.28			
20	16QAM	50	24	16.12	16.13	16.20			
20	16QAM	50	50	16.31	16.31	16.35	17.3	0	
20	16QAM	100	0	16.17	16.21	16.31			
20	64QAM	1	0	16.28	16.34	16.12			
20	64QAM	1	49	16.13	16.24	16.29	17.3	0	
20	64QAM	1	99	16.19	16.25	16.29			
20	64QAM	50	0	16.14	16.14	16.22			
20	64QAM	50	24	16.35	16.22	16.12			
20	64QAM	50	50	16.20	16.19	16.30	17.3	0	
20	64QAM	100	0	16.00	16.07	16.33			
20	256QAM	1	0	16.21	16.19	16.30			
20	256QAM	1	49	16.36	16.20	16.24	17.3	0	
20	256QAM	1	99	16.06	16.04	16.31			
20	256QAM	50	0	16.05	16.18	16.29			
20	256QAM	50	24	16.05	16.05	16.32			
20	256QAM	50	50	16.04	16.12	16.20	17.3	0	
20	256QAM	100	0	16.21	16.27	16.18			
Channel				43165	43590	43915			
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	16.49	16.44	16.58	17.3	0	
15	QPSK	1	37	16.56	16.53	16.48			
15	QPSK	1	74	16.55	16.51	16.50			
15	QPSK	36	0	16.50	16.49	16.49			
15	QPSK	36	20	16.36	16.29	16.37	17.3	0	
15	QPSK	36	39	16.28	16.35	16.47			
15	QPSK	75	0	16.35	16.33	16.17			
15	16QAM	1	0	16.19	16.35	16.15			
15	16QAM	1	37	16.27	16.35	16.29	17.3	0	
15	16QAM	1	74	16.04	15.98	16.11			
15	16QAM	36	0	15.90	16.97	16.19			
15	16QAM	36	20	15.98	16.90	15.97			
15	16QAM	36	39	16.13	16.17	16.17	17.3	0	
15	16QAM	75	0	16.13	16.07	16.20			
15	64QAM	1	0	16.17	16.21	16.03			
15	64QAM	1	37	16.00	16.01	16.18			
15	64QAM	1	74	16.22	16.12	16.04	17.3	0	
15	64QAM	36	0	16.03	15.99	16.12			
15	64QAM	36	20	16.24	16.12	16.08			
15	64QAM	36	39	16.09	16.00	16.22			
15	64QAM	75	0	16.04	15.97	16.15	17.3	0	
15	256QAM	1	0	16.15	16.17	16.11			
15	256QAM	1	37	16.21	16.10	16.07			
15	256QAM	1	74	15.98	16.04	16.17			
15	256QAM	36	0	15.93	16.05	16.25	17.3	0	
15	256QAM	36	20	16.06	15.93	16.13			
15	256QAM	36	39	16.00	16.06	16.22			
15	256QAM	75	0	16.13	16.10	16.17			
Channel				43140	42590	43040			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	16.53	16.65	16.56	17.3	0	
10	QPSK	1	25	16.57	16.54	16.42			
10	QPSK	1	49	16.51	16.45	16.48			
10	QPSK	25	0	16.54	16.54	16.44			
10	QPSK	25	12	16.39	16.38	16.42	17.3	0	
10	QPSK	25	25	16.29	16.35	16.49			
10	QPSK	50	0	16.31	16.32	16.19			
10	16QAM	1	0	16.27	16.31	16.29			
10	16QAM	1	25	16.18	16.23	16.29	17.3	0	
10	16QAM	1	49	15.96	16.00	16.16			
10	16QAM	25	0	16.00	16.91	16.27			
10	16QAM	25	12	15.90	15.97	16.02			
10	16QAM	25	25	16.14	16.24	16.22	17.3	0	
10	16QAM	50	0	16.13	16.14	16.08			
10	64QAM	1	0	16.27	16.24	16.07			
10	64QAM	1	25	16.06	16.03	16.34			
10	64QAM	1	49	16.05	16.10	16.15	17.3	0	
10	64QAM	25	0	16.13	16.03	16.16			
10	64QAM	25	12	16.18	16.22	16.12			
10	64QAM	25	25	16.17	16.08	16.15			
10	64QAM	50	0	15.86	15.90	16.26	17.3	0	
10	256QAM	1	0	16.18	16.17	16.14			
10	256QAM	1	25	16.28	16.20	16.06			
10	256QAM	1	49	15.90	15.91	16.18			
10	256QAM	25	0	15.97	15.95	16.20	17.3	0	
10	256QAM	25	12	15.91	16.04	16.22			
10	256QAM	25	25	15.97	16.08	16.11			
10	256QAM	50	0	16.10	16.21	16.07			
Channel				42115	42590	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	16.50	16.54	16.63	17.3	0	
5	QPSK	1	12	16.45	16.54	16.50			
5	QPSK	1	24	16.52	16.54	16.47			
5	QPSK	12	0	16.41	16.56	16.45			
5	QPSK	12	7	16.35	16.41	16.38	17.3	0	
5	QPSK	12	13	16.30	16.46	16.42			
5	QPSK	25	0	16.32	16.29	16.25			
5	16QAM	1	0	16.31	16.23	16.21			
5	16QAM	1	12	16.32	16.26	16.29	17.3	0	
5	16QAM	1	24	16.06	15.96	16.17			
5	16QAM	12	0	15.95	15.94	16.21			
5	16QAM	12	7	15.94	16.06	16.09			
5	16QAM	12	13	16.20	16.25	16.14	17.3	0	
5	16QAM	25	0	16.17	16.05	16.07			
5	64QAM	1	0	16.14	16.20	15.99			
5	64QAM	1	12	16.11	16.10	16.19			
5	64QAM	1	24	16.19	16.09	16.12	17.3	0	
5	64QAM	12	0	16.06	16.16	16.11			
5	64QAM	12	7	16.25	16.12	15.99			
5	64QAM	12	13	16.02	16.06	16.28			
5	256QAM	25	0	15.92	15.98	16.19	17.3	0	
5	256QAM	1	0	16.15	16.17	16.17			
5	256QAM	1	12	16.28	16.17	16.04			
5	256QAM	1	24	15.94	15.97	16.19			
5	256QAM	12	0	15.98	15.98	16.28	17.3	0	
5	256QAM	12	7	15.92	15.97	16.14			
5	256QAM	12	13	16.05	16.02	16.13			
5	256QAM	25	0	16.11	16.13	16.13			

Band 48_FCC Ant 7											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				55340	55830	56150	56640				
Frequency (MHz)				3560	3609	3641	3690				
20	QPSK	1	0	15.71	15.62	15.51	15.61	16.6	0		
20	QPSK	1	49	15.62	15.49	15.68	15.63				
20	QPSK	1	99	15.70	15.63	15.51	15.51				
20	QPSK	50	0	15.66	15.61	15.53	15.46				
20	QPSK	50	24	15.59	15.65	15.31	15.42	16.6	0		
20	QPSK	50	50	15.45	15.51	15.24	15.34				
20	QPSK	100	0	15.57	15.39	15.24	15.22				
20	16QAM	1	0	15.30	15.43	15.41	15.38				
20	16QAM	1	49	15.42	15.41	15.34	15.24	16.6	0		
20	16QAM	1	99	15.25	15.25	15.25	15.18				
20	16QAM	50	0	15.14	15.30	15.20	15.35				
20	16QAM	50	24	15.19	15.31	15.22	15.11				
20	16QAM	50	50	15.32	15.34	15.31	15.31	16.6	0		
20	16QAM	100	0	15.18	15.24	15.33	15.24				
20	64QAM	1	0	15.27	15.16	15.17	15.16				
20	64QAM	1	49	15.14	15.34	15.23	15.21				
20	64QAM	1	99	15.29	15.36	15.18	15.18	16.6	0		
20	64QAM	50	0	15.23	15.31	15.18	15.16				
20	64QAM	50	24	15.40	15.26	15.14	15.08				
20	64QAM	50	50	15.18	15.29	15.28	15.28				
20	64QAM	100	0	15.10	15.40	15.16	15.29	16.6	0		
20	256QAM	1	0	15.29	15.24	15.13	15.16				
20	256QAM	1	49	15.39	15.16	15.12	15.12				
20	256QAM	1	99	15.13	15.33	15.19	15.13				
20	256QAM	50	0	15.13	15.30	15.15	15.24	16.6	0		
20	256QAM	50	24	15.19	15.24	15.13	15.28				
20	256QAM	50	50	15.13	15.18	15.21	15.02				
20	256QAM	100	0	15.24	15.31	15.41	15.29				
Channel				55315	55820	56160	56665				
Frequency (MHz)				3562.5	3608	3642	3692.5				
15	QPSK	1	0	15.58	15.50	15.35	15.55	16.6	0		
15	QPSK	1	37	15.52	15.42	15.60	15.62				
15	QPSK	1	74	15.58	15.50	15.38	15.34				
15	QPSK	36	0	15.59	15.44	15.52	15.42				
15	QPSK	36	20	15.44	15.50	15.19	15.25	16.6	0		
15	QPSK	36	39	15.39	15.45	15.26	15.22				
15	QPSK	75	0	15.45	15.29	15.16	15.08				
15	16QAM	1	0	15.31	15.26	15.26	15.25				
15	16QAM	1	37	15.32	15.26	15.27	15.09	16.6	0		
15	16QAM	1	74	15.08	15.22	15.15	15.12				
15	16QAM	36	0	15.09	15.32	15.06	15.25				
15	16QAM	36	20	15.03	15.15	15.19	14.98				
15	16QAM	36	39	15.21	15.21	15.24	15.22	16.6	0		
15	16QAM	75	0	15.19	15.08	15.15	15.19				
15	64QAM	1	0	15.24	15.04	15.02	15.01				
15	64QAM	1	37	15.09	15.33	15.14	15.03				
15	64QAM	1	74	15.13	15.26	15.11	15.03	16.6	0		
15	64QAM	36	0	15.09	15.19	15.12	15.08				
15	64QAM	36	20	15.30	15.20	15.06	14.97				
15	64QAM	36	39	15.17	15.26	15.14	15.27				
15	64QAM	75	0	15.05	15.37	15.03	15.14	16.6	0		
15	256QAM	1	0	15.12	15.13	15.10	15.03				
15	256QAM	1	37	15.36	15.04	15.05	14.98				
15	256QAM	1	74	14.99	15.31	15.12	15.13				
15	256QAM	36	0	15.05	15.18	15.11	15.17				
15	256QAM	36	20	15.00	15.15	14.97	15.14				
15	256QAM	36	39	15.00	15.04	15.25	15.07				
15	256QAM	75	0	15.23	15.30	15.31	15.24				
Channel				55295	55810	56165	56690				
Frequency (MHz)				3555	3607.5	3642.5	3695				
10	QPSK	1	0	15.55	15.51	15.39	15.54	16.6	0		
10	QPSK	1	25	15.48	15.32	15.55	15.61				
10	QPSK	1	49	15.53	15.56	15.43	15.29				
10	QPSK	25	0	15.55	15.47	15.43	15.41				
10	QPSK	25	12	15.51	15.46	15.17	15.22	16.6	0		
10	QPSK	25	25	15.24	15.40	15.22	15.24				
10	QPSK	50	0	15.40	15.30	15.17	15.15				
10	16QAM	1	0	15.26	15.28	15.27	15.13				
10	16QAM	1	25	15.30	15.22	15.24	15.09	16.6	0		
10	16QAM	1	49	15.13	15.24	15.15	15.09				
10	16QAM	25	0	15.01	15.20	15.01	15.26				
10	16QAM	25	12	15.02	15.19	15.09	15.08				
10	16QAM	25	25	15.13	15.19	15.19	15.18	16.6	0		
10	16QAM	50	0	15.05	15.15	15.15	15.15				
10	64QAM	1	0	15.18	15.09	14.96	14.96				
10	64QAM	1	25	15.02	15.27	15.06	15.12				
10	64QAM	1	49	15.25	15.22	15.05	15.07	16.6	0		
10	64QAM	25	0	15.12	15.11	15.13	15.08				
10	64QAM	25	12	15.29	15.16	15.03	14.96				
10	64QAM	25	25	15.14	15.23	15.21	15.30				
10	64QAM	50	0	14.93	15.22	15.13	15.23	16.6	0		
10	256QAM	1	0	15.10	15.19	15.02	15.05				
10	256QAM	1	25	15.28	15.08	15.05	15.06				
10	256QAM	1	49	15.02	15.15	15.12	14.96				
10	256QAM	25	0	15.11	15.27	15.06	15.16	16.6	0		
10	256QAM	25	12	14.99	15.17	15.03	15.12				
10	256QAM	25	25	15.08	15.03	15.08	15.07				
10	256QAM	50	0	15.15	15.30	15.25	15.23				
Channel				55265	55810	56170	56715				
Frequency (MHz)				3552.5	3607	3643	3697.5				
5	QPSK	1	0	15.67	15.56	15.49	15.45	16.6	0		
5	QPSK	1	12	15.56	15.47	15.59	15.61				
5	QPSK	1	24	15.55	15.48	15.43	15.40				
5	QPSK	12	0	15.54	15.48	15.52	15.37				
5	QPSK	12	7	15.47	15.51	15.31	15.33	16.6	0		
5	QPSK	12	13	15.44	15.41	15.19	15.21				
5	QPSK	25	0	15.41	15.19	15.07	15.14				
5	16QAM	1	0	15.21	15.37	15.26	15.28				
5	16QAM	1	12	15.21	15.32	15.26	15.18	16.6	0		
5	16QAM	1	24	15.14	15.20	15.22	15.06				
5	16QAM	12	0	15.05	15.17	15.13	15.24				
5	16QAM	12	7	15.04	15.17	15.17	14.99				
5	16QAM	12	13	15.24	15.18	15.17	15.27	16.6	0		
5	16QAM	25	0	15.11	15.07	15.14	15.15				
5	64QAM	1	0	15.28	14.96	15.03	15.00				
5	64QAM	1	12	15.14	15.34	15.20	15.08				
5	64QAM	1	24	15.18	15.27	14.99	15.01				
5	64QAM	12	0	15.11	15.22	15.15	15.11				
5	64QAM	12	7	15.26	15.24	15.02	15.03	16.6	0		
5	64QAM	12	13	15.07	15.16	15.19	15.16				
5	64QAM	25	0	15.06	15.26	15.16	15.16				
5	256QAM	1	0	15.22	15.07	15.06	15.07				
5	256QAM	1	12	15.28	15.04	15.09	15.12	16.6	0		
5	256QAM	1	24	15.01	15.21	15.06	15.10				
5	256QAM	12	0	15.01	15.21	15.06	15.15				
5	256QAM	12	7	14.96	15.14	15.14	15.19				
5	256QAM	12	13	14.96	15.18	15.12	14.96	16.6	0		
5	256QAM	25	0	15.10	15.25	15.22	15.21				



Band 38 Ant 10											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)		
Channel											
Frequency (MHz)											
20	QPSK	1	0	22.75	22.75	22.75	22.75	24	0		
20	QPSK	1	48	22.81	22.86	22.84	22.84				
20	QPSK	50	0	21.71	21.75	21.77	21.77	23	1		
20	QPSK	50	24	21.54	21.71	21.54	21.54				
20	HQAM	1	0	21.34	21.39	21.35	21.35	23	1		
20	HQAM	1	48	21.34	21.59	21.65	21.65				
20	HQAM	50	0	20.53	20.56	20.57	20.57	22	2		
20	HQAM	50	24	20.57	20.59	20.59	20.59				
20	HQAM	100	0	20.56	20.57	20.57	20.57	22	2		
20	HQAM	100	0	20.51	20.55	20.55	20.55				
20	HQAM	1	48	20.76	20.94	20.86	20.86	21	3		
20	HQAM	1	96	20.75	20.89	20.86	20.86				
20	HQAM	50	0	19.54	19.54	19.53	19.53	19	5		
20	HQAM	50	24	19.51	19.57	19.51	19.51				
20	HQAM	50	50	19.57	19.57	19.45	19.45	19	5		
20	HQAM	100	0	19.58	19.59	19.47	19.47				
20	25QAM	1	0	17.75	17.84	17.89	17.89	19	5		
20	25QAM	1	48	17.77	17.86	17.74	17.74				
20	25QAM	1	96	17.79	17.77	17.85	17.85	19	5		
20	25QAM	50	0	17.57	17.62	17.62	17.62				
20	25QAM	50	24	17.55	17.57	17.37	17.37	19	5		
20	25QAM	50	50	17.57	17.59	17.42	17.42				
20	25QAM	100	0	17.58	17.59	17.42	17.42	19	5		
20	25QAM	100	0	17.55	17.58	17.42	17.42				
Channel											
Frequency (MHz)											
15	QPSK	1	0	22.72	22.69	22.72	22.72	24	0		
15	QPSK	1	37	22.89	22.81	22.43	22.43				
15	QPSK	1	74	22.36	22.86	22.46	22.46	23	1		
15	QPSK	36	0	21.61	21.69	21.61	21.61				
15	QPSK	36	20	21.43	21.69	21.45	21.45	23	1		
15	QPSK	36	38	21.59	21.67	21.66	21.66				
15	QPSK	75	0	21.62	21.77	21.65	21.65	23	1		
15	HQAM	1	0	21.34	22.05	21.94	21.94				
15	HQAM	1	37	21.51	21.59	21.52	21.52	22	2		
15	HQAM	1	74	21.89	21.99	21.84	21.84				
15	HQAM	36	0	20.58	20.71	20.46	20.46	22	2		
15	HQAM	36	20	20.53	20.56	20.50	20.50				
15	HQAM	36	36	20.37	20.52	20.40	20.40	22	2		
15	HQAM	75	0	20.57	20.56	20.50	20.50				
15	HQAM	75	0	20.50	20.56	20.50	20.50	21	3		
15	HQAM	1	37	20.89	20.84	20.81	20.81				
15	HQAM	74	0	20.51	20.84	20.81	20.81	19	5		
15	HQAM	36	0	19.54	19.59	19.53	19.53				
15	HQAM	36	20	19.50	19.54	19.41	19.41	21	3		
15	HQAM	75	0	19.54	19.57	19.44	19.44				
15	25QAM	1	0	17.69	17.62	17.83	17.83	19	5		
15	25QAM	1	37	17.72	17.66	17.72	17.72				
15	25QAM	1	74	17.72	17.76	17.77	17.77	19	5		
15	25QAM	36	0	17.55	17.51	17.52	17.52				
15	25QAM	36	20	17.51	17.54	17.50	17.50	19	5		
15	25QAM	36	36	17.49	17.52	17.37	17.37				
15	25QAM	75	0	17.56	17.52	17.50	17.50	19	5		
15	25QAM	75	0	17.56	17.52	17.50	17.50				
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.54	22.73	22.82	22.82	24	0		
5	QPSK	1	12	22.50	22.58	22.53	22.53				
5	QPSK	1	24	22.34	22.59	22.61	22.61	23	1		
5	QPSK	12	0	21.88	21.88	21.71	21.71				
5	QPSK	12	7	21.52	21.86	21.71	21.71	23	1		
5	QPSK	12	13	21.56	21.61	21.55	21.55				
5	QPSK	25	0	21.87	21.97	21.69	21.69	23	1		
5	HQAM	1	0	21.82	21.87	22.01	22.01				
5	HQAM	1	12	21.86	21.86	21.83	21.83	23	1		
5	HQAM	1	24	21.85	22.01	21.82	21.82				
5	HQAM	12	0	20.60	20.76	20.54	20.54	22	2		
5	HQAM	12	7	20.46	20.57	20.50	20.50				
5	HQAM	12	13	20.45	20.48	20.47	20.47	22	2		
5	HQAM	25	0	20.85	20.58	20.46	20.46				
5	HQAM	1	0	20.76	20.85	20.79	20.79	21	3		
5	HQAM	1	12	20.69	20.82	20.86	20.86				
5	HQAM	1	24	20.67	20.82	20.87	20.87	22	2		
5	HQAM	12	0	19.86	19.83	19.43	19.43				
5	HQAM	12	7	19.85	19.85	19.43	19.43	21	3		
5	HQAM	12	13	19.49	19.54	19.45	19.45				
5	HQAM	25	0	19.57	19.67	19.47	19.47	21	3		
5	HQAM	25	0	17.87	17.74	17.81	17.81				
5	25QAM	1	12	17.76	17.77	17.89	17.89	19	5		
5	25QAM	1	24	17.73	17.76	17.81	17.81				
5	25QAM	12	0	17.86	17.86	17.47	17.47	19	5		
5	25QAM	12	7	17.48	17.56	17.35	17.35				
5	25QAM	12	13	17.51	17.53	17.37	17.37	19	5		
5	25QAM	25	0	17.52	17.55	17.51	17.51				

Band 41 Ant 10											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)		
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.24	23.29	23.21	23.24	24	0		
20	QPSK	1	48	23.18	23.14	23.05	23.13				
20	QPSK	50	0	23.17	23.03	22.97	23.04	23	1		
20	QPSK	50	24	22.35	22.32	22.17	22.23				
20	QPSK	50	24	22.36	22.09	22.61	22.14	23	1		
20	QPSK	50	50	22.13	22.05	22.01	22.08				
20	QPSK	100	0	22.34	22.21	22.15	22.23	23	1		
20	16QAM	1	0	22.81	22.50	22.40	22.48				
20	16QAM	1	96	22.54	22.49	22.39	22.45	22	2		
20	16QAM	50	0	21.25	21.13	21.13	21.26				
20	16QAM	50	24	21.23	21.13	20.96	21.10	22	2		
20	16QAM	50	50	21.14	21.08	20.89	20.97				
20	16QAM	100	0	21.22	21.15	21.06	21.12	21	3		
20	16QAM	1	48	21.47	21.40	21.30	21.48				
20	16QAM	1	96	21.35	21.43	21.31	21.33	19	5		
20	16QAM	50	0	20.23	20.08	20.09	20.05				
20	16QAM	50	24	20.12	20.04	19.95	19.99	19	5		
20	16QAM	50	50	20.13	20.03	20.03	19.97				
20	16QAM	100	0	20.14	20.02	19.97	19.99	19	5		
20	25QAM	1	0	18.42	18.40	18.21	18.21				
20	25QAM	1	48	18.33	18.30	18.21	18.27	19	5		
20	25QAM	1	96	18.31	18.37	18.28	18.23				
20	25QAM	50	0	18.30	18.19	18.02	18.08	19	5		
20	25QAM	50	24	18.14	17.91	18.01	17.98				
20	25QAM	50	50	18.10	17.89	17.97	18.04				
20	25QAM	100	0	18.14	18.11	18.06	18.10	19	5		
20	25QAM	100	0	18.12	18.10	18.06	18.06				
Channel											
Frequency (MHz)											
15	QPSK	1	0	23.20	23.23	23.14	23.23	24	0		
15	QPSK	1	37	23.03	23.09	23.01	23.01				
15	QPSK	1	74	23.12	22.97	22.85	22.84	23	1		
15	QPSK	36	0	22.28	22.21						
15	QPSK	36	20	22.15	22.03	21.89	22.03	23	1		
15	QPSK	36	56	22.03	21.97	21.82	21.88				
15	QPSK	75	0	22.22	22.07	22.08	22.20	22	2		
15	16QAM	1	0	22.58	22.44	22.32	22.44				
15	16QAM	1	37	22.41	22.41	22.32	22.32	23	1		
15	16QAM	1	74	22.58	22.36	22.22	22.44				
15	16QAM	36	0	21.23	21.08	20.91	21.10	22	2		
15	16QAM	36	20	21.13	21.08	20.89	21.06				
15	16QAM	36	56	21.03	20.97	20.80	20.92	21	3		
15	16QAM	75	0	21.25	21.07	21.06	21.12				
15	16QAM	1	0	21.47	21.31	21.31	21.30	20	2		
15	16QAM	1	37	21.38	21.27	21.16	21.37				
15	16QAM	1	74	21.45	21.32	21.23	21.35	22	2		
15	16QAM	36	0	20.23	20.04	19.99	20.00				
15	16QAM	36	20	20.08	19.92	19.83	19.91	21	3		
15	16QAM	36	56	19.99	19.94	19.87	19.97				
15	16QAM	75	0	20.02	19.98	19.81	20.01	19	5		
15	25QAM	1	0	18.42	18.40	18.21	18.21				
15	25QAM	1	37	18.34	18.24	18.11	18.22	19	5		
15	25QAM	1	74	18.23	18.20	18.24	18.15				
15	25QAM	36	0	18.35	18.32	18.00	18.00	19	5		
15	25QAM	36	20	18.07	17.81	17.90	17.91				
15	25QAM	36	56	18.00	17.83	17.89	17.79	19	5		
15	25QAM	75	0	18.05	17.88	17.84	18.00				
15	25QAM	100	0	18.08	18.01	17.97	18.00	19	5		
15	25QAM	100	0	18.06	18.01	17.97	18.00				
Channel											
Frequency (MHz)											
10	QPSK	1	0	23.21	23.26	23.13	23.26	24	0		
10	QPSK	1	25	23.10	23.10	22.95	23.11				
10	QPSK	1	50	23.05	22.95	22.81	22.93	23	1		
10	QPSK	25	0	22.30	22.19	22.03	22.11				
10	QPSK	25	12	22.21	22.00	21.92	22.04	23	1		
10	QPSK	25	37	22.04	21.82	21.74	21.83				
10	QPSK	50	0	22.28	22.08	22.11	22.18	22	2		
10	16QAM	1	0	22.53	22.44	22.37	22.41				
10	16QAM	1	25	22.46	22.38	22.29	22.38	23	1		
10	16QAM	1	50	22.60	22.41	22.30	22.44				
10	16QAM	25	0	21.20	21.02	20.89	21.10	22	2		
10	16QAM	25	12	21.11	21.00	20.86	21.03				
10	16QAM	25	37	21.03	21.05	20.76	20.88	21	3		
10	16QAM	50	0	21.25	21.04	20.98	21.09				
10	16QAM	1	0	21.43	21.31	21.28	21.33	22	2		
10	16QAM	1	25	21.35	21.36	21.07	21.37				
10	16QAM	1	50	21.34	21.31	21.17	21.34	22	2		
10	16QAM	25	0	20.19	20.04	20.03	19.95				
10	16QAM	25	12	20.08	19.94	19.87	19.98	21	3		
10	16QAM	25	37	19.98	19.97	19.81	19.94				
10	16QAM	50	0	20.10	19.88	19.83	20.00	19	5		
10	16QAM	50	0	19.92	19.81	19.67	19.83				
10	25QAM	1	0	18.20	18.22	18.08	18.15	19	5		
10	25QAM	1	48	18.18	18.24	18.20	18.13				
10	25QAM	1	96	18.15	18.18	18.17	18.12	19	5		
10	25QAM	25	0	17.88	17.88	17.60	17.87				
10	25QAM	25	12	17.88	17.88	17.64	17.86	19	5		
10	25QAM	50	0	17.87	17.88	17.64	17.86				
Channel											
Frequency (MHz)											
5	QPSK	1	0	23.22	23.20	23.03	23.21	24	0		
5	QPSK	1	12	23.02	23.03	22.97	23.03				
5	QPSK	1	25	22.97	22.97	22.80	22.95	23	1		
5	QPSK	12	0	22.28	22.24	22.07	22.12				
5	QPSK	12	0	22.27	22.19	21.89	22.07	22	2		
5	QPSK	25	0	22.06	22.01	21.82	22.06				
5	QPSK	25	0	22.32	22.07	22.04	22.12	21	3		
5	16QAM	1	0	22.59	22.39	22.28	22.34				
5	16QAM	1	12	22.51	22.38	22.23	22.38	22	2		
5	16QAM	1	25	22.60	22.41	22.34	22.42				
5	16QAM	12	0	21.27	21.07	20.93	21.17	21	3		
5	16QAM	12	7	21.13	21.03	20.85	21.07				
5	16QAM	12	13	21.03	20.96	20.85	20.90	20	2		
5	16QAM	25	0	20.20	20.06	19.92	20.06				
5	16QAM	1	0	21.46	21.37	21.30	21.37	22	2		
5	16QAM	1	12	21.45	21.32	21.16	21.29				
5	16QAM	1	25	21.39	21.34	21.10	21.37	21	3		
5	16QAM	12	0	20.20	19.98	20.05	20.02				
5	16QAM	12	7	20.09	19.98	19.81	19.91	19	5		
5	16QAM	12	13	19.97	19.90	19.81	19.87				
5	25QAM	1	0	18.04	18.03	17.88	18.00	19	5		
5	25QAM	1	24	18.04	18.03	17.88	18.00				
5	25QAM	12	7	18.08	17.84	17.88	17.87	19	5		
5	25QAM	12	13	18.02	17.86	17.85	17.87				
5	25QAM	25	0	18.03	18.07	18.02	18.06	19	5		
5	25QAM	25	12	18.02	17.86	17.85	17.87				

Reduced Power Mode for ECI3

GSM850 Ant 0	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	32.02	31.98	31.84	33.50	23.02	22.98	22.94	24.50
GPRS 1 Tx slot	32.01	32.02	31.91	33.50	23.01	23.02	22.91	24.50
GPRS 2 Tx slots	31.22	31.23	31.16	32.50	25.22	25.23	25.16	26.50
GPRS 3 Tx slots	29.41	29.42	29.33	30.50	25.15	25.16	25.07	26.24
GPRS 4 Tx slots	28.20	28.25	28.13	29.50	25.20	25.25	25.13	26.50
EDGE 1 Tx slot	26.38	26.43	26.45	27.50	17.38	17.43	17.45	18.50
EDGE 2 Tx slots	25.14	25.23	25.37	26.50	19.14	19.23	19.37	20.50
EDGE 3 Tx slots	22.91	22.98	23.07	24.00	18.85	18.72	18.81	19.74
EDGE 4 Tx slots	21.58	21.66	21.69	22.50	18.56	18.66	18.69	19.50

GSM1900 Ant 0	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	28.85	28.84	29.01	30.30	19.85	19.84	20.01	21.30
GPRS 1 Tx slot	28.85	28.86	28.99	30.30	19.85	19.86	19.99	21.30
GPRS 2 Tx slots	26.27	26.31	26.44	27.30	20.27	20.31	20.44	21.30
GPRS 3 Tx slots	24.61	24.51	24.67	25.50	20.35	20.25	20.41	21.24
GPRS 4 Tx slots	23.57	23.64	23.63	24.30	20.57	20.64	20.63	21.30
EDGE 1 Tx slot	25.62	25.48	25.70	26.50	16.62	16.48	16.70	17.50
EDGE 2 Tx slots	24.47	24.31	24.52	25.50	18.47	18.31	18.52	19.50
EDGE 3 Tx slots	22.24	22.06	22.39	23.00	17.98	17.80	18.13	18.74
EDGE 4 Tx slots	21.04	20.77	20.99	22.00	18.04	17.77	17.99	19.00

Band		WCDMA II Ant 0			Tune-up Limit (dBm)	WCDMA IV Ant 0			Tune-up Limit (dBm)	WCDMA V Ant 0			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4162	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	18.71	18.87	18.88	20.20	18.60	18.83	18.82	20.20	23.09	23.38	23.36	24.00
3GPP Rel 99	RMC 12.2Kbps	18.73	19.06	19.00	20.20	18.68	18.98	18.92	20.20	23.22	23.53	23.45	24.00
3GPP Rel 6	HSDPA Subtest-1	17.86	17.94	18.01	19.20	17.75	17.87	17.84	19.20	22.29	22.44	22.39	23.00
3GPP Rel 6	HSDPA Subtest-2	17.91	18.03	17.95	19.20	17.81	17.97	17.86	19.20	22.29	22.43	22.44	23.00
3GPP Rel 6	HSDPA Subtest-3	17.38	17.54	17.35	18.70	17.52	17.55	17.21	18.70	21.90	21.95	21.87	22.50
3GPP Rel 6	HSDPA Subtest-4	17.31	17.52	17.42	18.70	17.28	17.42	17.30	18.70	21.84	21.91	21.89	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	17.89	17.88	17.93	19.20	17.80	17.85	17.82	19.20	22.36	22.33	22.31	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	17.78	17.83	17.80	19.20	17.78	17.74	17.73	19.20	22.26	22.32	22.30	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	17.35	17.49	17.33	18.70	17.38	17.34	17.17	18.70	21.83	21.89	21.78	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	17.22	17.43	17.23	18.70	17.22	17.42	17.22	18.70	21.76	21.84	21.77	22.50
3GPP Rel 6	HSUPA Subtest-1	17.72	17.98	17.87	19.20	17.59	17.82	17.85	19.20	22.25	22.40	22.34	23.00
3GPP Rel 6	HSUPA Subtest-2	15.88	15.95	15.87	17.20	15.85	15.92	15.84	17.20	20.35	20.48	20.36	21.00
3GPP Rel 6	HSUPA Subtest-3	16.88	17.15	16.97	18.20	16.90	17.01	16.71	18.20	21.35	21.58	21.37	22.00
3GPP Rel 6	HSUPA Subtest-4	15.70	15.93	15.83	17.20	15.67	15.90	15.78	17.20	20.16	20.41	20.30	21.00
3GPP Rel 6	HSUPA Subtest-5	17.71	17.83	17.92	19.20	17.66	17.86	17.89	19.20	22.16	22.32	22.43	23.00
3GPP Rel 7	HSPA+ (10QAM) Subtest-1	15.39	15.44	15.60	16.70	15.33	15.35	15.46	16.70	19.96	19.93	20.04	20.50

Band 2 Ant 0										
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch. Freq. 18500	Power Ch. Freq. 18900	Power Ch. Freq. 19100	Turn-on time (dBm)	MPR (dB)		
Chemical										
Frequency (MHz)										
20	QPSK	1	0	18.13	18.37	18.50				
20	QPSK	1	49	18.25	18.19	18.15			19.1	0
20	QPSK	50	0	18.13	18.22	18.30				
20	QPSK	50	0	18.00	18.11	18.12				
20	QPSK	50	24	18.16	18.03	18.14			19.1	0
20	QPSK	50	49	18.15	18.06	18.05				
20	QPSK	100	0	17.84	17.97	17.89				
20	16QAM	1	0	17.88	17.86	17.88				
20	16QAM	50	0	17.88	17.78	17.82			19.1	0
20	16QAM	1	59	17.82	17.84	17.88				
20	16QAM	50	0	17.87	17.73	17.80				
20	16QAM	50	24	17.82	17.78	17.82			19.1	0
20	16QAM	50	49	17.83	17.95	17.99				
20	16QAM	100	0	17.78	17.76	17.80				
20	16QAM	50	59	17.82	17.73	17.82			19.1	0
20	64QAM	1	49	17.92	17.73	17.94			19.1	
20	64QAM	1	59	18.00	17.75	17.89				
20	64QAM	50	0	17.80	17.77	17.81				
20	64QAM	50	24	17.99	17.83	17.89			19.1	0
20	64QAM	50	49	17.84	17.79	17.83				
20	256QAM	1	0	17.65	17.68	17.68				
20	256QAM	1	49	17.57	17.57	17.58			19	0.1
20	256QAM	50	0	17.60	17.62	17.62				
20	256QAM	50	24	17.57	17.63	17.62			19	0.1
20	256QAM	50	49	17.60	17.57	17.58				
20	256QAM	100	0	17.52	17.61	17.62				
Chemical										
Frequency (MHz)										
18	QPSK	1	0	18.00	18.21	18.20				
18	QPSK	1	57	18.11	18.05	18.06			19.1	0
18	QPSK	1	59	18.09	18.14	18.14				
18	QPSK	50	0	17.97	18.11	18.00				
18	QPSK	36	0	18.00	17.95	17.90			19.1	0
18	QPSK	50	0	18.00	17.88	17.89				
18	QPSK	50	0	17.78	18.02	17.80				
18	16QAM	1	0	17.62	17.84	17.69				
18	16QAM	1	57	17.65	17.93	17.73			19.1	0
18	16QAM	1	74	17.71	17.58	17.73				
18	16QAM	36	0	17.88	17.86	17.85				
18	16QAM	50	0	17.54	17.68	17.60			19.1	0
18	16QAM	36	59	17.73	17.81	17.88				
18	16QAM	75	0	17.68	17.76	17.72				
18	16QAM	50	59	17.68	17.63	17.62			19.1	0
18	64QAM	1	74	17.81	17.59	17.82				
18	64QAM	50	0	17.52	17.62	17.62			19.1	0
18	64QAM	36	0	17.84	17.81	17.82				
18	64QAM	50	59	17.78	17.65	17.67				
18	256QAM	1	0	17.53	17.53	17.53			19.1	0
18	256QAM	1	0	17.54	17.52	17.58				
18	256QAM	1	57	17.50	17.60	17.47			19	0.1
18	256QAM	50	0	17.54	17.54	17.54				
18	256QAM	75	0	17.47	17.57	17.49				
Chemical										
Frequency (MHz)										
18	QPSK	1	0	18.04	18.26	18.25				
18	QPSK	1	25	18.14	18.13	18.13			19.1	0
18	QPSK	1	49	18.10	18.13	18.10				
18	QPSK	50	0	17.98	18.11	18.00				
18	QPSK	24	12	18.11	17.87	18.00				
18	QPSK	25	0	18.11	17.86	18.00				
18	QPSK	50	0	17.75	17.99	17.78				
18	16QAM	1	0	17.62	17.86	17.64				
18	16QAM	1	49	17.65	17.94	17.73			19.1	0
18	16QAM	1	69	17.70	17.54	17.64				
18	16QAM	25	0	17.81	17.62	17.80				
18	16QAM	50	0	17.48	17.68	17.50			19.1	0
18	16QAM	50	25	17.82	17.63	17.82				
18	16QAM	50	0	17.70	17.63	17.70				
18	16QAM	50	25	17.71	17.61	17.64			19.1	0
18	64QAM	1	25	17.82	17.65	17.82				
18	64QAM	1	49	17.89	17.69	17.77				
18	64QAM	25	0	17.60	17.62	17.60			19.1	0
18	64QAM	50	25	17.93	17.68	17.93				
18	64QAM	25	25	17.97	17.68	17.97				
18	256QAM	1	0	17.48	17.62	17.48			19	0.1
18	256QAM	1	0	17.56	17.62	17.53				
18	256QAM	1	25	17.67	17.68	17.63				
18	256QAM	25	0	17.60	17.62	17.58				
18	256QAM	25	25	17.40	17.41	17.44			19	0.1
18	256QAM	50	0	17.48	17.58	17.48				
18	256QAM	50	0	17.45	17.54	17.44				
Chemical										
Frequency (MHz)										
18	QPSK	1	0	18.08	18.20	18.19				
18	QPSK	1	12	18.17	18.04	18.06			19.1	0
18	QPSK	1	24	18.13	18.10	18.10				
18	QPSK	1	49	17.98	18.01	18.01				
18	QPSK	12	7	18.11	17.93	18.03			19.1	0
18	QPSK	13	0	18.04	17.94	18.04				
18	QPSK	25	0	17.88	17.98	17.91				
18	16QAM	1	0	17.64	17.84	17.62				
18	16QAM	1	12	17.68	17.96	17.85			19.1	0
18	16QAM	1	24	17.68	17.84	17.66				
18	16QAM	13	0	17.76	17.97	17.79			19.1	0
18	16QAM	13	7	17.84	17.88	17.84				
18	16QAM	25	0	17.71	17.60	17.76				
18	16QAM	25	7	17.82	17.76	17.80			19.1	0
18	64QAM	1	24	17.84	17.62	17.81				
18	64QAM	13	0	17.88	17.69	17.89			19.1	0
18	64QAM	13	7	17.93	17.63	17.89				
18	64QAM	25	0	17.73	17.72	17.83				
18	64QAM	25	7	17.87	17.67	17.87				
18	256QAM	1	0	17.60	17.58	17.54				
18	256QAM	1	12	17.69	17.44	17.53			19	0.1
18	256QAM	13	0	17.64	17.51	17.58				
18	256QAM	13	7	17.62	17.58	17.58				
18	256QAM	25	0	17.42	17.48	17.44			19	0.1
18	256QAM	25	7	17.48	17.36	17.46				
18	256QAM	25	0	17.47	17.57	17.48				

Band 4 Ant 0										
Ant (MHz)	Modulation	RF SS	RF Offset	Power (dBm)	Power (dBm) 20050	Power (dBm) 20175	Power (dBm) 20375	Turn-on time (s)	MFR (dB)	
Channel										
20	QPSK	1	0	17.83	17.91	17.91	17.92			
20	QPSK	1	46	17.82	17.81	17.78		19.2	0	
20	QPSK	1	92	17.82	17.80	17.82				
20	QPSK	50	0	17.82	17.82	17.83				
20	QPSK	50	24	17.72	17.67	17.68		19.2	0	
20	QPSK	50	70	17.72	17.67	17.68				
20	QPSK	100	0	17.84	17.81	17.87				
20	QPSK	100	46	17.84	17.82	17.83		19.2	0	
20	QPSK	1	99	17.77	17.31	17.66				
20	QPSK	50	0	17.83	17.79	17.86				
20	QPSK	50	46	17.83	17.81	17.82		19.2	0	
20	QPSK	50	92	17.57	17.59	17.58		19.2	0	
20	QPSK	100	0	17.45	17.41	17.66				
20	QPSK	100	46	17.45	17.43	17.45		19.2	0	
20	QPSK	1	49	17.62	17.43	17.53		19.2	0	
20	QPSK	1	95	17.62	17.39	17.53				
20	QPSK	1	141	17.62	17.39	17.53				
20	QPSK	50	24	17.65	17.46	17.44		19.2	0	
20	QPSK	50	70	17.36	17.43	17.57				
20	QPSK	100	0	17.44	17.56	17.54				
20	QPSK	1	46	17.39	17.46	17.44		19	0.2	
20	QPSK	1	92	17.46	17.43	17.45				
20	QPSK	50	24	17.33	17.39	17.27		19	0.2	
20	QPSK	50	70	17.46	17.43	17.45				
20	QPSK	100	0	17.42	17.63	17.48				
Channel										
20050 20175 20375										
Frequency (MHz)										
15	QPSK	1	0	17.71	17.84	17.75				
15	QPSK	1	37	17.76	17.65	17.72				
15	QPSK	1	74	17.62	17.63	17.72				
15	QPSK	1	0	17.55	17.77	17.74				
15	QPSK	36	20	17.65	17.56	17.78		19.2	0	
15	QPSK	36	56	17.61	17.61	17.61				
15	QPSK	36	0	17.43	17.55	17.50		19.2	0	
15	QPSK	1	0	17.80	17.48	17.61				
15	QPSK	1	37	17.61	17.53	17.61		19.2	0	
15	QPSK	1	74	17.30	17.26	17.41				
15	QPSK	36	0	17.80	17.34	17.46				
15	QPSK	36	36	17.27	17.28	17.28		19.2	0	
15	QPSK	36	99	17.48	17.42	17.42				
15	QPSK	75	0	17.34	17.31	17.38				
15	QPSK	75	0	17.46	17.43	17.45		19.2	0	
15	QPSK	1	37	17.50	17.34	17.42		19.2	0	
15	QPSK	1	74	17.61	17.25	17.38				
15	QPSK	36	20	17.27	17.33	17.33		19.2	0	
15	QPSK	36	20	17.48	17.34	17.52		19.2	0	
15	QPSK	36	56	17.22	17.34	17.43				
15	QPSK	36	0	17.32	17.48	17.45				
15	QPSK	1	37	17.34	17.41	17.28		19	0.2	
15	QPSK	36	20	17.21	17.23	17.18				
15	QPSK	36	20	17.42	17.38	17.44		19.2	0	
15	QPSK	36	99	17.35	17.40	17.40				
15	QPSK	1	0	17.82	17.47	17.57				
15	QPSK	1	46	17.72	17.22	17.34		19.2	0	
15	QPSK	1	92	17.72	17.22	17.34				
15	QPSK	25	0	17.49	17.25	17.58				
15	QPSK	25	0	17.49	17.25	17.58		19.2	0	
15	QPSK	25	25	17.43	17.60	17.43				
15	QPSK	50	0	17.31	17.35	17.38				
15	QPSK	50	0	17.47	17.47	17.47		19.2	0	
15	QPSK	1	25	17.51	17.37	17.48		19.2	0	
15	QPSK	1	49	17.50	17.25	17.58				
15	QPSK	1	73	17.23	17.23	17.33		19.2	0	
15	QPSK	25	25	17.48	17.34	17.52		19.2	0	
15	QPSK	25	25	17.30	17.34	17.47				
15	QPSK	25	25	17.23	17.23	17.33		19.2	0	
15	QPSK	1	25	17.28	17.31	17.34		19	0.2	
15	QPSK	1	25	17.33	17.33	17.33				
15	QPSK	25	0	17.31	17.32	17.32				
15	QPSK	25	12	19.19	19.30	19.13		19	0.2	
15	QPSK	25	12	17.34	17.34	17.34				
15	QPSK	50	0	17.36	17.36	17.36				
Channel										
20050 20175 20375										
Frequency (MHz)										
5	QPSK	1	0	17.75	17.72	17.71				
5	QPSK	1	12	17.71	17.74	17.69		19.2	0	
5	QPSK	1	24	17.71	17.62	17.71				
5	QPSK	1	36	17.45	17.48	17.61				
5	QPSK	12	7	17.65	17.62	17.64		19.2	0	
5	QPSK	12	13	17.69	17.61	17.64				
5	QPSK	12	19	17.45	17.44	17.44				
5	QPSK	1	0	17.52	17.36	17.61				
5	QPSK	1	12	17.55	17.51	17.47		19.2	0	
5	QPSK	1	24	17.45	17.38	17.38				
5	QPSK	12	0	17.53	17.28	17.48				
5	QPSK	12	12	17.26	17.26	17.48		19.2	0	
5	QPSK	12	12	17.45	17.49	17.43				
5	QPSK	1	0	17.33	17.36	17.40				
5	QPSK	1	12	17.46	17.46	17.46		19.2	0	
5	QPSK	12	12	17.32	17.41	17.41				
5	QPSK	1	24	17.51	17.28	17.48				
5	QPSK	12	12	17.36	17.36	17.36		19.2	0	
5	QPSK	12	12	17.51	17.30	17.39				
5	QPSK	12	13	17.23	17.33	17.48				
5	QPSK	20	20	17.25	17.25	17.25		19.2	0	
5	QPSK	12	0	17.29	17.42	17.47				
5	QPSK	12	12	17.23	17.34	17.28		19	0.2	
5	QPSK	12	12	17.51	17.23	17.34				
5	QPSK	12	0	17.26	17.32	17.34				
5	QPSK	15	7	17.27	17.33	17.15		19	0.2	
5	QPSK	15	7	17.36	17.36	17.36				
5	QPSK	15	0	17.30	17.48	17.42				

Band 5 Ant 0											
BW (MHz)	Modulation	RBs Size	RBs Offset	Power		Power		Turn-on time (dB)	MFR (dB)		
				Power Class 1	Power Class 2	Power Class 1	Power Class 2				
Channel				20465	20505	20605	20645				
10	OFDM	1	0	22.52	22.54	22.44					
10	OFDM	1	26	22.37	22.39	22.31		24	0		
10	OFDM	1	49	22.12	22.13	22.05					
10	OFDM	25	0	21.50	21.51	21.50					
10	OFDM	25	12	21.32	21.34	21.34					
10	OFDM	25	12	21.30	21.31	21.36		23	1		
10	OFDM	50	0	21.44	21.54	21.42					
10	OFDM	1	0	21.70	21.83	21.75					
10	OFDM	1	26	21.45	21.46	21.46		23	1		
10	OFDM	1	49	21.64	21.65	21.68					
10	OFDM	1	75	21.78	21.79	21.82					
10	OFDM	25	0	20.37	20.41	20.33					
10	OFDM	25	12	20.37	20.38	20.39					
10	OFDM	25	25	20.23	20.23	20.23		22	2		
10	OFDM	50	0	20.34	20.37	20.33					
10	OFDM	50	12	20.34	20.37	20.33					
10	OFDM	1	26	20.53	20.67	20.63					
10	OFDM	1	49	20.50	20.59	20.62					
10	OFDM	1	75	20.56	20.65	20.68					
10	OFDM	25	12	19.28	19.34	19.23		21	3		
10	OFDM	25	12	19.32	19.28	19.25					
10	OFDM	25	25	19.36	19.36	19.36					
10	256QAM	1	0	17.56	17.61	17.68					
10	256QAM	1	26	17.52	17.56	17.57		19	5		
10	256QAM	1	49	17.53	17.57	17.57					
10	256QAM	25	0	17.30	17.42	17.30					
10	256QAM	25	12	17.28	17.29	17.23					
10	256QAM	25	12	17.30	17.31	17.31		19	5		
10	256QAM	50	0	17.35	17.37	17.23					
Channel				20465	20505	20605	20645	Turn-on time (dB)	MFR (dB)		
Frequency (MHz)				20465	20505	20605	20645				
3	OFDM	1	0	22.43	22.50	22.37					
3	OFDM	1	12	22.34	22.34	22.24					
3	OFDM	1	26	22.11	22.13	22.11					
3	OFDM	12	0	21.47	21.54	21.42					
3	OFDM	12	7	21.24	21.35	21.23					
3	OFDM	12	7	21.24	21.35	21.23					
3	OFDM	25	0	21.33	21.44	21.25					
3	OFDM	25	0	21.33	21.44	21.25					
3	OFDM	1	0	21.64	21.75	21.66					
3	OFDM	1	26	21.40	21.45	21.41		24	1		
3	OFDM	1	24	21.54	21.78	21.75					
3	OFDM	12	0	20.24	20.33	20.23					
3	OFDM	12	0	20.24	20.30	20.23					
3	OFDM	12	19	20.14	20.28	20.15		22	2		
3	OFDM	12	19	20.14	20.28	20.15					
3	OFDM	25	0	20.32	20.33	20.29					
3	OFDM	25	0	20.32	20.33	20.29					
3	OFDM	1	12	20.50	20.61	20.55		22	2		
3	OFDM	1	24	20.47	20.46	20.55					
3	OFDM	1	24	20.47	20.46	20.55					
3	OFDM	12	0	19.19	19.30	19.21					
3	OFDM	12	0	19.19	19.30	19.21					
3	OFDM	12	13	19.24	19.24	19.19					
3	OFDM	12	13	19.24	19.24	19.19					
3	256QAM	1	0	17.51	17.56	17.67					
3	256QAM	1	12	17.38	17.46	17.31		19	5		
3	256QAM	1	12	17.38	17.46	17.31					
3	256QAM	12	0	17.23	17.28	17.20					
3	256QAM	12	7	17.12	17.23	17.05					
3	256QAM	12	7	17.12	17.18	17.05		19	5		
3	256QAM	25	0	17.27	17.28	17.17					
3	256QAM	25	0	17.27	17.28	17.17					
Channel				20465	20505	20605	20645	Turn-on time (dB)	MFR (dB)		
Frequency (MHz)				20465	20505	20605	20645				
3	OFDM	1	0	22.40	22.51	22.37					
3	OFDM	1	8	22.30	22.33	22.28					
3	OFDM	1	19	22.16	22.32	22.21					
3	OFDM	1	24	21.42	21.48	21.44		24	0		
3	OFDM	8	4	21.29	21.35	21.31					
3	OFDM	8	4	21.29	21.35	21.31		23	1		
3	OFDM	16	7	21.19	21.28	21.18					
3	OFDM	16	7	21.38	21.49	21.31					
3	OFDM	1	0	21.68	21.80	21.71					
3	OFDM	1	8	21.74	21.79	21.74		23	1		
3	OFDM	1	14	21.50	21.76	21.55					
3	OFDM	8	0	20.24	20.37	20.23					
3	OFDM	8	0	20.41	20.36	20.23					
3	OFDM	8	8	20.17	20.21	20.22		22	2		
3	OFDM	16	0	20.26	20.24	20.22					
3	OFDM	16	0	20.26	20.29	20.23					
3	OFDM	1	8	20.45	20.59	20.55		22	2		
3	OFDM	1	14	20.41	20.52	20.49					
3	OFDM	8	4	19.15	19.36	19.11					
3	OFDM	8	4	19.15	19.36	19.11					
3	OFDM	8	7	19.26	19.23	19.18		21	3		
3	OFDM	8	7	19.26	19.23	19.18					
3	OFDM	8	0	17.52	17.48	17.49					
3	256QAM	1	8	17.48	17.52	17.38		19	5		
3	256QAM	8	0	17.48	17.48	17.38					
3	256QAM	8	0	17.23	17.38	17.25					
3	256QAM	8	4	17.24	17.18	17.16					
3	256QAM	8	4	17.24	17.18	17.16		19	5		
3	256QAM	16	0	17.23	17.25	17.17					
3	256QAM	16	0	17.23	17.25	17.17					
Channel				20467	20503	20603	20643	Turn-on time (dB)	MFR (dB)		
Frequency (MHz)				20467	20503	20603	20643				
1.4	OFDM	1	0	22.48	22.40	22.38					
1.4	OFDM	1	3	22.26	22.37	22.21					
1.4	OFDM	1	6	22.09	22.28	22.21					
1.4	OFDM	1	24	21.44	21.48	21.44		24	0		
1.4	OFDM	1	3	22.24	22.31	22.21					
1.4	OFDM	1	3	22.10	22.24	22.11					
1.4	OFDM	1	45	21.40	21.47	21.38		23	1		
1.4	OFDM	1	0	21.29	21.34	21.23					
1.4	OFDM	1	3	21.28	21.29	21.18					
1.4	OFDM	1	3	21.22	21.44	21.33					
1.4	OFDM	1	0	21.65	21.69	21.71		23	1		
1.4	OFDM	1	3	21.68	21.68	21.61					
1.4	OFDM	1	3	21.72	21.77	21.67					
1.4	OFDM	1	0	20.29	20.29	20.28		22	2		
1.4	OFDM	1	0	20.29	20.29	20.28					
1.4	OFDM	1	0	20.40	20.55	20.51					
1.4	OFDM	1	9	20.37	20.48	20.56		22	2		
1.4	OFDM	1	0	20.52	20.52	20.47					
1.4	OFDM	3	0	20.27	20.53	20.48					
1.4	OFDM	6	0	20.30	20.40	20.50		21	3		
1.4	256QAM	1	0	17.46	17.48	17.47					
1.4	256QAM	1	0	17.46	17.48	17.47					
1.4	256QAM	3	0	17.46	17.53	17.38		19	5		
1.4	256QAM	3	0	17.46	17.53	17.38					
1.4	256QAM	3	0	17.27	17.38	17.27					
1.4	256QAM	3	1	17.23	17.16	17.10					
1.4	256QAM	3	1	17.26	17.29	17.21					
1.4	256QAM	6	0	17.25	17.30	17.22		19	5		

Band 12 Ant 0											
BB (MHz)	Modulation	FSB (Hz)	PRB (CH)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Turn-up (dBm)	MFR (dB)		
Chemical				23065	23065	23101	23101				
Frequency (MHz)				1	1	1	1				
10	SPSK	1	0	23.03	23.03	23.03	23.03				
10	SPSK	1	26	22.88	22.83	22.83		24	0		
10	SPSK	25	0	23.18	23.17	23.17					
10	SPSK	25	0	22.04	22.10	22.04					
10	SPSK	25	12	21.87	21.84	21.80		23	1		
10	SPSK	25	0	22.18	22.16	22.16					
10	SPSK	50	0	22.03	22.12	22.00					
10	ISQAM	1	0	22.23	22.42	22.24					
10	ISQAM	1	0	22.27	22.20	22.20		23	1		
10	ISQAM	1	0	22.22	22.23	22.23					
10	ISQAM	25	0	20.86	21.00	20.84					
10	ISQAM	25	0	20.82	20.82	20.82					
10	ISQAM	25	26	20.80	20.91	20.85		22	2		
10	ISQAM	50	0	20.83	20.87	20.89					
10	ISQAM	1	26	21.02	21.24	21.13					
10	ISQAM	1	26	21.02	21.24	21.13					
10	ISQAM	1	48	21.08	21.10	21.20					
10	ISQAM	1	48	21.07	21.07	21.07					
10	ISQAM	25	12	19.76	19.82	19.76		21	3		
10	ISQAM	25	25	19.80	19.84	19.83					
10	ISQAM	25	25	19.80	19.80	19.80					
10	25QAM	1	0	18.09	18.19	18.19					
10	25QAM	1	25	18.02	18.10	18.04		19	5		
10	25QAM	1	25	18.07	18.07	18.07					
10	25QAM	25	0	17.81	18.01	17.81					
10	25QAM	25	0	17.76	17.79	17.73		19	5		
10	25QAM	25	0	17.82	17.82	17.82					
10	25QAM	50	0	17.36	17.53	17.40					
Chemical				23065	23065	23101	23101				
Frequency (MHz)				1	1	1	1	Turn-up (dBm)	MFR (dB)		
5	SPSK	1	0	22.94	23.04	22.90					
5	SPSK	1	12	22.78	22.80	22.70		24	0		
5	SPSK	1	12	22.71	22.71	22.71					
5	SPSK	12	0	21.96	22.04	21.92					
5	SPSK	12	7	21.78	21.83	21.81					
5	SPSK	12	7	21.70	21.74	21.74					
5	SPSK	25	0	21.91	21.98	21.80					
5	ISQAM	1	0	22.11	22.32	22.10					
5	ISQAM	1	0	22.11	22.11	22.11					
5	ISQAM	1	24	22.07	22.19	22.11					
5	ISQAM	12	0	20.83	20.81	20.73					
5	ISQAM	12	0	20.82	20.82	20.82					
5	ISQAM	12	13	20.76	20.83	20.73					
5	ISQAM	25	0	20.73	20.78	20.84					
5	ISQAM	25	0	20.73	20.73	20.73					
5	ISQAM	1	12	20.94	21.18	21.02		11	2		
5	ISQAM	1	24	21.01	20.97	21.07					

Band 13 Ant 0									
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.66	22.66	22.66	24	0	
10	QPSK	1	25	22.61	22.61	22.61			
10	QPSK	1	49	22.66	22.66	22.66			
10	QPSK	25	0	22.66	22.66	22.66	23	1	
10	QPSK	25	12	21.84	21.84	21.84			
10	QPSK	25	25	21.81	21.81	21.81			
10	QPSK	50	0	21.85	21.85	21.85	23	1	
10	16QAM	1	0	22.26	22.26	22.26			
10	16QAM	1	25	22.24	22.24	22.24			
10	16QAM	1	49	22.26	22.26	22.26	22	2	
10	16QAM	25	0	20.94	20.94	20.94			
10	16QAM	25	12	20.90	20.90	20.90			
10	16QAM	25	25	20.90	20.90	20.90	21	3	
10	16QAM	50	0	20.79	20.79	20.79			
10	16QAM	50	0	21.14	21.14	21.14			
10	64QAM	1	0	21.06	21.06	21.06	22	2	
10	64QAM	1	25	21.06	21.06	21.06			
10	64QAM	1	49	21.06	21.06	21.06			
10	64QAM	25	0	19.83	19.83	19.83	21	3	
10	64QAM	25	12	19.76	19.76	19.76			
10	64QAM	25	25	19.71	19.71	19.71			
10	64QAM	50	0	19.83	19.83	19.83	19	5	
10	256QAM	1	0	16.90	16.90	16.90			
10	256QAM	1	25	16.94	16.94	16.94			
10	256QAM	1	49	17.69	17.69	17.69	19	5	
10	256QAM	25	0	17.68	17.68	17.68			
10	256QAM	25	12	17.78	17.78	17.78			
10	256QAM	25	25	17.79	17.79	17.79	19	5	
10	256QAM	50	0	17.70	17.70	17.70			
10	256QAM	50	0	17.70	17.70	17.70			

Band 14 Ant 0									
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.74	22.74	22.74	24	0	
10	QPSK	1	25	22.69	22.69	22.69			
10	QPSK	1	49	22.69	22.69	22.69			
10	QPSK	25	0	21.79	21.79	21.79	23	1	
10	QPSK	25	12	21.67	21.67	21.67			
10	QPSK	25	25	21.55	21.55	21.55			
10	QPSK	50	0	21.73	21.73	21.73	23	1	
10	16QAM	1	0	22.03	22.03	22.03			
10	16QAM	1	25	22.05	22.05	22.05			
10	16QAM	1	49	22.09	22.09	22.09	22	2	
10	16QAM	25	0	20.70	20.70	20.70			
10	16QAM	25	12	20.62	20.62	20.62			
10	16QAM	25	25	20.52	20.52	20.52	21	3	
10	16QAM	50	0	20.56	20.56	20.56			
10	16QAM	50	0	20.96	20.96	20.96			
10	64QAM	1	0	20.96	20.96	20.96	22	2	
10	64QAM	1	25	20.90	20.90	20.90			
10	64QAM	1	49	20.90	20.90	20.90			
10	64QAM	25	0	19.83	19.83	19.83	21	3	
10	64QAM	25	12	19.97	19.97	19.97			
10	64QAM	25	25	19.85	19.85	19.85			
10	64QAM	50	0	19.84	19.84	19.84	19	5	
10	256QAM	1	0	17.66	17.66	17.66			
10	256QAM	1	25	17.76	17.76	17.76			
10	256QAM	1	49	17.76	17.76	17.76	19	5	
10	256QAM	25	0	17.69	17.69	17.69			
10	256QAM	25	12	17.65	17.65	17.65			
10	256QAM	25	25	17.68	17.68	17.68	19	5	
10	256QAM	50	0	17.68	17.68	17.68			
10	256QAM	50	0	17.68	17.68	17.68			

Band 17 Ant 0									
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.79	22.83	22.79	24	0	
10	QPSK	1	25	22.83	22.87	22.83			
10	QPSK	1	49	22.49	22.65	22.69			
10	QPSK	25	0	21.84	21.80	21.81	23	1	
10	QPSK	25	12	21.68	21.74	21.70			
10	QPSK	25	25	21.60	21.72	21.69			
10	QPSK	50	0	21.80	21.81	21.79	23	1	
10	16QAM	1	0	22.03	22.08	22.03			
10	16QAM	1	25	22.03	22.13	22.07			
10	16QAM	1	49	21.82	22.09	21.94	22	2	
10	16QAM	25	0	20.73	20.87	20.69			
10	16QAM	25	12	20.67	20.79	20.65			
10	16QAM	25	25	20.66	20.84	20.65	21	3	
10	16QAM	50	0	20.63	20.65	20.65			
10	64QAM	1	0	20.94	20.99	21.00	22	2	
10	64QAM	1	25	20.86	21.04	20.97			
10	64QAM	1	49	20.85	20.88	20.85			
10	64QAM	25	0	19.72	19.73	19.59	21	3	
10	64QAM	25	12	19.63	19.67	19.60			
10	64QAM	25	25	19.62	19.56	19.61			
10	64QAM	50	0	19.58	19.62	19.54	19	5	
10	256QAM	1	0	17.61	17.67	17.59			
10	256QAM	1	25	17.62	17.71	17.71			
10	256QAM	1	49	17.60	17.78	17.69	19	5	
10	256QAM	25	0	17.68	17.71	17.61			
10	256QAM	25	12	17.59	17.69	17.45			
10	256QAM	25	25	17.63	17.70	17.60	19	5	
10	256QAM	50	0	17.60	17.73	17.67			
10	256QAM	50	0	17.60	17.73	17.67			

Band 25 Ant 0									
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	18.15	18.14	18.22	19	0	
20	QPSK	1	25	18.16	18.21	18.21			
20	QPSK	1	49	18.22	18.29	18.27			
20	QPSK	25	0	17.88	18.24	18.15	19	0	
20	QPSK	25	12	18.10	18.10	18.11			
20	QPSK	25	25	18.09	18.10	18.15			
20	QPSK	50	0	17.85	18.09	17.87	19	0	
20	16QAM	1	0	17.96	17.96	17.96			
20	16QAM	1	25	17.96	17.96	17.97			
20	16QAM	1	49	18.04	17.96	17.97	19	0	
20	16QAM	25	0	17.76	17.72	17.81			
20	16QAM	25	12	17.76	17.72	17.85			
20	16QAM	25	25	17.80	17.72	17.91	19	0	
20	16QAM	50	0	17.75	17.79	17.95			
20	16QAM	50	0	17.75	17.79	17.88			
20	64QAM	1	0	17.99	17.99	17.99	19	0	
20	64QAM	1	25	18.06	17.81	17.99			
20	64QAM	1	49	17.98	17.79	17.91			
20	64QAM	25	0	17.76	17.72	17.85	19	0	
20	64QAM	25	12	17.77	17.84	17.88			
20	64QAM	25	25	17.82	17.79	17.86			
20	256QAM	1	0	17.66	17.66	17.66	19	0	
20	256QAM	1	25	17.66	17.66	17.66			
20	256QAM	1	49	17.66	17.66	17.66			
20	256QAM	25	0	17.66	17.66	17.66	19	0	
20	256QAM	25	12	17.66	17.66	17.66			
20	256QAM	25	25	17.66	17.66	17.66			
20	256QAM	50	0	17.66	17.66	17.66	19	0	
20	256QAM	50	0	17.66	17.66	17.66			
20	256QAM	50	0	17.66	17.66	17.66			
Channel									
Frequency (MHz)									
10	QPSK	1	0	18.09	18.10	18.10	19	0	
10	QPSK	1	25	18.08	18.12	18.08			
10	QPSK	1	49	18.07	18.14	18.02			
10	QPSK	25	0	17.83	18.05	18.05	19	0	
10	QPSK	25	12	17.83	18.08	18.08			
10	QPSK	25	25	17.99	18.04	18.09			
10	QPSK	50	0	17.79	18.02	17.82	19	0	
10	QPSK	1	0	17.94	17.82	17.88			
10	QPSK	1	25	17.71	17.68	17.75			
10	QPSK	25	0	17.71	17.68	17.75	19	0	
10	QPSK	25	12	17.71	17.68	17.75			
10	QPSK	25	25	17.88	17.83	17.85			
10	QPSK	50	0	17.65	17.65	17.72	19	0	
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	25	0	17.65	17.65	17.72	19	0	
10	QPSK	25	12	17.65	17.65	17.72			
10	QPSK	25	25	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72	19	0	
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	25	0	17.65	17.65	17.72	19	0	
10	QPSK	25	12	17.65	17.65	17.72			
10	QPSK	25	25	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72	19	0	
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	25	0	17.65	17.65	17.72	19	0	
10	QPSK	25	12	17.65	17.65	17.72			
10	QPSK	25	25	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72	19	0	
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	25	0	17.65	17.65	17.72	19	0	
10	QPSK	25	12	17.65	17.65	17.72			
10	QPSK	25	25	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72	19	0	
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	25	0	17.65	17.65	17.72	19	0	
10	QPSK	25	12	17.65	17.65	17.72			
10	QPSK	25	25	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72	19	0	
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	25	0	17.65	17.65	17.72	19	0	
10	QPSK	25	12	17.65	17.65	17.72			
10	QPSK	25	25	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72	19	0	
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	25	0	17.65	17.65	17.72	19	0	
10	QPSK	25	12	17.65	17.65	17.72			
10	QPSK	25	25	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72	19	0	
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	25	0	17.65	17.65	17.72	19	0	
10	QPSK	25	12	17.65	17.65	17.72			
10	QPSK	25	25	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72	19	0	
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	25	0	17.65	17.65	17.72	19	0	
10	QPSK	25	12	17.65	17.65	17.72			
10	QPSK	25	25	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72	19	0	
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	25	0	17.65	17.65	17.72	19	0	
10	QPSK	25	12	17.65	17.65	17.72			
10	QPSK	25	25	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72	19	0	
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	25	0	17.65	17.65	17.72	19	0	
10	QPSK	25	12	17.65	17.65	17.72			
10	QPSK	25	25	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72	19	0	
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	25	0	17.65	17.65	17.72	19	0	
10	QPSK	25	12	17.65	17.65	17.72			
10	QPSK	25	25	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72	19	0	
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	25	0	17.65	17.65	17.72	19	0	
10	QPSK	25	12	17.65	17.65	17.72			
10	QPSK	25	25	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72	19	0	
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	25	0	17.65	17.65	17.72	19	0	
10	QPSK	25	12	17.65	17.65	17.72			
10	QPSK	25	25	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72	19	0	
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	25	0	17.65	17.65	17.72	19	0	
10	QPSK	25	12	17.65	17.65	17.72			
10	QPSK	25	25	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72	19	0	
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	25	0	17.65	17.65	17.72	19	0	
10	QPSK	25	12	17.65	17.65	17.72			
10	QPSK	25	25	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72	19	0	
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	25	0	17.65	17.65	17.72	19	0	
10	QPSK	25	12	17.65	17.65	17.72			
10	QPSK	25	25	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72	19	0	
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	25	0	17.65	17.65	17.72	19	0	
10	QPSK	25	12	17.65	17.65	17.72			
10	QPSK	25	25	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72	19	0	
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	25	0	17.65	17.65	17.72	19	0	
10	QPSK	25	12	17.65	17.65	17.72			
10	QPSK	25	25	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72	19	0	
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	25	0	17.65	17.65	17.72	19	0	
10	QPSK	25	12	17.65	17.65	17.72			
10	QPSK	25	25	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72	19	0	
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	50	0	17.65	17.65	17.72			
10	QPSK	25	0	17.65	17.65	17.72	19	0	
10	QPSK	25	12	17.65	17.65	17.72			
10	QPSK	25	25	17.65	17.65				



Band 26 for FCC Ant 0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up Init. (dB)	MFR (dB)				
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.55	22.64	22.61			24	0		
15	QPSK	1	3	22.45	22.54	22.58						
15	QPSK	36	0	21.63	21.73	21.54						
15	QPSK	36	26	21.46	21.56	21.47						
15	QPSK	36	39	21.34	21.43	21.47			23	1		
15	QPSK	75	0	21.58	21.62	21.60						
15	16QAM	1	0	21.82	21.84	21.85						
15	16QAM	1	37	21.74	21.85	21.81						
15	16QAM	1	74	21.79	21.84	21.69			23	1		
15	16QAM	36	0	20.41	20.52	20.52						
15	16QAM	36	20	20.44	20.53	20.47						
15	16QAM	36	39	20.39	20.49	20.36						
15	16QAM	75	0	20.37	20.51	20.49			22	2		
15	16QAM	1	0	20.77	20.84	20.77						
15	16QAM	1	37	20.70	20.76	20.62						
15	16QAM	1	74	20.68	20.73	20.65						
15	16QAM	36	0	19.45	19.55	19.42			21	3		
15	16QAM	36	20	19.35	19.47	19.34						
15	16QAM	36	39	19.31	19.36	19.40						
15	16QAM	75	0	19.38	19.50	19.42						
15	256QAM	1	0	17.71	17.74	17.70			19	5		
15	256QAM	1	37	17.57	17.67	17.63						
15	256QAM	1	74	17.68	17.64	17.58						
15	256QAM	36	0	17.43	17.56	17.58						
15	256QAM	36	20	17.33	17.41	17.34			19	5		
15	256QAM	36	39	17.38	17.48	17.39						
15	256QAM	75	0	17.38	17.48	17.42						
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.55	22.42	22.48			24	0		
15	QPSK	1	26	22.48	22.46	22.33						
15	QPSK	1	49	22.32	22.33	22.22						
15	QPSK	26	0	21.62	21.49	21.47						
15	QPSK	26	12	21.45	21.41	21.33			23	1		
15	QPSK	26	25	21.32	21.22	21.33						
15	QPSK	50	0	21.65	21.69	21.76						
15	16QAM	1	0	21.82	21.87	21.79						
15	16QAM	1	26	21.83	21.84	21.75			23	1		
15	16QAM	1	49	21.79	21.75	21.67						
15	16QAM	25	0	20.40	20.34	20.46						
15	16QAM	25	12	20.46	20.34	20.37						
15	16QAM	25	25	20.35	20.29	20.38			22	2		
15	16QAM	50	0	20.35	20.29	20.34						
15	16QAM	1	0	20.68	20.63	20.68						
15	16QAM	1	26	20.63	20.54	20.63						
15	16QAM	1	49	20.58	20.57	20.53			21	3		
15	16QAM	25	0	19.42	19.30	19.37						
15	16QAM	25	12	19.34	19.29	19.28						
15	16QAM	25	25	19.20	19.23	19.33						
15	16QAM	50	0	19.35	19.31	19.28			19	5		
15	256QAM	1	0	17.63	17.60	17.63						
15	256QAM	1	25	17.59	17.44	17.58						
15	256QAM	1	49	17.56	17.49	17.56						
15	256QAM	25	0	17.52	17.35	17.31			19	5		
15	256QAM	25	12	17.29	17.28	17.28						
15	256QAM	25	25	17.34	17.21	17.24						
15	256QAM	50	0	17.36	17.24	17.32						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.43	22.23	22.47			24	0		
5	QPSK	1	12	22.43	22.29	22.40						
5	QPSK	1	24	22.34	22.20	22.21						
5	QPSK	12	7	21.68	21.59	21.47						
5	QPSK	12	13	21.51	21.42	21.29			23	1		
5	QPSK	12	19	21.33	21.20	21.37						
5	QPSK	36	0	21.85	21.87	21.71						
5	16QAM	1	0	21.85	21.68	21.72						
5	16QAM	1	12	21.80	21.68	21.72			23	1		
5	16QAM	1	24	21.75	21.76	21.74						
5	16QAM	12	0	20.47	20.32	20.47						
5	16QAM	12	7	20.47	20.39	20.34						
5	16QAM	12	13	20.36	20.38	20.27			22	2		
5	16QAM	25	0	20.40	20.29	20.39						
5	16QAM	25	0	20.69	20.63	20.71						
5	16QAM	1	0	20.61	20.62	20.68						
5	16QAM	1	24	20.64	20.62	20.63			22	2		
5	16QAM	12	0	19.42	19.29	19.27						
5	16QAM	12	7	19.37	19.29	19.26						
5	16QAM	12	13	19.23	19.23	19.31						
5	16QAM	25	0	19.42	19.25	19.31			21	3		
5	16QAM	25	12	19.37	19.28	19.26						
5	256QAM	1	0	17.67	17.63	17.62						
5	256QAM	1	12	17.58	17.47	17.62						
5	256QAM	1	24	17.58	17.54	17.52			19	5		
5	256QAM	12	0	17.48	17.34	17.34						
5	256QAM	12	7	17.30	17.29	17.22						
5	256QAM	12	13	17.41	17.27	17.35						
5	256QAM	25	0	17.37	17.27	17.28			19	5		
5	256QAM	25	0	17.37	17.27	17.28						
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.53	22.40	22.47			24	0		
3	QPSK	1	8	22.47	22.34	22.33						
3	QPSK	1	14	22.34	22.30	22.22						
3	QPSK	8	0	21.63	21.61	21.46						
3	QPSK	8	4	21.43	21.36	21.29			23	1		
3	QPSK	8	7	21.29	21.18	21.32						
3	QPSK	16	0	21.15	21.43	21.46						
3	16QAM	1	0	21.80	21.72	21.75						
3	16QAM	1	8	21.74	21.63	21.75			23	1		
3	16QAM	1	14	21.65	21.75	21.67						
3	16QAM	8	0	20.46	20.35	20.36						
3	16QAM	8	4	20.44	20.39	20.35						
3	16QAM	8	7	20.35	20.29	20.25			22	2		
3	16QAM	16	0	20.36	20.32	20.33						
3	16QAM	1	0	20.75	20.70	20.73						
3	16QAM	1	8	20.67	20.62	20.53						
3	16QAM	1	14	20.58	20.58	20.54			21	3		
3	16QAM	8	0	19.45	19.31	19.29						
3	16QAM	8	4	19.36	19.23	19.20						
3	16QAM	8	7	19.25	19.18	19.31						
3	16QAM	16	0	19.40	19.25	19.36			19	5		
3	256QAM	1	0	17.61	17.56	17.56						
3	256QAM	1	8	17.60	17.42	17.63						
3	256QAM	1	14	17.58	17.48	17.53						
3	256QAM	8	0	17.46	17.33	17.26			19	5		
3	256QAM	8	4	17.35	17.28	17.23						
3	256QAM	8	7	17.26	17.17	17.33						
3	256QAM	16	0	17.40	17.34	17.36						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.52	22.45	22.45			24	0		
1.4	QPSK	1	3	22.47	22.31	22.35						
1.4	QPSK	1	5	22.29	22.31	22.16						
1.4	QPSK	3	0	22.47	22.37	22.41						
1.4	QPSK	3	1	22.35	22.19	22.27			23	1		
1.4	QPSK	3	3	22.20	22.19	22.05						
1.4	QPSK	6	0	21.57	21.43	21.39						
1.4	16QAM	1	0	21.87	21.72	21.72						
1.4	16QAM	1	3	21.79	21.61	21.66			23	1		
1.4	16QAM	1	5	21.79	21.65	21.61						
1.4	16QAM	3	0	21.77	21.60	21.68						
1.4	16QAM	6	0	20.46	20.23	20.40			22	2		
1.4	16QAM	6	0	20.80	20.66	20.75						
1.4	16QAM	3	0	20.81	20.63	20.70						
1.4	16QAM	6	0	20.66	20.53	20.59			22	2		
1.4	16QAM	6	0	20.71	20.59	20.62						
1.4	16QAM	3	0	20.52	20.50	20.47						
1.4	16QAM	3	3	20.58	20.48	20.35			21	3		
1.4	16QAM	6	0	19.45	19.25	19.38						
1.4	16QAM	6	0	19.45	19.25	19.38						
1.4	256QAM	1	0	17.58	17.51	17.50			19	5		
1.4	256QAM	1	6	17.57	17.60	17.44						
1.4	256QAM	1	12	17.38	17.38	17.43						
1.4	256QAM	3	0	17.31	17.26	17.36			19	5		
1.4	256QAM	3	3	17.31	17.25	17.38						
1.4	256QAM	3	6	17.24	17.24	17.32						



Band 38 Ant 0												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Turn-up time (dBm)	MFR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	18.55	18.53	18.52	20.1	0				
20	QPSK	1	49	18.60	18.63	18.67						
20	QPSK	50	0	18.62	18.73	18.80						
20	QPSK	50	24	18.58	18.61	18.60						
20	QPSK	50	49	18.36	18.39	18.46	20.1	0				
20	QPSK	100	0	18.35	18.47	18.33						
20	HQAM	1	0	18.46	18.53	18.43						
20	HQAM	1	99	18.29	18.39	18.31						
20	HQAM	50	24	18.26	18.23	18.34	20.1	0				
20	HQAM	50	50	18.39	18.37	18.35						
20	HQAM	100	0	18.23	18.20	18.26						
20	HQAM	100	0	18.38	18.31	18.20						
20	HQAM	1	49	18.40	18.39	18.42	20.1	0				
20	HQAM	1	99	18.45	18.31	18.32						
20	HQAM	50	50	18.35	18.22	18.25						
20	HQAM	100	0	18.25	18.16	18.36						
20	256QAM	1	0	17.52	17.60	17.53	19	1.1				
20	256QAM	1	49	17.48	17.56	17.48						
20	256QAM	1	99	17.51	17.56	17.55						
20	256QAM	50	24	17.25	17.26	17.17						
20	256QAM	50	24	17.30	17.28	17.24	19	1.1				
20	256QAM	100	0	17.24	17.28	17.28						
20	256QAM	100	0	17.25	17.28	17.28						
Channel												
Frequency (MHz)												
15	QPSK	1	0	18.43	18.52	18.17				20.1	0	
15	QPSK	1	37	18.50	18.49	18.48						
15	QPSK	1	74	18.49	18.60	18.67						
15	QPSK	36	0	18.38	18.63	18.61						
15	QPSK	36	20	18.42	18.46	18.53	20.1	0				
15	QPSK	36	20	18.42	18.46	18.53						
15	QPSK	75	0	18.29	18.33	18.19						
15	QPSK	75	0	18.29	18.33	18.19						
15	HQAM	1	0	18.34	18.44	18.30	20.1	0				
15	HQAM	1	37	18.32	18.31	18.20						
15	HQAM	1	74	18.20	18.42	18.22						
15	HQAM	36	0	18.39	18.16	18.22						
15	HQAM	36	20	18.24	18.27	18.26	20.1	0				
15	HQAM	75	0	18.13	18.15	18.24						
15	HQAM	75	0	18.27	18.22	18.25						
15	HQAM	1	37	18.31	18.14	18.27						
15	HQAM	36	20	18.26	18.15	18.18	20.1	0				
15	HQAM	36	20	18.12	18.15	18.20						
15	HQAM	75	0	18.15	18.14	18.24						
15	HQAM	75	0	18.15	18.14	18.24						
15	256QAM	1	0	17.50	17.56	17.43	19	1.1				
15	256QAM	1	37	17.47	17.45	17.38						
15	256QAM	1	74	17.42	17.46	17.43						
15	256QAM	36	0	17.15	17.33	17.18						
15	256QAM	36	20	17.14	17.17	17.05	19	1.1				
15	256QAM	36	20	17.25	17.13	17.20						
15	256QAM	75	0	17.26	17.19	17.16						
15	256QAM	75	0	17.26	17.19	17.16						
Channel												
Frequency (MHz)												
10	QPSK	1	0	18.43	18.52	18.17	20.1	0				
10	QPSK	1	25	18.52	18.46	18.50						
10	QPSK	1	49	18.51	18.65	18.67						
10	QPSK	25	0	18.34	18.59	18.50						
10	QPSK	25	12	18.41	18.39	18.50	20.1	0				
10	QPSK	25	25	18.51	18.43	18.41						
10	QPSK	50	0	18.36	18.39	18.32						
10	HQAM	1	0	18.38	18.39	18.32						
10	HQAM	1	25	18.24	18.26	18.38	20.1	0				
10	HQAM	1	49	18.15	18.48	18.24						
10	HQAM	25	0	18.29	18.15	18.21						
10	HQAM	25	12	18.25	18.23	18.23						
10	HQAM	50	0	18.13	18.11	18.22	20.1	0				
10	HQAM	50	0	18.27	18.15	18.20						
10	HQAM	25	25	18.26	18.23	18.21						
10	HQAM	25	25	18.26	18.23	18.21						
10	HQAM	1	25	18.34	18.10	18.31	20.1	0				
10	HQAM	1	49	18.33	18.27	18.22						
10	HQAM	25	0	18.17	18.14	18.18						
10	HQAM	25	12	18.28	18.18	18.10						
10	HQAM	25	12	18.28	18.18	18.10	20.1	0				
10	HQAM	50	0	18.15	18.17	18.22						
10	HQAM	50	0	18.15	18.17	18.22						
10	HQAM	50	0	18.15	18.17	18.22						
10	HQAM	1	25	18.40	18.12	18.20	20.1	0				
10	HQAM	1	49	18.39	18.11	18.17						
10	HQAM	25	0	18.48	18.17	18.22						
10	HQAM	25	12	18.20	18.31	18.17						
10	HQAM	25	25	18.40	18.12	18.20	20.1	0				
10	HQAM	50	0	18.15	18.15	18.24						
10	HQAM	50	0	18.15	18.15	18.24						
10	HQAM	50	0	18.15	18.15	18.24						
10	256QAM	1	0	17.61	17.46	17.42	19	1.1				
10	256QAM	1	25	17.41	17.46	17.40						
10	256QAM	1	49	17.38	17.43	17.39						
10	256QAM	25	0	17.22	17.28	17.20						
10	256QAM	25	12	17.17	17.16	17.07	19	1.1				
10	256QAM	25	12	17.22	17.15	17.09						
10	256QAM	25	25	17.22	17.15	17.09						
10	256QAM	50	0	17.24	17.22	17.22						
Channel												
Frequency (MHz)												
5	QPSK	1	0	18.45	18.57	18.57	20.1	0				
5	QPSK	1	12	18.53	18.51	18.57						
5	QPSK	1	24	18.52	18.58	18.57						
5	QPSK	12	0	18.29	18.63	18.47						
5	QPSK	12	7	18.44	18.38	18.49	20.1	0				
5	QPSK	12	13	18.54	18.45	18.41						
5	QPSK	25	0	18.35	18.39	18.29						
5	HQAM	1	0	18.35	18.49	18.33						
5	HQAM	1	12	18.32	18.24	18.32	20.1	0				
5	HQAM	1	24	18.16	18.43	18.18						
5	HQAM	12	0	18.31	18.11	18.24						
5	HQAM	12	7	18.15	18.11	18.19						
5	HQAM	12	13	18.27	18.31	18.26	20.1	0				
5	HQAM	25	0	18.12	18.16	18.21						
5	HQAM	25	0	18.28	18.25	18.15						
5	HQAM	25	0	18.14	18.18	18.27						
5	HQAM	1	24	18.32	18.17	18.24	20.1	0				
5	HQAM	12	0	18.11	18.16	18.27						
5	HQAM	12	7	18.24	18.16	18.14						
5	HQAM	12	7	18.14	18.18	18.28						
5	HQAM	12	13	18.14	18.11	18.19	20.1	0				
5	HQAM	25	0	18.17	18.16	18.27						
5	HQAM	25	0	18.14	18.18	18.28						
5	HQAM	25	0	18.17	18.16	18.27						
5	256QAM	1	0	17.45	17.45	17.45	19	1.1				
5	256QAM	1	12	17.39	17.40	17.39						
5	256QAM	1	24	17.37	17.42	17.43						
5	256QAM	12	0	17.15	17.15	17.17	19	1.1				
5	256QAM	12	7	17.09	17.18	17.07						
5	256QAM	12	13	17.21	17.13	17.09						
5	256QAM	12	13	17.21	17.13	17.09						
5	256QAM	50	0	17.20	17.20	17.24						
5	256QAM	50	0	17.20	17.20	17.24						

Band		WCDMA II Ant 1			Tune-up Limit (dBm)	WCDMA IV Ant 1			Tune-up Limit (dBm)	WCDMA V Ant 1			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9462	9600	9738		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1890	1907.6		1712.4	1732.6	1752.8		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	16.32	16.64	16.59	17.50	18.34	18.62	18.54	20.20	22.89	23.24	23.23	24.00
3GPP Rel 99	RMC 12.2Kbps	16.35	16.77	16.67	17.50	18.41	18.72	18.59	20.20	23.08	23.37	23.26	24.00
3GPP Rel 6	HSDPA Subtest-1	15.54	15.53	15.62	16.50	17.46	17.74	17.55	19.20	22.13	22.31	22.20	23.00
3GPP Rel 6	HSDPA Subtest-2	15.61	15.71	15.66	16.50	17.55	17.67	17.58	19.20	22.19	22.29	22.24	23.00
3GPP Rel 6	HSDPA Subtest-3	15.10	15.30	14.97	16.00	17.03	17.24	17.13	18.70	21.71	21.82	21.78	22.50
3GPP Rel 6	HSDPA Subtest-4	15.00	15.17	15.11	16.00	17.05	17.05	17.03	18.70	21.70	21.77	21.69	22.50
3GPP Rel 8	DCHSDPA Subtest-1	15.64	15.59	15.60	16.50	17.44	17.53	17.53	19.20	22.17	22.16	22.14	24.00
3GPP Rel 8	DCHSDPA Subtest-2	15.53	15.55	15.44	16.50	17.44	17.43	17.56	19.20	22.10	22.15	22.14	23.00
3GPP Rel 8	DCHSDPA Subtest-3	15.09	15.16	14.99	16.00	17.09	17.07	17.07	18.70	21.66	21.79	21.67	23.50
3GPP Rel 8	DCHSDPA Subtest-4	14.89	15.07	14.87	16.00	17.03	16.98	16.96	18.70	21.64	21.71	21.64	23.50
3GPP Rel 6	HSUPA Subtest-1	15.41	15.64	15.66	16.50	17.40	17.62	17.63	19.20	22.11	22.31	22.17	23.00
3GPP Rel 6	HSUPA Subtest-2	13.61	13.63	13.59	14.50	15.61	15.59	15.60	17.20	20.22	20.31	20.25	22.00
3GPP Rel 6	HSUPA Subtest-3	14.56	14.78	14.61	15.50	16.47	16.79	16.64	18.20	21.20	21.40	21.27	23.00
3GPP Rel 6	HSUPA Subtest-4	13.41	13.57	13.60	14.50	15.36	15.70	15.54	17.20	20.03	20.25	20.19	22.00
3GPP Rel 6	HSUPA Subtest-5	15.33	15.55	15.58	16.50	17.39	17.60	17.60	19.20	21.99	22.18	22.26	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	13.11	13.15	13.28	14.00	15.18	15.18	15.24	16.70	19.77	19.79	19.94	21.50



Band 2 Ant 1														
BW [MHz]	Modulation	RS Size	RS Offset	Power Low Ch./Freq.	Power Hsp Ch./Freq.	Power Hsp Ch./Freq.	Time-up int. (sec)	MPR (dB)						
Channel														
Frequency [MHz]														
20	QPSK	1	0	16.76	16.87	16.77			17.0	0				
20	QPSK	1	60	16.76	16.76	16.76								
20	QPSK	1	99	16.76	16.76	16.77								
20	QPSK	50	0	16.81	16.75	16.79			17.0	0				
20	QPSK	50	24	16.80	16.83	16.74								
20	QPSK	50	50	16.74	16.82	16.80								
20	QPSK	100	0	16.72	16.82	16.81			17.0	0				
20	QPSK	100	24	16.76	16.77	16.81								
20	16QAM	1	49	16.76	16.77	16.80			17.0	0				
20	16QAM	1	99	16.82	16.80	16.72								
20	16QAM	5	0	16.76	16.73	16.72			17.0	0				
20	16QAM	5	24	16.76	16.79	16.77								
20	16QAM	50	0	16.76	16.79	16.74			17.0	0				
20	16QAM	100	0	16.76	16.74	16.80								
20	64QAM	1	0	16.79	16.73	16.81			17.0	0				
20	64QAM	1	49	16.79	16.81	16.81								
20	64QAM	5	0	16.81	16.74	16.82			17.0	0				
20	64QAM	50	0	16.80	16.76	16.72								
20	64QAM	24	0	16.76	16.77	16.75			17.0	0				
20	64QAM	50	0	16.76	16.73	16.76								
20	256QAM	1	49	16.76	16.75	16.79			17.0	0				
20	256QAM	1	99	16.73	16.76	16.72								
20	256QAM	5	0	16.76	16.73	16.75			17.0	0				
20	256QAM	50	24	16.76	16.73	16.79								
20	256QAM	50	50	16.74	16.81	16.81			17.0	0				
20	256QAM	100	0	16.74	16.80	16.78								
Channel														
Frequency [MHz]														
15	QPSK	1	0	16.67	16.67	16.67			17.0	0				
15	QPSK	1	37	16.68	16.69	16.69								
15	QPSK	1	74	16.74	16.67	16.70			17.0	0				
15	QPSK	50	0	16.72	16.68	16.68								
15	QPSK	50	24	16.74	16.74	16.68			17.0	0				
15	QPSK	36	99	16.63	16.76	16.67								
15	QPSK	75	0	16.69	16.63	16.69			17.0	0				
15	16QAM	1	49	16.67	16.63	16.71								
15	16QAM	1	37	16.68	16.70	16.65			17.0	0				
15	16QAM	5	0	16.76	16.73	16.76								
15	16QAM	36	0	16.65	16.60	16.68			17.0	0				
15	16QAM	36	20	16.70	16.72	16.64								
15	16QAM	75	0	16.68	16.63	16.70			17.0	0				
15	64QAM	1	0	16.68	16.59	16.70								
15	64QAM	1	37	16.74	16.67	16.74			17.0	0				
15	64QAM	1	74	16.72	16.67	16.68								
15	64QAM	36	0	16.72	16.65	16.62			17.0	0				
15	64QAM	36	20	16.76	16.73	16.70								
15	64QAM	36	99	16.72	16.63	16.65			17.0	0				
15	64QAM	75	0	16.64	16.63	16.67								
15	256QAM	1	37	16.64	16.69	16.71			17.0	0				
15	256QAM	1	74	16.64	16.66	16.64								
15	256QAM	36	0	16.65	16.65	16.68			17.0	0				
15	256QAM	36	20	16.67	16.67	16.68								
15	256QAM	36	99	16.67	16.76	16.73			17.0	0				
15	256QAM	75	0	16.68	16.64	16.65								
Channel														
Frequency [MHz]														
10	QPSK	1	0	16.65	16.75	16.69			17.0	0				
10	QPSK	1	25	16.66	16.69	16.69								
10	QPSK	1	49	16.65	16.68	16.71			17.0	0				
10	QPSK	50	0	16.66	16.66	16.66								
10	QPSK	25	12	16.65	16.77	16.66			17.0	0				
10	QPSK	25	25	16.67	16.76	16.65								
10	QPSK	12	13	16.60	16.76	16.61			17.0	0				
10	16QAM	1	0	16.63	16.64	16.73								
10	16QAM	1	25	16.68	16.64	16.74			17.0	0				
10	16QAM	1	49	16.72	16.68	16.70								
10	16QAM	5	0	16.68	16.63	16.69			17.0	0				
10	16QAM	25	0	16.68	16.63	16.69								
10	16QAM	25	12	16.71	16.64	16.67			17.0	0				
10	16QAM	25	25	16.68	16.65	16.68								
10	16QAM	50	0	16.67	16.62	16.71			17.0	0				
10	64QAM	1	0	16.68	16.57	16.68								
10	64QAM	1	49	16.71	16.60	16.68			17.0	0				
10	64QAM	25	0	16.71	16.70	16.58								
10	64QAM	25	12	16.67	16.64	16.67			17.0	0				
10	64QAM	25	25	16.68	16.65	16.68								
10	256QAM	1	25	16.65	16.65	16.69			17.0	0				
10	256QAM	1	49	16.68	16.67	16.62								
10	256QAM	49	0	16.66	16.65	16.69			17.0	0				
10	256QAM	12	13	16.68	16.60	16.65								
10	256QAM	12	25	16.65	16.72	16.62			17.0	0				
10	256QAM	25	12	16.62	16.61	16.68								
10	256QAM	25	25	16.60	16.69	16.73			17.0	0				
10	256QAM	50	0	16.60	16.65	16.71								
Channel														
Frequency [MHz]														
5	QPSK	1	0	16.62	16.71	16.65			17.0	0				
5	QPSK	1	12	16.64	16.66	16.62								
5	QPSK	1	24	16.71	16.60	16.71			17.0	0				
5	QPSK	12	13	16.62	16.68	16.73								
5	QPSK	12	7	16.75	16.76	16.61			17.0	0				
5	QPSK	12	13	16.60	16.76	16.68								
5	QPSK	25	21	16.63	16.71	16.70			17.0	0				
5	16QAM	1	0	16.64	16.66	16.70								
5	16QAM	1	12	16.74	16.69	16.73			17.0	0				
5	16QAM	1	14	16.69	16.74	16.62								
5	16QAM	12	0	16.64	16.63	16.65			17.0	0				
5	16QAM	12	7	16.66	16.68	16.69								
5	16QAM	12	13	16.64	16.66	16.68			17.0	0				
5	16QAM	25	0	16.71	16.67	16.65								
5	64QAM	1	0	16.67	16.60	16.67			17.0	0				
5	64QAM	1	49	16.66	16.73	16.69								
5	64QAM	1	24	16.67	16.61	16.68			17.0	0				
5	64QAM	12	0	16.67	16.70	16.62								
5	64QAM	12	13	16.69	16.66	16.63			17.0	0				
5	64QAM	25	0	16.70	16.60	16.65								
5	256QAM	1	0	16.65	16.66	16.61			17.0	0				
5	256QAM	1	12	16.65	16.61	16.70								
5	256QAM	1	24	16.64	16.69	16.67			17.0	0				
5	256QAM	12	13	16.67	16.67	16.69								
5	256QAM	12	7	16.61	16.68	16.71			17.0	0				
5	256QAM	25	0	16.61	16.66	16.64								
Channel														
Frequency [MHz]														
3	QPSK	1	0	16.61	16.68	16.64			17.0	0				
3	QPSK	1	8	16.62	16.78	16.65								
3	QPSK	1	8	16.65	16.63	16.65			17.0	0				
3	QPSK	1	14	16.70	16.61	16.70								
3	QPSK	8	0	16.71	16.66	16.70			17.0	0				
3	QPSK	8	7	16.61	16.73	16.68								
3	QPSK	15	0	16.63	16.25	16.69			17.0	0				
3	QPSK	15	7	16.64	16.73	16.68								
3	16QAM	1	0	16.68	16.58	16.65			17.0	0				
3	16QAM	1	8	16.68	16.58	16.65								
3	16QAM	1	8	16.70	16.59	16.66			17.0	0				
3	16QAM	8	7	16.70	16.70	16.64								
3	16QAM	8	14	16.65	16.68	16.69			17.0	0				
3	16QAM	8	14	16.72	16.72	16.66								
3	16QAM	8	7	16.71	16.65	16.67			17.0	0				
3	16QAM	8	7	16.65	16.62	16.65								
3	16QAM	8	7	16.68	16.62	16.61			17.0	0				
3	16QAM	16	0	16.65	16.64	16.65								
3	16QAM	16	8	16.65	16.63	16.65			17.0	0				
3	16QAM	16	8	16.65	16.63	16.65								
3	256QAM	1	0	16.65	16.60	16.71			17.0	0				
3	256QAM	1	14	16.64	16.70	16.61								
3	256QAM	1	14	16.65	16.68	16.62			17.0	0				
3	256QAM	8	0	16.66	16.63	16.64								
3	256QAM	8	0	16.64	16.62	16.68			17.0	0				
3	256QAM	8	7	16.64	16.71	16.72								
3	256QAM	8	7	16.64	16.69	16.68			17.0	0				
Channel														
Frequency [MHz]														
1.4	QPSK	1	0	16.60	16.65	16.62						17.0	0	
1.4	QPSK	1	5	16.61	16.67	16.72								
1.4	QPSK	1	5	16.68	16.68	16.68			17.0	0				
1.4	QPSK	3	1	16.73	16.74	16.64								
1.4	QPSK	3	1	16.62	16.62	16.74			17.0	0				
1.4	QPSK	3	1	16.67	16.65	16.72								
1.4	16QAM	1	0	16.64	16.72	16.68			17.0	0				
1.4	16QAM	1	5	16.69	16.63	16.74								
1.4	16QAM	3	1	16.70	16.65	16.74			17.0	0				
1.4	16QAM	3	1	16.70	16.70	16.61								



Band 13 Ant 1												
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int (dB)	MPE (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.65	22.65	22.65	24	0				
10	QPSK	1	25	22.70	22.70	22.70						
10	QPSK	1	49	22.67	22.67	22.67						
10	QPSK	25	0	21.64	21.64	21.64						
10	QPSK	25	12	21.74	21.74	21.74	23	1				
10	QPSK	25	25	21.69	21.69	21.69						
10	QPSK	50	0	21.65	21.65	21.65						
10	16QAM	1	0	22.65	22.65	22.65						
10	16QAM	1	25	22.69	22.69	22.69	23	1				
10	16QAM	1	49	22.67	22.67	22.67						
10	16QAM	25	0	20.70	20.70	20.70						
10	16QAM	25	12	20.74	20.74	20.74						
10	16QAM	25	25	20.69	20.69	20.69	22	2				
10	16QAM	50	0	20.62	20.62	20.62						
10	64QAM	1	0	21.50	21.50	21.50						
10	64QAM	1	25	20.99	20.99	20.99						
10	64QAM	1	49	20.95	20.95	20.95	21	3				
10	64QAM	25	0	19.67	19.67	19.67						
10	64QAM	25	12	19.69	19.69	19.69						
10	64QAM	25	25	19.52	19.52	19.52						
10	64QAM	50	0	19.70	19.70	19.70	19	5				
10	256QAM	1	25	17.84	17.84	17.84						
10	256QAM	1	49	17.87	17.87	17.87						
10	256QAM	25	0	17.68	17.68	17.68						
10	256QAM	25	12	17.61	17.61	17.61	19	5				
10	256QAM	25	25	17.62	17.62	17.62						
10	256QAM	50	0	17.62	17.62	17.62						
10	256QAM	50	0	17.62	17.62	17.62						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.76	22.76	22.80	24	0				
5	QPSK	1	12	22.80	22.80	22.82						
5	QPSK	1	24	22.82	22.82	22.89						
5	QPSK	12	0	21.82	21.74	21.79						
5	QPSK	12	7	21.70	21.62	21.68	23	1				
5	QPSK	12	13	21.53	21.52	21.55						
5	QPSK	25	0	21.81	21.74	21.77						
5	16QAM	1	0	22.12	22.08	22.01						
5	16QAM	1	12	21.98	21.98	21.92	23	1				
5	16QAM	1	24	22.03	21.94	22.00						
5	16QAM	12	0	20.88	20.87	20.81						
5	16QAM	12	7	20.80	20.69	20.83						
5	16QAM	12	13	20.58	20.57	20.54	22	2				
5	16QAM	25	0	20.55	20.58	20.52						
5	64QAM	1	0	20.94	20.95	20.98						
5	64QAM	1	12	20.89	20.81	20.91						
5	64QAM	1	24	20.79	20.81	20.88	21	3				
5	64QAM	12	0	19.84	19.80	19.95						
5	64QAM	12	7	19.85	19.80	19.87						
5	64QAM	12	13	19.44	19.40	19.40						
5	64QAM	25	0	19.68	19.64	19.61	19	5				
5	256QAM	1	0	17.92	17.92	17.92						
5	256QAM	1	12	17.71	17.77	17.81						
5	256QAM	1	24	17.84	17.77	17.80						
5	256QAM	12	0	17.65	17.68	17.68	19	5				
5	256QAM	12	7	17.48	17.57	17.49						
5	256QAM	12	13	17.45	17.46	17.49						
5	256QAM	25	0	17.62	17.65	17.64						

Band 14 Ant 1												
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int (dB)	MPE (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.69	22.69	22.69	24	0				
10	QPSK	1	25	22.69	22.69	22.69						
10	QPSK	1	49	22.44	22.44	22.44						
10	QPSK	25	0	21.72	21.72	21.72						
10	QPSK	25	12	21.58	21.58	21.58	23	1				
10	QPSK	25	25	21.51	21.51	21.49						
10	QPSK	50	0	21.62	21.62	21.62						
10	16QAM	1	0	22.69	22.69	22.69						
10	16QAM	1	25	21.96	21.96	21.96	23	1				
10	16QAM	1	49	21.97	21.97	21.97						
10	16QAM	25	0	20.97	20.97	20.97						
10	16QAM	25	12	20.91	20.91	20.91						
10	16QAM	25	25	20.46	20.46	20.46	22	2				
10	16QAM	50	0	20.52	20.52	20.52						
10	64QAM	1	0	20.92	20.92	20.92						
10	64QAM	1	25	20.78	20.78	20.78						
10	64QAM	1	49	20.70	20.70	20.70	21	3				
10	64QAM	25	0	19.58	19.49	19.49						
10	64QAM	25	12	19.48	19.48	19.48						
10	64QAM	25	25	19.45	19.45	19.45						
10	64QAM	50	0	19.44	19.38	19.48	19	5				
10	256QAM	1	25	17.79	17.72	17.69						
10	256QAM	1	49	17.85	17.87	17.88						
10	256QAM	25	0	17.58	17.58	17.58						
10	256QAM	25	12	17.48	17.48	17.48	19	5				
10	256QAM	25	25	17.51	17.51	17.51						
10	256QAM	50	0	17.51	17.48	17.48						
10	256QAM	50	0	17.51	17.48	17.48						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.80	22.81	22.83	24	0				
5	QPSK	1	12	22.80	22.80	22.89						
5	QPSK	1	24	22.31	22.35	22.36						
5	QPSK	12	0	21.61	21.69	21.68						
5	QPSK	12	7	21.47	21.60	21.60	23	1				
5	QPSK	12	13	21.43	21.46	21.47						
5	QPSK	25	0	21.60	21.67	21.67						
5	16QAM	1	0	21.80	21.81	21.88						
5	16QAM	1	12	21.92	21.89	21.87	23	1				
5	16QAM	1	24	21.55	21.65	21.81						
5	16QAM	12	0	20.46	20.45	20.45						
5	16QAM	12	7	20.59	20.49	20.47						
5	16QAM	12	13	20.36	20.32	20.37	22	2				
5	16QAM	25	0	20.50	20.48	20.43						
5	64QAM	1	0	20.73	20.74	20.76						
5	64QAM	1	12	20.71	20.70	20.67						
5	64QAM	1	24	20.57	20.59	20.65	21	3				
5	64QAM	12	0	19.52	19.58	19.47						
5	64QAM	12	7	19.41	19.37	19.34						
5	64QAM	12	13	19.44	19.44	19.34						
5	64QAM	25	0	19.31	19.30	19.30	19	5				
5	256QAM	1	0	17.66	17.58	17.58						
5	256QAM	1	12	17.63	17.65	17.69						
5	256QAM	1	24	17.54	17.54	17.56						
5	256QAM	12	0	17.50	17.52	17.52	19	5				
5	256QAM	12	7	17.39	17.34	17.34						
5	256QAM	12	13	17.43	17.48	17.44						
5	256QAM	25	0	17.41	17.48	17.41						

Band 17 Ant 1									
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.61	22.60	22.68	24	0	
10	QPSK	1	25	22.62	22.61	22.67			
10	QPSK	1	49	22.39	22.53	22.43			
10	QPSK	25	0	21.62	21.74	21.63			
10	QPSK	25	12	21.62	21.68	21.63	23	0	
10	QPSK	25	25	21.51	21.45	21.50			
10	QPSK	25	0	21.68	21.64	21.60			
10	QPSK	1	0	21.80	21.99	21.84			
10	QPSK	1	25	22.02	22.01	22.00	23	1	
10	QPSK	1	49	21.76	21.90	21.96			
10	QPSK	25	0	20.51	20.59	20.60			
10	QPSK	25	12	20.42	20.61	20.45			
10	QPSK	25	25	20.33	20.46	20.45	22	2	
10	QPSK	25	0	20.46	20.32	20.46			
10	QPSK	25	12	20.36	20.39	20.40			
10	QPSK	1	25	20.61	20.78	20.61			
10	QPSK	1	49	20.67	20.66	20.73	21	3	
10	QPSK	1	25	20.49	20.60	20.49			
10	QPSK	25	12	19.45	19.42	19.43			
10	QPSK	25	0	19.48	19.42	19.41			
10	QPSK	1	0	17.72	17.76	17.78	19	5	
10	QPSK	1	25	17.61	17.69	17.68			
10	QPSK	1	49	17.47	17.66	17.66			
10	QPSK	25	0	17.44	17.56	17.47			
10	QPSK	25	12	17.36	17.42	17.34	19	5	
10	QPSK	25	25	17.52	17.43	17.47			
10	QPSK	25	0	17.47	17.50	17.45			
10	QPSK	1	0	22.60	22.59	22.68			
Frequency (MHz)									
5	QPSK	1	0	22.56	22.61	22.48	24	0	
5	QPSK	1	12	22.47	22.39	22.37			
5	QPSK	1	25	22.43	22.45	22.43			
5	QPSK	12	0	21.43	21.62	21.62			
5	QPSK	12	7	21.29	21.53	21.38	23	1	
5	QPSK	12	12	21.44	21.43	21.43			
5	QPSK	12	0	21.52	21.50	21.42			
5	QPSK	1	0	21.73	21.94	21.78			
5	QPSK	1	25	21.84	21.84	21.84	23	1	
5	QPSK	1	49	21.69	21.87	21.67			
5	QPSK	12	12	20.45	20.36	20.45			
5	QPSK	12	0	20.38	20.33	20.33			
5	QPSK	12	18	20.31	20.42	20.30	22	2	
5	QPSK	25	0	20.40	20.46	20.35			
5	QPSK	12	12	20.36	20.36	20.36			
5	QPSK	1	12	20.49	20.73	20.73			
5	QPSK	1	24	20.64	20.62	20.60	22	2	
5	QPSK	12	0	20.44	20.46	20.44			
5	QPSK	12	7	19.36	19.30	19.32			
5	QPSK	12	13	19.42	19.36	19.33			
5	QPSK	12	12	19.43	19.43	19.43	19	5	
5	QPSK	1	0	17.03	17.06	17.02			
5	QPSK	1	12	17.03	17.06	17.02			
5	QPSK	12	0	17.08	17.06	17.02			
5	QPSK	12	7	17.29	17.33	17.24	19	5	
5	QPSK	12	12	17.47	17.43	17.43			
5	QPSK	12	0	17.45	17.46	17.41			
5	QPSK	12	12	17.45	17.46	17.41			



Band 26 for FCC Ant 1														
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPE (dB)						
Channel														
Frequency (MHz)														
15	QPSK	1	0	22.56	22.62	22.50	24	0						
15	QPSK	1	3	22.47	22.48	22.47								
15	QPSK	1	74	22.34	22.45	20.36								
15	QPSK	36	0	21.58	21.73	21.57								
15	QPSK	36	26	21.40	21.47	21.39	23	1						
15	QPSK	36	39	21.37	21.49	21.36								
15	QPSK	75	0	21.49	21.65	21.55								
15	16QAM	1	0	21.85	21.96	21.87								
15	16QAM	1	37	21.75	21.87	21.70	23	1						
15	16QAM	1	74	21.70	21.88	21.78								
15	16QAM	36	0	20.51	20.58	20.44								
15	16QAM	36	20	20.45	20.51	20.44								
15	16QAM	36	39	20.38	20.41	20.35	22	2						
15	16QAM	75	0	20.50	20.42	20.41								
15	16QAM	1	0	20.74	20.81	20.82								
15	16QAM	1	37	20.59	20.89	20.74								
15	16QAM	1	74	20.62	20.64	20.70	21	3						
15	16QAM	36	0	19.45	19.53	19.39								
15	16QAM	36	20	19.39	19.50	19.35								
15	16QAM	36	39	19.37	19.38	19.33								
15	256QAM	1	0	17.63	17.73	17.68	19	5						
15	256QAM	1	37	17.59	17.63	17.59								
15	256QAM	1	74	17.61	17.64	17.64								
15	256QAM	36	0	17.38	17.53	17.39								
15	256QAM	36	20	17.37	17.43	17.29								
15	256QAM	36	39	17.32	17.45	17.35								
15	256QAM	75	0	17.42	17.43	17.43								
15	256QAM	75	0	17.42	17.43	17.43	19	5						
Channel														
Frequency (MHz)														
15	QPSK	1	0	22.59	22.52	22.49					24	0		
15	QPSK	1	26	22.35	22.38	22.31								
15	QPSK	25	0	21.72	21.52	21.52								
15	QPSK	25	12	21.47	21.31	21.35								
15	QPSK	25	26	21.38	21.32	21.29	23	1						
15	QPSK	50	0	21.54	21.49	21.47								
15	16QAM	1	0	21.75	21.75	21.85								
15	16QAM	1	26	21.81	21.72	21.64								
15	16QAM	1	49	21.87	21.77	21.68	23	1						
15	16QAM	25	0	20.55	20.42	20.40								
15	16QAM	25	12	20.50	20.33	20.37								
15	16QAM	25	26	20.35	20.38	20.31								
15	16QAM	50	0	20.34	20.41	20.38	22	2						
15	16QAM	1	0	20.78	20.64	20.78								
15	16QAM	1	37	20.74	20.61	20.74								
15	16QAM	1	49	20.54	20.50	20.62								
15	16QAM	25	0	19.42	19.37	19.37	21	3						
15	16QAM	25	12	19.37	19.33	19.37								
15	16QAM	25	26	19.30	19.32	19.28								
15	16QAM	50	0	19.40	19.33	19.37								
15	256QAM	1	0	17.65	17.66	17.66	19	5						
15	256QAM	1	26	17.56	17.52	17.59								
15	256QAM	1	49	17.68	17.59	17.64								
15	256QAM	25	0	17.52	17.52	17.52								
15	256QAM	25	12	17.34	17.34	17.25								
15	256QAM	25	26	17.40	17.35	17.34								
15	256QAM	50	0	17.38	17.38	17.31								
15	256QAM	50	0	17.38	17.38	17.31	19	5						
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.52	22.48	22.48					24	0		
5	QPSK	1	12	22.35	22.44	22.33								
5	QPSK	1	24	22.37	22.23	22.33								
5	QPSK	12	0	21.70	21.54	21.64								
5	QPSK	12	7	21.41	21.31	21.35	23	1						
5	QPSK	12	13	21.38	21.37	21.36								
5	QPSK	36	26	21.43	21.43	21.43								
5	16QAM	1	0	21.84	21.78	21.79								
5	16QAM	1	12	21.87	21.72	21.68	23	1						
5	16QAM	1	24	21.85	21.68	21.70								
5	16QAM	12	0	20.51	20.40	20.42								
5	16QAM	12	7	20.40	20.35	20.32								
5	16QAM	12	13	20.38	20.38	20.31	22	2						
5	16QAM	25	0	20.36	20.45	20.30								
5	16QAM	1	0	20.76	20.64	20.79								
5	16QAM	1	12	20.73	20.57	20.68								
5	16QAM	1	24	20.58	20.53	20.62	21	3						
5	16QAM	12	0	19.48	19.40	19.30								
5	16QAM	12	7	19.48	19.35	19.30								
5	16QAM	12	13	19.30	19.36	19.24								
5	16QAM	25	0	19.37	19.29	19.31	19	5						
5	256QAM	1	0	17.61	17.61	17.62								
5	256QAM	1	12	17.62	17.57	17.68								
5	256QAM	1	24	17.62	17.58	17.61								
5	256QAM	12	0	17.41	17.36	17.35	19	5						
5	256QAM	12	7	17.38	17.26	17.28								
5	256QAM	12	13	17.46	17.31	17.23								
5	256QAM	25	0	17.38	17.28	17.28								
5	256QAM	25	0	17.38	17.28	17.28								
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.52	22.55	22.43	24	0						
3	QPSK	1	8	22.35	22.43	22.37								
3	QPSK	1	14	22.42	22.29	22.37								
3	QPSK	8	0	21.61	21.50	21.56								
3	QPSK	8	4	21.43	21.34	21.39	23	1						
3	QPSK	8	7	21.45	21.27	21.31								
3	QPSK	15	0	21.53	21.39	21.50								
3	16QAM	1	0	21.93	21.84	21.86								
3	16QAM	1	8	21.86	21.69	21.61	23	1						
3	16QAM	8	0	21.88	21.58	21.66								
3	16QAM	8	0	20.47	20.48	20.37								
3	16QAM	8	4	20.43	20.43	20.32								
3	16QAM	8	7	20.38	20.37	20.30	22	2						
3	16QAM	15	0	20.39	20.40	20.32								
3	16QAM	1	0	20.74	20.63	20.78								
3	16QAM	1	8	20.74	20.50	20.73								
3	16QAM	1	14	20.56	20.57	20.89	21	3						
3	16QAM	8	0	18.43	18.36	19.31								
3	16QAM	8	4	19.47	19.29	19.29								
3	16QAM	8	7	19.31	19.32	19.31								
3	16QAM	15	0	18.44	19.33	19.34	19	5						
3	256QAM	1	0	17.71	17.68	17.68								
3	256QAM	1	8	17.60	17.55	17.64								
3	256QAM	1	14	17.61	17.57	17.58								
3	256QAM	8	0	17.42	17.30	17.36	19	5						
3	256QAM	8	4	17.39	17.32	17.20								
3	256QAM	8	7	17.43	17.29	17.35								

Band 71 Ant 1														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dB)	APR3 (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	22.49	22.61	22.47	24	0						
20	QPSK	1	48	22.44	22.45	22.36								
20	QPSK	1	96	22.32	22.45	20.34								
20	QPSK	50	0	21.51	21.65	21.57								
20	QPSK	50	24	21.41	21.45	21.38								
20	QPSK	50	50	21.30	21.41	21.33	23	1						
20	QPSK	100	0	21.45	21.63	21.48								
20	16QAM	1	0	21.74	21.92	21.83								
20	16QAM	1	48	21.75	21.88	21.75								
20	16QAM	1	96	21.70	21.82	21.73								
20	16QAM	50	0	20.42	20.50	20.35	22	2						
20	16QAM	50	24	20.34	20.49	20.34								
20	16QAM	50	50	20.30	20.41	20.31								
20	16QAM	100	0	20.37	20.39	20.32								
20	64QAM	1	0	20.61	20.71	20.72								
20	64QAM	1	48	20.59	20.76	20.72	22	2						
20	64QAM	1	96	20.49	20.64	20.58								
20	64QAM	50	0	19.36	19.44	19.37								
20	64QAM	50	24	19.31	19.34	19.24								
20	64QAM	50	50	19.40	19.27	19.24								
20	64QAM	100	0	19.36	19.39	19.25	21	3						
20	256QAM	1	0	17.56	17.68	17.68								
20	256QAM	1	48	17.61	17.59	17.44								
20	256QAM	1	96	17.55	17.57	17.61								
20	256QAM	50	0	17.28	17.42	17.38								
20	256QAM	50	24	17.24	17.38	17.21	19	5						
20	256QAM	50	50	17.35	17.33	17.22								
20	256QAM	100	0	17.25	17.40	17.24								
Channel														
Frequency (MHz)														
15	QPSK	1	0	22.45	22.59	22.36	24	0						
15	QPSK	1	37	22.33	22.45	22.28								
15	QPSK	1	74	22.24	22.39	22.28								
15	QPSK	36	0	21.47	21.54	21.55								
15	QPSK	36	20	21.38	21.45	21.29								
15	QPSK	36	39	21.24	21.40	21.32	23	1						
15	QPSK	75	0	21.42	21.58	21.48								
15	16QAM	1	0	21.67	21.80	21.73								
15	16QAM	1	37	21.68	21.80	21.71								
15	16QAM	1	74	21.60	21.74	21.70								
15	16QAM	36	0	20.32	20.38	20.32	22	2						
15	16QAM	36	20	20.31	20.45	20.28								
15	16QAM	36	39	20.25	20.37	20.23								
15	16QAM	75	0	20.34	20.37	20.24								
15	64QAM	1	0	20.60	20.59	20.62								
15	64QAM	1	37	20.54	20.65	20.58	22	2						
15	64QAM	1	74	20.47	20.55	20.55								
15	64QAM	36	0	19.31	19.38	19.33								
15	64QAM	36	20	19.36	19.28	19.25								
15	64QAM	36	39	19.35	19.15	19.15								
15	64QAM	75	0	19.35	19.35	19.17	21	3						
15	256QAM	1	0	17.54	17.50	17.40								
15	256QAM	1	37	17.58	17.55	17.39								
15	256QAM	1	74	17.48	17.48	17.57								
15	256QAM	36	0	17.20	17.22	17.36								
15	256QAM	36	20	17.23	17.31	17.13	19	5						
15	256QAM	36	39	17.31	17.29	17.18								
15	256QAM	75	0	17.34	17.30	17.29								
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.43	22.57	22.43	24	0						
10	QPSK	1	25	22.38	22.35	22.31								
10	QPSK	1	48	22.28	22.44	22.30								
10	QPSK	25	0	21.48	21.61	21.47								
10	QPSK	25	12	21.30	21.35	21.26								
10	QPSK	25	25	21.26	21.37	21.27	23	1						
10	QPSK	50	0	21.43	21.58	21.38								
10	16QAM	1	0	21.64	21.82	21.83								
10	16QAM	1	25	21.64	21.83	21.85								
10	16QAM	1	48	21.65	21.76	21.72								
10	16QAM	25	0	20.41	20.35	20.33	22	2						
10	16QAM	25	12	20.24	20.37	20.22								
10	16QAM	25	25	20.30	20.38	20.33								
10	16QAM	50	0	20.32	20.38	20.30								
10	64QAM	1	0	20.59	20.63	20.61								
10	64QAM	1	25	20.57	20.66	20.70	22	2						
10	64QAM	1	48	20.40	20.64	20.65								
10	64QAM	25	0	19.35	19.36	19.32								
10	64QAM	25	12	19.29	19.28	19.27								
10	64QAM	25	25	19.39	19.17	19.12								
10	64QAM	50	0	19.31	19.29	19.16	21	3						
10	256QAM	1	0	17.44	17.52	17.55								
10	256QAM	1	25	17.58	17.52	17.34								
10	256QAM	1	48	17.50	17.52	17.58								
10	256QAM	25	0	17.22	17.24	17.28								
10	256QAM	25	12	17.17	17.27	17.18	19	5						
10	256QAM	25	25	17.28	17.21	17.16								
10	256QAM	50	0	17.25	17.42	17.25								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.37	22.50	22.35	24	0						
5	QPSK	1	12	22.35	22.44	22.29								
5	QPSK	1	24	22.28	22.42	22.25								
5	QPSK	12	0	21.60	21.67	21.53								
5	QPSK	12	7	21.39	21.37	21.33								
5	QPSK	12	13	21.26	21.37	21.24	23	1						
5	QPSK	25	0	21.43	21.53	21.43								
5	16QAM	1	0	21.73	21.92	21.73								
5	16QAM	1	12	21.66	21.75	21.64								
5	16QAM	1	24	21.69	21.80	21.67								
5	16QAM	12	0	20.38	20.44	20.28	22	2						
5	16QAM	12	7	20.23	20.45	20.29								
5	16QAM	12	13	20.26	20.34	20.22								
5	16QAM	25	0	20.28	20.30	20.25								
5	64QAM	1	0	20.51	20.66	20.64								
5	64QAM	1	12	20.52	20.71	20.60	22	2						
5	64QAM	1	24	20.42	20.55	20.58								
5	64QAM	12	0	19.31	19.38	19.36								
5	64QAM	12	7	19.20	19.27	19.16								
5	64QAM	12	13	19.33	19.17	19.17								
5	64QAM	25	0	19.29	19.29	19.22	21	3						
5	256QAM	1	0	17.53	17.67	17.63								
5	256QAM	1	12	17.54	17.49	17.36								
5	256QAM	1	24	17.50	17.47	17.52								
5	256QAM	12	0	17.21	17.20	17.32								
5	256QAM	12	7	17.21	17.28	17.09	19	5						
5	256QAM	12	13	17.29	17.26	17.21								
5	256QAM	25	0	17.										



Band 38 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel									
	Frequency (MHz)			37465	38650	38150			
20	QPSK	1	0	20.38	20.50	20.45	21.5	0	
20	QPSK	1	48	20.27	20.29	20.12			
20	QPSK	1	88	20.15	20.21	20.07			
20	QPSK	50	0	20.25	20.30	20.03			
20	QPSK	50	24	20.17	20.19	19.91	21.5	0	
20	QPSK	50	48	20.07	20.17	19.95			
20	QPSK	100	0	20.25	20.37	20.06			
20	HQAM	1	0	20.13	20.18	20.05	21.5	0	
20	HQAM	1	48	20.07	20.12	19.98			
20	HQAM	1	99	20.19	20.39	20.11			
20	HQAM	50	0	20.17	20.18	19.97	21.5	0	
20	HQAM	50	24	20.18	20.24	20.09			
20	HQAM	100	0	20.11	20.29	20.01			
20	HQAM	1	0	20.05	20.12	19.95			
20	HQAM	1	48	20.08	20.23	20.11	21.5	0	
20	HQAM	1	99	20.17	20.21	19.93			
20	HQAM	50	0	20.09	20.17	19.90			
20	HQAM	50	24	20.10	20.31	19.99			
20	HQAM	50	50	20.02	20.10	20.00	21.2	0.3	
20	HQAM	100	0	20.01	20.16	19.85			
20	256QAM	1	0	18.47	18.44	18.29			
20	256QAM	1	48	18.39	18.51	18.29	19	2.5	
20	256QAM	1	99	18.39	18.44	18.35			
20	256QAM	50	0	18.32	18.32	18.07			
20	256QAM	50	24	18.07	18.14	18.11	19	2.5	
20	256QAM	50	50	18.10	18.24	18.03			
20	256QAM	100	0	18.05	18.20	18.00			
Channel									
	Frequency (MHz)			37475	38650	38175	Turn-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	20.13	20.20	20.15			
15	QPSK	1	37	20.19	20.18	20.00	21.5	0	
15	QPSK	1	74	19.98	20.10	19.87			
15	QPSK	36	0	20.22	20.32	19.97			
15	QPSK	36	20	20.14	20.16	19.88	21.5	0	
15	QPSK	75	0	20.17	20.25	20.01			
15	HQAM	1	0	20.07	20.09	19.98			
15	HQAM	1	37	20.04	20.11	19.95	21.5	0	
15	HQAM	1	74	20.17	20.34	19.98			
15	HQAM	36	0	20.09	20.10	19.93			
15	HQAM	36	20	19.92	20.02	19.85	21.5	0	
15	HQAM	36	39	20.06	20.18	20.00			
15	HQAM	75	0	20.07	20.11	19.91			
15	HQAM	75	19	19.92	20.00	19.85			
15	HQAM	1	0	20.07	20.27	19.88	21.5	0	
15	HQAM	36	0	20.07	20.07	19.84			
15	HQAM	75	0	19.99	20.05	19.82			
15	256QAM	1	0	18.37	18.39	18.24			
15	256QAM	1	37	18.34	18.25	18.05	19	2.5	
15	256QAM	1	74	18.28	18.38	18.30			
15	256QAM	36	0	18.15	18.23	18.01			
15	256QAM	36	20	18.24	18.25	18.12	19	2.5	
15	256QAM	36	39	18.32	18.32	18.12			
15	256QAM	75	0	18.24	18.36	18.22			
Channel									
	Frequency (MHz)			37476	38650	38225	Turn-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	20.23	20.24	20.04	21.5	0	
5	QPSK	1	25	20.23	20.24	20.08			
5	QPSK	1	48	20.08	20.14	19.95			
5	QPSK	25	0	20.07	20.09	19.85	21.5	0	
5	QPSK	25	25	19.87	20.17	19.85			
5	HQAM	1	0	20.04	20.04	19.84			
5	HQAM	1	25	20.04	20.06	19.87	21.5	0	
5	HQAM	1	48	20.10	20.31	20.10			
5	HQAM	25	0	20.14	20.14	19.95			
5	HQAM	25	25	19.95	20.10	19.87	21.5	0	
5	HQAM	25	48	19.95	20.08	19.87			
5	HQAM	25	75	20.02	20.02	19.86	21.5	0	
5	HQAM	50	0	20.14	20.14	19.95			
5	HQAM	50	25	19.95	20.10	19.87			
5	HQAM	50	50	19.95	20.02	19.86			
5	HQAM	50	75	20.08	20.16	19.93			
5	HQAM	100	0	20.02	20.01	19.81			
5	HQAM	12	0	20.23	20.17	20.06			
5	HQAM	12	7	20.19	20.17	19.97			
5	HQAM	12	13	20.10	20.14	19.92	21.5	0	
5	HQAM	12	19	20.08	20.12	19.85			
5	HQAM	12	25	20.07	20.15	19.90			
5	HQAM	12	31	20.07	20.15	19.90			
5	HQAM	12	37	20.08	20.16	19.91			
5	HQAM	12	43	20.09	20.21	19.89			
5	HQAM	12	49	20.09	20.21	19.89			
5	HQAM	12	55	20.09	20.21	19.89			
5	HQAM	12	61	20.09	20.21	19.89			
5	HQAM	12	67	20.09	20.21	19.89			
5	HQAM	12	73	20.09	20.21	19.89			
5	HQAM	12	79	20.09	20.21	19.89			
5	HQAM	12	85	20.09	20.21	19.89			
5	HQAM	12	91	20.09	20.21	19.89			
5	HQAM	12	97	20.09	20.21	19.89			
5	HQAM	12	103	20.09	20.21	19.89			
5	HQAM	12	109	20.09	20.21	19.89			
5	HQAM	12	115	20.09	20.21	19.89			
5	HQAM	12	121	20.09	20.21	19.89			
5	HQAM	12	127	20.09	20.21	19.89			
5	HQAM	12	133	20.09	20.21	19.89			
5	HQAM	12	139	20.09	20.21	19.89			
5	HQAM	12	145	20.09	20.21	19.89			
5	HQAM	12	151	20.09	20.21	19.89			
5	HQAM	12	157	20.09	20.21	19.89			
5	HQAM	12	163	20.09	20.21	19.89			
5	HQAM	12	169	20.09	20.21	19.89			
5	HQAM	12	175	20.09	20.21	19.89			
5	HQAM	12	181	20.09	20.21	19.89			
5	HQAM	12	187	20.09	20.21	19.89			
5	HQAM	12	193	20.09	20.21	19.89			
5	HQAM	12	199	20.09	20.21	19.89			
5	HQAM	12	205	20.09	20.21	19.89			
5	HQAM	12	211	20.09	20.21	19.89			
5	HQAM	12	217	20.09	20.21	19.89			
5	HQAM	12	223	20.09	20.21	19.89			
5	HQAM	12	229	20.09	20.21	19.89			
5	HQAM	12	235	20.09	20.21	19.89			
5	HQAM	12	241	20.09	20.21	19.89			
5	HQAM	12	247	20.09	20.21	19.89			
5	HQAM	12	253	20.09	20.21	19.89			
5	HQAM	12	259	20.09	20.21	19.89			
5	HQAM	12	265	20.09	20.21	19.89			
5	HQAM	12	271	20.09	20.21	19.89			
5	HQAM	12	277	20.09	20.21	19.89			
5	HQAM	12	283	20.09	20.21	19.89			
5	HQAM	12	289	20.09	20.21	19.89			
5	HQAM	12	295	20.09	20.21	19.89			
5	HQAM	12	301	20.09	20.21	19.89			
5	HQAM	12	307	20.09	20.21	19.89			
5	HQAM	12	313	20.09	20.21	19.89			
5	HQAM	12	319	20.09	20.21	19.89			
5	HQAM	12	325	20.09	20.21	19.89			
5	HQAM	12	331	20.09	20.21	19.89			
5	HQAM	12	337	20.09	20.21	19.89			
5	HQAM	12	343	20.09	20.21	19.89			
5	HQAM	12	349	20.09	20.21	19.89			
5	HQAM	12	355	20.09	20.21	19.89			
5	HQAM	12	361	20.09	20.21	19.89			
5	HQAM	12	367	20.09	20.21	19.89			
5	HQAM	12	373	20.09	20.21	19.89			
5	HQAM	12	379	20.09	20.21	19.89			
5	HQAM	12	385	20.09	20.21	19.89			
5	HQAM	12	391	20.09	20.21	19.89			
5	HQAM	12	397	20.09	20.21	19.89			
5	HQAM	12	403	20.09	20.21	19.89			
5	HQAM	12	409	20.09	20.21	19.89			
5	HQAM	12	415	20.09	20.21	19.89			
5	HQAM	12	421	20.09	20.21	19.89			
5	HQAM	12	427	20.09	20.21	19.89			
5	HQAM	12	433	20.09	20.21	19.89			
5	HQAM	12	439	20.09	20.21	19.89			
5	HQAM	12	445	20.09	20.21	19.89			
5	HQAM	12	451	20.09	20.21	19.89			
5	HQAM	12	457	20.09	20.21	19.89			
5	HQAM	12	463	20.09	20.21	19.89			
5	HQAM	12	469	20.09	20.21	19.89			
5	HQAM	12	475	20.09	20.21	19.89			
5	HQAM	12	481	20.09	20.21	19.89			
5	HQAM	12	487	20.09	20.21	19.89			
5	HQAM	12	493	20.09	20.21	19.89			
5	HQAM	12	499	20.09	20.21	19.89			
5	HQAM	12	505	20.09	20.21	19.89			
5	HQAM	12	511	20.09	20.21	19.89			
5	HQAM	12	517	20.09	20.21	19.89			
5	HQAM								

Band 7 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	20.56	20.68	20.58	21.2	0	
20	QPSK	1	49	20.54	20.61	20.60			
20	QPSK	1	99	20.57	20.63	20.60			
20	QPSK	50	0	20.54	20.64	20.57			
20	QPSK	50	24	20.62	20.61	20.57	21.2	0	
20	QPSK	50	50	20.63	20.61	20.54			
20	QPSK	100	0	20.62	20.63	20.54			
20	16QAM	1	0	20.58	20.62	20.61			
20	16QAM	1	49	20.63	20.60	20.55	21.2	0	
20	16QAM	1	99	20.59	20.62	20.58			
20	16QAM	50	0	20.63	20.59	20.57			
20	16QAM	50	24	20.61	20.57	20.56			
20	16QAM	50	50	20.62	20.59	20.62	21.2	0	
20	16QAM	100	0	20.61	20.58	20.58			
20	64QAM	1	0	20.61	20.56	20.55			
20	64QAM	1	49	20.59	20.60	20.60			
20	64QAM	1	99	20.54	20.59	20.55	21	0.2	
20	64QAM	50	0	20.53	20.57	20.54			
20	64QAM	50	24	20.54	20.60	20.57			
20	64QAM	50	50	20.57	20.59	20.59			
20	64QAM	100	0	20.61	20.57	20.57	19	2.2	
20	256QAM	1	0	18.15	18.19	18.07			
20	256QAM	1	49	18.04	18.08	18.00			
20	256QAM	1	99	18.07	18.00	18.12			
20	256QAM	50	0	17.82	17.93	17.88	19	2.2	
20	256QAM	50	24	17.74	17.83	17.66			
20	256QAM	50	50	17.78	17.84	17.82			
20	256QAM	100	0	17.93	17.92	17.81			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	20.48	20.61	20.47	21.2	0	
15	QPSK	1	37	20.43	20.52	20.53			
15	QPSK	1	74	20.43	20.50	20.51			
15	QPSK	36	0	20.40	20.49	20.45			
15	QPSK	36	20	20.48	20.53	20.45	21.2	0	
15	QPSK	36	39	20.51	20.50	20.44			
15	QPSK	75	0	20.49	20.54	20.44			
15	16QAM	1	0	20.51	20.54	20.52			
15	16QAM	1	37	20.56	20.52	20.44	21.2	0	
15	16QAM	1	74	20.47	20.53	20.44			
15	16QAM	36	0	20.53	20.48	20.44			
15	16QAM	36	20	20.50	20.49	20.42			
15	16QAM	36	39	20.53	20.52	20.48	21.2	0	
15	16QAM	75	0	20.49	20.52	20.48			
15	64QAM	1	0	20.50	20.42	20.40			
15	64QAM	1	37	20.51	20.45	20.54			
15	64QAM	1	74	20.39	20.50	20.49	21	0.2	
15	64QAM	36	0	20.41	20.44	20.47			
15	64QAM	36	20	20.45	20.46	20.47			
15	64QAM	36	39	20.50	20.52	20.45			
15	64QAM	75	0	20.52	20.43	20.48	19	2.2	
15	256QAM	1	0	18.02	18.11	18.01			
15	256QAM	1	37	17.93	18.03	17.93			
15	256QAM	1	74	17.96	17.91	18.03			
15	256QAM	36	0	17.75	17.83	17.77	19	2.2	
15	256QAM	36	20	17.59	17.73	17.52			
15	256QAM	36	39	17.68	17.79	17.72			
15	256QAM	75	0	17.86	17.77	17.73			
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	20.45	20.57	20.43	21.2	0	
10	QPSK	1	25	20.47	20.46	20.53			
10	QPSK	1	49	20.45	20.57	20.55			
10	QPSK	25	0	20.41	20.43	20.49			
10	QPSK	25	12	20.50	20.49	20.50	21.2	0	
10	QPSK	25	25	20.51	20.49	20.48			
10	QPSK	50	0	20.52	20.57	20.42			
10	16QAM	1	0	20.52	20.51	20.48			
10	16QAM	1	25	20.50	20.50	20.45	21.2	0	
10	16QAM	1	49	20.44	20.53	20.49			
10	16QAM	25	0	20.49	20.44	20.49			
10	16QAM	25	12	20.52	20.42	20.50			
10	16QAM	25	25	20.49	20.53	20.55	21.2	0	
10	16QAM	50	0	20.48	20.48	20.51			
10	64QAM	1	0	20.46	20.47	20.43			
10	64QAM	1	25	20.49	20.53	20.46			
10	64QAM	1	49	20.44	20.47	20.43	21.2	0	
10	64QAM	25	0	20.38	20.51	20.48			
10	64QAM	25	12	20.46	20.52	20.46			
10	64QAM	25	25	20.51	20.52	20.50			
10	64QAM	50	0	20.54	20.50	20.50	21	0.2	
10	256QAM	1	0	18.01	18.14	17.95			
10	256QAM	1	25	17.93	17.95	17.92			
10	256QAM	1	49	17.95	17.89	18.02			
10	256QAM	25	0	17.77	17.86	17.82	19	2.2	
10	256QAM	25	12	17.64	17.73	17.60			
10	256QAM	25	25	17.70	17.78	17.71			
10	256QAM	50	0	17.83	17.83	17.74			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	20.47	20.55	20.44	21.2	0	
5	QPSK	1	12	20.41	20.52	20.54			
5	QPSK	1	24	20.45	20.56	20.50			
5	QPSK	12	0	20.48	20.49	20.44			
5	QPSK	12	7	20.56	20.52	20.50	21.2	0	
5	QPSK	12	13	20.53	20.51	20.41			
5	QPSK	25	0	20.48	20.53	20.44			
5	16QAM	1	0	20.46	20.53	20.54			
5	16QAM	1	12	20.52	20.52	20.41	21.2	0	
5	16QAM	1	24	20.50	20.56	20.50			
5	16QAM	12	0	20.51	20.47	20.52			
5	16QAM	12	7	20.53	20.42	20.47			
5	16QAM	12	13	20.53	20.53	20.55	21.2	0	
5	16QAM	25	0	20.46	20.49	20.46			
5	64QAM	1	0	20.51	20.42	20.41			
5	64QAM	1	12	20.45	20.50	20.52			
5	64QAM	1	24	20.48	20.44	20.50	21	0.2	
5	64QAM	12	0	20.45	20.42	20.44			
5	64QAM	12	7	20.42	20.46	20.45			
5	64QAM	12	13	20.50	20.47	20.51			
5	64QAM	25	0	20.49	20.50	20.52	19	2.2	
5	256QAM	1	0	18.03	18.07	17.98			
5	256QAM	1	12	17.94	18.00	17.88			
5	256QAM	1	24	17.97	17.85	18.07			
5	256QAM	12	0	17.75	17.79	17.75	19	2.2	
5	256QAM	12	7	17.64	17.75	17.57			
5	256QAM	12	13	17.72	17.78	17.76			
5	256QAM	25	0	17.80	17.81	17.71			

Band 30 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				27710					
Frequency (MHz)				2310					
10	QPSK	1	0		21.19		22.4	0	
10	QPSK	1	25		21.09				
10	QPSK	1	49		21.04				
10	QPSK	25	0		21.08		22.4	0	
10	QPSK	25	12		21.00				
10	QPSK	25	25		21.07				
10	QPSK	50	0		21.05				
10	16QAM	1	0		21.07		22.4	0	
10	16QAM	1	25		21.10				
10	16QAM	1	49		21.09				
10	16QAM	25	0		21.05		22.4	0	
10	16QAM	25	12		21.11				
10	16QAM	25	25		21.11				
10	16QAM	50	0		21.14		22	0.4	
10	64QAM	1	0		21.12				
10	64QAM	1	25		21.12				
10	64QAM	1	49		21.12		21	1.4	
10	64QAM	25	0		20.55				
10	64QAM	25	12		20.59				
10	64QAM	25	25		20.59		19	3.4	
10	64QAM	50	0		20.60				
10	256QAM	1	0		18.10				
10	256QAM	1	25		18.14		19	3.4	
10	256QAM	1	49		18.07				
10	256QAM	25	0		17.92				
10	256QAM	25	12		17.80		19	3.4	
10	256QAM	25	25		17.91				
10	256QAM	50	0		17.84				
Channel				27685	27710	27735			
Frequency (MHz)				2307.5	2310	2312.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	21.06	21.08	21.05	22.4	0	
5	QPSK	1	12	20.99	21.04	20.96			
5	QPSK	1	24	20.96	20.96	20.90			
5	QPSK	12	0	21.02	20.96	20.98	22.4	0	
5	QPSK	12	7	20.88	20.94	20.89			
5	QPSK	12	13	21.00	21.01	20.93			
5	QPSK	25	0	20.99	20.91	20.98	22.4	0	
5	16QAM	1	0	20.98	20.96	20.93			
5	16QAM	1	12	20.99	21.04	21.02			
5	16QAM	1	24	20.95	20.97	20.99	22	0.4	
5	16QAM	12	0	20.99	20.91	20.96			
5	16QAM	12	7	20.96	21.02	21.03			
5	16QAM	12	13	21.01	21.05	20.98	22	0.4	
5	16QAM	25	0	21.02	21.00	21.06			
5	64QAM	1	0	20.97	21.03	21.07			
5	64QAM	1	12	21.07	21.06	21.06	21	1.4	
5	64QAM	1	24	21.04	21.07	21.01			
5	64QAM	12	0	19.66	19.68	19.65			
5	64QAM	12	7	19.59	19.64	19.56	19	3.4	
5	64QAM	12	13	19.56	19.56	19.50			
5	64QAM	25	0	19.62	19.56	19.58			
5	256QAM	1	0	17.96	17.99	18.00	19	3.4	
5	256QAM	1	12	17.99	18.09	18.06			
5	256QAM	1	24	17.94	17.97	17.93			
5	256QAM	12	0	17.83	17.79	17.81	19	3.4	
5	256QAM	12	7	17.66	17.75	17.71			
5	256QAM	12	13	17.77	17.81	17.83			
5	256QAM	25	0	17.75	17.70	17.75			



Band 38 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)				37865	38050	38155			
20	QPSK	1	0	22.57	22.63	22.69	23.8	0	
20	QPSK	1	48	22.44	22.46	22.39			
20	QPSK	1	88	22.35	22.47	22.39			
20	QPSK	50	0	21.57	21.58	21.61	23	0.8	
20	QPSK	50	24	21.41	21.53	21.39			
20	QPSK	50	50	21.38	21.43	21.39			
20	QPSK	100	0	21.52	21.55	21.56	23	0.8	
20	QPSK	100	1	21.58	21.67	21.76			
20	QPSK	100	48	21.56	21.67	21.66			
20	HQAM	1	99	21.74	21.84	21.76	22	1.8	
20	HQAM	50	0	20.35	20.37	20.28			
20	HQAM	50	24	20.21	20.29	20.23			
20	HQAM	100	0	20.25	20.27	20.27	22	1.8	
20	HQAM	100	1	20.58	20.57	20.57			
20	HQAM	100	48	20.43	20.65	20.66			
20	HQAM	1	99	20.55	20.53	20.56	21	2.8	
20	HQAM	50	0	19.40	19.47	19.32			
20	HQAM	50	24	19.25	19.41	19.22			
20	HQAM	50	50	19.31	19.19	19.22	19	4.8	
20	HQAM	100	0	19.29	19.39	19.13			
20	HQAM	100	1	17.81	17.52	17.58			
20	HQAM	1	49	17.75	17.55	17.56	19	4.8	
20	HQAM	1	99	17.53	17.47	17.56			
20	HQAM	36	0	17.55	17.58	17.57			
20	HQAM	36	1	17.24	17.27	17.12	19	4.8	
20	HQAM	50	24	17.25	17.31	17.23			
20	HQAM	50	50	17.31	17.35	17.23			
Channel									
Frequency (MHz)				37825	38050	38175	Tune-up limit (dBm)	MFR (dB)	
15	QPSK	1	0	22.57	22.55	22.41	23.8	0	
15	QPSK	1	37	22.31	22.38	22.32			
15	QPSK	1	74	22.30	22.40	22.25			
15	QPSK	36	0	21.49	21.54	21.50	23	0.8	
15	QPSK	36	20	21.27	21.42	21.28			
15	QPSK	36	36	21.38	21.52	21.45			
15	QPSK	75	0	21.39	21.52	21.45	23	0.8	
15	HQAM	1	0	21.71	21.83	21.69			
15	HQAM	1	37	21.56	21.79	21.61			
15	HQAM	1	74	21.61	21.71	21.65	22	1.8	
15	HQAM	36	0	20.23	20.31	20.18			
15	HQAM	36	20	20.25	20.27	20.25			
15	HQAM	36	36	20.07	20.22	20.13	22	1.8	
15	HQAM	75	0	20.21	20.20	20.18			
15	HQAM	75	0	19.31	19.33	19.25			
15	HQAM	1	37	20.34	20.52	20.48	21	2.8	
15	HQAM	1	74	20.46	20.53	20.54			
15	HQAM	36	0	19.31	19.33	19.25			
15	HQAM	36	20	19.15	19.31	19.12	19	4.8	
15	HQAM	36	36	19.42	19.45	19.47			
15	HQAM	75	0	19.21	19.31	19.01			
15	HQAM	1	0	17.48	17.45	17.47	19	4.8	
15	HQAM	1	37	17.43	17.53	17.46			
15	HQAM	36	0	17.19	17.25	17.17			
15	HQAM	36	20	17.21	17.34	17.06	19	4.8	
15	HQAM	36	36	17.17	17.18	17.18			
15	HQAM	75	0	17.26	17.19	17.28			
Channel									
Frequency (MHz)				37865	38060	38165	Tune-up limit (dBm)	MFR (dB)	
10	QPSK	1	0	22.57	22.55	22.41	23.8	0	
10	QPSK	1	25	22.37	22.36	22.25			
10	QPSK	1	49	22.23	22.35	22.25			
10	QPSK	1	49	22.23	22.35	22.25	23	0.8	
10	QPSK	25	12	21.29	21.47	21.25			
10	QPSK	25	25	21.31	21.26	21.25			
10	QPSK	25	25	21.31	21.26	21.25	23	0.8	
10	HQAM	1	0	21.87	21.82	21.65			
10	HQAM	1	25	21.56	21.82	21.65			
10	HQAM	1	49	21.66	21.78	21.64	22	1.8	
10	HQAM	25	0	20.22	20.32	20.16			
10	HQAM	25	12	20.13	20.25	20.25			
10	HQAM	25	25	20.08	20.17	20.17	22	1.8	
10	HQAM	50	0	20.32	20.20	20.21			
10	HQAM	50	0	19.35	19.39	19.23			
10	HQAM	1	25	20.31	20.54	20.50	22	1.8	
10	HQAM	1	49	20.41	20.50	20.47			
10	HQAM	25	0	19.35	19.39	19.23			
10	HQAM	25	12	19.19	19.34	19.10	21	2.8	
10	HQAM	25	25	19.16	19.06	19.16			
10	HQAM	50	0	19.17	19.25	19.01			
10	HQAM	1	0	17.52	17.57	17.48	19	4.8	
10	HQAM	1	25	17.48	17.48	17.22			
10	HQAM	1	49	17.48	17.57	17.46			
10	HQAM	25	0	17.23	17.29	17.15	19	4.8	
10	HQAM	25	12	17.15	17.17	17.02			
10	HQAM	25	25	17.11	17.17	17.17			
10	HQAM	50	0	17.18	17.18	17.24			
Channel									
Frequency (MHz)				37765	38060	38255	Tune-up limit (dBm)	MFR (dB)	
5	QPSK	1	0	22.52	22.49	22.35	23.8	0	
5	QPSK	1	12	22.37	22.35	22.25			
5	QPSK	1	24	22.22	22.42	22.25			
5	QPSK	12	0	21.47	21.58	21.54	23	0.8	
5	QPSK	12	7	21.38	21.46	21.39			
5	QPSK	12	13	21.27	21.27	21.26			
5	QPSK	25	0	21.46	21.59	21.44	23	0.8	
5	HQAM	1	0	21.74	21.87	21.70			
5	HQAM	1	12	21.63	21.74	21.60			
5	HQAM	1	24	21.66	21.71	21.66	22	1.8	
5	HQAM	12	0	20.25	20.31	20.21			
5	HQAM	12	7	20.13	20.27	20.22			
5	HQAM	12	13	20.10	20.21	20.10	22	1.8	
5	HQAM	25	0	20.18	20.28	20.21			
5	HQAM	25	0	20.41	20.61	20.56			
5	HQAM	12	0	19.29	19.50	19.50	22	1.8	
5	HQAM	1	24	20.49	20.58	20.51			
5	HQAM	12	0	19.27	19.39	19.29			
5	HQAM	12	7	19.12	19.27	19.13	21	2.8	
5	HQAM	12	13	19.20	19.59	19.13			
5	HQAM	25	0	19.15	19.30	19.03			
5	HQAM	1	0	17.52	17.59	17.45	19	4.8	
5	HQAM	1	12	17.50	17.43	17.20			
5	HQAM	1	24	17.42	17.57	17.42			
5	HQAM	12	0	17.19	17.26	17.18	19	4.8	
5	HQAM	12	7	17.14	17.19	17.02			
5	HQAM	12	13	17.15	17.24	17.09			
5	HQAM	25	0	17.26	17.24	17.20			
Channel									
Frequency (MHz)				37765	38060	38255	Tune-up limit (dBm)	MFR (dB)	
5	QPSK	1	0	22.52	22.49	22.35	23.8	0	
5	QPSK	1	12	22.37	22.35	22.25			
5	QPSK	1	24	22.22	22.42	22.25			
5	QPSK	12	0	21.47	21.58	21.54	23	0.8	
5	QPSK	12	7	21.38	21.46	21.39			
5	QPSK	12	13	21.27	21.27	21.26			
5	QPSK	25	0	21.46	21.59	21.44	23	0.8	
5	HQAM	1	0	21.74	21.87	21.70			
5	HQAM	1	12	21.63	21.74	21.60			
5	HQAM	1	24	21.66	21.71	21.66	22	1.8	
5	HQAM	12	0	20.25	20.31	20.21			
5	HQAM	12	7	20.13	20.27	20.22			
5	HQAM	12	13	20.10	20.21	20.10	22	1.8	
5	HQAM	25	0	20.18	20.28	20.21			
5	HQAM	25	0	20.41	20.61	20.56			
5	HQAM	12	0	19.29	19.50	19.50	22	1.8	
5	HQAM	1	24	20.49	20.58	20.51			
5	HQAM	12	0	19.27	19.39	19.29			
5	HQAM	12	7	19.12	19.27	19.13	21	2.8	
5	HQAM	12	13	19.20	19.59	19.13			
5	HQAM	25	0	19.15	19.30	19.03			
5	HQAM	1	0	17.52	17.59	17.45	19	4.8	
5	HQAM	1	12	17.50	17.43	17.20			
5	HQAM	1	24	17.42	17.57	17.42			
5	HQAM	12	0	17.19	17.26	17.18	19	4.8	
5	HQAM	12	7	17.14	17.19	17.02			
5	HQAM	12	13	17.15	17.24	17.09			
5	HQAM	25	0	17.26	17.24	17.20			
Channel									
Frequency (MHz)				37765	38060	38255	Tune-up limit (dBm)	MFR (dB)	
5	QPSK	1	0	22.52	22.49	22.35	23.8	0	
5	QPSK	1	12	22.37	22.35	22.25			
5	QPSK	1	24	22.22	22.42	22.25			
5	QPSK	12	0	21.47	21.58	21.54	23	0.8	
5	QPSK	12	7	21.38	21.46	21.39			
5	QPSK	12	13	21.27	21.27	21.26			
5	QPSK	25	0	21.46	21.59	21.44	23	0.8	
5	HQAM	1	0	21.74	21.87	21.70			
5	HQAM	1	12	21.63	21.74	21.60			
5	HQAM	1	24	21.66	21.71	21.66	22	1.8	
5	HQAM	12	0	20.25	20.31	20.21			
5	HQAM	12	7	20.13	20.27	20.22			
5	HQAM	12	13	20.10	20.21	20.10	22	1.8	
5	HQAM	25	0	20.18	20.28	20.21			
5	HQAM	25	0	20.41	20.61	20.56			
5	HQAM	12	0	19.29	19.50	19.50	22	1.8	
5	HQAM	1	24	20.49	20.58	20.51			
5	HQAM	12	0	19.27	19.39	19.29			
5	HQAM	12	7	19.12	19.27	19.13	21	2.8	
5	HQAM	12	13	19.20	19.59	19.13			
5	HQAM	25	0	19.15	19.30	19.03			
5	HQAM	1	0	17.52	17.59	17.45	19	4.8	
5	HQAM	1	12	17.50	17.43	17.20			
5	HQAM	1	24	17.42	17.57	17.42			
5	HQAM	12	0	17.19	17.26	17.18	19	4.8	
5	HQAM	12	7						



Band 42 FCC Part27Q Ant 2												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dBm)	MPR (dB)				
Channel				42160	42590	42990						
Frequency (MHz)				3452.5	3500	3547.5						
20	QPSK	1	0	23.13	23.15	23.90	24	0				
20	QPSK	1	48	23.01	23.02	23.91						
20	QPSK	1	99	23.01	23.02	23.90						
20	QPSK	50	0	22.19	22.19	22.11	23	1				
20	QPSK	50	24	22.51	22.54	21.90						
20	QPSK	50	50	21.99	21.98	21.92						
20	QPSK	100	0	22.16	22.16	21.99	23	1				
20	HQAM	1	0	22.48	22.41	22.34						
20	HQAM	1	48	22.43	22.35	22.26						
20	HQAM	1	99	22.37	22.43	22.28	22	2				
20	HQAM	50	0	21.63	21.64	20.88						
20	HQAM	50	24	21.01	21.67	20.85						
20	HQAM	50	50	20.92	20.90	20.94	20	0				
20	HQAM	100	0	20.96	20.96	20.99						
20	HQAM	1	0	21.27	21.27	21.24						
20	HQAM	1	48	21.27	21.28	21.19	22	2				
20	HQAM	1	99	21.17	21.15	21.26						
20	HQAM	50	0	20.01	19.97	19.96						
20	HQAM	50	24	19.98	19.89	19.83	21	3				
20	HQAM	50	50	19.97	19.83	19.86						
20	HQAM	100	0	19.96	19.96	19.84						
20	256QAM	1	0	18.24	18.17	18.14	19	5				
20	256QAM	1	48	18.20	18.16	18.07						
20	256QAM	1	99	18.08	18.14	18.12						
20	256QAM	50	0	17.67	17.69	17.67	19	5				
20	256QAM	50	24	17.86	17.89	17.75						
20	256QAM	50	50	17.82	17.80	17.83						
20	256QAM	100	0	17.86	18.01	17.88						
Channel				42165	42590	43015	Turn-up time (dBm)	MPR (dB)				
Frequency (MHz)				3452.5	3500	3547.5						
15	QPSK	1	0	23.08	23.10	23.87	24	0				
15	QPSK	1	37	22.94	22.84	22.80						
15	QPSK	1	74	22.92	22.82	22.70						
15	QPSK	36	0	22.03	22.13	22.98	23	1				
15	QPSK	36	20	21.90	21.99	21.85						
15	QPSK	36	48	21.91	21.88	21.88						
15	QPSK	75	0	22.06	21.98	21.92	23	1				
15	HQAM	1	0	22.36	22.33	22.27						
15	HQAM	1	37	22.36	22.27	22.22						
15	HQAM	1	74	22.35	22.31	22.20	22	2				
15	HQAM	36	0	21.00	20.91	20.77						
15	HQAM	36	20	20.98	20.84	20.82						
15	HQAM	36	39	20.80	20.87	20.80	22	2				
15	HQAM	75	0	20.91	20.82	20.78						
15	HQAM	1	0	21.25	21.13	21.31						
15	HQAM	1	37	21.15	21.19	21.09	22	2				
15	HQAM	1	74	21.13	21.05	21.18						
15	HQAM	36	0	19.93	19.92	19.93						
15	HQAM	36	20	19.91	19.89	19.72	21	3				
15	HQAM	36	39	19.63	19.72	19.76						
15	HQAM	75	0	19.89	19.92	19.81						
15	256QAM	1	0	18.16	18.10	18.04	19	5				
15	256QAM	1	37	18.10	18.02	18.00						
15	256QAM	1	74	18.00	18.12	18.02						
15	256QAM	36	0	17.94	17.81	17.87	19	5				
15	256QAM	36	20	17.73	17.82	17.70						
15	256QAM	36	39	17.86	17.77	17.78						
15	256QAM	75	0	17.67	17.68	17.75						
Channel				42160	42590	42990	Turn-up time (dBm)	MPR (dB)				
Frequency (MHz)				3452.5	3500	3547.5						
10	QPSK	1	0	23.04	23.10	23.94	24	0				
10	QPSK	1	25	22.90	22.94	22.79						
10	QPSK	1	49	22.96	22.84	22.71						
10	QPSK	36	0	22.06	22.08	21.98	23	1				
10	QPSK	25	12	21.89	21.94	21.82						
10	QPSK	25	25	21.62	21.65	21.81						
10	QPSK	50	0	22.02	22.05	21.96	23	1				
10	HQAM	1	0	22.37	22.27	22.20						
10	HQAM	1	25	22.41	22.27	22.32						
10	HQAM	1	49	22.26	22.35	22.21	22	2				
10	HQAM	25	0	20.93	20.96	20.80						
10	HQAM	25	12	20.87	21.03	20.72						
10	HQAM	25	25	20.89	20.84	20.86	22	2				
10	HQAM	50	0	20.89	20.85	20.75						
10	HQAM	1	0	21.14	21.22	21.22						
10	HQAM	1	25	21.24	21.22	21.13	22	2				
10	HQAM	1	49	21.10	21.09	21.19						
10	HQAM	25	0	19.97	19.85	19.81	21	3				
10	HQAM	25	12	19.90	19.75	19.75						
10	HQAM	25	25	19.74	19.71	19.83						
10	HQAM	50	0	19.90	19.83	19.81	19	5				
10	256QAM	1	0	18.10	18.05	18.11						
10	256QAM	1	25	18.09	18.06	17.99						
10	256QAM	1	49	18.02	18.01	18.00	19	5				
10	256QAM	25	0	17.96	17.93	17.78						
10	256QAM	25	12	17.90	17.80	17.86						
10	256QAM	25	25	17.85	17.75	17.75	19	5				
10	256QAM	50	0	17.90	17.85	17.74						
Channel				43115	43560	43985	Turn-up time (dBm)	MPR (dB)				
Frequency (MHz)				3452.5	3500	3547.5						
5	QPSK	1	0	23.08	23.02	22.88	24	0				
5	QPSK	1	12	22.97	22.91	22.83						
5	QPSK	1	24	22.92	22.92	22.69						
5	QPSK	12	0	22.63	22.15	21.98	23	1				
5	QPSK	12	7	21.95	22.01	21.83						
5	QPSK	12	13	21.85	21.86	21.78						
5	QPSK	25	0	22.03	22.08	21.92	23	1				
5	HQAM	1	0	22.39	22.31	22.22						
5	HQAM	1	12	22.36	22.25	22.13						
5	HQAM	1	24	22.24	22.38	22.32	22	2				
5	HQAM	12	0	20.98	21.02	20.77						
5	HQAM	12	7	20.88	20.96	20.72						
5	HQAM	12	13	20.84	20.84	20.90	22	2				
5	HQAM	25	0	20.89	20.93	20.85						
5	HQAM	1	0	21.22	21.19	21.28						
5	HQAM	1	12	21.16	21.19	21.09	21	3				
5	HQAM	1	24	21.08	21.11	21.18						
5	HQAM	12	0	19.87	19.84	19.92						
5	HQAM	12	7	19.91	19.85	19.79	19	5				
5	HQAM	12	13	19.73	19.72	19.72						
5	HQAM	25	0	19.85	19.82	19.71						
5	256QAM	1	0	18.17	18.07	18.01	19	5				
5	256QAM	1	12	18.12	18.07	17.99						
5	256QAM	1	24	17.99	18.02	17.99						
5	256QAM	12	0	17.86	17.86	17.83	19	5				
5	256QAM	12	7	17.84	17.81	17.84						
5	256QAM	12	13	17.80	17.81	17.73						
5	256QAM	25	0	17.84	17.89	17.84						

Band 48_FCC Ant 2														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freqs	Power Low Meds Ch / Freqs	Power High Meds Ch / Freqs	Power High Ch / Freqs	Turn-up time (dBm)	MPP (dB)					
Channel				56500	56600	56700	56800							
Frequency (MHz)				56500	56600	56700	56800							
20	QPSK	1	0	23.50	23.41	23.47	23.46	24	0					
20	QPSK	1	49	23.41	23.41	23.46	23.41							
20	QPSK	1	99	23.41	23.46	23.46	23.46							
20	QPSK	50	0	22.60	22.73	22.60	22.69							
20	QPSK	50	24	22.70	22.60	22.50	22.46	23	1					
20	QPSK	50	50	22.60	22.60	22.40	22.40							
20	QPSK	100	0	22.70	22.71	22.56	22.59							
20	16QAM	1	0	22.80	22.69	22.54	22.61							
20	16QAM	1	49	22.70	22.57	22.52	22.59	23	1					
20	16QAM	1	99	22.62	22.70	22.51	22.58							
20	16QAM	50	0	21.73	21.59	21.60	21.53							
20	16QAM	50	24	21.60	21.68	21.53	21.46							
20	16QAM	50	50	21.61	21.59	21.59	21.44	22	2					
20	64QAM	100	0	21.62	21.67	21.45	21.52							
20	64QAM	1	0	21.05	21.05	21.70	21.51							
20	64QAM	1	49	21.90	21.92	21.72	21.60							
20	64QAM	1	99	21.80	21.94	21.60	21.77	21	3					
20	64QAM	50	0	20.50	20.51	20.51	20.45							
20	64QAM	50	24	20.40	20.40	20.32	20.28							
20	64QAM	50	50	20.40	20.43	20.46	20.39							
20	256QAM	100	0	20.47	20.47	20.38	20.31	19	5					
20	256QAM	1	0	18.70	18.71	18.56	18.70							
20	256QAM	1	49	18.81	18.81	18.62	18.69							
20	256QAM	1	99	18.71	18.77	18.66	18.64							
20	256QAM	50	0	18.67	18.48	18.37	18.44	19	5					
20	256QAM	50	24	18.50	18.40	18.28	18.24							
20	256QAM	50	50	18.51	18.37	18.37	18.30							
20	256QAM	100	0	18.50	18.44	18.46	18.40							
Channel				56510	56600	56700	56800							
Frequency (MHz)				56510	56600	56700	56800							
15	QPSK	1	0	23.30	23.30	23.36	23.30	24	0					
15	QPSK	1	37	23.31	23.32	23.36	23.36							
15	QPSK	1	74	23.36	23.34	23.43	23.32							
15	QPSK	50	0	22.70	22.68	22.57	22.64							
15	QPSK	50	20	22.60	22.62	22.48	22.42	23	1					
15	QPSK	50	50	22.64	22.48	22.37	22.48							
15	QPSK	75	0	22.60	22.67	22.43	22.52							
15	16QAM	1	0	22.71	22.60	22.49	22.51							
15	16QAM	1	37	22.71	22.51	22.36	22.47	23	1					
15	16QAM	1	74	22.73	22.71	22.42	22.52							
15	16QAM	50	0	21.64	21.56	21.56	21.49							
15	16QAM	50	20	21.60	21.47	21.50	21.38							
15	16QAM	50	50	21.51	21.49	21.35	21.38	22	2					
15	16QAM	75	0	21.56	21.48	21.40	21.46							
15	64QAM	1	0	21.91	21.88	21.71	21.69							
15	64QAM	1	37	21.86	21.81	21.60	21.72							
15	64QAM	1	74	21.82	21.81	21.60	21.60	22	2					
15	64QAM	50	0	20.54	20.46	20.38	20.51							
15	64QAM	50	20	20.46	20.42	20.32	20.39							
15	64QAM	50	50	20.50	20.50	20.47	20.47							
15	256QAM	75	0	20.51	20.45	20.39	20.23	21	3					
15	256QAM	1	0	18.77	18.73	18.60	18.65							
15	256QAM	1	37	18.80	18.64	18.57	18.46							
15	256QAM	1	74	18.78	18.70	18.73	18.59							
15	256QAM	50	0	18.60	18.42	18.43	18.47	19	5					
15	256QAM	50	20	18.44	18.34	18.37	18.20							
15	256QAM	50	50	18.57	18.47	18.42	18.38							
15	256QAM	75	0	18.50	18.49	18.50	18.46							
Channel				56520	56610	56700	56800							
Frequency (MHz)				56520	56610	56700	56800							
10	QPSK	1	0	23.47	23.31	23.49	23.38	24	0					
10	QPSK	1	20	23.31	23.20	23.32	23.32							
10	QPSK	1	40	23.32	23.40	23.43	23.35							
10	QPSK	25	0	22.84	22.62	22.54	22.61							
10	QPSK	25	12	22.60	22.56	22.37	22.43	23	1					
10	QPSK	25	25	22.60	22.37	22.40	22.37							
10	QPSK	50	0	22.60	22.61	22.45	22.50							
10	16QAM	1	0	22.67	22.59	22.46	22.52							
10	16QAM	1	20	22.71	22.49	22.38	22.47	23	1					
10	16QAM	1	40	22.60	22.68	22.40	22.49							
10	16QAM	25	0	21.61	21.62	21.47	21.49							
10	16QAM	25	10	21.57	21.47	21.50	21.38							
10	16QAM	25	20	21.61	21.51	21.28	21.30	22	2					
10	16QAM	50	0	21.57	21.45	21.49	21.46							
10	64QAM	1	0	21.60	21.60	21.49	21.67							
10	64QAM	1	20	21.62	21.86	21.67	21.78							
10	64QAM	1	40	21.77	21.91	21.61	21.74	22	2					
10	64QAM	25	0	20.50	20.58	20.53	20.44							
10	64QAM	25	12	20.42	20.40	20.36	20.30							
10	64QAM	25	25	20.40	20.39	20.48	20.35							
10	256QAM	50	0	20.50	20.41	20.36	20.25	21	3					
10	256QAM	1	0	18.70	18.80	18.62	18.69							
10	256QAM	1	20	18.70	18.61	18.59	18.53							
10	256QAM	1	40	18.72	18.70	18.63	18.67							
10	256QAM	25	0	18.70	18.30	18.44	18.40	19	5					
10	256QAM	25	10	18.40	18.36	18.26	18.20							
10	256QAM	25	20	18.54	18.42	18.30	18.27							
10	256QAM	50	0	18.51	18.48	18.52	18.38							
Channel				56530	56620	56700	56800							
Frequency (MHz)				56530	56620	56700	56800							
5	QPSK	1	0	23.30	23.34	23.32	23.41	24	0					
5	QPSK	1	10	23.32	23.20	23.32	23.28							
5	QPSK	1	20	23.28	23.33	23.42	23.32							
5	QPSK	12	0	22.74	22.67	22.51	22.66							
5	QPSK	12	7	22.61	22.57	22.38	22.39	23	1					
5	QPSK	12	10	22.61	22.41	22.44	22.38							
5	QPSK	25	0	22.70	22.66	22.46	22.58							
5	16QAM	1	0	22.73	22.55	22.43	22.49							
5	16QAM	1	12	22.63	22.49	22.46	22.44	23	1					
5	16QAM	1	24	22.70	22.62	22.40	22.44							
5	16QAM	12	0	21.61	21.55	21.49	21.40							
5	16QAM	12	7	21.62	21.50	21.39	21.36							
5	16QAM	12	13	21.60	21.68	21.32	21.30	22	2					
5	16QAM	12	20	21.60	21.48	21.42	21.44							
5	16QAM	1	0	21.01	21.01	21.66	21.84							
5	16QAM	1	12	21.03	21.80	21.64	21.80							
5	16QAM	1	20	21.07	21.88	21.71	21.89	21	3					
5	16QAM	12	0	20.61	20.49	20.52	20.44							
5	16QAM	12	7	20.42	20.41	20.39	20.30							
5	16QAM	12	13	20.41	20.43	20.43	20.45							
5	64QAM	25	0	20.53	20.44	20.44	20.38	19	5					
5	64QAM	25	10	20.43	20.38	20.38	20.37							
5	64QAM	25	20	20.50	20.43	20.43	20.43							
5	256QAM	1	0	18.76	18.64	18.65	18.50							
5	256QAM	1	24	18.73	18.77	18.71	18.62	19		5				
5	256QAM	1	40	18.82	18.43	18.43	18.37							
5	256QAM	12	0	18.53	18.35	18.35	18.21							
5	256QAM	12	13	18.53	18.47	18.30	18.38							
5	256QAM	12	20	18.62	18.51	18.51	18.44							
Channel				56540	56630	56700	56800							
Frequency (MHz)				56540	56630	56700	56800							

Band 42 FCC Part27Q Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
				Channel	42190	42590	42990		
				Frequency (MHz)	3450	3500	3550		
20	QPSK	1	0		17.69	17.74	17.54	18.8	0
20	QPSK	1	49		17.53	17.52	17.52		
20	QPSK	1	99		17.46	17.57	17.59		
20	QPSK	50	0		17.86	17.59	17.53		
20	QPSK	50	24		17.49	17.49	17.58	18.8	0
20	QPSK	50	50		17.51	17.58	17.54		
20	QPSK	100	0		17.53	17.58	17.50		
20	16QAM	1	0		17.46	17.51	17.54		
20	16QAM	1	49		17.46	17.50	17.57	18.8	0
20	16QAM	1	99		17.52	17.54	17.57		
20	16QAM	50	0		17.48	17.49	17.57		
20	16QAM	50	24		17.47	17.55	17.54		
20	16QAM	50	50		17.53	17.54	17.58	18.8	0
20	16QAM	100	0		17.47	17.57	17.54		
20	64QAM	1	0		17.52	17.54	17.57		
20	64QAM	1	49		17.44	17.57	17.59		
20	64QAM	1	99		17.49	17.58	17.50	18.8	0
20	64QAM	50	0		17.47	17.54	17.58		
20	64QAM	50	24		17.51	17.54	17.52		
20	64QAM	50	50		17.53	17.56	17.57		
20	64QAM	100	0		17.46	17.53	17.58	18.8	0
20	256QAM	1	0		17.48	17.58	17.51		
20	256QAM	1	49		17.47	17.53	17.54		
20	256QAM	1	99		17.54	17.58	17.59		
20	256QAM	50	0		17.44	17.56	17.49	18.8	0
20	256QAM	50	24		17.46	17.54	17.55		
20	256QAM	50	50		17.52	17.58	17.54		
20	256QAM	100	0		17.46	17.56	17.55		
				Channel	42469	42590	42615		
				Frequency (MHz)	3457.5	3500	3542.5		
15	QPSK	1	0		17.51	17.55	17.30	18.8	0
15	QPSK	1	37		17.36	17.34	17.36		
15	QPSK	1	74		17.21	17.34	17.42		
15	QPSK	36	0		17.31	17.43	17.37		
15	QPSK	36	20		17.24	17.27	17.37	18.8	0
15	QPSK	36	39		17.33	17.42	17.34		
15	QPSK	75	0		17.36	17.40	17.33		
15	16QAM	1	0		17.31	17.28	17.38		
15	16QAM	1	37		17.25	17.34	17.34	18.8	0
15	16QAM	1	74		17.36	17.39	17.41		
15	16QAM	36	0		17.32	17.26	17.39		
15	16QAM	36	20		17.23	17.37	17.38		
15	16QAM	36	39		17.32	17.38	17.36	18.8	0
15	16QAM	75	0		17.28	17.34	17.38		
15	64QAM	1	0		17.36	17.35	17.40		
15	64QAM	1	37		17.25	17.41	17.37		
15	64QAM	1	74		17.30	17.40	17.30	18.8	0
15	64QAM	36	0		17.31	17.36	17.39		
15	64QAM	36	20		17.33	17.33	17.31		
15	64QAM	36	39		17.30	17.36	17.34		
15	64QAM	75	0		17.27	17.36	17.39	18.8	0
15	256QAM	1	0		17.31	17.39	17.29		
15	256QAM	1	37		17.28	17.28	17.37		
15	256QAM	1	74		17.30	17.40	17.40		
15	256QAM	36	0		17.28	17.41	17.30	18.8	0
15	256QAM	36	20		17.24	17.29	17.33		
15	256QAM	36	39		17.28	17.34	17.30		
15	256QAM	75	0		17.26	17.40	17.32		
				Channel	42140	42590	43040		
				Frequency (MHz)	3455	3500	3545		
10	QPSK	1	0		17.51	17.54	17.36	18.8	0
10	QPSK	1	25		17.29	17.29	17.34		
10	QPSK	1	49		17.25	17.41	17.43		
10	QPSK	25	0		17.39	17.38	17.28		
10	QPSK	25	12		17.27	17.29	17.37	18.8	0
10	QPSK	25	25		17.26	17.36	17.38		
10	QPSK	50	0		17.31	17.40	17.27		
10	16QAM	1	0		17.29	17.34	17.30		
10	16QAM	1	25		17.29	17.30	17.39	18.8	0
10	16QAM	1	49		17.31	17.38	17.38		
10	16QAM	25	0		17.32	17.28	17.42		
10	16QAM	25	12		17.25	17.33	17.29		
10	16QAM	25	25		17.32	17.38	17.36	18.8	0
10	16QAM	50	0		17.28	17.36	17.25		
10	64QAM	1	0		17.34	17.31	17.40		
10	64QAM	1	25		17.24	17.37	17.42		
10	64QAM	1	49		17.25	17.35	17.26	18.8	0
10	64QAM	25	0		17.30	17.36	17.37		
10	64QAM	25	12		17.33	17.36	17.28		
10	64QAM	25	25		17.30	17.33	17.38		
10	64QAM	50	0		17.29	17.37	17.39	18.8	0
10	256QAM	1	0		17.26	17.38	17.28		
10	256QAM	1	25		17.26	17.29	17.30		
10	256QAM	1	49		17.34	17.35	17.39		
10	256QAM	25	0		17.19	17.31	17.29	18.8	0
10	256QAM	25	12		17.25	17.33	17.37		
10	256QAM	25	25		17.33	17.36	17.38		
10	256QAM	50	0		17.24	17.31	17.33		
				Channel	42115	42590	43065		
				Frequency (MHz)	3452.5	3500	3547.5		
5	QPSK	1	0		17.47	17.57	17.35	18.8	0
5	QPSK	1	12		17.28	17.31	17.33		
5	QPSK	1	24		17.24	17.37	17.40		
5	QPSK	12	0		17.33	17.44	17.32		
5	QPSK	12	7		17.24	17.27	17.37	18.8	0
5	QPSK	12	13		17.32	17.39	17.37		
5	QPSK	25	0		17.30	17.39	17.33		
5	16QAM	1	0		17.30	17.36	17.32		
5	16QAM	1	12		17.30	17.25	17.34	18.8	0
5	16QAM	1	24		17.34	17.37	17.32		
5	16QAM	12	0		17.27	17.29	17.37		
5	16QAM	12	7		17.27	17.30	17.34		
5	16QAM	12	13		17.36	17.37	17.41	18.8	0
5	16QAM	25	0		17.22	17.40	17.38		
5	64QAM	1	0		17.34	17.33	17.39		
5	64QAM	1	12		17.25	17.39	17.42		
5	64QAM	1	24		17.25	17.33	17.28	18.8	0
5	64QAM	12	0		17.26	17.29	17.35		
5	64QAM	12	7		17.27	17.38	17.35		
5	64QAM	12	13		17.32	17.37	17.35		
5	256QAM	25	0		17.25	17.36	17.40	18.8	0
5	256QAM	1	0		17.32	17.34	17.33		
5	256QAM	1	12		17.23	17.36	17.37		
5	256QAM	1	24		17.32	17.42	17.40		
5	256QAM	12	0		17.27	17.32	17.25	18.8	0
5	256QAM	12	7		17.28	17.35	17.35		
5	256QAM	12	13		17.28	17.42	17.39		
5	256QAM	25	0		17.31	17.41	17.34		

Band 48_FCC Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				55340	55830	56150	56640			
Frequency (MHz)				3550	3607	3641	3690			
20	QPSK	1	0	17.53	17.34	17.31	17.31	18.6	0	
20	QPSK	1	49	17.30	17.28	17.33	17.32			
20	QPSK	1	99	17.38	17.34	17.35	17.33			
20	QPSK	50	0	17.39	17.29	17.32	17.38			
20	QPSK	50	24	17.32	17.29	17.33	17.37	18.6	0	
20	QPSK	50	50	17.32	17.32	17.32	17.36			
20	QPSK	100	0	17.38	17.32	17.37	17.29			
20	16QAM	1	0	17.31	17.34	17.28	17.38			
20	16QAM	1	49	17.34	17.37	17.31	17.38	18.6	0	
20	16QAM	1	99	17.34	17.31	17.30	17.30			
20	16QAM	50	0	17.33	17.29	17.37	17.35			
20	16QAM	50	24	17.36	17.28	17.33	17.28		18.6	0
20	16QAM	50	50	17.36	17.33	17.34	17.29			
20	16QAM	100	0	17.35	17.28	17.32	17.32			
20	64QAM	1	0	17.29	17.38	17.37	17.37	18.6	0	
20	64QAM	1	49	17.36	17.33	17.34	17.30			
20	64QAM	1	99	17.31	17.33	17.35	17.29			
20	64QAM	50	0	17.36	17.29	17.30	17.29			
20	64QAM	50	24	17.38	17.36	17.37	17.36	18.6	0	
20	64QAM	50	50	17.32	17.31	17.34	17.33			
20	64QAM	100	0	17.32	17.30	17.38	17.34			
20	256QAM	1	0	17.37	17.32	17.38	17.37			
20	256QAM	1	49	17.32	17.33	17.37	17.33	18.6	0	
20	256QAM	1	99	17.36	17.32	17.36	17.35			
20	256QAM	50	0	17.38	17.30	17.37	17.35			
20	256QAM	50	24	17.31	17.34	17.31	17.33		18.6	0
20	256QAM	50	50	17.32	17.37	17.35	17.38			
20	256QAM	100	0	17.29	17.32	17.29	17.38			
Channel				55315	55820	56160	56660	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3557.5	3608	3642	3692.5			
15	QPSK	1	0	17.37	17.13	17.11	17.07	18.6	0	
15	QPSK	1	37	17.15	17.11	17.11	17.16			
15	QPSK	1	74	17.20	17.17	17.12	17.12			
15	QPSK	36	0	17.20	17.06	17.16	17.16			
15	QPSK	36	20	17.15	17.11	17.17	17.18	18.6	0	
15	QPSK	36	39	17.09	17.15	17.13	17.20			
15	QPSK	75	0	17.23	17.15	17.18	17.05			
15	16QAM	1	0	17.08	17.18	17.08	17.13			
15	16QAM	1	37	17.19	17.17	17.15	17.19	18.6	0	
15	16QAM	1	74	17.17	17.12	17.07	17.12			
15	16QAM	36	0	17.11	17.07	17.14	17.13			
15	16QAM	36	20	17.14	17.05	17.12	17.04		18.6	0
15	16QAM	36	39	17.19	17.15	17.10	17.04			
15	16QAM	75	0	17.17	17.04	17.14	17.16			
15	64QAM	1	0	17.13	17.14	17.18	17.13	18.6	0	
15	64QAM	1	37	17.16	17.14	17.12	17.08			
15	64QAM	1	74	17.08	17.09	17.13	17.12			
15	64QAM	36	0	17.20	17.06	17.06	17.14			
15	64QAM	36	20	17.15	17.12	17.12	17.13	18.6	0	
15	64QAM	36	39	17.16	17.08	17.18	17.14			
15	64QAM	75	0	17.14	17.12	17.06	17.17			
15	256QAM	1	0	17.15	17.17	17.14	17.20		18.6	0
15	256QAM	1	37	17.16	17.15	17.20	17.14			
15	256QAM	1	74	17.15	17.14	17.20	17.17			
15	256QAM	36	0	17.12	17.12	17.12	17.13			
15	256QAM	36	20	17.14	17.14	17.12	17.11	18.6	0	
15	256QAM	36	39	17.15	17.19	17.16	17.18			
15	256QAM	75	0	17.04	17.08	17.05	17.23			
Channel				55290	55815	56165	56690	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3655	3697.5	3642.5	3695			
10	QPSK	1	0	17.32	17.19	17.15	17.12	18.6	0	
10	QPSK	1	25	17.11	17.07	17.15	17.16			
10	QPSK	1	49	17.13	17.10	17.15	17.12			
10	QPSK	25	0	17.21	17.07	17.17	17.16			
10	QPSK	25	12	17.17	17.07	17.09	17.18	18.6	0	
10	QPSK	25	25	17.14	17.11	17.15	17.12			
10	QPSK	50	0	17.20	17.12	17.14	17.11			
10	16QAM	1	0	17.13	17.12	17.04	17.14		18.6	0
10	16QAM	1	25	17.14	17.20	17.10	17.15			
10	16QAM	1	49	17.14	17.08	17.06	17.08			
10	16QAM	25	0	17.09	17.10	17.12	17.08		18.6	0
10	16QAM	25	12	17.16	17.09	17.13	17.07			
10	16QAM	25	25	17.20	17.16	17.10	17.08			
10	16QAM	50	0	17.16	17.05	17.14	17.07	18.6	0	
10	64QAM	1	0	17.07	17.19	17.20	17.17			
10	64QAM	1	25	17.20	17.08	17.17	17.08			
10	64QAM	1	49	17.09	17.13	17.10	17.13		18.6	0
10	64QAM	25	0	17.13	17.07	17.09	17.11			
10	64QAM	25	12	17.16	17.17	17.18	17.19			
10	64QAM	25	25	17.15	17.07	17.14	17.12		18.6	0
10	64QAM	50	0	17.10	17.13	17.10	17.16			
10	256QAM	1	0	17.18	17.12	17.14	17.12			
10	256QAM	1	25	17.11	17.09	17.22	17.16	18.6	0	
10	256QAM	1	49	17.17	17.13	17.16	17.13			
10	256QAM	25	0	17.12	17.08	17.14	17.16			
10	256QAM	25	12	17.08	17.19	17.06	17.13		18.6	0
10	256QAM	25	25	17.08	17.15	17.14	17.17			
10	256QAM	50	0	17.10	17.10	17.12	17.19			
Channel				55265	55810	56170	56715	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3552.5	3607	3643	3697.5			
5	QPSK	1	0	17.31	17.14	17.09	17.13	18.6	0	
5	QPSK	1	12	17.07	17.05	17.17	17.09			
5	QPSK	1	24	17.17	17.14	17.20	17.12			
5	QPSK	12	0	17.18	17.09	17.14	17.17			
5	QPSK	12	7	17.11	17.12	17.13	17.16	18.6	0	
5	QPSK	12	13	17.11	17.09	17.08	17.13			
5	QPSK	25	0	17.20	17.08	17.21	17.13			
5	16QAM	1	0	17.08	17.17	17.11	17.17		18.6	0
5	16QAM	1	12	17.10	17.13	17.12	17.14			
5	16QAM	1	24	17.12	17.12	17.08	17.10			
5	16QAM	12	0	17.17	17.05	17.22	17.17			
5	16QAM	12	7	17.19	17.09	17.14	17.03	18.6	0	
5	16QAM	12	13	17.17	17.17	17.15	17.12			
5	16QAM	25	0	17.17	17.06	17.13	17.16			
5	64QAM	1	0	17.09	17.20	17.19	17.17		18.6	0
5	64QAM	1	12	17.13	17.16	17.14	17.10			
5	64QAM	1	24	17.10	17.18	17.08	17.14			
5	64QAM	12	0	17.14	17.12	17.15	17.08		18.6	0
5	64QAM	12	7	17.13	17.19	17.12	17.17			
5	64QAM	12	13	17.10	17.10	17.11	17.13			
5	256QAM	25	0	17.14	17.14	17.10	17.15	18.6	0	
5	256QAM	1	0	17.14	17.08	17.20	17.15			
5	256QAM	1	12	17.16	17.10	17.21	17.09			
5	256QAM	1	24	17.13	17.14	17.15	17.16			
5	256QAM	12	0	17.13	17.08	17.20	17.11	18.6	0	
5	256QAM	12	7	17.07	17.12	17.07	17.16			
5	256QAM	12	13	17.16	17.16	17.11	17.14			
5	256QAM	25	0	17.08	17.17	17.12	17.15			

Band 42 FCC Part27Q Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
				Channel	42190	42590	42990		
				Frequency (MHz)	3400	3500	3540		
20	QPSK	1	0	19.59	19.62	19.50		20.9	0
20	QPSK	1	49	19.44	19.40	19.35			
20	QPSK	1	99	19.42	19.40	19.36			
20	QPSK	50	0	19.57	19.59	19.50		20.9	0
20	QPSK	50	24	19.44	19.50	19.47			
20	QPSK	50	50	19.48	19.35	19.50			
20	QPSK	100	0	19.55	19.57	19.51		20.9	0
20	16QAM	1	0	19.43	19.38	19.41			
20	16QAM	1	49	19.43	19.43	19.52			
20	16QAM	1	99	19.48	19.34	19.47		20.9	0
20	16QAM	50	0	19.44	19.48	19.37			
20	16QAM	50	24	19.44	19.47	19.33			
20	16QAM	50	50	19.50	19.52	19.49		20.9	0
20	16QAM	100	0	19.55	19.41	19.48			
20	64QAM	1	0	19.46	19.36	19.38			
20	64QAM	1	49	19.52	19.36	19.38		20.9	0
20	64QAM	1	99	19.43	19.44	19.47			
20	64QAM	50	0	19.56	19.49	19.34			
20	64QAM	50	24	19.44	19.49	19.48		20.9	0
20	64QAM	50	50	19.39	19.42	19.49			
20	64QAM	100	0	19.56	19.40	19.34			
20	256QAM	1	0	17.03	16.95	17.00		18	2.9
20	256QAM	1	49	17.07	16.90	16.79			
20	256QAM	1	99	16.93	16.84	16.91			
20	256QAM	50	0	16.90	16.83	16.84		18	2.9
20	256QAM	50	24	16.81	16.71	16.48			
20	256QAM	50	50	16.83	16.74	16.53			
20	256QAM	100	0	16.79	16.71	16.62			
				Channel	42190	42590	43040		
				Frequency (MHz)	3457.5	3500	3542.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	19.44	19.47	19.28		20.9	0
15	QPSK	1	37	19.33	19.22	19.05			
15	QPSK	1	74	19.22	19.16	19.15			
15	QPSK	36	0	19.35	19.37	19.23		20.9	0
15	QPSK	36	20	19.33	19.32	19.22			
15	QPSK	36	39	19.24	19.08	19.28			
15	QPSK	75	0	19.43	19.23	19.32		20.9	0
15	16QAM	100	0	19.19	19.11	19.20			
15	16QAM	1	37	19.21	19.32	19.31			
15	16QAM	1	74	19.28	19.19	19.20		20.9	0
15	16QAM	36	0	19.34	19.29	19.25			
15	16QAM	36	20	19.32	19.20	19.24			
15	16QAM	36	39	19.25	19.29	19.37		20.9	0
15	16QAM	75	0	19.30	19.13	19.34			
15	64QAM	1	0	19.16	19.15	19.08			
15	64QAM	1	37	19.32	19.07	19.14		20.9	0
15	64QAM	1	74	19.29	19.33	19.32			
15	64QAM	36	0	19.32	19.23	19.13			
15	64QAM	36	20	19.28	19.25	19.30		20.9	0
15	64QAM	36	39	19.11	19.24	19.37			
15	64QAM	75	0	19.44	19.12	19.04			
15	256QAM	1	0	16.82	16.81	16.73		18	2.9
15	256QAM	1	37	16.87	16.75	16.69			
15	256QAM	1	74	16.89	16.59	16.75			
15	256QAM	36	0	16.75	16.64	16.40		18	2.9
15	256QAM	36	20	16.53	16.43	16.37			
15	256QAM	36	39	16.61	16.47	16.39			
15	256QAM	75	0	16.65	16.54	16.50			
				Channel	42140	42590	43040		
				Frequency (MHz)	3455	3500	3545	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	19.46	19.44	19.21		20.9	0
10	QPSK	1	25	19.22	19.11	19.17			
10	QPSK	1	49	19.20	19.12	19.20			
10	QPSK	25	0	19.31	19.39	19.31		20.9	0
10	QPSK	25	12	19.30	19.26	19.36			
10	QPSK	25	25	19.23	19.07	19.29			
10	QPSK	50	0	19.32	19.37	19.32		20.9	0
10	16QAM	1	0	19.20	19.10	19.27			
10	16QAM	1	25	19.31	19.18	19.42			
10	16QAM	1	49	19.25	19.23	19.32		20.9	0
10	16QAM	25	0	19.25	19.28	19.22			
10	16QAM	25	12	19.27	19.21	19.13			
10	16QAM	25	25	19.35	19.32	19.26		20.9	0
10	16QAM	50	0	19.32	19.27	19.29			
10	64QAM	1	0	19.29	19.25	19.23			
10	64QAM	1	25	19.37	19.08	19.23		20.9	0
10	64QAM	1	49	19.25	19.34	19.27			
10	64QAM	25	0	19.43	19.31	19.19			
10	64QAM	25	12	19.14	19.25	19.27		20.9	0
10	64QAM	25	25	19.13	19.20	19.30			
10	64QAM	50	0	19.42	19.22	19.09			
10	256QAM	1	0	16.76	16.66	16.72		18	2.9
10	256QAM	1	25	16.94	16.64	16.51			
10	256QAM	1	49	16.80	16.63	16.72			
10	256QAM	25	0	16.72	16.53	16.50		18	2.9
10	256QAM	25	12	16.67	16.52	16.29			
10	256QAM	25	25	16.69	16.64	16.27			
10	256QAM	50	0	16.67	16.42	16.38			
				Channel	42115	42590	43065		
				Frequency (MHz)	3452.5	3500	3547.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	19.43	19.37	19.31		20.9	0
5	QPSK	1	12	19.18	19.27	19.20			
5	QPSK	1	24	19.16	19.24	19.15			
5	QPSK	12	0	19.44	19.36	19.37		20.9	0
5	QPSK	12	7	19.18	19.32	19.25			
5	QPSK	12	13	19.37	19.19	19.31			
5	QPSK	25	0	19.39	19.22	19.31		20.9	0
5	16QAM	1	0	19.18	19.15	19.21			
5	16QAM	1	12	19.19	19.13	19.34			
5	16QAM	1	24	19.31	19.14	19.34		20.9	0
5	16QAM	12	0	19.27	19.32	19.12			
5	16QAM	12	7	19.18	19.28	19.16			
5	16QAM	12	13	19.25	19.39	19.27		20.9	0
5	16QAM	25	0	19.43	19.15	19.34			
5	64QAM	1	0	19.17	19.07	19.25			
5	64QAM	1	12	19.32	19.11	19.20		20.9	0
5	64QAM	1	24	19.29	19.15	19.19			
5	64QAM	12	0	19.44	19.37	19.10			
5	64QAM	12	7	19.16	19.36	19.28		20.9	0
5	64QAM	12	13	19.12	19.32	19.20			
5	64QAM	25	0	19.35	19.11	19.23			
5	256QAM	1	0	16.89	16.70	16.71		18	2.9
5	256QAM	1	12	16.82	16.72	16.64			
5	256QAM	1	24	16.83	16.62	16.78			
5	256QAM	12	0	16.75	16.70	16.38		18	2.9
5	256QAM	12	7	16.62	16.56	16.29			
5	256QAM	12	13	16.59	16.59	16.38			
5	256QAM	25	0	16.66	16.59	16.38			

Band 48_FCC Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55430	56150	56640		
Frequency (MHz)				3520	3600	3643	3665		
20	QPSK	1	0	20.12	20.20	20.42	20.17	21.3	0
20	QPSK	1	49	20.21	20.13	20.30	20.17		
20	QPSK	1	99	20.30	20.14	20.14	20.29		
20	QPSK	50	0	20.20	20.13	20.31	20.23		
20	QPSK	50	24	20.30	20.29	20.23	20.13	21.3	0
20	QPSK	50	50	20.19	20.17	20.26	20.29		
20	QPSK	100	0	20.26	20.17	20.27	20.21		
20	16QAM	1	0	20.17	20.17	20.20	20.20		
20	16QAM	1	49	20.25	20.20	20.12	20.29	21.3	0
20	16QAM	1	99	20.19	20.20	20.17	20.16		
20	16QAM	50	0	20.28	20.25	20.18	20.22		
20	16QAM	50	24	20.13	20.22	20.17	20.23		
20	16QAM	50	50	20.23	20.31	20.16	20.31	21	0.3
20	16QAM	100	0	20.25	20.24	20.14	20.31		
20	64QAM	1	0	20.18	20.25	20.28	20.23		
20	64QAM	1	49	20.15	20.27	20.19	20.30		
20	64QAM	1	99	20.15	20.23	20.32	20.16	20	1.3
20	64QAM	50	0	19.87	19.73	19.88	19.85		
20	64QAM	50	24	19.87	19.82	19.83	19.86		
20	64QAM	50	50	19.89	19.87	19.92	19.79		
20	84QAM	100	0	19.93	19.86	19.90	19.85	18	3.3
20	256QAM	1	0	16.76	16.82	16.79	16.86		
20	256QAM	1	49	16.79	16.83	16.81	16.69		
20	256QAM	1	99	16.74	16.74	16.80	16.86		
20	256QAM	50	0	16.51	16.59	16.60	16.48	18	3.3
20	256QAM	50	24	16.47	16.50	16.57	16.39		
20	256QAM	50	50	16.54	16.52	16.58	16.48		
20	256QAM	100	0	16.55	16.53	16.63	16.51		
Channel				55315	55420	56160	56660	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.5	3608	3642.5	3655.5		
15	QPSK	1	0	19.93	19.91	20.24	19.95	21.3	0
15	QPSK	1	37	20.08	19.93	20.07	20.02		
15	QPSK	1	74	20.11	19.98	19.91	20.17		
15	QPSK	36	0	19.91	19.85	19.92	20.11		
15	QPSK	36	20	20.19	20.15	20.02	19.88	21.3	0
15	QPSK	36	39	19.93	19.97	20.04	20.11		
15	QPSK	75	0	20.07	19.99	20.02	19.93		
15	16QAM	1	0	19.93	19.96	19.95	19.95		
15	16QAM	1	37	20.12	19.96	19.92	20.14	21.3	0
15	16QAM	1	74	20.00	20.02	19.93	20.00		
15	16QAM	36	0	20.05	19.99	19.99	20.11		
15	16QAM	36	20	19.85	19.92	19.88	19.93		
15	16QAM	36	39	20.00	20.19	20.04	20.12	21	0.3
15	16QAM	75	0	20.14	19.95	19.93	20.07		
15	64QAM	1	0	19.86	19.95	20.16	19.93		
15	64QAM	1	37	20.06	20.09	20.08	20.03		
15	64QAM	1	74	19.93	19.93	20.01	19.96	20	1.3
15	64QAM	36	0	19.88	19.77	19.90	19.81		
15	64QAM	36	20	19.82	19.77	19.90	19.81		
15	64QAM	36	39	19.92	19.93	19.91	19.85		
15	64QAM	75	0	19.96	19.88	19.88	19.93	18	3.3
15	256QAM	1	0	16.52	16.72	16.50	16.58		
15	256QAM	1	37	16.82	16.55	16.52	16.46		
15	256QAM	1	74	16.82	16.48	16.51	16.72		
15	256QAM	36	0	16.23	16.31	16.34	16.18	18	3.3
15	256QAM	36	20	16.35	16.39	16.35	16.19		
15	256QAM	36	39	16.32	16.39	16.29	16.36		
15	256QAM	75	0	16.45	16.26	16.38	16.21		
Channel				55200	55815	56165	56660	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3655	3607.5	3642.5	3665		
10	QPSK	1	0	19.89	19.93	20.17	19.88	21.3	0
10	QPSK	1	25	20.03	19.96	20.01	20.02		
10	QPSK	1	49	20.07	19.89	19.94	20.03		
10	QPSK	25	0	20.02	19.93	19.86	20.12		
10	QPSK	25	12	20.14	20.00	20.07	19.84	21.3	0
10	QPSK	25	25	19.95	19.93	20.01	20.11		
10	QPSK	50	0	20.05	20.03	20.08	19.86		
10	16QAM	1	0	19.91	20.02	20.09	19.92		
10	16QAM	1	25	20.08	20.02	20.02	20.00	21.3	0
10	16QAM	1	49	20.06	19.98	20.02	19.90		
10	16QAM	25	0	19.96	20.13	20.00	20.11		
10	16QAM	25	12	19.96	20.09	20.02	20.06		
10	16QAM	25	25	20.08	20.11	20.04	20.01	21	0.3
10	16QAM	50	0	20.03	20.01	19.89	20.18		
10	64QAM	1	0	19.97	20.05	20.02	20.10		
10	64QAM	1	25	20.00	20.13	19.98	20.17		
10	64QAM	1	49	19.93	20.02	19.92	19.93	20	1.3
10	64QAM	25	0	19.89	19.83	19.85	19.78		
10	64QAM	25	12	19.80	19.79	19.91	19.87		
10	64QAM	25	25	19.92	19.93	19.89	19.85		
10	64QAM	50	0	19.88	19.85	19.81	19.83	18	3.3
10	256QAM	1	0	16.65	16.69	16.52	16.76		
10	256QAM	1	25	16.58	16.68	16.54	16.42		
10	256QAM	1	49	16.47	16.58	16.56	16.69		
10	256QAM	25	0	16.40	16.32	16.35	16.27	18	3.3
10	256QAM	25	12	16.20	16.26	16.30	16.17		
10	256QAM	25	25	16.29	16.35	16.43	16.33		
10	256QAM	50	0	16.43	16.32	16.38	16.35		
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	20.01	20.00	20.14	20.06	21.3	0
5	QPSK	1	12	20.04	20.02	20.16	19.91		
5	QPSK	1	24	20.06	19.91	20.03	20.02		
5	QPSK	12	0	19.99	19.93	20.00	20.02		
5	QPSK	12	7	20.12	20.15	20.14	19.95	21.3	0
5	QPSK	12	13	19.97	19.98	20.08	20.02		
5	QPSK	25	0	20.08	20.05	19.97	20.04		
5	16QAM	1	0	19.88	19.97	20.06	20.06		
5	16QAM	1	12	20.12	19.95	19.87	20.07	21.3	0
5	16QAM	1	24	20.07	19.93	19.86	19.96		
5	16QAM	12	0	20.13	20.06	20.03	20.01		
5	16QAM	12	7	19.90	20.05	20.03	20.11		
5	16QAM	12	13	20.05	20.11	19.88	20.08	21	0.3
5	16QAM	25	0	20.03	20.07	19.86	20.04		
5	64QAM	1	0	20.08	20.03	19.98	20.06		
5	64QAM	1	12	19.95	19.99	20.03	20.09		
5	64QAM	1	24	19.91	20.09	19.86	19.97	20	1.3
5	64QAM	12	0	19.94	19.77	19.90	19.77		
5	64QAM	12	7	19.82	19.77	19.82	19.90		
5	64QAM	12	13	19.93	19.90	19.93	19.81		
5	256QAM	25	0	16.47	16.67	16.52	16.72	18	3.3
5	256QAM	1	12	16.56	16.56	16.60	16.51		
5	256QAM	1	24	16.80	16.50	16.56	16.71		
5	256QAM	12	0	16.26	16.34	16.36	16.32		
5	256QAM	12	7	16.35	16.37	16.37	16.13	18	3.3
5	256QAM	12	13	16.42	16.29	16.41	16.26		
5	256QAM	25	0	16.40	16.42	16.44	16.23		

Band 42 FCC Part27Q Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3455	3500	3545			
20	QPSK	1	0	19.48	19.71	19.40	20.6	0	
20	QPSK	1	49	19.45	19.54	19.56			
20	QPSK	1	99	19.40	19.49	19.55			
20	QPSK	50	0	19.45	19.57	19.47			
20	QPSK	50	24	19.42	19.41	19.58	20.6	0	
20	QPSK	50	50	19.43	19.48	19.45			
20	QPSK	100	0	19.46	19.47	19.44			
20	16QAM	1	0	19.42	19.45	19.43			
20	16QAM	1	49	19.41	19.45	19.47	20.6	0	
20	16QAM	1	99	19.47	19.53	19.53			
20	16QAM	50	0	19.39	19.43	19.38			
20	16QAM	50	24	19.38	19.48	19.55			
20	16QAM	50	50	19.42	19.49	19.53	20.6	0	
20	16QAM	100	0	19.40	19.45	19.54			
20	64QAM	1	0	19.43	19.42	19.47			
20	64QAM	1	49	19.38	19.62	19.49			
20	64QAM	1	99	19.43	19.33	19.52	20.6	0	
20	64QAM	50	0	19.42	19.58	19.49			
20	64QAM	50	24	19.39	19.44	19.50			
20	64QAM	50	50	19.42	19.49	19.50			
20	256QAM	100	0	19.46	19.35	19.56	17.8	2.8	
20	256QAM	1	0	17.00	16.97	16.90			
20	256QAM	1	49	17.03	16.96	16.86			
20	256QAM	1	99	17.00	16.94	16.97			
15	256QAM	50	0	16.67	16.79	16.75	17.8	2.8	
20	256QAM	50	24	16.59	16.66	16.52			
20	256QAM	50	50	16.62	16.65	16.62			
20	256QAM	100	0	16.80	16.79	16.71			
Channel				43165	43590	43915	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	19.23	19.49	19.28	20.6	0	
15	QPSK	1	37	19.27	19.11	19.29			
15	QPSK	1	74	19.26	19.19	19.30			
15	QPSK	36	0	19.38	19.34	19.37			
15	QPSK	36	20	19.17	19.18	19.28	20.6	0	
15	QPSK	36	39	19.33	19.10	19.30			
15	QPSK	75	0	19.21	19.24	19.24			
15	16QAM	1	0	19.32	19.17	19.24			
15	16QAM	1	37	19.40	19.28	19.27	20.6	0	
15	16QAM	1	74	19.35	19.21	19.33			
15	16QAM	36	0	19.13	19.33	19.20			
15	16QAM	36	20	19.18	19.19	19.29			
15	16QAM	36	39	19.33	19.31	19.45	20.6	0	
15	16QAM	75	0	19.28	19.10	19.33			
15	64QAM	1	0	19.19	19.33	19.10			
15	64QAM	1	37	19.29	19.27	19.27			
15	64QAM	1	74	19.31	19.21	19.30	20.6	0	
15	64QAM	36	0	19.21	19.40	19.28			
15	64QAM	36	20	19.16	19.34	19.34			
15	64QAM	36	39	19.29	19.23	19.37			
15	64QAM	75	0	19.39	19.27	19.32	17.8	2.8	
15	256QAM	1	0	16.85	16.68	16.87			
15	256QAM	1	37	16.68	16.73	16.54			
15	256QAM	1	74	16.79	16.79	16.79			
15	256QAM	36	0	16.43	16.65	16.47	17.8	2.8	
15	256QAM	36	20	16.44	16.63	16.40			
15	256QAM	36	39	16.59	16.53	16.42			
15	256QAM	75	0	16.68	16.64	16.44			
Channel				42140	42590	43040	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	19.17	19.50	19.13	20.6	0	
10	QPSK	1	25	19.21	19.17	19.34			
10	QPSK	1	49	19.16	19.28	19.27			
10	QPSK	25	0	19.16	19.38	19.32			
10	QPSK	25	12	19.26	19.30	19.29	20.6	0	
10	QPSK	25	25	19.21	19.11	19.33			
10	QPSK	50	0	19.16	19.17	19.18			
10	16QAM	1	0	19.26	19.23	19.28			
10	16QAM	1	25	19.19	19.29	19.27	20.6	0	
10	16QAM	1	49	19.28	19.31	19.27			
10	16QAM	25	0	19.11	19.36	19.29			
10	16QAM	25	12	19.21	19.28	19.32			
10	16QAM	25	25	19.47	19.36	19.44	20.6	0	
10	16QAM	50	0	19.22	19.23	19.39			
10	64QAM	1	0	19.18	19.22	19.16			
10	64QAM	1	25	19.19	19.51	19.43			
10	64QAM	1	49	19.28	19.18	19.37	20.6	0	
10	64QAM	25	0	19.17	19.36	19.25			
10	64QAM	25	12	19.09	19.25	19.32			
10	64QAM	25	25	19.44	19.30	19.30			
10	64QAM	50	0	19.30	19.21	19.25	17.8	2.8	
10	256QAM	1	0	16.74	16.76	16.77			
10	256QAM	1	25	16.67	16.73	16.62			
10	256QAM	1	49	16.74	16.77	16.61			
10	256QAM	25	0	16.49	16.58	16.61	17.8	2.8	
10	256QAM	25	12	16.51	16.54	16.31			
10	256QAM	25	25	16.51	16.57	16.51			
10	256QAM	50	0	16.56	16.44	16.54			
Channel				42115	42590	43065	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	19.28	19.53	19.12	20.6	0	
5	QPSK	1	12	19.17	19.22	19.34			
5	QPSK	1	24	19.24	19.34	19.36			
5	QPSK	12	0	19.32	19.42	19.31			
5	QPSK	12	7	19.29	19.23	19.48	20.6	0	
5	QPSK	12	13	19.33	19.16	19.52			
5	QPSK	25	0	19.07	19.16	19.24			
5	16QAM	1	0	19.19	19.21	19.28			
5	16QAM	1	12	19.21	19.29	19.21	20.6	0	
5	16QAM	1	24	19.24	19.30	19.14			
5	16QAM	12	0	19.26	19.21	19.11			
5	16QAM	12	7	19.12	19.27	19.23			
5	16QAM	12	13	19.31	19.35	19.34	20.6	0	
5	16QAM	25	0	19.31	19.12	19.34			
5	64QAM	1	0	19.32	19.35	19.22			
5	64QAM	1	12	19.16	19.28	19.23			
5	64QAM	1	24	19.16	19.16	19.36	20.6	0	
5	64QAM	12	0	19.21	19.36	19.40			
5	64QAM	12	7	19.16	19.31	19.18			
5	64QAM	12	13	19.33	19.36	19.31			
5	256QAM	25	0	16.42	16.12	19.24	17.8	2.8	
5	256QAM	1	0	16.82	16.71	16.73			
5	256QAM	1	12	16.85	16.80	16.61			
5	256QAM	1	24	16.85	16.79	16.79			
5	256QAM	12	0	16.54	16.64	16.37	17.8	2.8	
5	256QAM	12	7	16.38	16.51	16.43			
5	256QAM	12	13	16.36	16.50	16.33			
5	256QAM	25	0	16.70	16.63	16.48			

Band 48_FCC Ant 7											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				55340	55530	56150	56640				
Frequency (MHz)											
20	QPSK	1	0	19.25	18.92	18.95	19.06	20.3	0		
20	QPSK	1	49	19.07	19.04	18.90	19.06				
20	QPSK	1	99	18.99	18.98	19.00	19.03				
20	QPSK	50	0	19.16	18.91	19.09	19.03				
20	QPSK	50	24	19.09	19.02	19.09	19.09	20.3	0		
20	QPSK	50	50	19.08	19.05	18.91	18.99				
20	QPSK	100	0	19.07	19.06	19.04	18.87				
20	16QAM	1	0	18.98	19.06	18.99	18.94				
20	16QAM	1	49	19.01	19.08	18.98	19.13	20.3	0		
20	16QAM	1	99	19.12	19.07	18.94	19.07				
20	16QAM	50	0	18.92	19.03	19.07	19.02				
20	16QAM	50	24	19.05	18.92	19.09	18.93				
20	16QAM	50	50	19.07	19.11	19.02	19.04	20.3	0		
20	16QAM	100	0	18.93	18.94	19.15	19.15				
20	64QAM	1	0	18.94	18.94	18.90	19.05				
20	64QAM	1	49	19.12	19.14	19.01	18.99				
20	64QAM	1	99	19.05	19.05	19.07	19.00	20.3	0		
20	64QAM	50	0	19.17	19.03	18.93	19.12				
20	64QAM	50	24	19.06	19.04	19.05	19.05				
20	64QAM	50	50	18.98	18.97	18.94	19.13				
20	64QAM	100	0	19.02	19.00	18.93	19.05	20.3	0		
20	256QAM	1	0	18.54	18.56	18.45	18.55				
20	256QAM	1	49	18.55	18.36	18.40	18.35				
20	256QAM	1	99	18.42	18.59	18.40	18.52				
20	256QAM	50	0	18.43	18.16	18.25	18.22	19.7	0.6		
20	256QAM	50	24	18.23	18.06	18.15	18.09				
20	256QAM	50	50	18.27	18.07	18.23	18.19				
20	256QAM	100	0	18.21	18.30	18.29	18.19				
Channel				55315	55520	56160	56665				
Frequency (MHz)				3557.5	3600	3642	3695	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	37	18.83	18.91	18.71	18.92	20.3	0		
15	QPSK	1	74	18.79	18.85	18.71	18.72				
15	QPSK	36	0	18.91	18.82	18.81	18.82				
15	QPSK	36	20	18.93	18.76	18.95	18.86				
15	QPSK	36	39	18.79	18.83	18.72	18.84	20.3	0		
15	QPSK	75	0	18.83	18.95	18.75	18.82				
15	16QAM	1	0	18.84	18.71	18.91	18.75				
15	16QAM	1	37	18.91	18.78	18.88	18.80				
15	16QAM	1	74	18.95	18.85	18.80	18.90	20.3	0		
15	16QAM	36	0	18.77	18.99	18.92	18.83				
15	16QAM	36	20	18.87	18.76	18.80	18.77				
15	16QAM	36	39	18.75	18.97	18.72	18.81				
15	16QAM	75	0	18.69	18.80	18.85	19.02	20.3	0		
15	64QAM	1	0	18.84	18.73	18.75	18.89				
15	64QAM	1	37	18.89	18.99	18.79	18.86				
15	64QAM	1	74	18.84	18.85	19.00	18.83				
15	64QAM	36	0	18.87	18.92	18.72	18.86	20.3	0		
15	64QAM	36	20	18.88	18.92	18.85	18.95				
15	64QAM	36	39	18.82	18.67	18.65	18.82				
15	64QAM	75	0	18.75	18.86	18.70	18.85				
15	256QAM	1	0	18.43	18.42	18.18	18.38	19.7	0.6		
15	256QAM	1	37	18.20	18.20	18.17	18.16				
15	256QAM	1	74	18.28	18.28	18.35	18.26				
15	256QAM	36	0	18.17	18.03	17.97	17.99				
15	256QAM	36	20	18.17	18.01	17.88	17.84				
15	256QAM	36	39	18.05	18.04	18.06	17.97				
15	256QAM	75	0	18.12	18.02	18.03	18.00				
Channel				55310	55515	56165	56690	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3555	3607.5	3642.5	3695				
10	QPSK	1	0	19.02	18.70	18.75	18.90	20.3	0		
10	QPSK	1	25	18.77	18.79	18.70	18.82				
10	QPSK	1	49	18.82	18.76	18.76	18.81				
10	QPSK	25	0	18.92	18.82	18.95	19.04				
10	QPSK	25	12	18.93	18.79	18.91	18.92	20.3	0		
10	QPSK	25	25	18.88	18.85	18.75	18.73				
10	QPSK	50	0	18.76	18.75	18.80	18.72				
10	16QAM	1	0	18.65	18.75	18.82	18.61				
10	16QAM	1	25	18.83	18.80	18.91	19.07	20.3	0		
10	16QAM	1	49	18.84	18.88	18.73	18.87				
10	16QAM	25	0	18.68	18.92	18.79	18.83				
10	16QAM	25	12	18.91	18.80	18.83	18.67				
10	16QAM	25	25	18.83	18.95	18.83	18.81	20.3	0		
10	16QAM	50	0	18.64	18.81	18.98	18.79				
10	64QAM	1	0	18.64	18.70	18.80	18.92				
10	64QAM	1	25	18.85	18.93	18.87	18.90				
10	64QAM	1	49	18.91	18.81	19.05	18.71	20.3	0		
10	64QAM	25	0	19.02	18.90	18.81	18.73				
10	64QAM	25	12	18.97	18.95	18.89	18.78				
10	64QAM	25	25	18.89	18.72	18.77	18.83				
10	64QAM	50	0	18.70	18.80	18.78	18.76	19.7	0.6		
10	256QAM	1	0	18.36	18.29	18.20	18.46				
10	256QAM	1	25	18.24	18.10	18.15	18.17				
10	256QAM	1	49	18.21	18.30	18.24	18.41				
10	256QAM	25	0	18.19	17.90	17.99	17.96	19.7	0.6		
10	256QAM	25	12	18.20	17.82	17.94	17.79				
10	256QAM	25	25	18.08	17.91	18.06	17.98				
10	256QAM	50	0	18.08	17.96	18.05	18.17				
Channel				55265	55810	56170	56715	Tune-up limit (dBm)			MPR (dB)
Frequency (MHz)				3552.5	3607	3643	3697.5				
5	QPSK	1	0	18.98	18.77	18.78	19.02	20.3	0		
5	QPSK	1	12	18.89	18.91	18.88	18.89				
5	QPSK	1	24	18.71	18.74	18.66	18.69				
5	QPSK	12	0	18.96	18.76	18.83	18.97				
5	QPSK	12	7	18.85	18.86	18.78	18.91	20.3	0		
5	QPSK	12	13	18.86	18.90	18.66	18.85				
5	QPSK	25	0	18.90	18.76	18.84	18.83				
5	16QAM	1	0	18.72	18.86	18.94	18.67				
5	16QAM	1	12	18.88	18.91	18.82	19.04	20.3	0		
5	16QAM	1	24	18.90	18.91	18.90	18.90				
5	16QAM	12	0	18.71	18.94	18.85	18.78				
5	16QAM	12	7	19.00	18.62	18.85	18.78				
5	16QAM	12	13	18.85	18.84	18.80	18.87	20.3	0		
5	16QAM	25	0	18.64	18.64	18.94	18.93				
5	64QAM	1	0	18.74	18.71	18.67	18.84				
5	64QAM	1	12	18.85	18.91	18.78	18.87				
5	64QAM	1	24	18.87	18.91	19.00	18.65	20.3	0		
5	64QAM	12	0	18.95	18.89	18.82	18.91				
5	64QAM	12	7	18.94	18.88	18.87	18.75				
5	64QAM	12	13	18.87	18.60	18.74	18.96				
5	256QAM	1	0	18.94	18.83	18.74	18.80	19.7	0.6		
5	256QAM	1	12	18.45	18.32	18.31	18.29				
5	256QAM	1	12	18.40	18.24	18.21	18.12				
5	256QAM	1	24	18.23	18.32	18.27	18.32				
5	256QAM	12	0	18.23	18.06	17.94	17.95				
5	256QAM	12	7	17.97	17.97	17.97	17.95				
5	256QAM	12	13	18.06	17.95	17.99	17.93				
5	256QAM	25	0	18.06	18.11	18.11	18.14				



Band 38 Ant 10										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				37950	38050	38150				
20	QPSK	1	0	18.39	18.43	18.44				
20	QPSK	1	49	18.47	18.49	18.53	19.5	0		
20	QPSK	50	0	18.43	18.53	18.55				
20	QPSK	50	0	18.44	18.54	18.52				
20	QPSK	50	24	18.50	18.48	18.53	19.5	0		
20	HQAM	1	0	18.36	18.36	18.44				
20	HQAM	1	49	18.38	18.43	18.41	19.5	0		
20	HQAM	1	99	18.43	18.52	18.35				
20	HQAM	50	24	18.42	18.35	18.35				
20	HQAM	50	50	18.36	18.51	18.52	19.5	0		
20	HQAM	100	0	18.42	18.42	18.40				
20	HQAM	100	0	18.38	18.38	18.44				
20	HQAM	1	0	18.48	18.41	18.37				
20	HQAM	1	99	18.43	18.50	18.43	19.5	0		
20	HQAM	50	0	18.48	18.39	18.35				
20	HQAM	50	24	18.35	18.47	18.43	19.5	0		
20	HQAM	50	50	18.39	18.53	18.51				
20	HQAM	100	0	18.40	18.49	18.42				
20	256QAM	1	0	17.75	17.84	17.89				
20	256QAM	1	49	17.77	17.86	17.74	19.5	0		
20	256QAM	1	99	17.79	17.77	17.85				
20	256QAM	50	0	17.57	17.62	17.52				
20	256QAM	50	24	17.50	17.57	17.57	19.5	0		
20	256QAM	50	50	17.57	17.59	17.52				
20	256QAM	100	0	17.50	17.50	17.50				
Channel										
Frequency (MHz)				37950	38050	38175	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	217.3	18.43	217.2				
15	QPSK	1	37	18.18	18.37	18.36	19.5	0		
15	QPSK	1	74	18.18	18.19	18.24				
15	QPSK	36	0	18.23	18.33	18.41				
15	QPSK	36	20	18.26	18.23	18.25	19.5	0		
15	QPSK	75	0	18.16	18.15	18.31				
15	HQAM	1	0	18.24	18.29	18.37				
15	HQAM	1	37	18.26	18.16	18.26	19.5	0		
15	HQAM	1	74	18.28	18.35	18.05				
15	HQAM	36	0	18.17	18.10	18.18				
15	HQAM	36	20	18.25	18.25	18.25	19.5	0		
15	HQAM	36	39	18.11	18.24	18.22				
15	HQAM	75	0	18.21	18.22	18.13				
15	HQAM	75	0	18.23	18.27	18.08				
15	HQAM	1	37	18.22	18.49	18.33	19.5	0		
15	HQAM	36	74	18.25	18.22	18.10				
15	HQAM	36	0	18.37	18.27	18.16				
15	HQAM	36	20	18.14	18.31	18.31	19.5	0		
15	HQAM	75	0	18.12	18.17	18.16				
15	256QAM	1	0	17.83	17.58	17.77	19.5	0		
15	256QAM	1	37	17.85	17.59	17.68				
15	256QAM	1	74	17.55	17.50	17.61				
15	256QAM	36	0	17.58	17.58	17.55				
15	256QAM	36	20	17.57	17.58	17.52	19.5	0		
15	256QAM	36	39	17.57	17.59	17.52				
15	256QAM	75	0	17.57	17.54	17.59				
Channel										
Frequency (MHz)				37950	38050	38000	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	261.3	18.44	261.2				
10	QPSK	1	25	18.24	18.34	18.39	19.5	0		
10	QPSK	1	49	18.15	18.17	18.26				
10	QPSK	1	74	18.15	18.15	18.26				
10	QPSK	25	12	18.35	18.35	18.23	19.5	0		
10	QPSK	25	25	18.10	18.27	18.30				
10	HQAM	1	0	18.16	18.29	18.34				
10	HQAM	1	0	18.16	18.29	18.34	19.5	0		
10	HQAM	1	25	18.43	18.25	18.22				
10	HQAM	1	49	18.14	18.24	18.17				
10	HQAM	25	0	18.14	18.23	18.10				
10	HQAM	25	12	18.26	18.22	18.21	19.5	0		
10	HQAM	25	25	18.35	18.33	18.40				
10	HQAM	50	0	18.23	18.20	18.12				
10	HQAM	50	0	18.26	18.25	18.21				
10	HQAM	1	0	18.25	18.21	18.25	19.5	0		
10	HQAM	1	25	18.23	18.40	18.17				
10	HQAM	1	49	18.21	18.33	18.24				
10	HQAM	25	0	18.29	18.16	18.10	18.41	18.24		
10	HQAM	25	12	18.08	18.12	18.08	18.25	18.25		
10	HQAM	25	25	18.25	18.22	18.13	18.23	18.23		
10	HQAM	50	0	18.12	18.19	18.32	18.23	18.20		
10	HQAM	50	0	18.18	18.09	18.24	18.10	18.18		
10	HQAM	1	25	18.18	18.07	18.28	18.30	18.10		
10	HQAM	1	49	18.21	18.15	18.27	18.18	18.14		
10	HQAM	25	0	18.24	18.33	18.30	18.25	18.09		
10	HQAM	25	12	18.07	18.22	18.26	18.23	18.23		
10	HQAM	25	25	18.12	18.20	18.25	18.22	18.16		
10	HQAM	50	0	18.28	18.35	18.12	18.34	18.23		
10	HQAM	50	0	17.84	17.84	17.74	18.25	18.14		
10	256QAM	1	0	18.25	17.69	17.66	19.5	0		
10	256QAM	1	49	17.64	17.60	17.71				
10	256QAM	25	0	17.75	17.75	17.66				
10	256QAM	25	12	17.80	17.68	17.67	19.5	0		
10	256QAM	25	25	17.58	17.66	17.52				
10	256QAM	50	0	17.77	17.82	17.60	19.5	0		
Channel										
Frequency (MHz)				37975	38060	38025	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	261.3	18.27	261.2				
5	QPSK	1	12	18.25	18.36	18.27	18.22	18.19		
5	QPSK	1	24	18.32	18.12	18.36	18.31	18.18		
5	QPSK	12	0	18.28	18.19	18.36	18.20	18.18		
5	QPSK	12	7	18.32	18.13	18.21	18.12	18.38		
5	QPSK	12	13	18.20	18.25	18.36	18.20	18.19		
5	QPSK	25	0	18.12	18.32	18.26	18.23	18.16		
5	HQAM	1	0	18.30	18.14	18.37	18.20	18.25		
5	HQAM	1	12	18.28	18.30	18.14	18.24	18.27	19.5	0
5	HQAM	1	24	18.29	18.34	18.17	18.17	18.26		
5	HQAM	12	0	18.22	18.29	18.09	18.34	18.25		
5	HQAM	12	7	18.08	18.25	18.08	18.18	18.31	19.5	0
5	HQAM	12	13	18.21	18.37	18.27	18.19	18.28		
5	HQAM	25	0	18.18	18.32	18.26	18.28	18.18		
5	HQAM	1	0	18.25	18.18	18.10	18.10	18.28		
5	HQAM	1	12	18.14	18.11	18.25	18.26	18.13	19.5	0
5	HQAM	1	24	18.17	18.09	18.30	18.11	18.15		
5	HQAM	12	0	18.32	18.28	18.27	18.22	18.23		
5	HQAM	12	7	18.26	18.28	18.41	18.22	18.31	19.5	0
5	HQAM	12	13	18.25	18.22	18.25	18.28	18.19		
5	HQAM	25	0	18.32	18.40	18.24	18.37	18.19		
5	256QAM	1	0	18.28	18.22	17.92	18.09	18.04		
5	256QAM	1	12	18.15	18.05	17.91	18.12	17.82	19.5	0
5	256QAM	1	24	18.08	18.22	18.13	18.07	18.15		
5	256QAM	12	0	17.87	17.81	17.79	17.88	17.80		
5	256QAM	12	7	17.85	17.75	17.91	17.87	17.70	19.5	0
5	256QAM	12	13	17.88	17.88	17.75	17.84	17.70		
5	256QAM	25	0	17.81	17.90	17.83	17.88	17.84		

Band 41 Ant 10											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490			
20	QPSK	1	0	18.54	18.39	18.46	18.39	18.46			
20	QPSK	1	49	18.35	18.37	18.42	18.42	18.42	19.5	0	
20	QPSK	50	0	18.43	18.40	18.49	18.45	18.44			
20	QPSK	50	24	18.36	18.40	18.39	18.35	18.40			
20	QPSK	50	24	18.44	18.39	18.40	18.35	18.50	19.5	0	
20	QPSK	50	50	18.45	18.39	18.40	18.38	18.42			
20	QPSK	100	0	18.54	18.35	18.48	18.40	18.37			
20	16QAM	1	0	18.44	18.51	18.42	18.47	18.54			
20	16QAM	50	24	18.34	18.36	18.35	18.38	18.42	19.5	0	
20	16QAM	1	99	18.42	18.43	18.43	18.41	18.44			
20	16QAM	50	0	18.42	18.41	18.38	18.51	18.44			
20	16QAM	50	24	18.36	18.36	18.35	18.38	18.42	19.5	0	
20	16QAM	50	50	18.48	18.51	18.37	18.50	18.39			
20	64QAM	1	49	18.44	18.35	18.49	18.48	18.35	19.5	0	
20	64QAM	1	99	18.43	18.35	18.49	18.39	18.36			
20	64QAM	50	0	18.52	18.44	18.45	18.51	18.34			
20	64QAM	50	24	18.44	18.51	18.54	18.38	18.49	19.5	0	
20	64QAM	50	50	18.41	18.41	18.39	18.47	18.38			
20	64QAM	100	0	18.40	18.51	18.50	18.54	18.48			
20	256QAM	1	0	18.43	18.40	18.21	18.31	18.27			
20	256QAM	50	24	18.33	18.26	18.24	18.27	18.29	19.5	0	
20	256QAM	1	99	18.31	18.37	18.28	18.23	18.29			
20	256QAM	50	0	18.29	18.50	18.07	18.09	17.99			
20	256QAM	50	24	18.14	17.91	18.01	17.95	17.85			
20	256QAM	50	50	18.14	17.99	17.97	18.04	18.04			
20	256QAM	100	0	18.14	18.07	18.01	18.04	18.04			
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490			
15	QPSK	1	0	18.41	18.24	18.31	18.18	18.18			
15	QPSK	1	37	18.18	18.21	18.26	18.26	18.17	20	0	
15	QPSK	1	74	18.32	18.29	18.25	18.25	18.25			
15	QPSK	25	0	18.34	18.26	18.32	18.18	18.26			
15	QPSK	36	20	18.26	18.09	18.12	18.22	18.34			
15	QPSK	36	20	18.25	18.16	18.22	18.18	18.15			
15	QPSK	75	0	18.26	18.24	18.20	18.10	18.08			
15	16QAM	1	0	18.14	18.25	18.25	18.28	18.35			
15	16QAM	1	37	18.32	18.27	18.31	18.24	18.24	19.5	0	
15	16QAM	1	74	18.28	18.18	18.33	18.20	18.17			
15	16QAM	25	0	18.23	18.23	18.14	18.31	18.26			
15	16QAM	25	0	18.20	18.14	18.29	18.15	18.31			
15	16QAM	36	36	18.35	18.41	18.19	18.20	18.26			
15	16QAM	75	0	18.23	18.23	18.23	18.23	18.23			
15	64QAM	1	0	18.21	18.24	18.10	18.23	18.20			
15	64QAM	1	37	18.21	18.21	18.35	18.28	18.23	19.5	0	
15	64QAM	1	74	18.26	18.15	18.25	18.25	18.15			
15	64QAM	25	0	18.33	18.18	18.25	18.30	18.13			
15	64QAM	36	20	18.17	18.30	18.27	18.22	18.34			
15	64QAM	36	20	18.11	18.27	18.27	18.22	18.22			
15	64QAM	75	0	18.27	18.24	18.37	18.41	18.37			
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490			
15	QPSK	1	0	18.44	18.17	18.26	18.15	18.15			
15	QPSK	1	25	18.18	18.12	18.31	18.19	18.19	20	0	
15	QPSK	1	49	18.35	18.25	18.25	18.25	18.25			
15	QPSK	25	0	18.25	18.21	18.32	18.22	18.28			
15	QPSK	25	12	18.26	18.25	18.13	18.18	18.23			
15	QPSK	25	12	18.24	18.14	18.21	18.27	18.07	19.5	0	
15	QPSK	50	0	18.28	18.20	18.24	18.18	18.24			
15	16QAM	1	0	18.29	18.21	18.30	18.28	18.42			
15	16QAM	1	25	18.23	18.40	18.24	18.24	18.31			
15	16QAM	1	49	18.23	18.33	18.24	18.18	18.24			
15	16QAM	25	0	18.20	18.16	18.10	18.44	18.34			
15	16QAM	25	12	18.08	18.22	18.25	18.25	18.25	19.5	0	
15	16QAM	25	12	18.28	18.22	18.13	18.14	18.23			
15	16QAM	50	0	18.12	18.18	18.27	18.27	18.20			
15	64QAM	1	0	18.10	18.09	18.24	18.19	18.16			
15	64QAM	1	25	18.16	18.07	18.28	18.36	18.10	19.5	0	
15	64QAM	1	49	18.21	18.16	18.25	18.25	18.14			
15	64QAM	25	0	18.24	18.33	18.30	18.30	18.19			
15	64QAM	25	12	18.22	18.36	18.26	18.15	18.22	19.5	0	
15	64QAM	25	12	18.20	18.20	18.25	18.25	18.18			
15	64QAM	50	0	18.14	18.29	18.37	18.34	18.23			
15	256QAM	1	0	18.24	18.16	18.26	18.26	18.14			
15	256QAM	1	25	18.02	18.03	18.06	18.04	18.02			
15	256QAM	1	49	18.16	18.10	18.03	18.00	18.05			
15	256QAM	25	12	17.90	17.77	17.89	17.83	17.83	19.5	0	
15	256QAM	25	12	17.83	17.87	17.70	17.76	17.63			
15	256QAM	50	0	17.82	17.77	17.83	17.83	17.84			
Channel											
Frequency (MHz)				39675	40185	40620	41055	41460			
5	QPSK	1	0	18.42	18.27	18.37	18.25	18.25			
5	QPSK	1	12	18.18	18.24	18.24	18.20	18.31	20	0	
5	QPSK	1	24	18.33	18.25	18.31	18.26	18.16			
5	QPSK	12	0	18.28	18.19	18.36	18.20	18.18			
5	QPSK	12	7	18.32	18.13	18.21	18.12	18.28	19.5	0	
5	QPSK	25	0	18.20	18.25	18.25	18.25	18.25			
5	QPSK	25	0	18.30	18.07	18.29	18.19	18.19			
5	16QAM	1	0	18.29	18.38	18.14	18.30	18.26			
5	16QAM	1	12	18.28	18.29	18.34	18.24	18.31			
5	16QAM	1	24	18.29	18.32	18.20	18.20	18.26			
5	16QAM	12	0	18.22	18.26	18.26	18.26	18.26			
5	16QAM	12	7	18.08	18.25	18.08	18.18	18.31	19.5	0	
5	16QAM	12	13	18.21	18.37	18.25	18.18	18.28			
5	64QAM	1	0	18.18	18.32	18.22	18.22	18.15			
5	64QAM	1	0	18.20	18.16	18.10	18.25	18.18	19.5	0	
5	64QAM	1	12	18.34	18.11	18.25	18.26	18.13			
5	64QAM	12	0	18.24	18.19	18.25	18.11	18.14			
5	64QAM	12	0	18.32	18.28	18.27	18.22	18.23			
5	64QAM	12	7	18.30	18.29	18.41	18.22	18.35			
5	64QAM	12	13	18.28	18.22	18.35	18.25	18.18			
5	256QAM	1	0	18.22	18.40	18.24	18.33	18.19			
5	256QAM	1	12	18.10	18.05	17.91	18.12	17.92	19.5	0	
5	256QAM	1	24	18.08	18.22	18.13	18.07	18.15			
5	256QAM	12	0	17.91	17.97	17.83	17.83	17.84			
5	256QAM	12	7	17.85	17.75	17.91	17.87	17.70	19.5	0	
5	256QAM	12	13	17.98	17.88	17.75	17.94	17.70			

Reduced Power Mode for ECI4

GSM850 Ant 0		Burst Average Power (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		32.02	31.98	31.84	33.50	23.02	22.98	24.50
GPRS 1 Tx slot		32.01	32.02	31.91	33.50	23.01	23.02	24.50
GPRS 2 Tx slots		31.22	31.23	31.16	32.50	25.22	25.23	26.50
GPRS 3 Tx slots		29.41	29.42	29.33	30.50	25.15	25.16	26.24
GPRS 4 Tx slots		28.20	28.25	28.13	29.50	25.20	25.25	26.50
EDGE 1 Tx slot		26.38	26.43	26.45	27.50	17.38	17.43	18.50
EDGE 2 Tx slots		25.14	25.23	25.37	26.50	19.14	19.23	20.50
EDGE 3 Tx slots		22.91	22.98	23.07	24.00	18.85	18.72	19.74
EDGE 4 Tx slots		21.58	21.66	21.69	22.50	18.56	18.69	19.50

GSM1900 Ant 0		Burst Average Power (dBm)			Frame Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		512	661	810	512	661	810	
Frequency (MHz)		1850.2	1860	1909.8	1850.2	1860	1909.8	
GSM 1 Tx slot		28.85	28.84	29.01	30.50	19.85	19.84	21.50
GPRS 1 Tx slot		28.85	28.86	28.99	30.50	19.85	19.86	21.50
GPRS 2 Tx slots		28.23	28.21	28.35	29.50	22.23	22.21	23.50
GPRS 3 Tx slots		26.55	26.46	26.65	27.50	22.29	22.20	23.24
GPRS 4 Tx slots		25.44	25.66	25.54	26.50	22.44	22.66	23.50
EDGE 1 Tx slot		25.62	25.48	25.70	26.50	16.62	16.48	17.50
EDGE 2 Tx slots		24.47	24.31	24.52	25.50	18.47	18.31	19.50
EDGE 3 Tx slots		22.24	22.06	22.39	23.00	17.98	17.80	18.74
EDGE 4 Tx slots		21.04	20.77	20.99	22.00	18.04	17.77	19.00

Band		WCDMA II Ant 0			Tune-up Limit (dBm)	WCDMA IV Ant 0			Tune-up Limit (dBm)	WCDMA V Ant 0			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	1860	1907.6		1742.4	1752.5	1752.8		2062.4	2074	2106	
3GPP Rel 99	AMR 12.2Kbps	23.00	23.21	23.21	24.00	22.76	23.02	22.99	24.00	23.09	23.38	23.36	24.00
3GPP Rel 99	RMC 12.2Kbps	23.04	23.42	23.27	24.00	22.90	23.23	23.18	24.00	23.22	23.53	23.45	24.00
3GPP Rel 6	HSDPA Subtest-1	22.22	22.22	22.27	23.00	21.99	22.05	22.08	23.00	22.29	22.44	22.39	23.00
3GPP Rel 6	HSDPA Subtest-2	22.24	22.29	22.28	23.00	22.00	22.16	22.08	23.00	22.29	22.43	22.44	23.00
3GPP Rel 6	HSDPA Subtest-3	21.70	21.87	21.69	22.50	21.68	21.74	21.47	22.50	21.90	21.95	21.87	22.50
3GPP Rel 6	HSDPA Subtest-4	21.64	21.82	21.75	22.50	21.55	21.66	21.49	22.50	21.84	21.91	21.89	22.50
3GPP Rel 6	DCHSDPA Subtest-1	22.28	22.17	22.23	23.00	22.06	22.08	22.00	23.00	22.36	22.33	22.31	23.00
3GPP Rel 6	DCHSDPA Subtest-2	22.16	22.20	22.12	23.00	21.98	21.95	22.00	23.00	22.26	22.32	22.30	23.00
3GPP Rel 6	DCHSDPA Subtest-3	21.64	21.80	21.63	22.50	21.56	21.53	21.43	22.50	21.83	21.89	21.78	22.50
3GPP Rel 6	DCHSDPA Subtest-4	21.53	21.75	21.59	22.50	21.38	21.67	21.42	22.50	21.76	21.84	21.77	22.50
3GPP Rel 6	HSUPA Subtest-1	22.04	22.25	22.22	23.00	21.85	22.05	22.02	23.00	22.25	22.40	22.34	23.00
3GPP Rel 6	HSUPA Subtest-2	20.23	20.29	20.17	21.00	20.02	20.13	20.05	21.00	20.35	20.48	20.36	21.00
3GPP Rel 6	HSUPA Subtest-3	21.21	21.43	21.29	22.00	21.08	21.27	20.98	22.00	21.35	21.58	21.37	22.00
3GPP Rel 6	HSUPA Subtest-4	20.05	20.26	20.17	21.00	19.84	20.10	20.00	21.00	20.16	20.41	20.30	21.00
3GPP Rel 6	HSUPA Subtest-5	22.00	22.21	22.27	23.00	21.84	22.04	22.09	23.00	22.16	22.32	22.43	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.72	19.81	19.89	20.50	19.52	19.60	19.73	20.50	19.96	19.93	20.04	20.50

Band		WCDMA II Ant 1			Tune-up Limit (dBm)	WCDMA IV Ant 1			Tune-up Limit (dBm)	WCDMA V Ant 1			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9462	9600	9738		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1980	1997.6		1712.4	1732.6	1752.8		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	22.84	23.11	23.08	24.00	22.71	23.15	23.08	24.00	22.89	23.24	23.23	24.00
3GPP Rel 99	AMR 12.2Kbps	22.90	23.22	23.16	24.00	22.95	23.21	23.11	24.00	23.08	23.37	23.26	24.00
3GPP Rel 6	HSDPA Subtest-1	22.06	22.06	22.13	23.00	22.00	22.20	22.05	23.00	22.13	22.31	22.20	23.00
3GPP Rel 6	HSDPA Subtest-2	22.13	22.19	22.17	23.00	22.02	22.12	22.05	23.00	22.19	22.29	22.24	23.00
3GPP Rel 6	HSDPA Subtest-3	21.61	21.77	21.52	22.50	21.54	21.70	21.65	22.50	21.71	21.82	21.78	22.50
3GPP Rel 6	HSDPA Subtest-4	21.51	21.69	21.62	22.50	21.52	21.59	21.54	22.50	21.70	21.77	21.69	22.50
3GPP Rel 8	DCHSDPA Subtest-1	22.17	22.05	22.13	23.00	21.99	22.04	22.01	23.00	22.17	22.16	22.14	24.00
3GPP Rel 8	DCHSDPA Subtest-2	22.06	22.09	21.94	23.00	21.93	21.96	22.05	23.00	22.10	22.15	22.14	23.00
3GPP Rel 8	DCHSDPA Subtest-3	21.54	21.64	21.49	22.50	21.55	21.61	21.55	22.50	21.66	21.79	21.67	23.50
3GPP Rel 8	DCHSDPA Subtest-4	21.34	21.59	21.41	22.50	21.48	21.53	21.50	22.50	21.64	21.71	21.64	23.50
3GPP Rel 6	HSUPA Subtest-1	21.90	22.14	22.11	23.00	21.93	22.16	22.08	23.00	22.11	22.31	22.17	23.00
3GPP Rel 6	HSUPA Subtest-2	20.08	20.12	20.08	21.00	20.09	20.13	20.07	21.00	20.22	20.31	20.25	22.00
3GPP Rel 6	HSUPA Subtest-3	21.02	21.29	21.15	22.00	21.01	21.28	21.10	22.00	21.29	21.40	21.27	23.00
3GPP Rel 6	HSUPA Subtest-4	19.92	20.07	20.07	21.00	19.86	20.15	20.07	21.00	20.03	20.25	20.19	22.00
3GPP Rel 6	HSUPA Subtest-5	21.85	22.08	22.10	23.00	21.79	22.05	22.12	23.00	21.99	22.18	22.26	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.61	19.69	19.79	20.50	19.65	19.66	19.78	20.50	19.77	19.79	19.94	21.50



Band 2 Ant 0												
BW [MHz]	Modulation	RB Size	RB Offset	Power [mW]	Power [mW]	Power [mW]	Turnup [dB]	MPR [dB]				
Channel												
Frequency [MHz]												
20	QPSK	1	0	22.36	22.63	22.54	24	0				
20	QPSK	1	86	22.37	22.63	22.54						
20	QPSK	1	99	22.29	22.66	22.43						
20	QPSK	50	0	21.59	21.68	21.59	23	1				
20	QPSK	50	24	21.48	21.64	21.53						
20	QPSK	50	50	21.47	21.61	21.56						
20	QPSK	100	0	21.60	21.67	21.61	23	1				
20	QPSK	100	24	21.66	21.66	21.65						
20	QPSK	100	49	21.79	21.91	21.75						
20	16QAM	1	99	21.73	21.86	21.83	22	2				
20	16QAM	1	0	21.54	20.94	20.62						
20	16QAM	50	24	20.43	20.56	20.49						
20	16QAM	50	50	20.46	20.51	20.50	21	3				
20	16QAM	100	0	20.56	20.59	20.54						
20	16QAM	100	0	20.66	20.79	20.69						
20	64QAM	1	99	20.59	20.74	20.63	22	2				
20	64QAM	1	0	20.48	20.57	20.57						
20	64QAM	50	0	19.54	19.65	19.57						
20	64QAM	50	24	19.45	19.60	19.53	21	3				
20	64QAM	50	50	19.46	19.52	19.48						
20	64QAM	100	0	19.51	19.63	19.54						
20	256QAM	1	99	17.58	17.62	17.58	19	5				
20	256QAM	1	99	17.58	17.62	17.62						
20	256QAM	50	24	17.59	17.63	17.59						
20	256QAM	50	50	17.50	17.60	17.54	19	5				
20	256QAM	50	50	17.50	17.63	17.56						
20	256QAM	100	0	17.51	17.59	17.55						
Channel												
Frequency [MHz]												
15	QPSK	1	0	22.32	22.57	22.44	24	0				
15	QPSK	1	86	22.37	22.61	22.57						
15	QPSK	1	74	22.24	22.64	22.36						
15	QPSK	36	0	21.48	21.64	21.56	23	1				
15	QPSK	36	24	21.46	21.66	21.54						
15	QPSK	36	99	21.34	21.56	21.44						
15	QPSK	75	0	21.57	21.66	21.56	23	1				
15	QPSK	75	0	21.73	21.82	21.75						
15	16QAM	1	37	21.71	21.78	21.71						
15	16QAM	36	0	20.44	20.51	20.55	22	2				
15	16QAM	36	20	20.40	20.42	20.39						
15	16QAM	75	0	20.44	20.55	20.43						
15	64QAM	1	0	20.62	20.69	20.67	22	2				
15	64QAM	1	0	20.67	20.77	20.72						
15	64QAM	1	74	20.54	20.59	20.51						
15	64QAM	36	0	19.43	19.59	19.52	21	3				
15	64QAM	36	0	19.38	19.49	19.40						
15	64QAM	36	99	19.33	19.42	19.42						
15	64QAM	75	0	19.43	19.53	19.48	19	5				
15	256QAM	1	37	17.50	17.62	17.47						
15	256QAM	1	74	17.53	17.57	17.58						
15	256QAM	36	20	17.52	17.56	17.45	19	5				
15	256QAM	36	20	17.37	17.51	17.47						
15	256QAM	36	99	17.44	17.54	17.49						
15	256QAM	36	99	17.44	17.57	17.48	19	5				
15	256QAM	75	0	17.47	17.57	17.48						
Channel												
Frequency [MHz]												
10	QPSK	1	0	22.42	22.62	22.42				24	0	
10	QPSK	1	86	22.14	22.50	22.49						
10	QPSK	1	49	22.17	22.51	22.35						
10	QPSK	25	0	21.37	21.41	21.41	23	1				
10	QPSK	25	25	21.38	21.50	21.46						
10	QPSK	25	50	21.37	21.49	21.43						
10	16QAM	1	0	21.82	21.81	21.73	23	1				
10	16QAM	1	25	21.71	21.89	21.81						
10	16QAM	25	0	20.52	20.48	20.45						
10	16QAM	25	12	20.30	20.48	20.45	22	2				
10	16QAM	25	12	20.37	20.49	20.46						
10	16QAM	50	0	20.49	20.53	20.41						
10	64QAM	1	0	20.63	20.66	20.67	22	2				
10	64QAM	1	0	20.52	20.58	20.54						
10	64QAM	1	49	20.45	20.61	20.61						
10	64QAM	25	0	19.51	19.62	19.43	21	3				
10	64QAM	25	0	19.36	19.45	19.39						
10	64QAM	25	25	19.36	19.43	19.39						
10	64QAM	50	0	19.43	19.56	19.42	19	5				
10	256QAM	1	25	17.56	17.62	17.53						
10	256QAM	1	25	17.42	17.46	17.52						
10	256QAM	1	49	17.52	17.48	17.57	19	5				
10	256QAM	1	49	17.52	17.56	17.53						
10	256QAM	1	74	17.58	17.56	17.58						
10	256QAM	25	12	17.46	17.48	17.44	19	5				
10	256QAM	25	25	17.36	17.54	17.47						
10	256QAM	50	0	17.48	17.54	17.44						
Channel												
Frequency [MHz]												
5	QPSK	1	0	22.43	22.63	22.43	24	0				
5	QPSK	1	12	22.24	22.46	22.48						
5	QPSK	1	24	22.22	22.43	22.33						
5	QPSK	1	24	22.22	22.46	22.35	23	1				
5	QPSK	1	24	22.22	22.46	22.35						
5	QPSK	12	7	21.38	21.44	21.42						
5	QPSK	12	13	21.33	21.52	21.42	23	1				
5	QPSK	12	13	21.48	21.56	21.48						
5	16QAM	1	0	21.74	21.80	21.77						
5	16QAM	1	12	21.66	21.82	21.72	23	1				
5	16QAM	1	12	21.63	21.73	21.67						
5	16QAM	1	25	20.42	20.68	20.54						
5	16QAM	12	7	20.33	20.63	20.49	22	2				
5	16QAM	12	7	20.41	20.44	20.52						
5	16QAM	25	0	20.48	20.52	20.48						
5	64QAM	1	0	20.56	20.75	20.58	22	2				
5	64QAM	1	0	20.46	20.62	20.59						
5	64QAM	1	24	20.44	20.59	20.61						
5	64QAM	12	0	19.42	19.56	19.53	21	3				
5	64QAM	12	0	19.35	19.53	19.43						
5	64QAM	12	13	19.36	19.38	19.43						
5	64QAM	25	0	19.46	19.52	19.44	19	5				
5	256QAM	1	25	17.50	17.56	17.54						
5	256QAM	1	12	17.39	17.48	17.53						
5	256QAM	1	24	17.39	17.51	17.59	19	5				
5	256QAM	1	24	17.52	17.56	17.56						
5	256QAM	12	7	17.42	17.48	17.44						
5	256QAM	12	13	17.39	17.46	17.44	19	5				
5	256QAM	12	13	17.39	17.56	17.47						
5	256QAM	50	0	17.47	17.57	17.48						
Channel												
Frequency [MHz]												
3	QPSK	1	0	22.25	22.59	22.46	24	0				
3	QPSK	1	8	22.21	22.44	22.38						
3	QPSK	1	14	22.17	22.46	22.35						
3	QPSK	8	4	21.39	21.45	21.48	23	1				
3	QPSK	8	7	21.48	21.52	21.49						
3	QPSK	15	0	21.48	21.52	21.52						
3	16QAM	1	0	21.61			23	1				
3	16QAM	1	8	21.65	21.81	21.69						
3	16QAM	8	0	20.43	20.44	20.43						
3	16QAM	8	7	20.45	20.45	20.44	22	2				
3	16QAM	8	7	20.41	20.41	20.52						
3	16QAM	15	0	20.42	20.53	20.48						
3	64QAM	1	0	20.54	20.76	20.64	22	2				
3	64QAM	1	8	20.49	20.66	20.61						
3	64QAM	1	14	20.45	20.55	20.54						
3	64QAM	8	0	19.34	19.54	19.39	21	3				
3	64QAM	8	0	19.33	19.48	19.44						
3	64QAM	8	7	19.45	19.57	19.50						
3	256QAM	1	0	17.58	17.54	17.54	19	5				
3	256QAM	1	8	17.49	17.49	17.48						
3	256QAM	1	14	17.54	17.49	17.59						
3	256QAM	8	0	17.56	17.56	17.51	19	5				
3	256QAM	8	0	17.56	17.56	17.56						
3	256QAM	8	7	17.45	17.54	17.47						
3	256QAM	15	0	17.47	17.53	17.45	19	5				
3	256QAM	15	0	17.47	17.53	17.45						
Channel												
Frequency [MHz]												
1.4	QPSK	1	0	22.31	22.57	22.44				24	0	
1.4	QPSK	1	8	22.24	22.54	22.44						
1.4	QPSK	1	8	22.23	22.42	22.40						
1.4	QPSK	3	0	22.17	22.51	22.36	23	1				
1.4	QPSK	3	8	22.18	22.27	22.32						
1.4	QPSK	3	8	22.12	22.28	22.32						
1.4	QPSK	6	0	22.02	21.96	21.96	23	1				
1.4	QPSK	6	8	22.02	21.96	21.96						
1.4	QPSK	6	8	21.88	21.90	21.93						
1.4	16QAM	1	0	21.68	21.80	21.83	22	2				
1.4	16QAM	1	5	21.72	21.77	21.81						
1.4	16QAM	1	5	21.69	21.74	21.78						
1.4	16QAM	3	0	21.61	21.67	21.69	22	2				
1.4	16QAM	3	5	21.55	21.64	21.63						
1.4	16QAM	3	5	21.54	21.66	21.64						
1.4	16QAM	6	0	20.83	20.91	20.93	22	2				
1.4	16QAM	6	5	20.82	20.94	20.92						
1.4	16QAM	6	5	20.80	20.94	20.92						
1.4	64QAM	1	0	20.47	20.57	20.56	21	3				
1.4	64QAM	1	5	20.40	20.47	20.50						
1.4	64QAM	1	5	20.39	20.51	20.51						
1.4	64QAM	3	0	19.40	19.50	19.44	21	3				
1.4	64QAM	3	5	19.39	19.47	19.47						
1.4	64QAM	3	5	19.37	19.41	19.42						
1.4	256QAM	1	0	17.55	17.51	17.47	19	5				
1.4	256QAM	1	5	17.55	17.51	17.47						
1.4	256QAM	1	5	17.51	17.49	17.57						
1.4	256QAM	3	0	17.48	17.48	17.43	19	5				
1.4	256QAM	3	5	17.47	17.49	17.43						
1.4	256QAM	3	5	17.42	17.48	17.43						

Band 13 Ant 0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-on time (sec)	MPE (dB)			
Channel											
Frequency (MHz)											
10	QPSK	1	0	22.66	22.66	22.66	24	0			
10	QPSK	1	25	22.61	22.61	22.61					
10	QPSK	1	49	22.66	22.66	22.66					
10	QPSK	25	0	22.66	22.66	22.66	23	1			
10	QPSK	25	12	21.84	21.84	21.84					
10	QPSK	25	25	21.81	21.81	21.81					
10	QPSK	50	0	21.85	21.85	21.85	23	1			
10	16QAM	1	0	22.29	22.29	22.29					
10	16QAM	1	25	22.24	22.24	22.24					
10	16QAM	1	49	22.29	22.29	22.29	22	2			
10	16QAM	25	0	20.94	20.94	20.94					
10	16QAM	25	12	20.90	20.90	20.90					
10	16QAM	25	25	20.90	20.90	20.90	22	2			
10	16QAM	50	0	20.79	20.79	20.79					
10	16QAM	50	0	21.14	21.14	21.14					
10	64QAM	1	26	21.09	21.09	21.09	22	2			
10	64QAM	1	49	21.04	21.04	21.04					
10	64QAM	1	73	21.04	21.04	21.04					
10	64QAM	25	12	19.78	19.78	19.78	21	3			
10	64QAM	25	25	19.71	19.71	19.71					
10	64QAM	25	49	19.83	19.83	19.83					
10	256QAM	1	0	16.90	16.90	16.90	19	5			
10	256QAM	1	25	16.94	16.94	16.94					
10	256QAM	1	49	17.69	17.69	17.69					
10	256QAM	25	0	17.66	17.66	17.66	19	5			
10	256QAM	25	12	17.78	17.78	17.78					
10	256QAM	25	25	17.79	17.79	17.79					
10	256QAM	50	0	17.70	17.70	17.70	19	5			
10	256QAM	50	0	17.70	17.70	17.70					
10	256QAM	50	0	17.70	17.70	17.70					
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.62	22.60	22.62	24	0			
5	QPSK	1	12	22.68	22.76	22.74					
5	QPSK	1	24	22.70	22.74	22.74					
5	QPSK	12	0	21.96	21.87	21.94	23	1			
5	QPSK	12	7	21.79	21.72	21.75					
5	QPSK	12	13	21.70	21.67	21.69					
5	QPSK	25	0	21.82	21.82	21.88	23	1			
5	16QAM	1	0	22.12	22.14	22.20					
5	16QAM	1	12	22.19	22.19	22.10					
5	16QAM	1	24	22.22	22.22	22.16	23	1			
5	16QAM	12	0	20.85	20.82	20.80					
5	16QAM	12	7	20.78	20.83	20.74					
5	16QAM	25	0	20.64	20.67	20.72	22	2			
5	64QAM	1	0	21.08	20.98	20.99					
5	64QAM	1	12	21.02	20.94						
5	64QAM	1	24	20.97	20.94	20.98	21	3			
5	64QAM	12	0	19.72	19.75	19.76					
5	64QAM	12	7	19.71	19.83	19.82					
5	64QAM	12	13	19.80	19.68	19.66	19	5			
5	256QAM	1	0	17.60	17.62	17.67					
5	256QAM	1	12	17.69	17.67	17.64					
5	256QAM	1	24	17.87	17.85	17.81	19	5			
5	256QAM	12	0	17.76	17.71	17.76					
5	256QAM	12	7	17.83	17.72	17.68					
5	256QAM	12	13	17.85	17.66	17.68	19	5			
5	256QAM	25	0	17.82	17.64	17.66					

Band 14 Ant 0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPE (dB)			
Channel											
Frequency (MHz)											
10	QPSK	1	0	22.74	22.74	22.74	24	0			
10	QPSK	1	25	22.68	22.68	22.68					
10	QPSK	1	49	22.80	22.80	22.80					
10	QPSK	25	0	21.79	21.79	21.79	23	1			
10	QPSK	25	12	21.67	21.67	21.67					
10	QPSK	25	25	21.55	21.55	21.55					
10	16QAM	1	0	22.03	22.03	22.03	23	1			
10	16QAM	1	25	22.05	22.05	22.05					
10	16QAM	1	49	22.09	22.09	22.09					
10	16QAM	25	0	20.70	20.70	20.70	22	2			
10	16QAM	25	12	20.62	20.62	20.62					
10	16QAM	25	25	20.62	20.62	20.62					
10	16QAM	50	0	20.56	20.56	20.56	22	2			
10	16QAM	50	0	20.96	20.96	20.96					
10	64QAM	1	0	20.96	20.96	21.00					
10	64QAM	1	25	20.90	20.90	20.90	21	3			
10	64QAM	25	12	19.87	19.87	19.87					
10	64QAM	25	25	19.84	19.84	19.84					
10	64QAM	50	0	19.84	19.84	19.84	19	5			
10	256QAM	1	0	17.86	17.86	17.86					
10	256QAM	1	25	17.78	17.78	17.78					
10	256QAM	1	49	17.78	17.78	17.78	19	5			
10	256QAM	25	0	17.69	17.69	17.69					
10	256QAM	25	12	17.58	17.58	17.58					
10	256QAM	25	25	17.58	17.58	17.58	19	5			
10	256QAM	50	0	17.56	17.56	17.56					
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.66	22.62	22.65			24	0	
5	QPSK	1	12	22.63	22.64	22.62					
5	QPSK	1	49	22.66	22.61	22.68					
5	QPSK	12	0	21.64	21.66	21.70	23	1			
5	QPSK	12	7	21.56	21.62	21.61					
5	QPSK	12	13	21.46	21.42	21.43					
5	QPSK	25	0	21.59	21.60	21.67	23	1			
5	16QAM	1	0	21.94	21.92	21.88					
5	16QAM	1	12	21.98	22.01	21.95					
5	16QAM	1	24	21.96	22.00	21.94	22	2			
5	16QAM	12	0	20.58	20.56	20.60					
5	16QAM	12	7	20.49	20.50	20.56					
5	16QAM	25	0	20.47	20.44	20.51	22	2			
5	64QAM	1	0	20.80	20.80	20.82					
5	64QAM	1	12	20.81	20.81	20.80					
5	64QAM	1	24	20.66	20.71	20.67	21	3			
5	64QAM	12	0	19.53	19.53	19.56					
5	64QAM	12	7	19.42	19.45	19.48					
5	64QAM	12	13	19.52	19.35	19.35	19	5			
5	64QAM	25	0	19.46	19.48	19.46					
5	256QAM	1	0	17.76	17.75	17.76					
5	256QAM	1	12	17.82	17.85	17.81	19	5			
5	256QAM	1	24	17.68	17.65	17.64					
5	256QAM	12	0	17.66	17.65	17.65					
5	256QAM	12	7	17.45	17.52	17.48	19	5			
5	256QAM	12	13	17.47	17.51	17.54					
5	256QAM	25	0	17.46	17.41	17.45					

Band 17 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turnup time (sec)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.79	22.83	22.78	24	0	
10	QPSK	1	25	22.83	22.87	22.85			
10	QPSK	1	49	22.49	22.65	22.60			
10	QPSK	25	0	21.84	21.80	21.81	23	1	
10	QPSK	25	12	21.66	21.74	21.70			
10	QPSK	25	25	21.60	21.72	21.69			
10	QPSK	50	0	21.80	21.81	21.76	23	1	
10	16QAM	1	0	22.03	22.08	22.00			
10	16QAM	1	25	22.03	22.13	22.01			
10	16QAM	1	49	21.92	22.09	22.04	22	2	
10	16QAM	25	0	20.73	20.81	20.86			
10	16QAM	25	12	20.67	20.78	20.75			
10	16QAM	50	0	20.53	20.60	20.66			
10	16QAM	50	12	20.53	20.67	20.62			
10	16QAM	1	26	20.86	21.04	20.97	22	2	
10	16QAM	1	49	20.56	20.88	20.93			
10	16QAM	1	73	20.56	20.88	20.93			
10	16QAM	25	12	19.63	19.67	19.67	21	3	
10	16QAM	25	25	19.62	19.56	19.61			
10	16QAM	25	49	19.62	19.54	19.59			
10	256QAM	1	0	17.81	17.97	17.63	19	5	
10	256QAM	1	25	17.82	17.91	17.71			
10	256QAM	1	49	17.80	17.78	17.68			
10	256QAM	25	0	17.66	17.71	17.61	19	5	
10	256QAM	25	12	17.59	17.59	17.62			
10	256QAM	25	25	17.59	17.59	17.62			
10	256QAM	50	0	17.66	17.73	17.67	19	5	
10	256QAM	50	12	17.66	17.73	17.67			
10	256QAM	50	25	17.66	17.73	17.67			
Frequency (MHz)									
5	QPSK	1	0	22.76	22.86	22.73	24	0	
5	QPSK	1	12	22.54	22.67	22.63			
5	QPSK	1	24	22.32	22.55	22.53			
5	QPSK	12	0	21.72	21.80	21.70	23	1	
5	QPSK	12	7	21.61	21.69	21.68			
5	QPSK	12	14	21.67	21.64	21.64			
5	QPSK	25	0	21.67	21.67	21.56	23	1	
5	16QAM	1	0	22.04	22.04	21.97			
5	16QAM	1	24	21.95	22.01	21.96			
5	16QAM	12	0	21.65	21.70	21.68	22	2	
5	16QAM	12	0	20.67	20.68	20.54			
5	16QAM	12	7	20.67	20.62	20.54			
5	16QAM	12	14	20.61	20.56	20.54	22	2	
5	16QAM	25	0	20.59	20.61	20.53			
5	16QAM	25	7	20.57	20.57	20.53			
5	16QAM	1	12	20.72	20.96	20.97	22	2	
5	16QAM	1	24	20.74	20.75	20.81			
5	16QAM	1	36	20.75	20.75	20.80			
5	16QAM	12	7	19.53	19.61	19.63	19	5	
5	16QAM	12	13	19.55	19.48	19.48			
5	16QAM	12	19	19.53	19.51	19.39			
5	256QAM	1	0	17.71	17.92	17.62	19	5	
5	256QAM	1	12	17.69	17.82	17.68			
5	256QAM	1	24	17.68	17.68	17.68			
5	256QAM	12	0	17.58	17.62	17.58	19	5	
5	256QAM	12	7	17.46	17.48	17.37			
5	256QAM	12	14	17.46	17.48	17.37			
5	256QAM	25	0	17.51	17.65	17.51	19	5	
5	256QAM	25	7	17.51	17.65	17.51			
5	256QAM	25	14	17.51	17.65	17.51			



Band 26 for FCC Ant 0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turnup Init. (dB)	MPR (dB)				
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.55	22.64	22.61			24	0		
15	QPSK	1	37	22.45	22.54	22.48						
15	QPSK	1	74	22.40	22.43	22.41						
15	QPSK	36	0	21.63	21.73	21.54						
15	QPSK	36	26	21.46	21.56	21.41			23	1		
15	QPSK	36	39	21.34	21.43	21.47						
15	QPSK	75	0	21.56	21.62	21.60						
15	16QAM	1	0	21.82	21.84	21.84						
15	16QAM	1	37	21.74	21.86	21.81			23	1		
15	16QAM	1	74	21.79	21.84	21.69						
15	16QAM	36	0	20.41	20.52	20.32						
15	16QAM	36	20	20.44	20.53	20.44						
15	16QAM	36	39	20.39	20.49	20.36			22	2		
15	16QAM	75	0	20.37	20.51	20.49						
15	64QAM	1	0	20.77	20.84	20.77						
15	64QAM	1	37	20.70	20.76	20.62			22	2		
15	64QAM	1	74	20.68	20.71	20.65						
15	64QAM	36	0	19.35	19.47	19.34						
15	64QAM	36	20	19.31	19.36	19.40			21	3		
15	64QAM	36	39	19.38	19.48	19.42						
15	256QAM	1	0	17.71	17.74	17.70						
15	256QAM	1	37	17.57	17.67	17.63			19	5		
15	256QAM	1	74	17.63	17.68	17.61						
15	256QAM	36	0	17.43	17.57	17.53						
15	256QAM	36	20	17.33	17.41	17.34						
15	256QAM	36	39	17.38	17.48	17.39			19	5		
15	256QAM	75	0	17.36	17.54	17.42						
15	256QAM	75	0	17.38	17.45	17.42						
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.55	22.42	22.49			24	0		
15	QPSK	1	26	22.48	22.49	22.33						
15	QPSK	1	49	22.32	22.33	22.28						
15	QPSK	26	0	21.62	21.49	21.47						
15	QPSK	26	12	21.45	21.41	21.33			23	1		
15	QPSK	26	25	21.32	21.22	21.33						
15	QPSK	50	0	21.65	21.69	21.66						
15	16QAM	1	0	21.82	21.87	21.79						
15	16QAM	1	26	21.83	21.84	21.75			23	1		
15	16QAM	1	49	21.79	21.86	21.82						
15	16QAM	26	0	20.40	20.34	20.46						
15	16QAM	26	12	20.46	20.34	20.37						
15	16QAM	26	25	20.39	20.30	20.26			22	2		
15	16QAM	50	0	20.35	20.29	20.34						
15	64QAM	1	0	20.68	20.63	20.68						
15	64QAM	1	26	20.63	20.54	20.54						
15	64QAM	1	49	20.58	20.57	20.53			22	2		
15	64QAM	26	0	19.42	19.30	19.37						
15	64QAM	26	12	19.34	19.34	19.29						
15	64QAM	26	25	19.20	19.21	19.31						
15	64QAM	50	0	19.35	19.31	19.28			21	3		
15	64QAM	25	12	19.34	19.34	19.28						
15	64QAM	25	25	19.20	19.23	19.35						
15	64QAM	25	26	19.20	19.23	19.35						
15	256QAM	1	0	17.63	17.60	17.63			19	5		
15	256QAM	1	26	17.59	17.44	17.59						
15	256QAM	1	49	17.68	17.56	17.63						
15	256QAM	26	0	17.45	17.54	17.53						
15	256QAM	26	12	17.29	17.28	17.28			19	5		
15	256QAM	26	25	17.34	17.21	17.34						
15	256QAM	50	0	17.36	17.24	17.32						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.65	22.40	22.47			24	0		
5	QPSK	1	12	22.43	22.29	22.40						
5	QPSK	1	24	22.34	22.25	22.21						
5	QPSK	12	0	21.68	21.60	21.47						
5	QPSK	12	7	21.51	21.42	21.29			23	1		
5	QPSK	12	13	21.33	21.20	21.37						
5	QPSK	36	0	21.65	21.67	21.66						
5	16QAM	1	0	21.85	21.68	21.71						
5	16QAM	1	12	21.80	21.68	21.72			22	2		
5	16QAM	1	24	21.80	21.75	21.75						
5	16QAM	12	0	20.47	20.32	20.47						
5	16QAM	12	7	20.47	20.39	20.34						
5	16QAM	12	13	20.45	20.28	20.27			22	2		
5	16QAM	25	0	20.40	20.29	20.39						
5	64QAM	1	0	20.69	20.63	20.71						
5	64QAM	1	12	20.61	20.65	20.65						
5	64QAM	1	24	20.64	20.62	20.63			22	2		
5	64QAM	12	0	19.42	19.29	19.27						
5	64QAM	12	7	19.37	19.22	19.32						
5	64QAM	12	13	19.23	19.23	19.31						
5	64QAM	25	0	19.42	19.25	19.31			21	3		
5	256QAM	1	0	17.67	17.58	17.67						
5	256QAM	1	12	17.58	17.47	17.52						
5	256QAM	1	24	17.68	17.54	17.53						
5	256QAM	12	0	17.48	17.34	17.34			19	5		
5	256QAM	12	7	17.30	17.28	17.32						
5	256QAM	12	14	17.31	17.27	17.30						
5	256QAM	25	0	17.37	17.27	17.28						
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.63	22.40	22.47			24	0		
3	QPSK	1	8	22.47	22.34	22.33						
3	QPSK	1	14	22.34	22.30	22.22						
3	QPSK	8	0	21.63	21.62	21.61						
3	QPSK	8	4	21.43	21.36	21.29			23	1		
3	QPSK	8	7	21.29	21.18	21.32						
3	QPSK	15	0	21.65	21.45	21.46						
3	16QAM	1	0	21.80	21.72	21.75						
3	16QAM	1	8	21.74	21.63	21.70			23	1		
3	16QAM	1	14	21.65	21.75	21.67						
3	16QAM	8	0	20.46	20.35	20.39						
3	16QAM	8	4	20.44	20.39	20.35						
3	16QAM	8	7	20.35	20.29	20.25			22	2		
3	16QAM	15	0	20.36	20.32	20.33						
3	64QAM	1	0	20.75	20.70	20.73						
3	64QAM	1	8	20.67	20.62	20.63						
3	64QAM	1	14	20.58	20.58	20.54			22	2		
3	64QAM	8	0	19.45	19.31	19.29						
3	64QAM	8	4	19.36	19.23	19.20						
3	64QAM	8	7	19.25	19.18	19.31						
3	64QAM	15	0	19.40	19.25	19.36			19	5		
3	256QAM	1	0	17.61	17.56	17.56						
3	256QAM	1	8	17.60	17.42	17.63						
3	256QAM	1	14	17.58	17.48	17.53						
3	256QAM	12	0	17.46	17.33	17.26			19	5		
3	256QAM	12	7	17.25	17.29	17.23						
3	256QAM	8	4	17.25	17.21	17.23						
3	256QAM	8	7	17.39	17.31	17.33						
3	256QAM	15	0	17.40	17.34	17.38			19	5		
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.52	22.45	22.45			24	0		
1.4	QPSK	1	3	22.47	22.31	22.35						
1.4	QPSK	1	5	22.29	22.31	22.16						
1.4	QPSK	3	0	22.47	22.37	22.41						
1.4	QPSK	3	1	22.35	22.19	22.27			23	1		
1.4	QPSK	3	3	22.20	22.19	22.05						
1.4	QPSK	15	0	21.57	21.43	21.39						
1.4	16QAM	1	0	21.87	21.72	21.72						
1.4	16QAM	1	3	21.79	21.61	21.66			23	1		
1.4	16QAM	1	5	21.79	21.65	21.61						
1.4	16QAM	3	0	21.77	21.60	21.68						
1.4	16QAM	3	1	21.74	21.53	21.61			22	2		
1.4	16QAM	3	2	21.67	21.61	21.49						
1.4	16QAM	6	0	20.46	20.23	20.40						
1.4	16QAM	6	2	20.40	20.46	20.73			22	2		
1.4	16QAM	6	4	20.36	20.51	20.63						
1.4	16QAM	6	6	20.37	20.50	20.62						
1.4	16QAM	6	8	20.38	20.51	20.63			22	2		
1.4	16QAM	6	10	20.38	20.51	20.65						
1.4	16QAM	6	12	20.38	20.51	20.65						
1.4	16QAM	6	14	20.38	20.51	20.65			21	3		
1.4	16QAM	6	16	20.38	20.51	20.65						
1.4	16QAM	6	18	20.38	20.51	20.65						
1.4	16QAM	6	20	20.38	20.51	20.65			21	3		
1.4	16QAM	6	22	20.38	20.51	20.65						
1.4	16QAM	6	24	20.38	20.51	20.65						
1.4	16QAM	6	26	20.38	20.51	20.65			20	4		
1.4	16QAM	6	28	20.38	20.51	20.65						
1.4	16QAM	6	30	20.38	20.51	20.65						
1.4	16QAM	6	32	20.38	20.51	20.65			20	4		
1.4	16QAM	6	34	20.38	20.51	20.65						
1.4	16QAM	6	36	20.38	20.51	20.65						
1.4	16QAM	6	38	20.38	20.51	20.65			20	4		
1.4	16QAM	6	40	20.38	20.51	20.65						
1.4	16QAM	6	42	20.38	20.51	20.65						
1.4	16QAM	6	44	20.38	20.51	20.65			20	4		
1.4	16QAM	6	46	20.38	20.51	20.65						
1.4	16QAM	6	48	20.38	20.51	20.65						
1.4	16QAM	6	50	20.38	20.51	20.65			20	4		
1.4	16QAM	6	52	20.38	20.51	20.65						
1.4	16QAM	6	54	20.38	20.51	20.65						
1.4	16QAM	6	56	20.38	20.51	20.65			20	4		
1.4	16QAM	6	58	20.38	20.51	20.65						
1.4	16QAM											



Band 38 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MFR (dB)
Channel									
Frequency (MHz)				37955	38050	38150	38250		
20	QPSK	1	0	22.48	22.52	22.47	22.53	24	0
20	QPSK	1	49	22.40	22.31	22.30	22.39		
20	QPSK	1	89	22.31	22.28	22.29	22.37		
20	QPSK	50	0	21.41	21.54	21.52	21.67	23	1
20	QPSK	50	24	21.26	21.38	21.33	21.45		
20	QPSK	50	49	21.34	21.29	21.30	21.35	23	1
20	QPSK	100	0	21.46	21.54	21.54	21.46		
20	QPSK	1	0	21.59	21.78	21.69	21.88	22	2
20	QPSK	50	24	20.34	20.45	20.39	20.50		
20	QPSK	50	49	20.34	20.45	20.39	20.50		
20	QPSK	50	50	20.79	20.57	20.24	20.84	21	3
20	QPSK	100	0	20.26	20.26	20.26	20.26		
20	QPSK	1	0	20.58	20.58	20.58	20.58	22	2
20	QPSK	1	49	20.57	20.65	20.66	20.56		
20	QPSK	1	99	20.51	20.61	20.55	20.55		
20	QPSK	50	0	19.34	19.42	19.33	19.33	21	3
20	QPSK	50	24	19.27	19.28	19.26	19.26		
20	QPSK	50	50	19.26	19.29	19.26	19.26		
20	QPSK	100	0	19.21	19.31	19.17	19.17	19	5
20	QPSK	1	0	17.52	17.60	17.53	17.53		
20	QPSK	1	49	17.51	17.59	17.46	17.56		
20	QPSK	50	0	17.51	17.56	17.56	17.56	19	5
20	QPSK	50	24	17.27	17.28	17.27	17.27		
20	QPSK	50	49	17.25	17.26	17.17	17.17		
20	QPSK	50	50	17.30	17.28	17.24	17.24		
20	QPSK	100	0	17.27	17.28	17.28	17.28		
Channel									
Frequency (MHz)				37955	38050	38150	38250	Turn-up limit (dBm)	MFR (dB)
15	QPSK	1	0	22.13	22.42	22.41	22.13	24	0
15	QPSK	1	37	22.28	22.18	22.18	22.18		
15	QPSK	1	74	22.28	22.33	22.12	22.12		
15	QPSK	36	0	21.34	21.42	21.37	21.37	23	1
15	QPSK	36	20	21.14	21.24	21.17	21.17		
15	QPSK	36	36	21.38	21.39	21.39	21.39	23	1
15	QPSK	75	0	21.38	21.39	21.37	21.37		
15	QPSK	1	0	21.55	21.66	21.61	21.61	23	1
15	QPSK	1	37	21.55	21.67	21.66	21.66		
15	QPSK	1	74	21.54	21.72	21.61	21.61		
15	QPSK	36	0	20.24	20.36	20.19	20.19	22	2
15	QPSK	36	20	20.22	20.26	20.15	20.15		
15	QPSK	36	36	20.09	20.29	20.16	20.16		
15	QPSK	75	0	20.26	20.26	20.22	20.22		
15	QPSK	75	0	19.23	19.32	19.25	19.25	21	3
15	QPSK	1	37	20.52	20.69	20.51	20.51	22	2
15	QPSK	1	74	20.44	20.47	20.39	20.39		
15	QPSK	36	0	19.23	19.32	19.25	19.25		
15	QPSK	36	20	19.15	19.17	19.20	19.20		
15	QPSK	36	36	19.23	19.32	19.25	19.25	19	5
15	QPSK	75	0	19.05	19.21	19.11	19.11		
15	QPSK	75	0	17.50	17.52	17.43	17.43		
15	QPSK	1	37	17.42	17.43	17.43	17.43		
15	QPSK	1	74	17.42	17.43	17.43	17.43		
15	QPSK	36	0	17.15	17.33	17.18	17.18	21	5
15	QPSK	36	20	17.14	17.17	17.05	17.05		
15	QPSK	36	36	17.25	17.13	17.20	17.20		
15	QPSK	75	0	17.26	17.21	17.17	17.17		
Channel									
Frequency (MHz)				25173	25215	25215	25173	Turn-up limit (dBm)	MFR (dB)
10	QPSK	1	0	22.33	22.47	22.37	22.37	24	0
10	QPSK	1	25	22.31	22.32	22.32	22.32		
10	QPSK	1	49	22.13	22.31	22.20	22.20		
10	QPSK	1	74	22.13	22.31	22.20	22.20		
10	QPSK	25	0	21.19	21.24	21.19	21.19	23	1
10	QPSK	25	25	21.19	21.14	21.26	21.26		
10	QPSK	50	0	21.87	21.78	21.83	21.83	23	1
10	QPSK	1	0	20.22	20.42	20.44	20.44		
10	QPSK	1	49	21.47	21.67	21.69	21.69		
10	QPSK	25	0	20.28	20.28	20.21	20.21	22	2
10	QPSK	25	25	20.27	20.31	20.12	20.12		
10	QPSK	50	0	20.28	20.25	20.22	20.22		
10	QPSK	50	25	20.27	20.31	20.12	20.12		
10	QPSK	100	0	20.49	20.58	20.42	20.42	22	2
10	QPSK	1	49	20.45	20.54	20.50	20.50		
10	QPSK	25	0	19.21	19.33	19.21	19.21	21	3
10	QPSK	25	12	19.22	19.20	19.14	19.14		
10	QPSK	25	25	19.20	19.25	19.11	19.11		
10	QPSK	50	0	19.15	19.25	19.05	19.05		
10	QPSK	50	12	17.51	17.46	17.42	17.42	19	5
10	QPSK	1	25	17.41	17.46	17.40	17.40		
10	QPSK	1	49	17.38	17.43	17.35	17.35		
10	QPSK	25	0	17.22	17.28	17.20	17.20	19	5
10	QPSK	25	12	17.14	17.16	17.07	17.07		
10	QPSK	25	25	17.22	17.15	17.15	17.15		
10	QPSK	50	0	17.24	17.22	17.22	17.22		
Channel									
Frequency (MHz)				25173	25215	25215	25173	Turn-up limit (dBm)	MFR (dB)
5	QPSK	1	0	22.33	22.47	22.37	22.37	24	0
5	QPSK	1	12	22.30	22.25	22.15	22.15		
5	QPSK	1	24	22.09	22.24	22.13	22.13		
5	QPSK	12	0	21.28	21.46	21.47	21.47	23	1
5	QPSK	12	7	21.16	21.27	21.15	21.15		
5	QPSK	12	13	21.20	21.22	21.15	21.15		
5	QPSK	25	0	21.62	21.69	21.63	21.63	23	1
5	QPSK	1	12	21.48	21.59	21.52	21.52		
5	QPSK	1	24	21.46	21.64	21.61	21.61		
5	QPSK	12	0	20.24	20.31	20.26	20.26	22	2
5	QPSK	12	7	20.25	20.35	20.14	20.14		
5	QPSK	12	13	20.35	20.31	20.14	20.14		
5	QPSK	25	0	20.25	20.26	20.18	20.18		
5	QPSK	1	0	20.32	20.62	20.49	20.49	22	2
5	QPSK	1	12	20.47	20.68	20.43	20.43		
5	QPSK	1	24	20.37	20.47	20.47	20.47		
5	QPSK	12	0	19.26	19.37	19.21	19.21	21	3
5	QPSK	12	7	19.18	19.14	19.12	19.12		
5	QPSK	12	13	19.23	19.22	19.19	19.19		
5	QPSK	25	0	17.44	17.37	17.04	17.04	19	5
5	QPSK	1	0	17.45	17.45	17.45	17.45		
5	QPSK	1	12	17.39	17.40	17.39	17.39		
5	QPSK	1	24	17.37	17.42	17.43	17.43		
5	QPSK	12	0	17.15	17.33	17.17	17.17	19	5
5	QPSK	12	7	17.09	17.18	17.06	17.06		
5	QPSK	12	13	17.17	17.13	17.09	17.09		
5	QPSK	25	0	17.30	17.20	17.24	17.24		

Band 41 Ant 0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MFR (dB)
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490			
15	QPSK	1	0	23.08	23.02	23.05	23.05	23.02	23.02		
15	QPSK	1	49	22.97	22.93	22.93	22.92	22.92	22.92	24	0
15	QPSK	1	99	22.79	22.79	22.81	22.80	22.80	22.80		
15	QPSK	50	0	22.05	22.03	22.05	22.20	22.11	22.11		
15	QPSK	50	24	21.88	21.88	21.90	21.98	21.93	21.93	23	1
15	QPSK	50	49	21.98	21.95	21.98	21.98	21.98	21.98		
15	QPSK	100	0	22.01	21.94	22.03	22.14	22.01	22.01		
15	16QAM	1	0	22.36	22.33	22.30	22.45	22.37	22.37		
15	16QAM	50	24	20.83	20.84	20.91	21.05	20.93	20.93	22	2
15	16QAM	50	49	20.84	20.88	20.79	20.90	20.88	20.88		
15	16QAM	100	0	20.97	20.95	20.92	20.97	20.97	20.97		
15	16QAM	1	0	21.13	21.28	21.22	21.25	21.20	21.20		
15	16QAM	1	49	21.14	21.24	21.09	21.28	21.14	21.14	22	2
15	16QAM	1	99	21.10	21.03	21.02	21.11	21.10	21.10		
15	16QAM	50	0	19.92	19.94	19.89	19.98	19.85	19.85		
15	16QAM	50	24	19.89	19.80	19.87	19.95	19.83	19.83	21	3
15	16QAM	50	50	19.86	19.76	19.91	19.85	19.80	19.80		
15	16QAM	100	0	19.88	19.74	19.88	19.87	19.81	19.81		
15	256QAM	1	0	18.11	18.12	18.10	18.13	18.20	18.20		
15	256QAM	1	49	18.11	18.06	18.08	18.11	18.08	18.08	19	5
15	256QAM	1	99	18.05	18.15	18.16	18.12	18.14	18.14		
15	256QAM	36	0	17.97	17.96	17.93	17.92	17.91	17.91		
15	256QAM	50	24	17.82	17.70	17.79	17.83	17.71	17.71	19	5
15	256QAM	50	50	17.87	17.77	17.80	17.82	17.77	17.77		
15	256QAM	100	0	17.84	17.84	17.86	17.86	17.84	17.84		
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490			
15	QPSK	1	0	23.04	22.93	23.05	23.07	23.02	23.02		
15	QPSK	1	37	22.84	22.79	22.80	22.90	22.69	22.69	24	0
15	QPSK	1	74	22.67	22.67	22.71	22.80	22.77	22.77		
15	QPSK	36	0	21.98	21.97	21.98	21.93	21.92	21.92		
15	QPSK	36	20	21.77	21.84	21.83	21.91	21.78	21.78	23	1
15	QPSK	36	40	21.93	21.78	21.82	21.82	21.82	21.82		
15	QPSK	75	0	21.90	21.87	21.87	21.97	22.03	21.92		
15	16QAM	1	0	22.12	22.23	22.16	22.31	22.24	22.24		
15	16QAM	1	37	22.09	22.22	22.22	22.28	22.15	22.15	23	1
15	16QAM	1	74	22.19	22.06	22.11	22.40	22.19	22.19		
15	16QAM	36	0	20.94	20.90	20.87	20.92	20.88	20.88		
15	16QAM	36	20	20.71	20.75	20.68	20.77	20.74	20.74	22	2
15	16QAM	36	40	20.73	20.82	20.69	20.81	20.75	20.75		
15	16QAM	75	0	21.02	20.96	20.95	21.05	20.92	20.92		
15	16QAM	1	0	21.10	21.17	21.13	21.18	21.18	21.24		
15	16QAM	1	37	21.10	21.16	21.00	21.20	21.21	21.21		
15	16QAM	1	74	21.02	21.21	21.20	21.20	21.08	21.08	22	2
15	16QAM	36	0	19.79	19.80	19.83	19.93	19.83	19.83		
15	16QAM	36	20	19.77	19.75	19.83	19.78	19.73	19.73	21	3
15	16QAM	36	40	19.76	19.82	19.69	19.79	19.68	19.68		
15	16QAM	75	0	19.78	19.72	19.74	19.84	19.74	19.74		
15	256QAM	1	0	17.85	17.86	17.85	17.85	17.85	17.85		
15	256QAM	1	37	18.05	17.93	18.01	18.03	17.94	17.94	19	5
15	256QAM	1	74	17.88	18.08	18.04	18.08	18.01	18.01		
15	256QAM	36	0	17.74	17.75	17.76	17.76	17.76	17.76		
15	256QAM	36	20	17.80	17.82	17.74	17.70	17.61	17.61	19	5
15	256QAM	36	50	17.79	17.73	17.77	17.85	17.69	17.69		
15	256QAM	75	0	17.82	17.74	17.78	17.86	17.74	17.74		
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490			
15	QPSK	1	0	23.01	22.97	23.03	23.03	23.01	23.01		
15	QPSK	1	25	22.88	22.83	22.82	22.85	22.78	22.78	24	0
15	QPSK	1	50	22.71	22.71	22.73	22.73	22.71	22.71		
15	QPSK	25	0	22.02	21.89	21.93	22.05	21.97	21.97		
15	QPSK	25	12	21.87	21.84	21.78	21.88	21.84	21.84	23	1
15	QPSK	25	37	21.81	21.79	21.79	21.82	21.82	21.82		
15	QPSK	50	0	21.90	21.89	21.90	22.03	21.98	21.98		
15	16QAM	1	0	22.18	22.24	22.23	22.42	22.24	22.24		
15	16QAM	1	25	22.09	22.19	22.22	22.28	22.20	22.20	23	1
15	16QAM	1	49	22.15	22.12	22.08	22.26	22.20	22.20		
15	16QAM	1	75	22.06	22.06	22.09	22.05	22.05	22.05		
15	16QAM	25	0	20.74	20.71	20.69	20.78	20.73	20.73	22	2
15	16QAM	25	12	20.63	20.76	20.74	20.82	20.84	20.84		
15	16QAM	25	37	20.68	20.68	20.69	20.70	20.69	20.69		
15	16QAM	50	0	21.00	21.17	21.12	21.15	21.18	21.18		
15	16QAM	1	25	21.09	21.19	21.08	21.25	21.20	21.20	22	2
15	16QAM	1	49	21.06	21.17	21.06	21.22	21.18	21.18		
15	16QAM	25	0	19.87	19.89	19.87	19.87	19.79	19.79		
15	16QAM	25	12	19.82	19.69	19.83	19.81	19.70	19.70	21	3
15	16QAM	25	37	19.74	19.69	19.87	19.80	19.78	19.78		
15	16QAM	50	0	19.81	19.71	19.78	19.86	19.80	19.80		
15	16QAM	1	25	19.76	19.66	19.82	18.96	19.12	19.12		
15	256QAM	1	25	18.06	17.94	18.01	17.95	17.96	17.96		
15	256QAM	1	49	18.01	18.04	18.15	18.03	18.04	18.04		
15	256QAM	1	75	17.86	17.84	17.84	17.84	17.84	17.84		
15	256QAM	25	0	17.72	17.86	17.65	17.72	17.62	17.62	19	5
15	256QAM	25	12	17.78	17.94	17.74	17.86	17.67	17.67		
15	256QAM	50	0	17.85	17.85	17.85	17.85	17.85	17.85		
Channel											
Frequency (MHz)				39750	41490	40620	41055	41490			
15	QPSK	1	0	23.02	22.98	23.05	23.05	23.02	23.02		
15	QPSK	1	12	22.87	22.84	22.91	22.88	22.78	22.78	24	0
15	QPSK	1	25	22.64	22.64	22.68	22.71	22.68	22.68		
15	QPSK	12	0	21.92	21.93	21.90	22.10	22.06	22.06		
15	QPSK	12	7	21.78	21.80	21.82	21.82	21.79	21.79	23	1
15	QPSK	25	0	21.81	21.72	21.78	21.78	21.81	21.81		
15	QPSK	25	0	21.95	21.86	21.97	22.11	21.98	21.98		
15	16QAM	1	0	22.22	22.21	22.25	22.34	22.26	22.26		
15	16QAM	1	12	22.13	22.11	22.15	22.25	22.20	22.20	23	1
15	16QAM	1	24	22.15	22.09	22.11	22.19	22.26	22.26		
15	16QAM	1	37	22.06	22.06	22.09	22.05	22.04	22.04		
15	16QAM	12	7	20.71	20.77	20.87	20.95	20.78	20.78	22	2
15	16QAM	12	13	20.67	20.79	20.66	20.83	20.80	20.83		
15	16QAM	25	0	20.82	20.83	20.74	20.85	20.80	20.80		
15	16QAM	1	0	21.00	21.17	21.20	21.13	21.18	21.18		
15	16QAM	1	12	21.01	21.17	21.04	21.18	21.02	21.02	22	2
15	16QAM	1	25	20.97	21.17	21.03	21.18	21.01	21.01		
15	16QAM	12	0	19.81	19.92	19.86	19.96	19.75	19.75		
15	16QAM	12	7	19.82	19.87	19.78	19.83	19.76	19.76	21	3
15	16QAM	12	13	19.84	19.87	19.87	19.87	19.81	19.81		
15	16QAM	25	0	19.79	19.63	19.82	19.90	19.76	19.76		
15	256QAM	1	0	18.04	18.03	18.03	18.03	18.03	18.03		
15	256QAM	1	12	18.01	18.03	18.08	18.08	17.98	17.98		
15	256QAM	1	24	17.94	18.07	18.03	18.00	18.10	18.10		
15	256QAM	12	0	17.78	17.78	17.78	17.77	17.77	17.77	19	5
15	256QAM	12	7	17.72	17.81	17.73	17.70	17.68	17.68		
15	256QAM	12	13	17.76	17.72	17.72	17.79	17.67	17.67		



Band 2 Ant 1									
BW [MHz]	Modulation	RS Size	RS Offset	Power Min [Ch./Freq.]	Power Max [Ch./Freq.]	Power Hsp [Ch./Freq.]	Time-up Int. (sec)	MPR (dB)	
Channel									
Frequency [MHz]									
20	QPSK	1	0	22.29	22.27	22.26			
20	QPSK	1	8	22.27	22.28	22.28	24	0	
20	QPSK	1	99	22.08	22.06	22.09			
20	QPSK	50	0	21.27	21.42	21.27			
20	QPSK	50	24	21.09	21.26	21.12	23	1	
20	QPSK	50	50	21.05	21.25	21.16			
20	QPSK	100	0	21.24	21.40	21.19			
20	QPSK	100	24	21.04	21.19	21.09	23	1	
20	16QAM	1	49	21.55	21.63	21.50			
20	16QAM	1	99	21.48	21.61	21.49			
20	16QAM	50	0	20.20	20.20	20.14			
20	16QAM	50	24	20.21	20.34	20.06	22	2	
20	16QAM	50	50	20.08	20.26	20.16			
20	16QAM	100	0	20.09	20.21	20.32			
20	64QAM	1	0	20.38	20.52	20.51			
20	64QAM	1	49	20.37	20.45	20.42	22	2	
20	64QAM	50	0	20.25	20.29	20.40			
20	64QAM	50	0	19.25	19.24	19.16			
20	64QAM	24	24	19.15	19.16	19.21	21	3	
20	64QAM	50	0	19.19	19.16	19.12			
20	256QAM	1	49	17.43	17.42	17.31	19	5	
20	256QAM	1	99	17.37	17.42	17.43			
20	256QAM	50	0	17.40	17.39	17.32			
20	256QAM	50	24	17.21	17.17	17.23	19	5	
20	256QAM	50	50	17.11	17.14	17.25			
20	256QAM	100	0	17.20	17.19	17.20			
Channel									
Frequency [MHz]									
15	QPSK	1	0	18.07	18.05	18.05			
15	QPSK	1	8	22.15	22.23	22.18	24	0	
15	QPSK	1	24	22.17	22.07	22.11			
15	QPSK	1	74	22.05	22.16	22.05			
15	QPSK	50	0	21.10	21.41	21.20			
15	QPSK	50	24	21.08	21.20	21.10	23	1	
15	QPSK	36	36	21.03	21.15	21.05			
15	QPSK	75	0	21.21	21.22	21.20			
15	16QAM	1	99	21.42	21.55	21.41	23	1	
15	16QAM	1	37	21.34	21.59	21.37			
15	16QAM	50	0	20.13	20.23	20.04			
15	16QAM	36	36	20.02	20.21	20.01	22	2	
15	16QAM	75	0	20.11	20.13	20.15			
15	64QAM	1	0	20.31	20.43	20.47	22	2	
15	64QAM	1	24	20.21	20.39	20.36			
15	64QAM	1	74	20.23	20.34	20.32			
15	64QAM	36	0	19.13	19.12	19.05	21	3	
15	64QAM	36	36	19.08	19.06	19.08			
15	64QAM	36	39	19.10	19.05	19.01			
15	64QAM	75	0	19.08	19.06	19.08			
15	256QAM	1	37	17.32	17.36	17.13	19	5	
15	256QAM	1	74	17.36	17.29	17.31			
15	256QAM	36	36	17.35	17.34	17.08			
15	256QAM	36	39	17.03	17.07	17.15	19	5	
15	256QAM	36	39	17.04	17.05	17.07			
15	256QAM	75	0	17.06	17.14	17.08			
Channel									
Frequency [MHz]									
10	QPSK	1	0	18.05	18.05	18.05			
10	QPSK	1	85	22.15	22.09	22.02	24	0	
10	QPSK	1	49	22.03	22.07	22.07			
10	QPSK	25	12	21.05	21.26	21.10	23	1	
10	QPSK	25	25	21.03	21.05	21.10			
10	16QAM	1	0	21.50	21.52	21.42			
10	16QAM	1	25	21.42	21.48	21.43	23	1	
10	16QAM	25	12	20.44	20.45	20.45	22	2	
10	16QAM	25	0	20.11	20.21	20.21			
10	16QAM	50	0	20.02	20.07	20.04			
10	16QAM	50	0	20.36	20.38	20.48	22	2	
10	64QAM	1	0	20.25	20.37	20.40			
10	64QAM	1	49	20.14	20.30	20.35			
10	64QAM	25	0	19.12	19.12	19.08	21	3	
10	64QAM	25	12	19.08	19.15	19.15			
10	64QAM	25	25	19.04	19.04	19.11			
10	64QAM	50	0	19.11	19.08	19.09			
10	256QAM	1	25	17.27	17.28	17.01	19	5	
10	256QAM	1	25	17.24	17.27	17.23			
10	256QAM	25	12	17.07	17.07	17.01			
10	256QAM	25	25	17.10	17.06	17.09	19	5	
10	256QAM	50	0	17.02	17.15	17.03			
Channel									
Frequency [MHz]									
5	QPSK	1	0	18.03	18.05	18.05			
5	QPSK	1	12	22.05	22.12	22.04	24	0	
5	QPSK	1	24	22.07	22.12	22.00			
5	QPSK	12	6	21.14	21.41	21.15	23	1	
5	QPSK	12	7	21.16	21.17	21.01			
5	QPSK	12	13	21.06	21.14	21.11			
5	QPSK	25	12	21.14	21.25	21.10	23	1	
5	16QAM	1	0	21.48	21.63	21.41			
5	16QAM	1	12	21.45	21.58	21.37	23	1	
5	16QAM	1	14	21.41	21.55	21.47			
5	16QAM	12	6	20.07	20.24	20.05			
5	16QAM	12	7	20.03	20.23	20.25	22	2	
5	16QAM	12	13	20.02	20.10	20.08			
5	16QAM	25	0	20.02	20.15	20.14			
5	64QAM	1	0	20.27	20.46	20.38	22	2	
5	64QAM	1	8	20.24	20.39	20.36			
5	64QAM	1	24	20.20	20.35	20.34			
5	64QAM	12	0	19.12	19.21	19.08	21	3	
5	64QAM	12	6	19.08	19.15	19.08			
5	64QAM	12	13	19.03	19.07	19.00			
5	64QAM	25	0	19.11	19.01	19.15			
5	256QAM	1	17	17.38	17.28	17.40	19	5	
5	256QAM	1	12	17.25	17.27	17.19			
5	256QAM	1	24	17.30	17.21	17.26			
5	256QAM	12	6	17.11	17.14	17.00	19	5	
5	256QAM	12	7	17.08	17.07	17.08			
5	256QAM	12	13	17.08	17.03	17.06			
5	256QAM	50	0	17.06	17.15	17.02			
Channel									
Frequency [MHz]									
3	QPSK	1	0	22.23	22.31	22.24	24	0	
3	QPSK	1	8	22.16	22.06	22.06			
3	QPSK	1	14	22.07	22.12	22.01			
3	QPSK	3	3	21.12	21.32	21.27	23	1	
3	QPSK	3	4	21.11	21.25	21.09			
3	QPSK	15	7	21.03	21.12	21.17	23	1	
3	16QAM	1	0	21.44	21.49	21.43			
3	16QAM	1	8	21.37	21.40	21.32	23	1	
3	16QAM	1	14	21.47	21.47	21.40			
3	16QAM	3	0	20.08	20.22	20.09			
3	16QAM	3	4	20.02	20.23	20.19	22	2	
3	16QAM	15	0	20.04	20.15	20.06			
3	64QAM	1	0	20.34	20.40	20.47			
3	64QAM	1	8	20.26	20.39	20.34	22	2	
3	64QAM	1	14	20.13	20.25	20.34			
3	64QAM	3	0	19.18	19.18	19.02	21	3	
3	64QAM	3	4	19.06	19.06	19.11			
3	64QAM	3	7	19.01	19.03	19.09			
3	256QAM	1	0	17.37	17.30	17.36	19	5	
3	256QAM	1	8	17.27	17.34	17.22			
3	256QAM	3	0	17.02	17.13	17.05			
3	256QAM	3	4	17.05	17.04	17.16	19	5	
3	256QAM	3	7	17.07	17.03	17.10			
3	256QAM	15	0	17.05	17.10	17.06			
Channel									
Frequency [MHz]									
1.4	QPSK	1	0	22.15	22.25	22.23	24	0	
1.4	QPSK	1	3	22.09	22.03	22.09			
1.4	QPSK	3	3	22.06	22.10	22.06			
1.4	QPSK	3	22	22.13	22.23	22.22	24	0	
1.4	QPSK	3	1	22.12	22.00	22.03			
1.4	QPSK	3	1	22.11	22.04	22.14			
1.4	QPSK	15	6	21.15	21.25	21.10	23	1	
1.4	16QAM	1	0	21.50	21.54	21.47			
1.4	16QAM	1	3	21.34	21.51	21.37	23	1	
1.4	16QAM	1	5	21.41	21.52	21.40			
1.4	16QAM	3	0	21.51	21.48	21.48			
1.4	16QAM	3	3	21.46	21.47	21.36	23	1	
1.4	16QAM	3	7	21.45	21.47	21.35			
1.4	16QAM	15	0	20.08	20.14	20.14	22	2	
1.4	16QAM	15	0	20.06	20.16	20.16			
1.4	16QAM	3	0	20.22	20.31	20.33			
1.4	16QAM	3	0	20.28	20.48	20.20	22	2	
1.4	16QAM	3	3	20.26	20.35	20.35			
1.4	16QAM	3	3	20.26	20.35	20.35			
1.4	16QAM	3	0	19.04	19.08	19.15	21	3	
1.4	16QAM	3	3	19.04	19.14	19.14			
1.4	256QAM	1	3	17.28	17.33	17.17			
1.4	256QAM	1	5	17.28	17.24	17.31	19	5	
1.4	256QAM	1	7	17.06	17.17	17.08			
1.4	256QAM	1	1	17.05	17.13	17.08			
1.4	256QAM	3	3	17.06	17.06	17.06	19	5	
1.4	256QAM	3	5	17.06	17.01	17.06			

Band 13 Ant 1												
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int (dB)	MPE (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.60	22.60	22.60	24	0				
10	QPSK	1	25	22.70	22.70	22.70						
10	QPSK	1	49	22.87	22.87	22.87						
10	QPSK	25	0	21.84	21.84	21.84						
10	QPSK	25	12	21.74	21.74	21.74	23	1				
10	QPSK	25	25	21.69	21.69	21.69						
10	QPSK	50	0	21.65	21.65	21.65						
10	16QAM	1	0	22.00	22.00	22.00						
10	16QAM	1	25	22.09	22.09	22.09	23	1				
10	16QAM	1	49	22.07	22.07	22.07						
10	16QAM	25	0	20.70	20.70	20.70						
10	16QAM	25	12	20.74	20.74	20.74						
10	16QAM	25	25	20.69	20.69	20.69	22	2				
10	16QAM	50	0	20.52	20.52	20.52						
10	64QAM	1	0	21.50	21.50	21.50						
10	64QAM	1	25	20.96	20.96	20.96						
10	64QAM	1	49	20.93	20.93	20.93	21	3				
10	64QAM	25	0	19.67	19.67	19.67						
10	64QAM	25	12	19.69	19.69	19.69						
10	64QAM	25	25	19.52	19.52	19.52						
10	64QAM	50	0	19.70	19.70	19.70	19	5				
10	256QAM	1	25	17.84	17.84	17.84						
10	256QAM	1	49	17.87	17.87	17.87						
10	256QAM	25	0	17.68	17.68	17.68						
10	256QAM	25	12	17.61	17.61	17.61	19	5				
10	256QAM	25	25	17.62	17.62	17.62						
10	256QAM	50	0	17.22	17.22	17.22						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.76	22.76	22.80	24	0				
5	QPSK	1	12	22.80	22.80	22.82						
5	QPSK	1	24	22.82	22.86	22.89						
5	QPSK	12	0	21.82	21.74	21.79						
5	QPSK	12	7	21.70	21.62	21.68	23	1				
5	QPSK	12	13	21.53	21.52	21.55						
5	QPSK	25	0	21.81	21.74	21.77						
5	16QAM	1	0	22.12	22.06	22.01						
5	16QAM	1	12	21.98	21.98	21.92	23	1				
5	16QAM	1	24	22.03	21.94	22.00						
5	16QAM	12	0	20.68	20.67	20.61						
5	16QAM	12	7	20.60	20.60	20.53						
5	16QAM	12	13	20.58	20.57	20.54	22	2				
5	16QAM	25	0	20.55	20.58	20.52						
5	64QAM	1	0	20.94	20.95	20.98						
5	64QAM	1	12	20.83	20.91	20.91						
5	64QAM	1	24	20.75	20.97	20.99	21	3				
5	64QAM	12	0	19.64	19.60	19.65						
5	64QAM	12	7	19.65	19.60	19.57						
5	64QAM	12	13	19.44	19.40	19.40						
5	64QAM	25	0	19.68	19.64	19.61	19	5				
5	256QAM	1	0	17.92	17.90	17.86						
5	256QAM	1	12	17.71	17.77	17.81						
5	256QAM	1	24	17.84	17.77	17.80						
5	256QAM	12	0	17.65	17.66	17.58	19	5				
5	256QAM	12	7	17.48	17.57	17.49						
5	256QAM	12	13	17.45	17.46	17.40						
5	256QAM	25	0	17.62	17.65	17.54						

Band 14 Ant 1												
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int (dB)	MPE (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.69	22.69	22.69	24	0				
10	QPSK	1	25	22.69	22.69	22.69						
10	QPSK	1	49	22.44	22.44	22.44						
10	QPSK	25	0	21.72	21.72	21.72						
10	QPSK	25	12	21.58	21.58	21.58	23	1				
10	QPSK	25	25	21.51	21.51	21.49						
10	QPSK	50	0	21.62	21.62	21.62						
10	16QAM	1	0	21.90	21.90	21.90						
10	16QAM	1	25	21.96	21.96	21.96	23	1				
10	16QAM	1	49	21.97	21.97	21.97						
10	16QAM	25	0	20.57	20.57	20.57						
10	16QAM	25	12	20.61	20.61	20.61						
10	16QAM	25	25	20.46	20.46	20.46	22	2				
10	16QAM	50	0	20.52	20.52	20.52						
10	64QAM	1	0	20.92	20.92	20.92						
10	64QAM	1	25	20.78	20.78	20.78	22	2				
10	64QAM	1	49	20.70	20.70	20.70						
10	64QAM	25	0	19.58	19.49	19.48						
10	64QAM	25	12	19.48	19.48	19.48						
10	64QAM	25	25	19.46	19.46	19.41	21	3				
10	64QAM	50	0	19.48	19.38	19.48						
10	256QAM	1	0	17.70	17.72	17.70						
10	256QAM	1	25	17.72	17.69	17.69						
10	256QAM	1	49	17.65	17.67	17.68	19	5				
10	256QAM	25	0	17.58	17.58	17.58						
10	256QAM	25	12	17.48	17.48	17.48						
10	256QAM	25	25	17.51	17.51	17.51						
10	256QAM	50	0	17.59	17.59	17.59	19	5				
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.60	22.61	22.63	24	0				
5	QPSK	1	12	22.60	22.48	22.39						
5	QPSK	1	24	22.33	22.35	22.36						
5	QPSK	12	0	21.61	21.69	21.68						
5	QPSK	12	7	21.47	21.60	21.60	23	1				
5	QPSK	12	13	21.43	21.46	21.47						
5	QPSK	25	0	21.60	21.67	21.67						
5	16QAM	1	0	21.80	21.81	21.86						
5	16QAM	1	12	21.92	21.89	21.87	23	1				
5	16QAM	1	24	21.66	21.85	21.81						
5	16QAM	12	0	20.46	20.45	20.45						
5	16QAM	12	7	20.59	20.49	20.47						
5	16QAM	12	13	20.36	20.32	20.37	22	2				
5	16QAM	25	0	20.50	20.46	20.43						
5	64QAM	1	0	20.73	20.74	20.76						
5	64QAM	1	12	20.74	20.70	20.67						
5	64QAM	1	24	20.57	20.59	20.55	21	3				
5	64QAM	12	0	19.52	19.56	19.47						
5	64QAM	12	7	19.41	19.37	19.34						
5	64QAM	12	13	19.44	19.44	19.34						
5	64QAM	25	0	19.31	19.30	19.30	19	5				
5	256QAM	1	0	17.66	17.68	17.69						
5	256QAM	1	12	17.63	17.65	17.69						
5	256QAM	1	24	17.54	17.54	17.56						
5	256QAM	12	0	17.50	17.52	17.52	19	5				
5	256QAM	12	7	17.39	17.34	17.34						
5	256QAM	12	13	17.43	17.48	17.44						
5	256QAM	25	0	17.41	17.48	17.41						

Band 17 Ant 1									
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.61	22.60	22.66	24	0	
10	QPSK	1	25	22.62	22.61	22.47			
10	QPSK	1	49	22.39	22.53	22.43			
10	QPSK	25	0	21.62	21.74	21.63			
10	QPSK	25	12	21.62	21.68	21.63	23	1	</

Band 26 for FCC Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turnup time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.58	22.62	22.66	24	0		
15	QPSK	1	32	22.47	22.48	22.41				
15	QPSK	1	74	22.34	22.45	22.38				
15	QPSK	36	0	21.58	21.73	21.75				
15	QPSK	36	26	21.40	21.47	21.38	23	1		
15	QPSK	36	39	21.37	21.49	21.36				
15	QPSK	75	0	21.49	21.65	21.65				
15	16QAM	1	0	21.85	21.96	21.87				
15	16QAM	1	37	21.75	21.87	21.76	23	1		
15	16QAM	1	74	21.70	21.89	21.79				
15	16QAM	36	0	20.51	20.58	20.64				
15	16QAM	36	20	20.45	20.51	20.44				
15	16QAM	36	39	20.38	20.41	20.35	22	2		
15	16QAM	75	0	20.50	20.42	20.41				
15	64QAM	1	0	20.74	20.81	20.82				
15	64QAM	1	37	20.59	20.80	20.74				
15	64QAM	1	74	20.62	20.64	20.70	21	3		
15	64QAM	36	0	19.45	19.52	19.39				
15	64QAM	36	20	19.39	19.50	19.35				
15	64QAM	36	39	19.37	19.38	19.33				
15	256QAM	1	37	17.59	17.63	17.59	19	5		
15	256QAM	1	74	17.61	17.64	17.64				
15	256QAM	36	0	17.36	17.37	17.36				
15	256QAM	36	20	17.37	17.43	17.29				
15	256QAM	36	39	17.32	17.43	17.35	19	5		
15	256QAM	75	0	17.47	17.43	17.38				
Channel				26715	26866	26996	Turnup time (sec)	MPR (dB)		
Frequency (MHz)										
10	QPSK	1	0	22.59	22.62	22.69	24	0		
10	QPSK	1	25	22.35	22.36	22.31				
10	QPSK	1	49	22.31	22.32	22.31				
10	QPSK	25	0	21.72	21.82	21.82				
10	QPSK	25	12	21.47	21.31	21.39	23	1		
10	QPSK	25	26	21.38	21.32	21.29				
10	QPSK	50	0	21.64	21.49	21.47				
10	16QAM	1	0	21.71	21.75	21.80				
10	16QAM	1	26	21.81	21.72	21.65	23	1		
10	16QAM	1	49	21.87	21.64	21.73				
10	16QAM	25	0	20.55	20.42	20.40				
10	16QAM	25	12	20.50	20.33	20.37				
10	16QAM	50	0	20.34	20.41	20.38	22	2		
10	16QAM	50	0	20.38	20.45	20.30				
10	64QAM	1	0	20.78	20.64	20.78				
10	64QAM	1	26	20.70	20.50	20.70				
10	64QAM	1	49	20.54	20.50	20.52	22	2		
10	64QAM	25	0	19.42	19.37	19.37				
10	64QAM	25	12	19.37	19.33	19.37				
10	64QAM	50	0	19.30	19.32	19.32				
10	64QAM	50	0	19.40	19.33	19.37	21	3		
10	256QAM	1	26	17.55	17.52	17.62				
10	256QAM	1	49	17.56	17.52	17.59				
10	256QAM	1	74	17.59	17.59	17.64				
10	256QAM	25	0	17.52	17.35	17.35	19	5		
10	256QAM	25	12	17.34	17.34	17.32				
10	256QAM	25	26	17.40	17.35	17.34				
10	256QAM	50	0	17.38	17.37	17.31				
Channel				26715	26866	27016	Turnup time (sec)	MPR (dB)		
Frequency (MHz)										
5	QPSK	1	0	22.52	22.48	22.49	24	0		
5	QPSK	1	12	22.35	22.44	22.33				
5	QPSK	1	24	22.37	22.23	22.33				
5	QPSK	12	0	21.70	21.74	21.84				
5	QPSK	12	7	21.41	21.31	21.35	23	1		
5	QPSK	12	13	21.38	21.37	21.36				
5	QPSK	25	0	21.61	21.43	21.48				
5	16QAM	1	0	21.84	21.78	21.79				
5	16QAM	1	12	21.87	21.72	21.68	23	1		
5	16QAM	8	0	20.58	20.58	20.58				
5	16QAM	12	0	20.51	20.40	20.42				
5	16QAM	12	7	20.40	20.35	20.32				
5	16QAM	15	0	20.38	20.38	20.31	22	2		
5	16QAM	25	0	20.38	20.45	20.30				
5	64QAM	1	0	20.78	20.64	20.79				
5	64QAM	1	26	20.73	20.67	20.68				
5	64QAM	1	24	20.58	20.53	20.62	21	3		
5	64QAM	12	0	19.48	19.40	19.30				
5	64QAM	12	7	19.47	19.29	19.29				
5	64QAM	12	13	19.30	19.36	19.24				
5	64QAM	25	0	19.37	19.29	19.31	19	5		
5	256QAM	1	0	17.61	17.57	17.62				
5	256QAM	1	12	17.62	17.57	17.68				
5	256QAM	1	24	17.62	17.58	17.61				
5	256QAM	12	0	17.41	17.36	17.35	19	5		
5	256QAM	12	7	17.38	17.26	17.28				
5	256QAM	12	13	17.46	17.31	17.23				
5	256QAM	25	0	17.38	17.28	17.28				
Channel				26705	26866	27026	Turnup time (sec)	MPR (dB)		
Frequency (MHz)										
3	QPSK	1	0	22.53	22.50	22.49	24	0		
3	QPSK	1	8	22.35	22.43	22.37				
3	QPSK	1	14	22.42	22.29	22.37				
3	QPSK	8	0	21.61	21.57	21.56				
3	QPSK	8	4	21.43	21.34	21.39	23	1		
3	QPSK	8	7	21.45	21.27	21.31				
3	QPSK	15	0	21.63	21.39	21.50				
3	16QAM	1	0	21.93	21.84	21.86				
3	16QAM	1	8	21.86	21.69	21.61	23	1		
3	16QAM	8	0	21.88	21.58	21.68				
3	16QAM	8	0	20.47	20.48	20.37				
3	16QAM	8	4	20.43	20.43	20.32				
3	16QAM	8	7	20.38	20.37	20.30	22	2		
3	64QAM	1	0	20.39	20.40	20.32				
3	64QAM	1	0	20.74	20.63	20.78				
3	64QAM	1	8	20.74	20.50	20.73				
3	64QAM	1	14	20.56	20.57	20.89	21	3		
3	64QAM	8	0	19.43	19.36	19.31				
3	64QAM	8	4	19.47	19.29	19.29				
3	64QAM	8	7	19.31	19.32	19.31				
3	64QAM	15	0	19.44	19.33	19.34	19	5		
3	256QAM	1	0	17.71	17.57	17.68				
3	256QAM	1	8	17.60	17.55	17.64				
3	256QAM	1	14	17.61	17.57	17.68				
3	256QAM	8	0	17.42	17.36	17.36	19	5		
3	256QAM	8	0	17.39	17.32	17.30				
3	256QAM	8	7	17.43	17.29	17.35				
3	256QAM	15	0	17.43	17.43	17.31				
Channel				26697	26866	27026	Turnup time (sec)	MPR (dB)		
Frequency (MHz)										
14	QPSK	1	0	21.47	21.51	21.53	24	0		
14	QPSK	1	5	21.25	21.43	21.41				
14	QPSK	1	15	21.24	21.26	21.31				
14	QPSK	36	0	20.53	20.63	20.63				
14	QPSK	36	23	20.34	20.43	20.29	23	1		
14	QPSK	3	0	21.24	21.24	21.29				
14	16QAM	1	0	21.94	21.79	21.81				
14	16QAM	1	3	21.79	21.67	21.69				
14	16QAM	1	33	21.62	21.60	21.62	23	1		
14	16QAM	3	0	21.67	21.57	21.67				
14	16QAM	3	3	21.70	21.57	21.60				
14	16QAM	6	0	20.39	20.41	20.32				
14	16QAM	6	0	20.60	20.72	20.71	22	2		
14	16QAM	6	3	20.59	20.59	20.68				
14	16QAM	3	6	20.57	20.56	20.68				
14	16QAM	3	9	20.74	20.69	20.69				
14	16QAM	3	12	20.69	20.49	20.69	21	3		
14	16QAM	3	15	20.60	20.47	20.58				
14	16QAM	6	3	19.51	17.68	17.47				
14	256QAM	1	6	17.66	17.66	17.68				
14	256QAM	1	12	17.67	17.52	17.67	19	5		
14	256QAM	1	18	17.42	17.32	17.32				
14	256QAM	3	3	17.34	17.34	17.23				
14	256QAM	3	9	17.45	17.38	17.23				
14	256QAM	3	15	17.31	17.31	17.23				

Band 71 Ant 1														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dB)	APR3 (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	22.49	22.61	22.47	24	0						
20	QPSK	1	48	22.44	22.45	22.36								
20	QPSK	1	96	22.32	22.45	20.34								
20	QPSK	50	0	21.51	21.65	21.57								
20	QPSK	50	24	21.41	21.48	21.38								
20	QPSK	50	50	21.30	21.41	21.33	23	1						
20	QPSK	100	0	21.45	21.63	21.48								
20	16QAM	1	0	21.74	21.92	21.83								
20	16QAM	1	48	21.75	21.88	21.75								
20	16QAM	1	96	21.70	21.82	21.73								
20	16QAM	50	0	20.42	20.50	20.35	22	2						
20	16QAM	50	24	20.34	20.49	20.34								
20	16QAM	50	50	20.30	20.41	20.31								
20	16QAM	100	0	20.37	20.39	20.32								
20	64QAM	1	0	20.61	20.71	20.72								
20	64QAM	1	48	20.59	20.76	20.72	22	2						
20	64QAM	1	96	20.49	20.64	20.58								
20	64QAM	50	0	19.36	19.44	19.37								
20	64QAM	50	24	19.31	19.34	19.24								
20	64QAM	50	50	19.40	19.27	19.24								
20	64QAM	100	0	19.36	19.40	19.25	21	3						
20	256QAM	1	0	17.56	17.68	17.68								
20	256QAM	1	48	17.61	17.59	17.44								
20	256QAM	1	96	17.55	17.57	17.61								
20	256QAM	50	0	17.28	17.42	17.38								
20	256QAM	50	24	17.24	17.38	17.21	19	5						
20	256QAM	50	50	17.35	17.33	17.22								
20	256QAM	100	0	17.26	17.40	17.24								
Channel														
Frequency (MHz)														
15	QPSK	1	0	22.45	22.59	22.36	24	0						
15	QPSK	1	37	22.33	22.45	22.28								
15	QPSK	1	74	22.24	22.39	22.28								
15	QPSK	36	0	21.47	21.54	21.55								
15	QPSK	36	20	21.38	21.45	21.29								
15	QPSK	36	39	21.24	21.40	21.32	23	1						
15	QPSK	75	0	21.42	21.58	21.48								
15	16QAM	1	0	21.67	21.80	21.73								
15	16QAM	1	37	21.68	21.80	21.71								
15	16QAM	1	74	21.60	21.74	21.70								
15	16QAM	36	0	20.32	20.38	20.32	22	2						
15	16QAM	36	20	20.31	20.45	20.28								
15	16QAM	36	39	20.25	20.37	20.23								
15	16QAM	75	0	20.34	20.37	20.24								
15	64QAM	1	0	20.60	20.59	20.62								
15	64QAM	1	37	20.54	20.65	20.58	22	2						
15	64QAM	1	74	20.47	20.55	20.55								
15	64QAM	36	0	19.31	19.38	19.33								
15	64QAM	36	20	19.36	19.28	19.25								
15	64QAM	36	39	19.35	19.15	19.15								
15	64QAM	75	0	19.35	19.35	19.17	21	3						
15	256QAM	1	0	17.54	17.50	17.40								
15	256QAM	1	37	17.58	17.55	17.39								
15	256QAM	1	74	17.48	17.48	17.57								
15	256QAM	36	0	17.20	17.22	17.36								
15	256QAM	36	20	17.23	17.31	17.13	19	5						
15	256QAM	36	39	17.31	17.29	17.18								
15	256QAM	75	0	17.34	17.30	17.29								
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.43	22.57	22.43	24	0						
10	QPSK	1	25	22.38	22.35	22.31								
10	QPSK	1	48	22.28	22.44	22.30								
10	QPSK	25	0	21.48	21.61	21.47								
10	QPSK	25	12	21.30	21.35	21.26								
10	QPSK	25	25	21.26	21.37	21.27	23	1						
10	QPSK	50	0	21.43	21.58	21.38								
10	16QAM	1	0	21.64	21.82	21.83								
10	16QAM	1	25	21.64	21.83	21.85								
10	16QAM	1	48	21.65	21.76	21.72								
10	16QAM	25	0	20.41	20.35	20.33	22	2						
10	16QAM	25	12	20.24	20.37	20.22								
10	16QAM	25	25	20.30	20.38	20.23								
10	16QAM	50	0	20.32	20.38	20.30								
10	64QAM	1	0	20.59	20.63	20.61								
10	64QAM	1	25	20.57	20.66	20.70	22	2						
10	64QAM	1	48	20.40	20.64	20.65								
10	64QAM	25	0	19.35	19.36	19.32								
10	64QAM	25	12	19.29	19.28	19.22								
10	64QAM	25	25	19.39	19.17	19.12								
10	64QAM	50	0	19.31	19.29	19.16	21	3						
10	256QAM	1	0	17.44	17.52	17.55								
10	256QAM	1	25	17.58	17.52	17.34								
10	256QAM	1	48	17.50	17.52	17.58								
10	256QAM	25	0	17.22	17.24	17.28								
10	256QAM	25	12	17.17	17.27	17.18	19	5						
10	256QAM	25	25	17.28	17.21	17.16								
10	256QAM	50	0	17.25	17.42	17.25								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.37	22.50	22.35	24	0						
5	QPSK	1	12	22.35	22.44	22.29								
5	QPSK	1	24	22.28	22.42	22.25								
5	QPSK	12	0	21.60	21.67	21.53								
5	QPSK	12	7	21.39	21.37	21.33								
5	QPSK	12	13	21.26	21.37	21.24	23	1						
5	QPSK	25	0	21.43	21.53	21.43								
5	16QAM	1	0	21.73	21.92	21.73								
5	16QAM	1	12	21.66	21.75	21.64								
5	16QAM	1	24	21.69	21.80	21.67								
5	16QAM	12	0	20.38	20.44	20.28	22	2						
5	16QAM	12	7	20.23	20.45	20.29								
5	16QAM	12	13	20.26	20.34	20.22								
5	16QAM	25	0	20.28	20.30	20.25								
5	64QAM	1	0	20.51	20.66	20.64								
5	64QAM	1	12	20.52	20.71	20.60	22	2						
5	64QAM	1	24	20.42	20.55	20.58								
5	64QAM	12	0	19.31	19.38	19.36								
5	64QAM	12	7	19.20	19.27	19.16								
5	64QAM	12	13	19.33	19.17	19.17								
5	64QAM	25	0	19.29	19.29	19.22	21	3						
5	256QAM	1	0	17.53	17.67	17.63								
5	256QAM	1	12	17.54	17.49	17.36								
5	256QAM	1	24	17.47	17.47	17.52								
5	256QAM	12	0	17.21	17.20	17.32								
5	256QAM	12	7	17.21	17.28	17.09	19	5						
5	256QAM	12	13	17.29	17.26	17.21								
5	256QAM	25	0	17.31	17.38	17.33								



Band 38 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPE (dB)	
Channel									
Frequency (MHz)				37965	38050	38150			
20	QPSK	1	0	22.76	22.84	22.96	24	0	
20	QPSK	1	48	22.84	22.87	22.94			
20	QPSK	1	96	22.86	22.92	22.98			
20	QPSK	50	0	21.64	21.52	21.70			
20	QPSK	50	24	21.58	21.74	21.59	23	1	
20	QPSK	50	48	21.59	21.63	21.68			
20	QPSK	100	0	21.73	21.79	21.72			
20	16QAM	1	0	21.90	22.07	22.07			
20	16QAM	1	48	21.92	22.10	22.10	23	1	
20	16QAM	1	96	21.86	22.04	21.96			
20	16QAM	50	24	20.58	20.76	20.58			
20	16QAM	50	48	20.54	20.78	20.64			
20	16QAM	100	0	20.63	20.95	20.83	22	2	
20	16QAM	100	1	20.87	21.02	21.02			
20	16QAM	1	48	20.78	20.89	20.90			
20	16QAM	1	96	20.71	20.85	20.74			
20	16QAM	50	0	19.50	19.72	19.63	21	3	
20	16QAM	50	24	19.53	19.60	19.52			
20	16QAM	50	50	19.52	19.59	19.67			
20	16QAM	100	0	19.59	19.65	19.55			
20	25QAM	1	0	17.79	17.85	17.83	19	5	
20	25QAM	1	48	17.84	17.89	17.75			
20	25QAM	1	96	17.77	17.83	17.78			
20	25QAM	50	0	17.57	17.73	17.68			
20	25QAM	50	24	17.52	17.58	17.40	19	5	
20	25QAM	50	48	17.40	17.55	17.51			
20	25QAM	100	0	17.59	17.65	17.59			
Channel									
Frequency (MHz)				37925	38005	38115	Tune-up limit (dBm)	MPE (dB)	
15	QPSK	1	12	22.74	22.75	22.92	24	0	
15	QPSK	1	37	22.82	22.89	22.92			
15	QPSK	1	74	22.42	22.84	22.45			
15	QPSK	36	0	21.60	21.71	21.68			
15	QPSK	36	20	21.49	21.65	21.53	23	1	
15	QPSK	36	37	21.52	21.64	21.61			
15	QPSK	75	0	21.62	21.70	21.70			
15	16QAM	1	0	21.83	22.01	22.06			
15	16QAM	1	37	21.82	22.04	21.93	23	1	
15	16QAM	1	74	21.84	22.03	21.92			
15	16QAM	36	0	20.68	20.65	20.56			
15	16QAM	36	20	20.67	20.70	20.61			
15	16QAM	36	37	20.43	20.68	20.59	22	2	
15	16QAM	75	0	20.62	20.60	20.59			
15	16QAM	75	0	20.78	20.84	20.88			
15	16QAM	1	37	20.79	20.97	20.88			
15	16QAM	74	24	20.67	20.75	20.84	21	3	
15	16QAM	36	0	19.50	19.65	19.64			
15	16QAM	36	20	19.43	19.59	19.44			
15	16QAM	36	37	19.51	19.70	19.64			
15	16QAM	75	0	19.50	19.55	19.45	19	5	
15	25QAM	1	0	17.71	17.82	17.82			
15	25QAM	1	37	17.77	17.77	17.77			
15	25QAM	36	0	17.53	17.62	17.53			
15	25QAM	36	20	17.52	17.65	17.65	19	5	
15	25QAM	36	37	17.48	17.51	17.42			
15	25QAM	75	0	17.56	17.54	17.47			
Channel									
Frequency (MHz)				37905	38005	38105	Tune-up limit (dBm)	MPE (dB)	
10	QPSK	1	0	22.67	22.74	22.80	24	0	
10	QPSK	1	25	22.56	22.57	22.42			
10	QPSK	1	48	22.40	22.40	22.46			
10	QPSK	25	0	21.57	21.77	21.77			
10	QPSK	25	12	21.47	21.73	21.49	23	1	
10	QPSK	25	25	21.60	21.52	21.38			
10	QPSK	25	48	21.75	21.76	21.65			
10	16QAM	1	0	21.88	21.86	22.00			
10	16QAM	1	25	21.86	22.03	21.81	23	1	
10	16QAM	1	48	21.85	21.99	21.94			
10	16QAM	25	0	20.65	20.69	20.55			
10	16QAM	25	12	20.44	20.74	20.49			
10	16QAM	25	48	20.42	20.56	20.59	22	2	
10	16QAM	50	0	20.61	20.55	20.59			
10	16QAM	1	0	20.83	20.88	20.86			
10	16QAM	1	25	20.76	20.88	20.83			
10	16QAM	1	48	20.67	20.75	20.82	22	2	
10	16QAM	25	0	19.53	19.64	19.60			
10	16QAM	25	12	19.51	19.52	19.41			
10	16QAM	25	25	19.51	19.54	19.53			
10	16QAM	50	0	19.54	19.64	19.51	21	3	
10	25QAM	1	0	17.67	17.80	17.77			
10	25QAM	1	25	17.76	17.76	17.77			
10	25QAM	1	48	17.76	17.77	17.75			
10	25QAM	25	0	17.54	17.67	17.53	19	5	
10	25QAM	25	12	17.54	17.67	17.32			
10	25QAM	25	25	17.54	17.47	17.42			
10	25QAM	50	0	17.59	17.65	17.50			
Channel									
Frequency (MHz)				37795	38005	38225	Tune-up limit (dBm)	MPE (dB)	
5	QPSK	1	0	22.65	22.75	22.85	24	0	
5	QPSK	1	12	22.54	22.57	22.51			
5	QPSK	1	24	22.42	22.55	22.46			
5	QPSK	12	0	21.60	21.76	21.75			
5	QPSK	12	7	21.52	21.67	21.58	23	1	
5	QPSK	12	13	21.56	21.57	21.43			
5	QPSK	25	0	21.66	21.73	21.67			
5	16QAM	1	0	21.88	22.03	22.04			
5	16QAM	1	12	21.80	22.09	21.82	23	1	
5	16QAM	1	24	21.76	21.96	21.86			
5	16QAM	12	0	20.64	20.71	20.65			
5	16QAM	12	7	20.47	20.65	20.44			
5	16QAM	12	13	20.52	20.65	20.56	22	2	
5	16QAM	25	0	20.66	20.68	20.55			
5	16QAM	1	0	20.83	20.80	20.81			
5	16QAM	1	12	20.89	20.81	20.83			
5	16QAM	1	24	20.89	20.79	20.83	22	2	
5	16QAM	12	0	19.49	19.69	19.49			
5	16QAM	12	7	19.47	19.51	19.42			
5	16QAM	12	13	19.51	19.56	19.47			
5	16QAM	25	0	19.50	19.58	19.50	21	3	
5	25QAM	1	12	17.79	17.83	17.70			
5	25QAM	1	24	17.79	17.83	17.70			
5	25QAM	1	48	17.77	17.81	17.77			
5	25QAM	12	0	17.46	17.71	17.55	19	5	
5	25QAM	12	7	17.46	17.62	17.36			
5	25QAM	12	13	17.59	17.59	17.40			
5	25QAM	25	0	17.54	17.60	17.49			

Band 41 Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq		
Channel										
Frequency (MHz)				39790	40185	40620	41005	41480		
20	QPSK	1	0	23.24	23.43	23.61	23.84	24.05	24	0
20	QPSK	1	48	23.27	23.31	23.10	23.10	23.07		
20	QPSK	1	96	23.13	23.37	23.00	23.11	23.09		
20	QPSK	50	0	22.28	22.30	22.19	22.30	22.28		
20	QPSK	50	24	22.16	22.31	22.63	22.14	22.10	23	1
20	QPSK	50	48	22.15	22.26	22.25	22.25	22.25		
20	QPSK	100	0	22.33	22.42	22.18	22.34	22.15		
20	16QAM	1	0	22.81	22.70	22.42	22.64	22.45		
20	16QAM	1	48	22.86	22.81	22.62	22.62	22.62	23	1
20	16QAM	1	96	22.47	22.61	22.46	22.57	22.44		
20	16QAM	50	24	21.19	21.30	21.11	21.16	21.13		
20	16QAM	50	24	21.13	21.28	21.13	21.29	21.05		
20	16QAM	50	50	21.15	21.13	21.01	21.10	21.04	22	2
20	64QAM	1	0	21.22	21.27	21.10	21.19	21.07		
20	64QAM	1	48	21.40	21.47	21.33	21.43	21.36	22	2
20	64QAM	1	96	21.30	21.43	21.43	21.43	21.43		
20	64QAM	50	24	20.27	20.29	20.10	20.10	20.09		
20	64QAM	50	24	20.19	20.25	20.02	20.15	20.03		
20	256QAM	1	0	19.86	19.46	18.91	18.37	18.23	19	5
20	256QAM	1	48	19.40	19.46	19.31	19.31	19.31		
20	256QAM	1	96	18.40	18.39	18.29	18.29	18.36		
20	256QAM	50	24	18.19	18.34	18.12	18.10	18.09		
20	256QAM	50	24	18.07	18.18	17.97	18.02	17.97	19	5
20	256QAM	50	50	18.15	18.20	18.09	18.04	18.05		
20	256QAM	100	0	18.25	18.36	18.15	18.24	18.05		
Channel				39790	40173	40620	41008	41511		
Frequency (MHz)				23.24	23.33	23.17	23.24	23.15		
20	QPSK	1	0	23.19	23.25	22.88	23.11	22.95	24	0
20	QPSK	1	74	23.08	23.24	22.90	23.06	23.01		
20	QPSK	1	148	22.93	23.33	22.82	23.30	23.02		
20	QPSK	36	20	22.03	22.23	21.90	22.01	21.89		
20	QPSK	36	20	22.07	22.04	22.04	22.04	22.04	23	1
20	QPSK	75	0	22.23	22.38	22.10	22.27	22.06		
20	16QAM	1	0	22.52	22.67	22.39	22.53	22.38		
20	16QAM	1	48	22.48	22.51	22.32	22.48	22.31		
20	16QAM	1	74	22.38	22.58	22.42	22.35	22.31	23	1
20	16QAM	36	0	21.10	21.27	21.05	21.06	21.10		
20	16QAM	36	20	21.06	21.21	21.15	21.05	21.02		
20	16QAM	36	36	21.04	21.00	20.98	21.02	20.91		
20	16QAM	75	0	21.19	21.34	21.12	21.19	21.02	23	2
20	64QAM	1	0	21.30	21.51	21.24	21.30	21.21		
20	64QAM	1	37	21.27	21.41	21.30	21.37	21.31		
20	64QAM	1	74	21.23	21.43	21.33	21.31	21.31		
20	64QAM	36	0	20.20	20.21	20.03	20.14	19.95	21	3
20	64QAM	36	20	20.12	20.16	19.95	20.07	19.94		
20	64QAM	36	36	20.09	20.02	19.98	20.02	19.98		
20	64QAM	75	0	20.03	20.12	19.95	20.03	19.94		
20	256QAM	1	0	18.37	18.36	18.26	18.26	18.26	19	5
20	256QAM	1	37	18.36	18.42	18.17	18.22	18.10		
20	256QAM	1	74	18.34	18.30	18.18	18.21	18.23		
20	256QAM	50	24	18.02	18.26	18.06	18.26	18.06		
20	256QAM	50	24	17.98	18.16	17.89	18.03	17.95	19	5
20	256QAM	36	39	18.07	18.17	18.05	17.96	17.93		
20	256QAM	75	0	18.12	18.11	18.00	18.11	17.93		
Channel				39790	40180	40620	41005	41540		
Frequency (MHz)				23.24	23.47	23.33	23.34	23.24		
20	QPSK	1	0	23.26	23.38	23.13	23.24	23.05	24	0
20	QPSK	1	25	23.24	23.24	23.07	23.07	22.95		
20	QPSK	1	50	23.09	23.25	22.90	23.05	22.94		
20	QPSK	25	0	22.17	22.29	22.13	22.29	22.14		
20	QPSK	25	12	22.08	22.24	21.96	22.12	22.02	23	1
20	QPSK	25	12	22.13	22.10	22.08	22.08	22.08		
20	QPSK	50	0	22.30	22.29	22.14	22.23	22.08		
20	16QAM	1	0	22.54	22.63	22.38	22.59	22.38		
20	16QAM	1	25	22.48	22.47	22.28	22.47	22.23	23	1
20	16QAM	1	49	22.34	22.46	22.38	22.47	22.38		
20	16QAM	25	12	21.08	21.18	21.06	21.11	21.05		
20	16QAM	25	12	21.02	21.28	21.04	21.27	21.04		
20	16QAM	25	20	21.08	21.10	20.90	21.01	20.82	23	2
20	16QAM	25	20	21.13	21.13	21.00	21.13	21.00		
20	64QAM	1	0	21.34	21.45	21.28	21.38	21.27		
20	64QAM	1	25	21.30	21.43	21.31	21.37	21.29		
20	64QAM	1	25	21.30	21.38	21.30	21.37	21.30	22	2
20	64QAM	25	12	20.15	20.18	20.02	20.07	20.04		
20	64QAM	25	12	20.11	20.14	19.95	20.07	19.94		
20	64QAM	25	12	20.11	20.04	19.98	20.01	19.98		
20	64QAM	50	0	20.03	20.19	19.98	19.98	19.92	21	3
20	64QAM	50	0	19.97	20.13	19.97	19.97	19.92		
20	256QAM	1	26	18.37	18.37	18.26	18.26	18.26		
20	256QAM	1	49	18.38	18.35	18.28	18.26	18.26		
20	256QAM	1	26	18.32	18.25	18.18	18.26	18.26	19	5
20	256QAM	25	12	17.95	18.01	17.83	18.00	17.90		
20	256QAM	25	12	18.05	18.15	18.05	17.97	18.03		
Channel				39693	40148	40620	41003	41568		
Frequency (MHz)				23.26	23.38	23.13	23.34	23.24		
20	QPSK	1	12	23.16	23.22	23.02	23.14	22.95	24	0
20	QPSK	1	24	23.16	23.22	23.02	23.14	22.95		
20	QPSK	12	7	22.21	22.26	22.11	22.29	22.10		
20	QPSK	12	7	22.13	22.25	21.96	22.06	22.03		
20	16QAM	1	12	22.03	22.14	21.92	22.03	21.89	23	1
20	16QAM	1	24	22.28	22.37	22.11	22.24	22.08		
20	16QAM	1	12	22.07	22.43	22.33	22.05	22.39		
20	16QAM	12	12	22.43	22.47	22.22	22.47	22.22		
20	16QAM	1	24	22.39	22.57	22.40	22.48	22.30	23	1
20	16QAM	1	24	22.38	22.52	22.35	22.47	22.42		
20	16QAM	12	7	21.00	21.09	21.09	21.18	21.03		
20	16QAM	12	13	21.08	21.07	20.87	21.05	20.91		
20	64QAM	1	12	21.18	21.14	21.02	21.12	20.99	22	2
20	64QAM	1	24	21.30	21.47	21.31	21.38	21.36		
20	64QAM	1	12	21.20	21.39	21.30	21.40	21.31		
20	64QAM	24	24	20.19	20.19	20.01	20.17	20.04		
20	64QAM	25	13	20.09	20.12	19.99	20.15	19.99	21	3
20	64QAM	25	13	20.10	20.11	19.89	20.09	19.89		
20	64QAM	25	0	20.03	20.21	20.01	20.04	19.91		
20	256QAM	1	26	18.41	18.36	18.27	18.23	18.23		
20	256QAM	1	49	18.38	18.32	18.22	18.31	18.18	19	5
20	256QAM	1	26	18.29	18.24	18.18	18.22	18.26		
20	256QAM	12	5	18.08	18.18	18.03	18.03	18.03		
20	256QAM	12	7	17.94	18.15	17.89	17.97	17.85		
20	256QAM	12	13	18.07	18.09	18.00	17.96	17.91	19	5
20	256QAM	12	13	18.17	18.08	18.00	17.96	17.91		
20	256QAM	12	13	18.09	18.08	18.00	17.96	17.91		
Channel				39693	40148	40620	41003	41568		

Band 7 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	23.03	23.08	22.96	24	0	
20	QPSK	1	49	22.91	22.89	22.79			
20	QPSK	1	99	22.75	22.92	22.81			
20	QPSK	50	0	21.94	22.11	22.08			
20	QPSK	50	24	21.85	21.93	21.84	23	1	
20	QPSK	50	50	21.88	21.92	21.81			
20	QPSK	100	0	21.95	22.09	22.02			
20	16QAM	1	0	22.20	22.40	22.24			
20	16QAM	1	49	22.21	22.31	22.17	23	1	
20	16QAM	1	99	22.23	22.29	22.20			
20	16QAM	50	0	20.91	20.95	20.88			
20	16QAM	50	24	20.89	21.03	20.80			
20	16QAM	50	50	20.75	20.91	20.89	22	2	
20	16QAM	100	0	20.90	20.93	20.88			
20	64QAM	1	0	21.12	21.26	21.27			
20	64QAM	1	49	21.06	21.15	21.15			
20	64QAM	1	99	21.08	21.18	21.16	21	3	
20	64QAM	50	0	19.86	19.91	19.87			
20	64QAM	50	24	19.87	19.84	19.71			
20	64QAM	50	50	19.83	19.87	19.74			
20	64QAM	100	0	19.83	19.91	19.75	19	5	
20	256QAM	1	0	18.15	18.19	18.07			
20	256QAM	1	49	18.04	18.08	18.00			
20	256QAM	1	99	18.07	18.00	18.12			
20	256QAM	50	0	17.82	17.93	17.88	19	5	
20	256QAM	50	24	17.74	17.83	17.66			
20	256QAM	50	50	17.78	17.84	17.82			
20	256QAM	100	0	17.93	17.92	17.81			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	22.99	23.06	22.85	24	0	
15	QPSK	1	37	22.90	22.89	22.77			
15	QPSK	1	74	22.67	22.85	22.70			
15	QPSK	36	0	21.90	22.07	21.99			
15	QPSK	36	20	21.74	21.92	21.83	23	1	
15	QPSK	36	39	21.76	21.83	21.73			
15	QPSK	75	0	21.88	22.00	22.00			
15	16QAM	1	0	22.09	22.38	22.20			
15	16QAM	1	37	22.16	22.22	22.10	23	1	
15	16QAM	1	74	22.15	22.18	22.09			
15	16QAM	36	0	20.91	20.89	20.88			
15	16QAM	36	20	20.82	20.95	20.78			
15	16QAM	36	39	20.68	20.85	20.86	22	2	
15	16QAM	75	0	20.85	20.87	20.84			
15	64QAM	1	0	21.03	21.23	21.17			
15	64QAM	1	37	21.04	21.15	21.12			
15	64QAM	1	74	21.06	21.08	21.12	22	2	
15	64QAM	36	0	19.81	19.90	19.80			
15	64QAM	36	20	19.85	19.75	19.71			
15	64QAM	36	39	19.77	19.86	19.63			
15	64QAM	75	0	19.78	19.87	19.72	21	3	
15	256QAM	1	0	18.15	18.18	17.97			
15	256QAM	1	37	17.99	17.97	17.90			
15	256QAM	1	74	17.98	17.92	18.05			
15	256QAM	36	0	17.77	17.92	17.82	19	5	
15	256QAM	36	20	17.70	17.78	17.61			
15	256QAM	36	39	17.74	17.83	17.74			
15	256QAM	75	0	17.88	17.92	17.73			
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	22.93	22.99	22.90	24	0	
10	QPSK	1	25	22.87	22.78	22.74			
10	QPSK	1	49	22.69	22.82	22.71			
10	QPSK	25	0	21.86	22.07	22.00			
10	QPSK	25	12	21.84	21.85	21.78	23	1	
10	QPSK	25	25	21.87	21.89	21.74			
10	QPSK	50	0	21.86	22.04	21.96			
10	16QAM	1	0	22.17	22.37	22.20			
10	16QAM	1	25	22.16	22.31	22.10	23	1	
10	16QAM	1	49	22.14	22.24	22.16			
10	16QAM	25	0	20.90	20.84	20.80			
10	16QAM	25	12	20.81	20.98	20.72			
10	16QAM	25	25	20.71	20.81	20.84	22	2	
10	16QAM	50	0	20.78	20.82	20.81			
10	64QAM	1	0	21.03	21.16	21.23			
10	64QAM	1	25	21.04	21.09	21.07			
10	64QAM	1	49	21.05	21.07	21.06	22	2	
10	64QAM	25	0	19.77	19.84	19.82			
10	64QAM	25	12	19.81	19.73	19.63			
10	64QAM	25	25	19.77	19.78	19.67			
10	64QAM	50	0	19.82	19.88	19.65	21	3	
10	256QAM	1	0	18.14	18.09	18.01			
10	256QAM	1	25	17.97	18.04	17.90			
10	256QAM	1	49	18.06	17.99	18.09			
10	256QAM	25	0	17.76	17.85	17.82	19	5	
10	256QAM	25	12	17.67	17.78	17.66			
10	256QAM	25	25	17.70	17.83	17.81			
10	256QAM	50	0	17.86	17.84	17.74			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	22.94	23.01	22.84	24	0	
5	QPSK	1	12	22.84	22.85	22.78			
5	QPSK	1	24	22.67	22.85	22.77			
5	QPSK	12	0	21.87	22.08	22.07			
5	QPSK	12	7	21.75	21.87	21.81	23	1	
5	QPSK	12	13	21.84	21.91	21.71			
5	QPSK	25	0	21.86	22.02	21.90			
5	16QAM	1	0	22.16	22.40	22.15			
5	16QAM	1	12	22.16	22.22	22.07	23	1	
5	16QAM	1	24	22.20	22.27	22.09			
5	16QAM	12	0	20.88	20.83	20.85			
5	16QAM	12	7	20.82	20.99	20.69			
5	16QAM	12	13	20.72	20.83	20.85	22	2	
5	16QAM	25	0	20.83	20.83	20.88			
5	64QAM	1	0	21.04	21.26	21.27			
5	64QAM	1	12	21.04	21.10	21.11			
5	64QAM	1	24	20.97	21.15	21.10	22	2	
5	64QAM	12	0	19.84	19.84	19.82			
5	64QAM	12	7	19.80	19.73	19.65			
5	64QAM	12	13	19.71	19.83	19.67			
5	64QAM	25	0	19.81	19.83	19.66	21	3	
5	256QAM	1	0	18.05	18.15	18.05			
5	256QAM	1	12	17.95	18.04	17.91			
5	256QAM	1	24	18.01	17.92	18.09			
5	256QAM	12	0	17.82	17.83	17.79	19	5	
5	256QAM	12	7	17.69	17.75	17.64			
5	256QAM	12	13	17.75	17.82	17.77			
5	256QAM	25	0	17.84	17.82	17.81			

Band 30 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				27710					
Frequency (MHz)				2310					
10	QPSK	1	0		23.09		24	0	
10	QPSK	1	25		22.89				
10	QPSK	1	49		22.91				
10	QPSK	25	0		22.09				
10	QPSK	25	12		21.92		23	1	
10	QPSK	25	25		21.84				
10	QPSK	50	0		22.04				
10	16QAM	1	0		22.36				
10	16QAM	1	25		22.36		23	1	
10	16QAM	1	49		22.33				
10	16QAM	25	0		20.97				
10	16QAM	25	12		20.91				
10	16QAM	25	25		20.89		22	2	
10	16QAM	50	0		20.93				
10	64QAM	1	0		21.28				
10	64QAM	1	25		21.23				
10	64QAM	1	49		21.09		22	2	
10	64QAM	25	0		19.92				
10	64QAM	25	12		19.85				
10	64QAM	25	25		19.83				
10	64QAM	50	0		19.88		21	3	
10	256QAM	1	0		18.10				
10	256QAM	1	25		18.14				
10	256QAM	1	49		18.07				
10	256QAM	25	0		17.92		19	5	
10	256QAM	25	12		17.80				
10	256QAM	25	25		17.91				
10	256QAM	50	0		17.84				
Channel				27685	27710	27735			
Frequency (MHz)				2307.5	2310	2312.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	23.04	23.04	23.03	24	0	
5	QPSK	1	12	22.81	22.88	22.78			
5	QPSK	1	24	22.86	22.81	22.88			
5	QPSK	12	0	22.07	21.99	22.05			
5	QPSK	12	7	21.85	21.80	21.92	23	1	
5	QPSK	12	13	21.73	21.79	21.75			
5	QPSK	25	0	22.00	22.01	21.96			
5	16QAM	1	0	22.33	22.33	22.35			
5	16QAM	1	12	22.25	22.25	22.33	23	1	
5	16QAM	1	24	22.23	22.29	22.22			
5	16QAM	12	0	20.91	20.96	20.92			
5	16QAM	12	7	20.88	20.90	20.82			
5	16QAM	12	13	20.86	20.84	20.78	22	2	
5	16QAM	25	0	20.89	20.86	20.83			
5	64QAM	1	0	21.22	21.24	21.22			
5	64QAM	1	12	21.22	21.17	21.21			
5	64QAM	1	24	20.99	21.01	21.00	22	2	
5	64QAM	12	0	19.84	19.80	19.91			
5	64QAM	12	7	19.74	19.83	19.74			
5	64QAM	12	13	19.76	19.80	19.71			
5	64QAM	25	0	19.83	19.79	19.85	21	3	
5	256QAM	1	0	18.04	18.04	18.05			
5	256QAM	1	12	18.14	18.10	18.09			
5	256QAM	1	24	17.98	18.03	18.03			
5	256QAM	12	0	17.91	17.91	17.85	19	5	
5	256QAM	12	7	17.71	17.79	17.79			
5	256QAM	12	13	17.85	17.81	17.85			
5	256QAM	25	0	17.72	17.80	17.72			



Band 38 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)				37965	38050	38135			
20	QPSK	1	0	22.57	22.63	22.69	24	0	
20	QPSK	1	48	22.44	22.47	22.39			
20	QPSK	1	96	22.36	22.48	22.38			
20	QPSK	50	0	21.57	21.58	21.61			
20	QPSK	50	24	21.41	21.53	21.39	23	1	
20	QPSK	50	48	21.71	21.67	21.66			
20	QPSK	100	0	21.52	21.55	21.56			
20	HQAM	1	0	21.80	21.67	21.78			
20	HQAM	1	48	21.71	21.67	21.66	23	1	
20	HQAM	1	96	21.74	21.84	21.76			
20	HQAM	50	0	20.47	20.50	20.38			
20	HQAM	50	24	20.35	20.51	20.37			
20	HQAM	50	50	20.28	20.42	20.34	22	2	
20	HQAM	100	0	20.44	20.49	20.50			
20	HQAM	100	1	20.55	20.52	20.77			
20	HQAM	1	48	20.58	20.71	20.76			
20	HQAM	1	96	20.52	20.58	20.70	22	2	
20	HQAM	50	0	19.48	19.53	19.45			
20	HQAM	50	24	19.34	19.48	19.35			
20	HQAM	50	50	19.41	19.33	19.35			
20	HQAM	100	0	19.35	19.45	19.27	21	3	
20	HQAM	1	0	17.87	17.85	17.70			
20	HQAM	1	48	17.75	17.79	17.68			
20	HQAM	1	96	17.65	17.58	17.62			
20	HQAM	50	0	17.42	17.44	17.47	19	5	
20	HQAM	50	24	17.38	17.33	17.35			
20	HQAM	50	50	17.35	17.44	17.32			
20	HQAM	100	0	17.45	17.43	17.43			
Channel									
Frequency (MHz)				37925	38050	38175	Tune-up limit (dBm)	MFR (dB)	
15	QPSK	1	0	22.73	22.75	22.81	24	0	
15	QPSK	1	37	22.38	22.39	22.34			
15	QPSK	1	74	22.28	22.38	22.35			
15	QPSK	36	0	21.55	21.60	21.68			
15	QPSK	36	20	21.35	21.41	21.36	23	1	
15	QPSK	36	38	21.45	21.56	21.48			
15	QPSK	75	0	21.45	21.56	21.48			
15	HQAM	1	0	21.69	21.54	21.73			
15	HQAM	1	37	21.46	21.51	21.41	23	1	
15	HQAM	1	74	21.65	21.75	21.72			
15	HQAM	36	0	20.40	20.42	20.27			
15	HQAM	36	20	20.32	20.40	20.32			
15	HQAM	36	36	20.26	20.33	20.31	22	2	
15	HQAM	75	0	20.44	20.40	20.27			
15	HQAM	75	0	19.38	19.50	19.36			
15	HQAM	1	37	20.54	20.59	20.69			
15	HQAM	1	74	20.51	20.62	20.68	22	2	
15	HQAM	36	0	19.38	19.50	19.36			
15	HQAM	36	20	19.29	19.49	19.35			
15	HQAM	36	36	19.32	19.41	19.35			
15	HQAM	75	0	19.51	19.57	19.15	21	3	
15	HQAM	1	0	17.57	17.61	17.66			
15	HQAM	1	37	17.55	17.59	17.73			
15	HQAM	1	74	17.57	17.49	17.59			
15	HQAM	36	0	17.38	17.38	17.25	19	5	
15	HQAM	36	20	17.42	17.34	17.47			
15	HQAM	36	36	17.34	17.36	17.23			
15	HQAM	75	0	17.40	17.41	17.38			
Channel									
Frequency (MHz)				37900	38050	38200	Tune-up limit (dBm)	MFR (dB)	
10	QPSK	1	0	22.53	22.54	22.47	24	0	
10	QPSK	1	25	22.39	22.34	22.36			
10	QPSK	1	48	22.30	22.45	22.28			
10	QPSK	25	0	21.52	21.52	21.52			
10	QPSK	25	12	21.32	21.44	21.37	23	1	
10	QPSK	25	25	21.30	21.29	21.32			
10	HQAM	1	0	21.78	21.67	21.78			
10	HQAM	1	25	21.61	21.80	21.65			
10	HQAM	1	48	21.71	21.79	21.73	22	2	
10	HQAM	25	0	20.46	20.49	20.34			
10	HQAM	25	12	20.38	20.44	20.35			
10	HQAM	25	25	20.38	20.33	20.48			
10	HQAM	50	0	20.41	20.45	20.34	22	2	
10	HQAM	50	0	20.65	20.74	20.68			
10	HQAM	50	25	20.52	20.67	20.65			
10	HQAM	1	48	20.58	20.65	20.62			
10	HQAM	25	0	19.44	19.43	19.30	21	3	
10	HQAM	25	12	19.27	19.40	19.29			
10	HQAM	25	25	19.32	19.36	19.35			
10	HQAM	50	0	19.31	19.34	19.20			
10	HQAM	1	0	17.64	17.59	17.64	19	5	
10	HQAM	1	25	17.53	17.64	17.39			
10	HQAM	1	48	17.55	17.59	17.58			
10	HQAM	25	0	17.31	17.36	17.25			
10	HQAM	25	12	17.36	17.31	17.46	19	5	
10	HQAM	25	25	17.31	17.42	17.23			
10	HQAM	50	0	17.40	17.35	17.33			
Channel									
Frequency (MHz)				37975	38050	38225	Tune-up limit (dBm)	MFR (dB)	
5	QPSK	1	0	22.65	22.66	22.47	24	0	
5	QPSK	1	12	22.45	22.35	22.30			
5	QPSK	1	24	22.28	22.40	22.28			
5	QPSK	12	0	21.45	21.66	21.37			
5	QPSK	12	7	21.34	21.49	21.30	23	1	
5	QPSK	12	13	21.31	21.29	21.30			
5	QPSK	24	0	21.46	21.58	21.46			
5	HQAM	1	0	21.75	21.53	21.76			
5	HQAM	1	12	21.59	21.86	21.62	23	1	
5	HQAM	1	24	21.64	21.83	21.76			
5	HQAM	12	0	20.45	20.47	20.34			
5	HQAM	12	7	20.28	20.44	20.34			
5	HQAM	12	13	20.26	20.41	20.35	22	2	
5	HQAM	25	0	20.38	20.47	20.25			
5	HQAM	25	0	20.60	20.61	20.77			
5	HQAM	25	12	20.50	20.67	20.76			
5	HQAM	1	24	20.56	20.68	20.64	21	3	
5	HQAM	12	0	19.44	19.42	19.34			
5	HQAM	12	7	19.28	19.38	19.31			
5	HQAM	12	13	19.41	19.52	19.24			
5	HQAM	25	0	17.58	17.65	17.68	19	5	
5	HQAM	25	12	17.37	17.33	17.47			
5	HQAM	25	13	17.38	17.38	17.29			
5	HQAM	25	0	17.37	17.42	17.23			

Band 41 Ant 2											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power Low Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel											
Frequency (MHz)				39790	40185	40620	41065	41560			
20	QPSK	1	0	22.68	22.69	22.63	22.72	22.69			
20	QPSK	1	48	22.57	22.65	22.63	22.60	22.44			0
20	QPSK	1	96	22.52	22.40	22.55	22.53	22.40			
20	QPSK	50	0	21.68	21.61	21.81	21.88	21.68			
20	QPSK	50	24	21.60	21.56	21.72	21.68	21.44			
20	QPSK	50	48	21.57	21.53	21.67	21.63	21.45			1
20	QPSK	100	0	21.71	21.63	21.81	21.88	21.60			
20	16QAM	1	0	21.83	21.91	22.08	22.06	21.88			
20	16QAM	1	96	21.97	21.82	22.10	21.95	21.82			
20	16QAM	50	0	20.62	20.56	20.71	20.55	20.22			
20	16QAM	50	24	20.63	20.60	20.67	20.55	20.41			2
20	16QAM	50	50	20.50	20.50	20.57	20.53	20.51			
20	16QAM	100	0	20.52	20.57	20.56	20.60	20.47			
20	16QAM	100	1	20.58	20.67	20.66	20.68	20.87			
20	64QAM	1	48	20.84	20.72	20.86	20.86	20.75			2
20	64QAM	1	96	20.78	20.70	20.85	20.85	20.72			
20	64QAM	50	0	19.50	19.55	19.71	19.54	19.40			
20	64QAM	50	24	19.47	19.55	19.67	19.62	19.38			
20	64QAM	50	48	19.49	19.62	19.69	19.70	19.34			1
20	64QAM	100	0	19.46	19.47	19.66	19.68	19.41			
20	256QAM	1	0	17.71	17.81	17.86	17.81	17.71			
20	256QAM	1	48	17.74	17.79	17.81	17.77	17.52			
20	256QAM	1	96	17.63	17.77	17.77	17.62	17.70			
20	256QAM	50	0	17.57	17.54	17.57	17.50	17.47			
20	256QAM	50	24	17.48	17.55	17.51	17.39	17.30			
20	256QAM	50	50	17.56	17.54	17.55	17.50	17.48			
20	256QAM	100	0	17.68	17.67	17.82	17.78	17.62			
Channel				39790	40173	40620	41068	41513			
Frequency (MHz)				42240	42413	42913	43388	43948			
15	QPSK	1	0	22.60	22.61	22.63	22.73	22.69			
15	QPSK	1	37	22.45	22.56	22.59	22.59	22.35			0
15	QPSK	1	74	22.48	22.47	22.51	22.45	22.31			
15	QPSK	50	0	21.59	21.56	21.76	21.68	21.56			
15	QPSK	50	24	21.53	21.53	21.68	21.64	21.33			1
15	QPSK	50	48	21.53	21.53	21.68	21.64	21.38			
15	QPSK	75	0	21.68	21.61	21.51	21.77	21.65			
15	16QAM	1	0	21.87	21.83	21.88	21.88	21.83			
15	16QAM	1	37	21.80	21.83	21.83	21.83	21.78			
15	16QAM	1	74	21.92	21.69	22.00	21.91	21.74			
15	16QAM	50	0	20.51	20.49	20.58	20.62	20.44			
15	16QAM	50	24	20.50	20.52	20.62	20.62	20.38			
15	16QAM	50	48	20.51	20.40	20.55	20.50	20.45			
15	16QAM	100	0	20.47	20.46	20.55	20.55	20.40			
15	64QAM	1	0	20.84	20.78	20.85	20.85	20.80			
15	64QAM	1	37	20.76	20.66	20.76	20.70	20.68			
15	64QAM	1	74	20.75	20.73	20.74	20.74	20.68			2
15	64QAM	50	0	19.47	19.52	19.60	19.52	19.38			
15	64QAM	50	24	19.38	19.50	19.47	19.29	19.34			
15	64QAM	50	48	19.39	19.50	19.49	19.43	19.30			1
15	64QAM	75	0	19.41	19.44	19.54	19.42	19.35			
15	256QAM	1	0	17.69	17.72	17.72	17.60	17.50			
15	256QAM	1	37	17.71	17.72	17.62	17.60	17.52			0
15	256QAM	1	74	17.51	17.72	17.74	17.70	17.67			
15	256QAM	50	0	17.46	17.43	17.45	17.45	17.36			
15	256QAM	50	24	17.41	17.53	17.45	17.34	17.24			
15	256QAM	50	48	17.34	17.47	17.48	17.42	17.31			0
15	256QAM	100	0	17.46	17.47	17.48	17.42	17.34			
Channel				39790	40160	40620	41080	41560			
Frequency (MHz)				42241	42411	42913	43388	43948			
10	QPSK	1	0	22.61	22.61	22.63	22.73	22.69			
10	QPSK	1	25	22.49	22.52	22.52	22.60	22.41			0
10	QPSK	1	50	22.50	22.44	22.53	22.53	22.41			
10	QPSK	25	0	21.62	21.53	21.74	21.63	21.59			
10	QPSK	25	12	21.47	21.44	21.67	21.61	21.39			
10	QPSK	25	37	21.48	21.50	21.67	21.61	21.41			1
10	QPSK	50	0	21.62	21.58	21.71	21.60	21.54			
10	16QAM	1	0	21.83	21.88	21.88	21.88	21.80			
10	16QAM	1	25	21.84	21.87	21.88	21.88	21.89			
10	16QAM	1	49	21.94	21.74	22.04	21.92	21.70			
10	16QAM	25	0	20.59	20.52	20.60	20.64	20.50			
10	16QAM	25	12	20.52	20.48	20.57	20.57	20.48			
10	16QAM	25	37	20.47	20.42	20.53	20.48	20.42			
10	16QAM	50	0	20.67	20.60	20.68	20.68	20.57			
10	64QAM	1	0	20.80	20.76	20.84	20.80	20.80			
10	64QAM	1	25	20.73	20.67	20.75	20.73	20.72			2
10	64QAM	1	49	20.75	20.72	20.77	20.77	20.62			
10	64QAM	25	0	19.52	19.55	19.57	19.47	19.41			
10	64QAM	25	12	19.43	19.42	19.43	19.37	19.27			
10	64QAM	25	37	19.48	19.53	19.46	19.37	19.28			1
10	64QAM	50	0	19.40	19.45	19.61	19.32	19.32			
10	256QAM	1	0	17.57	17.57	17.57	17.57	17.48			
10	256QAM	1	25	17.68	17.76	17.67	17.67	17.57			
10	256QAM	1	49	17.59	17.65	17.74	17.77	17.68			
10	256QAM	25	0	17.42	17.47	17.47	17.42	17.38			
10	256QAM	25	12	17.36	17.43	17.37	17.37	17.18			
10	256QAM	25	37	17.41	17.41	17.47	17.38	17.22			0
10	256QAM	50	0	17.43	17.49	17.49	17.49	17.43			
Channel				39675	40148	40620	41088	41563			
Frequency (MHz)				42246	42416	42913	43388	43948			
5	QPSK	1	0	22.66	22.66	22.63	22.73	22.69			
5	QPSK	1	12	22.48	22.56	22.57	22.49	22.33			
5	QPSK	1	24	22.42	22.41	22.53	22.47	22.29			
5	QPSK	12	0	21.61	21.57	21.79	21.65	21.63			
5	QPSK	12	7	21.56	21.43	21.69	21.62	21.41			
5	16QAM	1	0	21.83	21.84	21.88	21.88	21.80			1
5	16QAM	1	12	21.85	21.84	21.88	21.88	21.71			
5	16QAM	1	24	21.86	21.69	22.08	21.86	21.72			
5	16QAM	12	0	20.59	20.52	20.60	20.64	20.50			
5	16QAM	12	7	20.52	20.48	20.57	20.57	20.48			
5	64QAM	1	0	20.79	20.82	20.83	20.83	20.79			2
5	64QAM	1	12	20.70	20.69	20.82	20.80	20.70			
5	64QAM	1	24	20.69	20.70	20.83	20.83	20.63			
5	64QAM	12	0	19.56	19.59	19.62	19.48	19.39			
5	64QAM	12	7	19.48	19.50	19.59	19.50	19.39			
5	64QAM	12	12	19.40	19.46	19.43	19.43	19.35			1
5	256QAM	1	0	17.43	17.44	17.57	17.50	17.48			
5	256QAM	1	12	17.67	17.69	17.61	17.63	17.48			
5	256QAM	1	24	17.55	17.68	17.71	17.73	17.68			
5	256QAM	12	0	17.44	17.42	17.47	17.47	17.37			
5	256QAM	12	7	17.43	17.49	17.41	17.31	17.26			
5	256QAM	12	12	17.43	17.40	17.46	17.46	17.32			0
5	256QAM	12	19	17.43	17.47	17.49	17.49	17.43			1



Band 42 FCC Part27Q Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turnup time (min)	MPR (dB)	
Channel				42190	42990	43090	Turnup time (min)	MPR (dB)	
Frequency (MHz)				42190	42990	43090			
20	QPSK	1	0	23.13	23.15	23.90	24	0	
20	QPSK	1	48	23.01	23.02	22.91			
20	QPSK	50	0	22.19	22.19	22.11	23	1	
20	QPSK	50	24	22.61	22.64	21.90			
20	QPSK	50	50	21.99	21.98	21.92	22	2	
20	QPSK	100	0	22.16	22.16	21.99			
20	HQAM	1	0	22.48	22.41	22.34	23	1	
20	HQAM	1	48	22.43	22.35	22.26			
20	HQAM	1	99	22.37	22.43	22.26	22	2	
20	HQAM	50	0	21.63	21.64	20.88			
20	HQAM	50	24	21.01	21.07	20.85	20		
20	HQAM	50	50	20.92	20.90	20.94			
20	HQAM	100	0	20.96	20.96	20.99	22	2	
20	HQAM	1	0	21.27	21.27	21.25			
20	HQAM	1	48	21.27	21.28	21.19	22	2	
20	HQAM	1	99	21.17	21.15	21.26			
20	HQAM	50	0	20.01	19.97	19.93	21	3	
20	HQAM	50	24	19.98	19.89	19.86			
20	HQAM	50	50	19.97	19.83	19.86	19	5	
20	HQAM	100	0	19.96	19.96	19.84			
20	256QAM	1	0	18.24	18.17	18.14	19	5	
20	256QAM	1	48	18.19	18.16	18.07			
20	256QAM	1	99	18.08	18.14	18.12	19	5	
20	256QAM	50	0	17.67	17.67	17.56			
20	256QAM	50	24	17.65	17.69	17.75	19	5	
20	256QAM	50	50	17.62	17.60	17.63			
20	256QAM	100	0	17.66	17.61	17.58	19	5	
Channel				42165 <th>42990</th> <th>43015</th> <th>Turnup time (min)</th> <th colspan="2">MPR (dB)</th>	42990	43015			
Frequency (MHz)				42165 <th>42990</th> <th>43015</th> <th>Turnup time (min)</th> <th colspan="2">MPR (dB)</th>	42990	43015	Turnup time (min)	MPR (dB)	
15	QPSK	1	0	23.08	23.10	22.87	24	0	
15	QPSK	1	37	22.94	22.84	22.80			
15	QPSK	1	74	22.92	22.82	22.70	23	1	
15	QPSK	36	0	22.03	22.13	22.98			
15	QPSK	36	20	21.99	21.99	21.85	23	1	
15	QPSK	36	48	21.91	21.88	21.88			
15	QPSK	75	0	22.06	21.98	21.92	23	1	
15	HQAM	1	0	22.36	22.33	22.27			
15	HQAM	1	37	22.37	22.27	22.22	22	1	
15	HQAM	1	74	22.35	22.31	22.20			
15	HQAM	36	0	21.00	20.91	20.77	22	2	
15	HQAM	36	20	20.98	20.84	20.82			
15	HQAM	36	39	20.80	20.87	20.80	22	2	
15	HQAM	75	0	20.91	20.82	20.78			
15	HQAM	1	0	21.25	21.13	21.31	22	2	
15	HQAM	1	37	21.15	21.19	21.09			
15	HQAM	1	74	21.13	21.05	21.18	21	3	
15	HQAM	36	0	19.63	19.62	19.63			
15	HQAM	36	20	19.91	19.89	19.72	21	3	
15	HQAM	36	39	19.62	19.72	19.65			
15	HQAM	75	0	19.89	19.92	19.81	19	5	
15	256QAM	1	0	18.16	18.10	18.04			
15	256QAM	1	37	18.10	18.02	18.00	19	5	
15	256QAM	1	74	18.00	18.12	18.02			
15	256QAM	36	0	17.94	17.81	17.87	19	5	
15	256QAM	36	20	17.73	17.82	17.70			
15	256QAM	36	39	17.86	17.77	17.78	19	5	
15	256QAM	75	0	17.67	17.66	17.75			
Channel				42140 <th>42990</th> <th>43015</th> <th>Turnup time (min)</th> <th colspan="2">MPR (dB)</th>	42990	43015	Turnup time (min)	MPR (dB)	
Frequency (MHz)				42140 <th>42990</th> <th>43015</th> <th>Turnup time (min)</th> <th colspan="2">MPR (dB)</th>	42990	43015	Turnup time (min)	MPR (dB)	
10	QPSK	1	0	23.04	23.10	22.94	24	0	
10	QPSK	1	25	22.90	22.94	22.79			
10	QPSK	1	49	22.96	22.84	22.71	23	1	
10	QPSK	36	0	22.06	22.08	21.98			
10	QPSK	25	12	21.89	21.94	21.82	23	1	
10	QPSK	25	25	21.62	21.65	21.81			
10	QPSK	50	0	22.02	22.05	21.96	23	1	
10	HQAM	1	0	22.37	22.27	22.20			
10	HQAM	1	25	22.41	22.27	22.32	23	1	
10	HQAM	1	49	22.26	22.35	22.21			
10	HQAM	25	0	20.93	20.96	20.80	22	2	
10	HQAM	25	12	20.67	21.03	20.72			
10	HQAM	25	25	20.89	20.84	20.86	22	2	
10	HQAM	50	0	20.89	20.85	20.75			
10	HQAM	1	0	21.14	21.22	21.22	22	2	
10	HQAM	1	25	21.24	21.22	21.13			
10	HQAM	1	49	21.10	21.09	21.19	21	3	
10	HQAM	25	0	19.97	19.85	19.81			
10	HQAM	25	12	19.90	19.75	19.75	21	3	
10	HQAM	25	25	19.74	19.71	19.83			
10	HQAM	50	0	19.90	19.83	19.81	19	5	
10	256QAM	1	0	18.10	18.05	18.11			
10	256QAM	1	25	18.09	18.06	17.99	19	5	
10	256QAM	1	49	18.02	18.01	18.00			
10	256QAM	25	0	17.96	17.93	17.78	19	5	
10	256QAM	25	12	17.90	17.80	17.66			
10	256QAM	25	25	17.85	17.75	17.75	19	5	
10	256QAM	50	0	17.90	17.85	17.74			
Channel				42115 <th>42990</th> <th>43015</th> <th>Turnup time (min)</th> <th colspan="2">MPR (dB)</th>	42990	43015	Turnup time (min)	MPR (dB)	
Frequency (MHz)				42115 <th>42990</th> <th>43015</th> <th>Turnup time (min)</th> <th colspan="2">MPR (dB)</th>	42990	43015	Turnup time (min)	MPR (dB)	
5	QPSK	1	0	23.08	23.02	22.88	24	0	
5	QPSK	1	16	22.97	22.91	22.83			
5	QPSK	1	24	22.92	22.92	22.69	23	1	
5	QPSK	12	0	22.63	22.15	21.98			
5	QPSK	12	7	21.95	22.01	21.83	23	1	
5	QPSK	12	13	21.85	21.86	21.78			
5	QPSK	25	0	22.03	22.06	21.92	23	1	
5	HQAM	1	0	22.39	22.31	22.22			
5	HQAM	1	12	22.36	22.25	22.13	23	1	
5	HQAM	1	24	22.24	22.38	22.32			
5	HQAM	12	0	20.98	21.02	20.77	22	2	
5	HQAM	12	7	20.88	20.96	20.72			
5	HQAM	12	13	20.84	20.84	20.90	22	2	
5	HQAM	25	0	20.89	20.93	20.85			
5	HQAM	1	0	21.22	21.19	21.28	21	3	
5	HQAM	1	12	21.16	21.19	21.09			
5	HQAM	1	24	21.08	21.11	21.18	22	2	
5	HQAM	12	0	19.87	19.84	19.92			
5	HQAM	12	7	19.91	19.85	19.79	21	3	
5	HQAM	12	13	19.73	19.72	19.72			
5	HQAM	25	0	19.85	19.82	19.71	19	5	
5	256QAM	1	0	18.17	18.07	18.01			
5	256QAM	1	12	18.12	18.07	17.99	19	5	
5	256QAM	1	24	17.99	18.02	17.99			
5	256QAM	12	0	17.87	17.88	17.83	19	5	
5	256QAM	12	7	17.84	17.81	17.66			
5	256QAM	12	13	17.80	17.81	17.73	19	5	
5	256QAM	25	0	17.86	17.84	17.84			



Band 48_FCC Ant 2														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freqs	Power Low Meds Ch / Freqs	Power High Meds Ch / Freqs	Power High Ch / Freqs	Turn-up time (dBm)	MPP (dB)					
Channel				56500	56600	56700	56800							
Frequency (MHz)				56500	56600	56700	56800							
20	QPSK	1	0	23.94	23.77	23.66	23.58	24	0					
20	QPSK	1	49	23.67	23.63	23.49	23.53							
20	QPSK	1	49	23.60	23.55	23.50	23.45							
20	QPSK	50	0	22.85	22.73	22.60	22.69							
20	QPSK	50	24	22.70	22.60	22.50	22.46	23	1					
20	QPSK	50	50	22.68	22.60	22.48	22.45							
20	QPSK	100	0	22.77	22.71	22.58	22.59							
20	16QAM	1	0	22.80	22.69	22.54	22.61							
20	16QAM	1	49	22.75	22.57	22.52	22.58	23	1					
20	16QAM	1	99	22.82	22.75	22.51	22.58							
20	16QAM	50	0	21.73	21.59	21.60	21.53							
20	16QAM	50	24	21.65	21.58	21.53	21.50							
20	16QAM	50	50	21.61	21.59	21.59	21.44	22	2					
20	64QAM	100	0	21.62	21.67	21.56	21.52							
20	64QAM	1	0	21.95	21.95	21.75	21.51							
20	64QAM	1	49	21.93	21.92	21.72	21.65							
20	64QAM	1	99	21.88	21.94	21.69	21.71	21	3					
20	64QAM	50	0	20.64	20.60	20.50	20.53							
20	64QAM	50	24	20.55	20.52	20.45	20.42							
20	64QAM	50	50	20.54	20.52	20.53	20.45							
20	64QAM	100	0	20.52	20.53	20.49	20.36	19	5					
20	256QAM	1	0	18.86	18.84	18.68	18.77							
20	256QAM	1	49	18.81	18.71	18.70	18.59							
20	256QAM	1	99	18.81	18.82	18.76	18.72							
20	256QAM	50	0	18.72	18.53	18.48	18.38	19	5					
20	256QAM	50	24	18.57	18.47	18.42	18.30							
20	256QAM	50	50	18.65	18.52	18.44	18.41							
20	256QAM	100	0	18.65	18.58	18.47	18.51							
Channel				56515	56620	56700	56800							
Frequency (MHz)				56515	56620	56700	56800							
15	QPSK	1	0	23.71	23.76	23.53	23.51	24	0					
15	QPSK	1	37	23.61	23.52	23.36	23.51							
15	QPSK	1	74	23.58	23.52	23.36	23.34							
15	QPSK	56	0	22.78	22.68	22.57	22.64							
15	QPSK	56	29	22.65	22.52	22.48	22.42	23	1					
15	QPSK	56	56	22.64	22.48	22.37	22.48							
15	QPSK	75	0	22.65	22.67	22.43	22.52							
15	16QAM	1	0	22.71	22.60	22.49	22.51							
15	16QAM	1	37	22.71	22.51	22.36	22.47	23	1					
15	16QAM	1	74	22.73	22.71	22.42	22.52							
15	16QAM	56	0	21.84	21.56	21.58	21.49							
15	16QAM	56	29	21.65	21.47	21.50	21.38							
15	16QAM	56	56	21.51	21.49	21.35	21.38	22	2					
15	16QAM	75	0	21.58	21.48	21.40	21.48							
15	64QAM	1	0	21.91	21.88	21.71	21.69							
15	64QAM	1	37	21.86	21.81	21.60	21.72							
15	64QAM	1	74	21.82	21.81	21.60	21.65	21	3					
15	64QAM	56	0	20.54	20.46	20.58	20.51							
15	64QAM	56	29	20.46	20.42	20.32	20.39							
15	64QAM	56	56	20.55	20.56	20.47	20.42							
15	64QAM	75	0	20.51	20.45	20.39	20.23	19	5					
15	256QAM	1	0	18.77	18.73	18.60	18.65							
15	256QAM	1	37	18.80	18.64	18.57	18.45							
15	256QAM	1	74	18.78	18.70	18.73	18.59							
15	256QAM	56	0	18.65	18.42	18.43	18.47	19	5					
15	256QAM	56	29	18.44	18.34	18.37	18.20							
15	256QAM	56	56	18.57	18.47	18.42	18.38							
15	256QAM	75	0	18.58	18.49	18.50	18.46							
Channel				56530	56635	56700	56800							
Frequency (MHz)				56530	56635	56700	56800							
10	QPSK	1	0	23.80	23.67	23.58	23.58	24	0					
10	QPSK	1	25	23.64	23.50	23.39	23.40							
10	QPSK	1	49	23.55	23.47	23.33	23.40							
10	QPSK	16	0	22.84	22.62	22.54	22.61							
10	QPSK	25	12	22.60	22.58	22.37	22.43	23	1					
10	QPSK	25	25	22.60	22.37	22.40	22.37							
10	QPSK	26	0	22.66	22.61	22.45	22.55							
10	16QAM	1	0	22.67	22.59	22.46	22.52							
10	16QAM	1	25	22.71	22.49	22.38	22.47	23	1					
10	16QAM	1	49	22.63	22.48	22.40	22.49							
10	16QAM	25	0	21.61	21.52	21.47	21.49							
10	16QAM	25	12	21.57	21.47	21.50	21.38							
10	16QAM	26	16	21.53	21.51	21.28	21.38	22	2					
10	16QAM	50	0	21.57	21.45	21.49	21.48							
10	64QAM	1	0	21.90	21.83	21.69	21.67							
10	64QAM	1	25	21.82	21.86	21.67	21.78							
10	64QAM	1	49	21.77	21.91	21.61	21.74	22	2					
10	64QAM	25	0	20.55	20.58	20.53	20.44							
10	64QAM	25	12	20.42	20.40	20.36	20.30							
10	64QAM	25	25	20.40	20.39	20.48	20.35							
10	64QAM	50	0	20.50	20.41	20.36	20.25	21	3					
10	256QAM	1	0	18.76	18.80	18.62	18.69							
10	256QAM	1	25	18.75	18.61	18.59	18.53							
10	256QAM	1	49	18.72	18.70	18.63	18.67							
10	256QAM	25	0	18.70	18.39	18.44	18.40	19	5					
10	256QAM	25	12	18.45	18.36	18.39	18.23							
10	256QAM	25	25	18.54	18.42	18.30	18.27							
10	256QAM	50	0	18.51	18.48	18.52	18.38							
Channel				56545	56650	56700	56800							
Frequency (MHz)				56545	56650	56700	56800							
5	QPSK	1	0	23.78	23.71	23.53	23.48	24	0					
5	QPSK	1	12	23.61	23.49	23.44	23.39							
5	QPSK	1	24	23.51	23.42	23.28	23.38							
5	QPSK	12	0	22.74	22.67	22.51	22.66							
5	QPSK	12	7	22.61	22.57	22.38	22.39	23	1					
5	QPSK	12	13	22.61	22.41	22.44	22.38							
5	QPSK	26	0	22.70	22.65	22.46	22.58							
5	16QAM	1	0	22.73	22.55	22.43	22.49							
5	16QAM	1	12	22.63	22.49	22.46	22.44	23	1					
5	16QAM	1	24	22.70	22.62	22.45	22.44							
5	16QAM	12	0	21.61	21.55	21.49	21.40							
5	16QAM	12	7	21.52	21.50	21.39	21.36							
5	16QAM	12	13	21.53	21.56	21.32	21.32	22	2					
5	16QAM	12	19	21.68	21.68	21.51	21.44							
5	64QAM	1	0	21.91	21.89	21.68	21.64							
5	64QAM	1	12	21.83	21.80	21.64	21.60							
5	64QAM	1	24	21.78	21.80	21.58	21.59	22	2					
5	64QAM	12	0	20.81	20.46	20.52	20.44							
5	64QAM	12	7	20.81	20.41	20.49	20.35							
5	64QAM	12	13	20.41	20.43	20.48	20.36							
5	64QAM	25	0	20.53	20.44	20.44	20.28	21	3					
5	256QAM	1	0	18.76	18.80	18.63	18.69							
5	256QAM	1	12	18.70	18.64	18.65	18.50							
5	256QAM	1	24	18.73	18.77	18.71	18.62							
5	256QAM	12	0	18.62	18.43	18.43	18.37	19	5					
5	256QAM	12	7	18.63	18.35	18.35	18.28							
5	256QAM	12	13	18.53	18.36	18.35	18.28							
5	256QAM	12	19	18.50	18.51	18.34	18.43							

Band 42 FCC Part27Q Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3455	3500	3545			
20	QPSK	1	0	22.99	23.04	22.89			
20	QPSK	1	49	22.78	22.79	22.81	24	0	
20	QPSK	1	99	22.85	22.85	22.75			
20	QPSK	50	0	22.02	22.07	21.97			
20	QPSK	50	24	21.81	21.85	21.78			
20	QPSK	50	50	21.78	21.84	21.70	23	1	
20	QPSK	100	0	21.99	22.04	21.84			
20	16QAM	1	0	22.29	22.31	22.19			
20	16QAM	1	49	22.19	22.25	22.09			
20	16QAM	1	99	22.23	22.31	22.11	23	1	
20	16QAM	50	0	20.89	20.95	20.84			
20	16QAM	50	24	20.85	20.85	20.74			
20	16QAM	50	50	20.80	20.77	20.73			
20	16QAM	100	0	20.78	20.77	20.77	22	2	
20	64QAM	1	0	21.16	21.19	21.12			
20	64QAM	1	49	21.13	21.07	21.14			
20	64QAM	1	99	21.04	21.01	21.13			
20	64QAM	50	0	19.81	19.90	19.77			
20	64QAM	50	24	19.83	19.78	19.67			
20	64QAM	50	50	19.67	19.76	19.73			
20	64QAM	100	0	19.80	19.79	19.74	21	3	
20	256QAM	1	0	18.00	18.08	18.10			
20	256QAM	1	49	17.96	17.97	17.88			
20	256QAM	1	99	17.93	17.92	17.99			
20	256QAM	36	0	17.83	17.85	17.78			
20	256QAM	50	24	17.71	17.71	17.58			
20	256QAM	50	50	17.74	17.80	17.68			
20	256QAM	100	0	17.85	17.85	17.74	19	5	
Channel				44105	42590	43065			
Frequency (MHz)				3457.5	3500	3543.5			
15	QPSK	1	0	22.89	23.03	22.84			
15	QPSK	1	37	22.71	22.77	22.79	24	0	
15	QPSK	1	74	22.85	22.75	22.88			
15	QPSK	36	0	21.94	21.98	21.88			
15	QPSK	36	20	21.70	21.91	21.67			
15	QPSK	36	39	21.73	21.79	21.64	23	1	
15	QPSK	75	0	21.91	21.94	21.77			
15	16QAM	1	0	22.28	22.22	22.14			
15	16QAM	1	37	22.16	22.24	22.07			
15	16QAM	1	74	22.19	22.21	22.10	23	1	
15	16QAM	36	0	20.80	20.89	20.74			
15	16QAM	36	20	20.82	20.77	20.72			
15	16QAM	36	39	20.69	20.75	20.66			
15	16QAM	75	0	20.74	20.75	20.69	22	2	
15	64QAM	1	0	21.12	21.16	21.09			
15	64QAM	1	37	21.06	21.02	21.10			
15	64QAM	1	74	20.95	20.98	21.10			
15	64QAM	36	0	19.73	19.87	19.73			
15	64QAM	36	20	19.75	19.67	19.60			
15	64QAM	36	39	19.59	19.67	19.73			
15	64QAM	75	0	19.70	19.76	19.64	21	3	
15	256QAM	1	0	17.62	17.96	18.06			
15	256QAM	1	37	17.89	17.91	17.79			
15	256QAM	1	74	17.89	17.87	17.84			
15	256QAM	36	0	17.79	17.78	17.69			
15	256QAM	36	20	17.68	17.66	17.48			
15	256QAM	36	39	17.73	17.73	17.66			
15	256QAM	75	0	17.77	17.76	17.71	19	5	
Channel				43140	42590	43040			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	22.94	22.97	22.80			
10	QPSK	1	25	22.67	22.66	22.81	24	0	
10	QPSK	1	49	22.82	22.82	22.66			
10	QPSK	25	0	22.00	22.06	21.91			
10	QPSK	25	12	21.75	21.93	21.72			
10	QPSK	25	25	21.78	21.72	21.61	23	1	
10	QPSK	50	0	21.91	21.98	21.74			
10	16QAM	1	0	22.26	22.31	22.19			
10	16QAM	1	25	22.09	22.17	22.03			
10	16QAM	1	49	22.12	22.25	22.04			
10	16QAM	25	0	20.61	20.94	20.79			
10	16QAM	25	12	20.83	20.75	20.69			
10	16QAM	25	25	20.75	20.74	20.65	22	2	
10	16QAM	50	0	20.74	20.75	20.76			
10	64QAM	1	0	21.17	21.17	21.10			
10	64QAM	1	25	21.08	20.98	21.14			
10	64QAM	1	49	20.93	20.97	21.11			
10	64QAM	25	0	19.70	19.86	19.70			
10	64QAM	25	12	19.81	19.73	19.80			
10	64QAM	25	25	19.58	19.67	19.63	21	3	
10	64QAM	50	0	19.71	19.72	19.66			
10	256QAM	1	0	18.00	18.00	18.10			
10	256QAM	1	25	17.90	17.91	17.77			
10	256QAM	1	49	17.84	17.85	17.97			
10	256QAM	25	0	17.77	17.81	17.76			
10	256QAM	25	12	17.61	17.68	17.56			
10	256QAM	25	25	17.67	17.69	17.64	19	5	
10	256QAM	50	0	17.76	17.79	17.69			
Channel				42115	42590	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	22.90	23.01	22.80			
5	QPSK	1	12	22.71	22.69	22.75			
5	QPSK	1	24	22.75	22.78	22.75	24	0	
5	QPSK	12	0	21.91	22.02	21.96			
5	QPSK	12	7	21.76	21.85	21.69			
5	QPSK	12	13	21.75	21.74	21.59			
5	QPSK	25	0	21.89	21.94	21.83			
5	16QAM	1	0	22.18	22.29	22.15			
5	16QAM	1	12	22.13	22.18	22.03			
5	16QAM	1	24	22.14	22.27	22.04	23	1	
5	16QAM	12	0	20.81	20.86	20.80			
5	16QAM	12	7	20.82	20.79	20.73			
5	16QAM	12	13	20.76	20.77	20.64			
5	16QAM	25	0	20.69	20.76	20.65	22	2	
5	64QAM	1	0	21.09	21.17	21.01			
5	64QAM	1	12	21.08	21.06	21.11			
5	64QAM	1	24	21.01	21.05	21.08			
5	64QAM	12	0	19.76	19.92	19.68			
5	64QAM	12	7	19.74	19.74	19.60			
5	64QAM	12	13	19.63	19.66	19.65			
5	256QAM	25	0	19.72	19.71	19.70	21	3	
5	256QAM	1	0	17.97	17.97	18.03			
5	256QAM	1	12	17.82	17.89	17.80			
5	256QAM	1	24	17.83	17.86	17.99			
5	256QAM	12	0	17.82	17.75	17.71			
5	256QAM	12	7	17.62	17.68	17.56			
5	256QAM	12	13	17.73	17.69	17.60			
5	256QAM	25	0	17.80	17.78	17.73	19	5	

Band 48_FCC Ant 4											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)		
Channel				56540	56830	56150	56640	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3520	3569	3621	3693				
20	QPSK	1	0	23.25	23.33	23.39	23.14	24	0		
20	QPSK	1	49	23.11	23.17	23.17	23.04				
20	QPSK	1	99	22.92	23.11	22.97	22.95				
20	QPSK	50	0	22.12	22.31	22.19	22.24				
20	QPSK	50	24	22.02	22.14	22.11	22.05	23	1		
20	QPSK	50	50	22.07	22.10	22.06	21.98				
20	QPSK	100	0	22.21	22.31	22.13	22.21				
20	16QAM	1	0	22.47	22.53	22.47	22.53				
20	16QAM	1	49	22.38	22.47	22.45	22.42	23	1		
20	16QAM	1	99	22.38	22.55	22.39	22.48				
20	16QAM	50	0	21.12	21.15	21.17	21.13				
20	16QAM	50	24	21.03	21.22	21.07	21.02				
20	16QAM	50	50	21.02	21.04	20.96	21.03	22	2		
20	16QAM	100	0	21.13	21.08	21.09	21.10				
20	64QAM	1	0	21.33	21.51	21.30	21.44				
20	64QAM	1	49	21.30	21.39	21.28	21.41				
20	64QAM	1	99	21.21	21.33	21.20	21.31	22	2		
20	64QAM	50	0	20.08	20.12	20.11	20.07				
20	64QAM	50	24	20.07	20.10	19.98	19.95				
20	64QAM	50	50	20.02	20.05	20.10	19.98				
20	64QAM	100	0	20.01	20.15	20.07	20.00	21	3		
20	256QAM	1	0	18.34	18.33	18.35	18.38				
20	256QAM	1	49	18.26	18.25	18.22	18.22				
20	256QAM	1	99	18.25	18.26	18.29	18.29				
20	256QAM	50	0	18.09	18.20	18.09	18.05	19	5		
20	256QAM	50	24	18.01	18.00	18.03	17.85				
20	256QAM	50	50	17.97	18.04	18.06	17.99				
20	256QAM	100	0	18.04	18.14	18.13	18.06				
Channel				55315	55820	56160	56655	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3557.5	3606	3642	3692.5				
15	QPSK	1	0	23.20	23.25	23.25	23.05	24	0		
15	QPSK	1	37	22.99	23.07	23.15	22.93				
15	QPSK	1	74	22.84	23.05	22.96	22.93				
15	QPSK	36	0	22.05	22.30	22.18	22.14				
15	QPSK	36	20	21.94	22.12	22.00	21.97	23	1		
15	QPSK	36	39	22.06	22.10	22.01	21.86				
15	QPSK	75	0	22.12	22.27	22.07	22.17				
15	16QAM	1	0	22.38	22.48	22.35	22.47				
15	16QAM	1	37	22.29	22.40	22.39	22.42	23	1		
15	16QAM	1	74	22.37	22.47	22.30	22.45				
15	16QAM	36	0	21.02	21.06	21.12	21.02				
15	16QAM	36	20	20.93	21.17	21.05	20.96				
15	16QAM	36	39	20.95	20.99	20.87	20.98	22	2		
15	16QAM	75	0	21.12	21.05	21.05	21.04				
15	64QAM	1	0	21.23	21.47	21.29	21.34				
15	64QAM	1	37	21.24	21.36	21.23	21.38				
15	64QAM	1	74	21.16	21.32	21.11	21.31	22	2		
15	64QAM	36	0	20.00	20.07	20.07	20.01				
15	64QAM	36	20	19.99	20.02	19.95	19.90				
15	64QAM	36	39	19.93	19.99	20.07	19.89				
15	64QAM	75	0	19.96	20.11	19.97	19.94	21	3		
15	256QAM	1	0	18.28	18.24	18.28	18.33				
15	256QAM	1	37	18.15	18.23	18.12	18.15				
15	256QAM	1	74	18.21	18.17	18.20	18.17				
15	256QAM	36	0	17.96	18.13	18.05	18.00	19	5		
15	256QAM	36	20	17.95	17.91	17.98	17.84				
15	256QAM	36	39	17.90	17.94	17.95	17.93				
15	256QAM	75	0	17.96	18.04	18.01	17.97				
Channel				55290	55815	56165	56660	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3555	3607.5	3642.5	3695				
10	QPSK	1	0	23.22	23.23	23.27	23.07	24	0		
10	QPSK	1	25	23.00	23.07	23.18	23.02				
10	QPSK	1	49	22.88	23.06	22.92	22.83				
10	QPSK	25	0	22.10	22.28	22.09	22.22				
10	QPSK	25	12	21.96	22.02	22.09	22.04	23	1		
10	QPSK	25	25	21.99	22.00	22.03	21.93				
10	QPSK	50	0	22.18	22.28	22.12	22.10				
10	16QAM	1	0	22.47	22.49	22.45	22.48				
10	16QAM	1	25	22.25	22.42	22.40	22.33	23	1		
10	16QAM	1	49	22.33	22.52	22.42	22.40				
10	16QAM	25	0	21.08	21.09	21.02	21.03				
10	16QAM	25	12	20.97	21.13	21.04	21.02				
10	16QAM	25	25	21.00	20.99	20.96	20.95	22	2		
10	16QAM	50	0	21.06	20.97	21.08	21.02				
10	64QAM	1	0	21.30	21.42	21.28	21.38				
10	64QAM	1	25	21.24	21.30	21.21	21.30				
10	64QAM	1	49	21.19	21.21	21.16	21.30	22	2		
10	64QAM	25	0	20.05	20.05	19.99	19.96				
10	64QAM	25	12	20.07	19.98	19.96	19.89				
10	64QAM	25	25	19.93	19.98	20.09	19.93				
10	64QAM	50	0	19.99	20.09	20.07	19.97	21	3		
10	256QAM	1	0	18.24	18.30	18.28	18.29				
10	256QAM	1	25	18.20	18.16	18.18	18.11				
10	256QAM	1	49	18.14	18.25	18.17	18.24				
10	256QAM	25	0	17.98	18.17	18.04	17.97	19	5		
10	256QAM	25	12	17.98	17.96	17.99	17.83				
10	256QAM	25	25	17.89	18.04	17.97	17.92				
10	256QAM	50	0	18.00	18.07	18.08	18.00				
Channel				55265	55810	56170	56715	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				3552.5	3607	3643	3697.5				
5	QPSK	1	0	23.20	23.31	23.18	23.05	24	0		
5	QPSK	1	12	23.09	23.13	23.07	22.99				
5	QPSK	1	24	22.85	23.07	22.93	22.87				
5	QPSK	12	0	22.05	22.30	22.18	22.13				
5	QPSK	12	7	21.98	22.06	22.04	21.94	23	1		
5	QPSK	12	13	21.98	22.06	22.03	21.86				
5	QPSK	25	0	22.21	22.22	22.12	22.19				
5	16QAM	1	0	22.44	22.45	22.38	22.42				
5	16QAM	1	12	22.30	22.39	22.45	22.33	23	1		
5	16QAM	1	24	22.33	22.53	22.32	22.38				
5	16QAM	12	0	21.09	21.10	21.13	21.07				
5	16QAM	12	7	20.96	21.10	20.99	20.99				
5	16QAM	12	13	20.99	21.03	20.98	20.92	22	2		
5	16QAM	25	0	21.05	21.07	21.08	21.01				
5	64QAM	1	0	21.31	21.40	21.19	21.38				
5	64QAM	1	12	21.26	21.31	21.24	21.32				
5	64QAM	1	24	21.16	21.26	21.12	21.23	22	2		
5	64QAM	12	0	20.05	20.03	20.00	20.05				
5	64QAM	12	7	20.00	20.00	19.99	19.93				
5	64QAM	12	13	19.96	19.96	19.98	19.89				
5	8QAM	25	0	19.91	20.13	20.04	19.98	19	5		
5	256QAM	1	0	18.32	18.25	18.27	18.26				
5	256QAM	1	12	18.23	18.21	18.20	18.21				
5	256QAM	1	24	18.15	18.23	18.21	18.21				
5	256QAM	12	0	18.03	18.09	18.00	17.99	19	5		
5	256QAM	12	7	17.99	17.99	18.01	17.89				
5	256QAM	12	13	17.96	17.94	17.97	17.89				
5	256QAM	25	0	18.04	18.05	18.05	18.00				

Band 42 FCC Part27Q Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3455	3500	3545			
20	QPSK	1	0	21.84	21.85	21.85	23	0	
20	QPSK	1	49	21.87	21.81	21.72			
20	QPSK	1	99	21.78	21.74	21.76			
20	QPSK	50	0	20.90	20.93	20.91			
20	QPSK	50	24	20.73	20.85	20.71	22	1	
20	QPSK	50	50	20.76	20.71	20.63			
20	QPSK	100	0	20.92	20.94	20.96			
20	16QAM	1	0	21.17	21.21	21.07			
20	16QAM	1	49	21.19	21.12	20.99	22	1	
20	16QAM	1	99	21.17	21.18	20.99			
20	16QAM	50	0	19.80	19.80	19.64			
20	16QAM	50	24	19.83	19.85	19.67			
20	16QAM	50	50	19.65	19.73	19.61	21	2	
20	16QAM	100	0	19.79	19.74	19.65			
20	64QAM	1	0	20.04	20.05	19.99			
20	64QAM	1	49	19.98	20.05	19.96			
20	64QAM	1	99	19.97	19.99	20.03	20	3	
20	64QAM	50	0	18.89	18.76	18.66			
20	64QAM	50	24	18.74	18.66	18.56			
20	64QAM	50	50	18.74	18.63	18.64			
20	256QAM	100	0	18.70	18.76	18.62	18	5	
20	256QAM	1	0	17.04	16.95	17.00			
20	256QAM	1	49	16.99	16.90	16.79			
20	256QAM	1	99	16.96	16.84	16.91			
20	256QAM	50	0	16.82	16.83	16.64	18	5	
20	256QAM	50	24	16.76	16.71	16.68			
20	256QAM	50	50	16.69	16.74	16.53			
20	256QAM	100	0	16.88	16.71	16.62			
Channel				42105	42590	43085	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	21.88	21.85	21.85	23	0	
15	QPSK	1	37	21.76	21.74	21.70			
15	QPSK	1	74	21.66	21.65	21.70			
15	QPSK	36	0	20.82	20.87	20.88			
15	QPSK	36	20	20.69	20.80	20.62	22	1	
15	QPSK	36	39	20.73	20.68	20.53			
15	QPSK	75	0	20.89	20.78	20.80			
15	16QAM	1	0	21.08	21.10	20.99			
15	16QAM	1	37	21.14	21.12	20.93	22	1	
15	16QAM	1	74	21.05	21.15	20.91			
15	16QAM	36	0	19.78	19.75	19.56			
15	16QAM	36	20	19.80	19.83	19.64			
15	16QAM	36	39	19.64	19.62	19.52	21	2	
15	16QAM	75	0	19.89	19.70	19.59			
15	64QAM	1	0	19.98	19.67	19.93			
15	64QAM	1	37	19.92	20.00	19.94			
15	64QAM	1	74	19.92	19.83	19.94	20	3	
15	64QAM	36	0	18.83	18.76	18.54			
15	64QAM	36	20	18.72	18.55	18.54			
15	64QAM	36	39	18.63	18.61	18.52			
15	64QAM	75	0	18.62	18.74	18.54	18	5	
15	256QAM	1	0	16.93	16.95	16.98			
15	256QAM	1	37	16.91	16.88	16.79			
15	256QAM	1	74	16.94	16.83	16.90			
15	256QAM	36	0	16.79	16.78	16.63	18	5	
15	256QAM	36	20	16.71	16.70	16.45			
15	256QAM	36	39	16.58	16.66	16.45			
15	256QAM	75	0	16.79	16.69	16.55			
Channel				42140	42590	43040	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	21.89	21.89	21.81	23	0	
10	QPSK	1	25	21.86	21.79	21.71			
10	QPSK	1	49	21.66	21.69	21.68			
10	QPSK	25	0	20.84	20.96	20.79			
10	QPSK	25	12	20.71	20.78	20.62	22	1	
10	QPSK	25	25	20.69	20.80	20.55			
10	QPSK	50	0	20.83	20.72	20.74			
10	16QAM	1	0	21.06	21.09	20.96			
10	16QAM	1	25	21.10	21.02	20.92	22	1	
10	16QAM	1	49	21.13	21.06	20.96			
10	16QAM	25	0	19.73	19.74	19.58			
10	16QAM	25	12	19.71	19.76	19.60			
10	16QAM	25	25	19.62	19.63	19.49	21	2	
10	16QAM	50	0	19.79	19.67	19.60			
10	64QAM	1	0	19.98	19.97	19.98			
10	64QAM	1	25	19.88	20.05	19.94			
10	64QAM	1	49	19.89	19.89	20.00	20	3	
10	64QAM	25	0	18.81	18.65	18.59			
10	64QAM	25	12	18.70	18.60	18.55			
10	64QAM	25	25	18.66	18.56	18.61			
10	64QAM	50	0	18.60	18.72	18.57	18	5	
10	256QAM	1	0	16.92	16.90	16.97			
10	256QAM	1	25	16.87	16.92	16.71			
10	256QAM	1	49	16.92	16.79	16.83			
10	256QAM	25	0	16.72	16.80	16.53	18	5	
10	256QAM	25	12	16.72	16.68	16.48			
10	256QAM	25	25	16.61	16.71	16.48			
10	256QAM	50	0	16.77	16.61	16.59			
Channel				42115	42590	43065	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	21.87	21.86	21.78	23	0	
5	QPSK	1	12	21.83	21.80	21.65			
5	QPSK	1	24	21.60	21.63	21.67			
5	QPSK	12	0	20.81	20.87	20.62			
5	QPSK	12	7	20.69	20.73	20.69	22	1	
5	QPSK	12	13	20.68	20.63	20.54			
5	QPSK	25	0	20.91	20.77	20.79			
5	16QAM	1	0	21.14	21.13	20.99			
5	16QAM	1	12	21.11	21.12	20.89	22	1	
5	16QAM	1	24	21.09	21.15	20.95			
5	16QAM	12	0	19.75	19.68	19.64			
5	16QAM	12	7	19.72	19.82	19.62			
5	16QAM	12	13	19.54	19.62	19.56	21	2	
5	16QAM	25	0	19.68	19.63	19.58			
5	64QAM	1	0	19.93	19.97	19.93			
5	64QAM	1	12	19.94	19.96	19.84			
5	64QAM	1	24	19.85	19.83	19.95	20	3	
5	64QAM	12	0	18.89	18.73	18.65			
5	64QAM	12	7	18.68	18.66	18.48			
5	64QAM	12	13	18.62	18.55	18.55			
5	256QAM	25	0	16.68	16.66	16.58	18	5	
5	256QAM	1	0	16.96	16.94	16.92			
5	256QAM	1	12	16.89	16.82	16.69			
5	256QAM	1	24	16.90	16.77	16.90			
5	256QAM	12	0	16.71	16.76	16.55	18	5	
5	256QAM	12	7	16.75	16.68	16.39			
5	256QAM	12	13	16.66	16.64	16.50			
5	256QAM	25	0	16.80	16.70	16.52			

Band 48_FCC Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3520	3569	3641	3692		
20	QPSK	1	0	21.56	21.70	21.72	21.64	23	0
20	QPSK	1	49	21.43	21.65	21.64	21.56		
20	QPSK	1	99	21.49	21.59	21.64	21.45	22	1
20	QPSK	50	0	20.69	20.82	20.84	20.69		
20	QPSK	50	24	20.49	20.60	20.72	20.61	22	1
20	QPSK	50	50	20.47	20.53	20.59	20.54		
20	QPSK	100	0	20.67	20.69	20.72	20.69	22	1
20	16QAM	1	0	20.90	21.02	21.07	20.95		
20	16QAM	1	49	20.94	20.99	21.00	20.85	21	2
20	16QAM	1	99	20.82	20.96	21.04	20.88		
20	16QAM	50	0	19.83	19.68	19.67	19.57	21	2
20	16QAM	50	24	19.54	19.68	19.66	19.51		
20	16QAM	50	50	19.47	19.52	19.55	19.60	21	2
20	16QAM	100	0	19.58	19.55	19.61	19.52		
20	64QAM	1	0	19.86	19.96	19.98	19.90	21	2
20	64QAM	1	49	19.80	19.86	19.91	19.85		
20	64QAM	1	99	19.71	19.83	19.82	19.86	20	3
20	64QAM	50	0	18.63	18.63	18.69	18.49		
20	64QAM	50	24	18.46	18.51	18.56	18.46	18	5
20	64QAM	50	50	18.54	18.54	18.46	18.43		
20	256QAM	1	0	18.50	18.57	18.59	18.47	18	5
20	256QAM	1	49	16.76	16.82	16.79	16.86		
20	256QAM	1	99	16.79	16.83	16.81	16.69	18	5
20	256QAM	1	99	16.74	16.74	16.80	16.86		
20	256QAM	36	0	16.51	16.59	16.60	16.48	18	5
20	256QAM	50	24	16.47	16.50	16.57	16.39		
20	256QAM	50	50	16.54	16.52	16.58	16.48	20	3
20	256QAM	100	0	16.55	16.53	16.63	16.51		
Channel				55315	55800	56160	56655		
Frequency (MHz)				3557.5	3606	3655	3695.5		
15	QPSK	1	0	21.53	21.59	21.62	21.55	23	0
15	QPSK	1	37	21.37	21.54	21.53	21.49		
15	QPSK	1	74	21.48	21.54	21.64	21.36	22	1
15	QPSK	36	0	20.63	20.80	20.78	20.58		
15	QPSK	36	20	20.38	20.50	20.64	20.50	22	1
15	QPSK	36	39	20.36	20.52	20.54	20.54		
15	QPSK	75	0	20.67	20.67	20.67	20.60	22	1
15	16QAM	1	0	20.83	20.83	20.98	20.94		
15	16QAM	1	37	20.83	20.95	20.91	20.73	21	2
15	16QAM	1	74	20.82	20.94	21.02	20.75		
15	16QAM	36	0	19.52	19.60	19.58	19.55	21	2
15	16QAM	36	20	19.42	19.62	19.61	19.48		
15	16QAM	36	39	19.37	19.44	19.55	19.49	21	2
15	16QAM	75	0	19.57	19.52	19.55	19.42		
15	64QAM	1	0	19.80	19.87	19.91	19.82	21	2
15	64QAM	1	37	19.78	19.73	19.90	19.82		
15	64QAM	1	74	19.67	19.81	19.77	19.83	20	3
15	64QAM	36	0	18.57	18.62	18.63	18.47		
15	64QAM	36	20	18.42	18.50	18.46	18.40	18	5
15	64QAM	36	39	18.50	18.52	18.42	18.39		
15	64QAM	75	0	18.46	18.49	18.57	18.41	18	5
15	256QAM	1	0	16.67	16.81	16.67	16.81		
15	256QAM	1	37	16.76	16.72	16.73	16.61	18	5
15	256QAM	1	74	16.63	16.73	16.79	16.77		
15	256QAM	36	0	16.41	16.57	16.50	16.42	18	5
15	256QAM	36	20	16.44	16.47	16.49	16.37		
15	256QAM	36	39	16.50	16.40	16.47	16.36	20	3
15	256QAM	75	0	16.52	16.40	16.52	16.49		
Channel				55290	55815	56165	56660		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	21.56	21.69	21.69	21.53	23	0
10	QPSK	1	25	21.42	21.58	21.58	21.54		
10	QPSK	1	49	21.40	21.58	21.60	21.37	22	1
10	QPSK	25	0	20.59	20.73	20.82	20.58		
10	QPSK	25	12	20.48	20.52	20.70	20.56	22	1
10	QPSK	25	25	20.42	20.48	20.53	20.47		
10	QPSK	50	0	20.57	20.63	20.60	20.61	22	1
10	16QAM	1	0	20.86	21.00	21.03	20.93		
10	16QAM	1	25	20.88	20.92	20.98	20.78	21	2
10	16QAM	1	49	20.74	20.94	21.00	20.61		
10	16QAM	25	0	19.63	19.62	19.67	19.57	21	2
10	16QAM	25	12	19.47	19.58	19.65	19.41		
10	16QAM	25	25	19.39	19.47	19.55	19.55	21	2
10	16QAM	50	0	19.57	19.51	19.55	19.43		
10	64QAM	1	0	19.84	19.87	19.89	19.76	21	2
10	64QAM	1	25	19.78	19.81	19.87	19.77		
10	64QAM	1	49	19.70	19.79	19.76	19.82	20	3
10	64QAM	25	0	18.52	18.58	18.67	18.43		
10	64QAM	25	12	18.45	18.46	18.68	18.42	18	5
10	64QAM	25	25	18.51	18.51	18.45	18.34		
10	64QAM	50	0	18.48	18.52	18.57	18.37	18	5
10	256QAM	1	0	16.68	16.79	16.75	16.77		
10	256QAM	1	25	16.76	16.76	16.72	16.61	18	5
10	256QAM	1	49	16.68	16.67	16.78	16.75		
10	256QAM	25	0	16.44	16.53	16.54	16.38	18	5
10	256QAM	25	12	16.38	16.40	16.48	16.28		
10	256QAM	25	25	16.50	16.47	16.50	16.43	20	3
10	256QAM	50	0	16.45	16.44	16.56	16.48		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	21.49	21.63	21.71	21.53	23	0
5	QPSK	1	12	21.33	21.58	21.61	21.51		
5	QPSK	1	24	21.45	21.55	21.60	21.41	22	1
5	QPSK	12	0	20.67	20.73	20.75	20.63		
5	QPSK	12	7	20.43	20.57	20.67	20.58	22	1
5	QPSK	12	13	20.45	20.50	20.56	20.53		
5	QPSK	25	0	20.64	20.62	20.69	20.61	22	1
5	16QAM	1	0	20.83	20.96	21.00	20.90		
5	16QAM	1	12	20.92	20.90	20.99	20.80	21	2
5	16QAM	1	24	20.76	20.89	20.93	20.84		
5	16QAM	12	0	19.55	19.66	19.60	19.53	21	2
5	16QAM	12	7	19.50	19.59	19.56	19.44		
5	16QAM	12	13	19.37	19.51	19.51	19.54	21	2
5	16QAM	25	0	19.62	19.53	19.58	19.49		
5	64QAM	1	0	19.77	19.84	19.98	19.90	21	2
5	64QAM	1	12	19.68	19.76	19.88	19.82		
5	64QAM	1	24	19.60	19.77	19.81	19.77	20	3
5	64QAM	12	0	18.59	18.54	18.61	18.42		
5	64QAM	12	7	18.42	18.51	18.48	18.44	18	5
5	64QAM	12	13	18.49	18.51	18.37	18.40		
5	256QAM	25	0	16.44	16.51	16.50	16.45	18	5
5	256QAM	1	0	16.64	16.62	16.72	16.65		
5	256QAM	1	12	16.77	16.80	16.70	16.64	18	5
5	256QAM	1	24	16.65	16.73	16.71	16.83		
5	256QAM	12	0	16.42	16.58	16.49	16.40	18	5
5	256QAM	12	7	16.39	16.48	16.53	16.37		
5	256QAM	12	13	16.51	16.45	16.53	16.40	18	5
5	256QAM	25	0	16.48	16.43	16.57	16.50		

Band 42 FCC Part27Q Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990	21.5	0	
Frequency (MHz)				3455	3500	3545			
20	QPSK	1	0	20.66	20.67	20.50			
20	QPSK	1	49	20.44	20.53	20.36	20.5	1	
20	QPSK	1	99	20.37	20.41	20.31			
20	QPSK	50	0	19.64	19.65	19.61			
20	QPSK	50	24	19.50	19.50	19.47	20.5	1	
20	QPSK	50	50	19.41	19.41	19.34			
20	QPSK	100	0	19.65	19.68	19.54			
20	16QAM	1	0	19.88	19.95	19.86	19.5	2	
20	16QAM	1	49	19.64	19.65	19.79			
20	16QAM	1	99	19.90	19.88	19.75			
20	16QAM	50	0	18.58	18.52	18.41	19.5	2	
20	16QAM	50	24	18.47	18.57	18.33			
20	16QAM	50	50	18.41	18.47	18.41			
20	16QAM	100	0	18.48	18.41	18.38	19.5	2	
20	64QAM	1	0	18.75	18.76	18.61			
20	64QAM	1	49	18.69	18.74	18.68			
20	64QAM	1	99	18.71	18.72	18.74	18.5	3	
20	64QAM	50	0	17.47	17.54	17.36			
20	64QAM	50	24	17.41	17.41	17.29			
20	64QAM	50	50	17.37	17.44	17.29	16.5	5	
20	256QAM	100	0	17.45	17.44	17.31			
20	256QAM	1	0	15.72	15.67	15.64			
20	256QAM	1	49	15.62	15.68	15.50	16.5	5	
20	256QAM	1	99	15.56	15.65	15.62			
20	256QAM	50	0	15.52	15.49	15.39			
20	256QAM	50	24	15.35	15.38	15.23	16.5	5	
20	256QAM	50	50	15.39	15.39	15.29			
20	256QAM	100	0	15.49	15.45	15.43			
Channel				43165	43590	43915	21.5	0	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	20.59	20.60	20.47			
15	QPSK	1	37	20.33	20.45	20.36	20.5	1	
15	QPSK	1	74	20.27	20.36	20.27			
15	QPSK	36	0	19.63	19.57	19.59			
15	QPSK	36	20	19.39	19.50	19.45	20.5	1	
15	QPSK	36	39	19.32	19.32	19.24			
15	QPSK	75	0	19.62	19.53	19.52			
15	16QAM	1	0	19.78	19.83	19.81	19.5	2	
15	16QAM	1	37	19.76	19.84	19.74			
15	16QAM	1	74	19.83	19.86	19.85			
15	16QAM	36	0	18.49	18.46	18.41	19.5	2	
15	16QAM	36	20	18.36	18.56	18.24			
15	16QAM	36	39	18.39	18.46	18.37			
15	16QAM	75	0	18.39	18.41	18.27	19.5	2	
15	64QAM	1	0	18.70	18.70	18.60			
15	64QAM	1	37	18.59	18.69	18.67			
15	64QAM	1	74	18.61	18.64	18.68	18.5	3	
15	64QAM	36	0	17.37	17.44	17.36			
15	64QAM	36	20	17.39	17.32	17.19			
15	64QAM	36	39	17.32	17.32	17.19	16.5	5	
15	64QAM	75	0	17.44	17.42	17.20			
15	256QAM	1	0	15.64	15.55	15.53			
15	256QAM	1	37	15.51	15.60	15.40	16.5	5	
15	256QAM	1	74	15.53	15.64	15.62			
15	256QAM	36	0	15.45	15.43	15.31			
15	256QAM	36	20	15.25	15.37	15.12	16.5	5	
15	256QAM	36	39	15.28	15.33	15.26			
15	256QAM	75	0	15.43	15.43	15.42			
Channel				42140	42590	43040	21.5	0	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	20.60	20.57	20.49			
10	QPSK	1	25	20.38	20.46	20.26	20.5	1	
10	QPSK	1	49	20.36	20.40	20.26			
10	QPSK	25	0	19.60	19.60	19.60			
10	QPSK	25	12	19.38	19.40	19.46	20.5	1	
10	QPSK	25	25	19.35	19.31	19.23			
10	QPSK	50	0	19.63	19.61	19.50			
10	16QAM	1	0	19.76	19.89	19.85	20.5	1	
10	16QAM	1	25	19.84	19.80	19.68			
10	16QAM	1	49	19.87	19.84	19.65			
10	16QAM	25	0	18.47	18.45	18.41	19.5	2	
10	16QAM	25	12	18.39	18.46	18.25			
10	16QAM	25	25	18.33	18.40	18.41			
10	16QAM	50	0	18.46	18.33	18.35	19.5	2	
10	64QAM	1	0	18.68	18.67	18.79			
10	64QAM	1	25	18.62	18.72	18.65			
10	64QAM	1	49	18.70	18.67	18.70	18.5	3	
10	64QAM	25	0	17.45	17.53	17.35			
10	64QAM	25	12	17.39	17.34	17.21			
10	64QAM	25	25	17.33	17.34	17.20	16.5	5	
10	64QAM	50	0	17.38	17.36	17.30			
10	256QAM	1	0	15.61	15.57	15.61			
10	256QAM	1	25	15.59	15.59	15.46	16.5	5	
10	256QAM	1	49	15.47	15.62	15.56			
10	256QAM	25	0	15.44	15.44	15.33			
10	256QAM	25	12	15.32	15.28	15.21	16.5	5	
10	256QAM	25	25	15.31	15.31	15.20			
10	256QAM	50	0	15.47	15.36	15.36			
Channel				42115	42590	43065	21.5	0	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	20.65	20.57	20.40			
5	QPSK	1	12	20.35	20.46	20.34	20.5	1	
5	QPSK	1	24	20.35	20.40	20.24			
5	QPSK	12	0	19.60	19.58	19.53			
5	QPSK	12	7	19.44	19.49	19.45	20.5	1	
5	QPSK	12	15	19.37	19.34	19.53			
5	QPSK	25	0	19.63	19.60	19.44			
5	16QAM	1	0	19.81	19.95	19.82	20.5	1	
5	16QAM	1	12	19.84	19.81	19.79			
5	16QAM	1	24	19.78	19.87	19.65			
5	16QAM	12	0	18.51	18.43	18.34	19.5	2	
5	16QAM	12	7	18.44	18.57	18.30			
5	16QAM	12	13	18.38	18.42	18.30			
5	16QAM	25	0	18.44	18.39	18.26	19.5	2	
5	64QAM	1	0	18.73	18.75	18.60			
5	64QAM	1	12	18.64	18.72	18.62			
5	64QAM	1	24	18.67	18.64	18.62	18.5	3	
5	64QAM	12	0	17.43	17.44	17.31			
5	64QAM	12	7	17.39	17.37	17.21			
5	64QAM	12	13	17.29	17.36	17.22	16.5	5	
5	64QAM	25	0	17.36	17.36	17.28			
5	256QAM	1	0	15.68	15.59	15.64			
5	256QAM	1	12	15.55	15.61	15.39	16.5	5	
5	256QAM	1	24	15.52	15.62	15.62			
5	256QAM	12	0	15.44	15.46	15.27			
5	256QAM	12	7	15.28	15.38	15.23	16.5	5	
5	256QAM	12	13	15.32	15.33	15.26			
5	256QAM	25	0	15.40	15.42	15.38			

Band 48_FCC Ant 7										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Middle Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				55340	55830	56150	56640			
Frequency (MHz)				3500	3500	3541	3590			
20	QPSK	1	0	20.37	20.43	20.53	20.39	21.6	0	
20	QPSK	1	49	20.54	20.50	20.41	20.47			
20	QPSK	1	99	20.50	20.48	20.50	20.40			
20	QPSK	50	0	19.83	19.72	19.61	19.78			
20	QPSK	50	24	19.87	19.85	19.85	19.80	21	0.6	
20	QPSK	50	50	19.56	19.53	19.50	19.48			
20	QPSK	100	0	19.76	19.66	19.72	19.69			
20	16QAM	1	0	20.11	20.03	19.92	19.96			
20	16QAM	1	49	20.02	19.94	19.94	19.94	21	0.6	
20	16QAM	1	99	20.09	19.87	19.81	19.89			
20	16QAM	50	0	18.64	18.53	18.63	18.61			
20	16QAM	50	24	18.66	18.58	18.56	18.51			
20	16QAM	50	50	18.51	18.58	18.51	18.53	20	1.6	
20	16QAM	100	0	18.54	18.53	18.63	18.58			
20	64QAM	1	0	19.00	18.90	18.82	18.93			
20	64QAM	1	49	18.94	18.83	18.72	18.82			
20	64QAM	1	99	18.82	18.84	18.75	18.82	20	1.6	
20	64QAM	50	0	17.69	17.57	17.58	17.51			
20	64QAM	50	24	17.63	17.49	17.49	17.43			
20	64QAM	50	50	17.49	17.49	17.61	17.45			
20	64QAM	100	0	17.57	17.49	17.55	17.49	19	2.6	
20	256QAM	1	0	15.89	15.83	15.77	15.85			
20	256QAM	1	49	15.83	15.66	15.69	15.63			
20	256QAM	1	99	15.74	15.85	15.72	15.78			
20	256QAM	50	0	15.69	15.49	15.57	15.52	17	4.6	
20	256QAM	50	24	15.57	15.36	15.44	15.38			
20	256QAM	50	50	15.53	15.43	15.51	15.51			
20	256QAM	100	0	15.54	15.56	15.61	15.55			
Channel				55310	55820	56160	56655	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3527.5	3608	3642	3692.5			
15	QPSK	1	0	20.45	20.31	20.46	20.23	21.6	0	
15	QPSK	1	37	20.46	20.43	20.26	20.33			
15	QPSK	1	74	20.37	20.41	20.41	20.27			
15	QPSK	36	0	19.78	19.72	19.54	19.73			
15	QPSK	36	20	19.65	19.47	19.46	19.60	21	0.6	
15	QPSK	36	39	19.56	19.42	19.47	19.36			
15	QPSK	75	0	19.74	19.60	19.62	19.60			
15	16QAM	1	0	20.06	19.98	19.87	19.92			
15	16QAM	1	37	19.99	19.76	19.95	19.80	21	0.6	
15	16QAM	1	74	20.01	19.79	19.78	19.89			
15	16QAM	36	0	18.56	18.50	18.63	18.57			
15	16QAM	36	20	18.63	18.43	18.46	18.36			
15	16QAM	36	39	18.49	18.56	18.50	18.53	20	1.6	
15	16QAM	75	0	18.42	18.46	18.62	18.47			
15	64QAM	1	0	18.93	18.79	18.79	18.84			
15	64QAM	1	37	18.82	18.79	18.61	18.80			
15	64QAM	1	74	18.78	18.77	18.71	18.75	20	1.6	
15	64QAM	36	0	17.67	17.52	17.57	17.43			
15	64QAM	36	20	17.63	17.40	17.48	17.41			
15	64QAM	36	39	17.42	17.46	17.59	17.45			
15	64QAM	75	0	17.55	17.46	17.50	17.43	19	2.6	
15	256QAM	1	0	15.85	15.79	15.71	15.80			
15	256QAM	1	37	15.76	15.56	15.69	15.54			
15	256QAM	1	74	15.63	15.62	15.67	15.71			
15	256QAM	36	0	15.69	15.38	15.45	15.43	17	4.6	
15	256QAM	36	20	15.53	15.31	15.38	15.34			
15	256QAM	36	39	15.49	15.34	15.43	15.39			
15	256QAM	75	0	15.44	15.54	15.54	15.47			
Channel				55290	55915	56170	56695	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3607.5	3642.5	3695			
10	QPSK	1	0	20.43	20.37	20.47	20.24	21.6	0	
10	QPSK	1	25	20.39	20.36	20.32	20.33			
10	QPSK	1	49	20.35	20.35	20.41	20.29			
10	QPSK	25	0	19.82	19.62	19.49	19.72			
10	QPSK	25	12	19.56	19.43	19.43	19.55	21	0.6	
10	QPSK	25	25	19.45	19.48	19.49	19.45			
10	QPSK	50	0	19.70	19.57	19.67	19.67			
10	16QAM	1	0	20.07	19.92	19.86	19.86			
10	16QAM	1	25	19.94	19.74	19.92	19.78	21	0.6	
10	16QAM	1	49	20.04	19.87	19.71	19.82			
10	16QAM	25	0	18.54	18.53	18.60	18.60			
10	16QAM	25	12	18.64	18.44	18.56	18.41			
10	16QAM	25	25	18.48	18.57	18.42	18.43	20	1.6	
10	16QAM	50	0	18.44	18.41	18.61	18.46			
10	64QAM	1	0	19.99	19.79	19.75	19.83			
10	64QAM	1	25	18.82	18.81	18.65	18.76			
10	64QAM	1	49	18.81	18.74	18.73	18.72	19	2.6	
10	64QAM	25	0	17.86	17.47	17.49	17.41			
10	64QAM	25	12	17.53	17.39	17.39	17.42			
10	64QAM	25	25	17.46	17.47	17.61	17.34			
10	64QAM	50	0	17.55	17.45	17.55	17.44	17	4.6	
10	256QAM	1	0	15.85	15.80	15.66	15.83			
10	256QAM	1	25	15.61	15.60	15.59	15.63			
10	256QAM	1	49	15.68	15.80	15.70	15.78			
10	256QAM	25	0	15.58	15.46	15.54	15.42	17	4.6	
10	256QAM	25	12	15.51	15.33	15.36	15.27			
10	256QAM	25	25	15.47	15.36	15.41	15.45			
10	256QAM	50	0	15.49	15.48	15.60	15.47			
Channel				55260	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3552.5	3607	3643	3697.5			
5	QPSK	1	0	20.45	20.39	20.53	20.28	21.6	0	
5	QPSK	1	12	20.50	20.43	20.30	20.37			
5	QPSK	1	24	20.37	20.36	20.35	20.30			
5	QPSK	12	0	19.81	19.63	19.57	19.71			
5	QPSK	12	7	19.55	19.54	19.44	19.54	21	0.6	
5	QPSK	12	13	19.51	19.51	19.42	19.46			
5	QPSK	25	0	19.75	19.61	19.72	19.63			
5	16QAM	1	0	20.07	19.97	19.85	19.90			
5	16QAM	1	12	19.98	19.77	19.67	19.80	21	0.6	
5	16QAM	1	24	20.07	19.84	19.75	19.88			
5	16QAM	12	0	18.64	18.42	18.54	18.57			
5	16QAM	12	7	18.61	18.50	18.52	18.47			
5	16QAM	12	13	18.43	18.53	18.39	18.47	20	1.6	
5	16QAM	25	0	18.45	18.43	18.53	18.53			
5	64QAM	1	0	18.90	18.82	18.78	18.87			
5	64QAM	1	12	18.91	18.73	18.65	18.78			
5	64QAM	1	24	18.75	18.72	18.72	18.81	20	1.6	
5	64QAM	12	0	17.59	17.46	17.58	17.40			
5	64QAM	12	7	17.52	17.43	17.46	17.33			
5	64QAM	12	13	17.48	17.42	17.59	17.37			
5	64QAM	25	0	17.49	17.47	17.46	17.37	19	2.6	
5	256QAM	1	0	15.79	15.75	15.74	15.78			
5	256QAM	1	12	15.82	15.59	15.58	15.59			
5	256QAM	1	24	15.68	15.74	15.62	15.76	17	4.6	
5	256QAM	12	0	15.68	15.37	15.46	15.44			
5	256QAM	12	7	15.51	15.31	15.35	15.26			
5	256QAM	12	13	15.43	15.33	15.51	15.41			
5	256QAM	25	0	15.43	15.55	15.55	15.51			



Band 38 Ant 10											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)		
Channel											
Frequency (MHz)											
20	QPSK	1	0	22.75	22.75	22.75	22.75	24	0		
20	QPSK	1	48	22.81	22.81	22.84	22.84				
20	QPSK	50	0	22.46	22.51	22.47	22.47	23	1		
20	QPSK	50	24	21.54	21.71	21.54	21.54				
20	HQAM	1	0	21.34	21.59	21.55	21.55	23	1		
20	HQAM	1	48	21.34	21.59	21.55	21.55				
20	HQAM	1	96	21.30	22.02	21.87	21.87	22	2		
20	HQAM	50	0	20.63	20.76	20.57	20.57				
20	HQAM	50	24	20.57	20.59	20.50	20.50	21	3		
20	HQAM	50	50	20.47	20.58	20.50	20.50				
20	HQAM	100	0	20.26	20.27	20.26	20.26	22	2		
20	HQAM	100	0	20.01	20.05	20.05	20.05				
20	HQAM	1	48	20.76	20.84	20.83	20.83	21	3		
20	HQAM	1	96	20.75	20.89	20.86	20.86				
20	HQAM	50	0	19.54	19.64	19.53	19.53	19	5		
20	HQAM	50	24	19.51	19.57	19.51	19.51				
20	HQAM	50	50	19.57	19.57	19.45	19.45	19	5		
20	HQAM	100	0	19.58	19.59	19.47	19.47				
20	HQAM	100	0	19.58	19.59	19.47	19.47	19	5		
20	HQAM	1	0	17.75	17.84	17.89	17.89				
20	HQAM	1	48	17.77	17.86	17.74	17.74	19	5		
20	HQAM	1	96	17.79	17.77	17.85	17.85				
20	HQAM	50	0	17.57	17.62	17.52	17.52	19	5		
20	HQAM	50	24	17.55	17.57	17.37	17.37				
20	HQAM	50	50	17.57	17.59	17.42	17.42	19	5		
20	HQAM	100	0	17.57	17.59	17.42	17.42				
20	HQAM	100	0	17.57	17.59	17.42	17.42				
20	HQAM	100	0	17.57	17.59	17.42	17.42				
Channel											
Frequency (MHz)											
15	QPSK	1	0	22.72	22.69	22.72	22.72	24	0		
15	QPSK	1	37	22.89	22.81	22.43	22.43				
15	QPSK	1	74	22.36	22.86	22.46	22.46	23	1		
15	QPSK	36	0	21.61	21.69	21.61	21.61				
15	QPSK	36	20	21.43	21.69	21.45	21.45	23	1		
15	QPSK	36	38	21.57	21.67	21.65	21.65				
15	QPSK	75	0	21.62	21.77	21.65	21.65	23	1		
15	HQAM	1	0	21.34	22.05	21.94	21.94				
15	HQAM	1	37	21.51	21.59	21.52	21.52	23	1		
15	HQAM	1	74	21.89	21.59	21.84	21.84				
15	HQAM	36	0	20.58	20.71	20.46	20.46	22	2		
15	HQAM	36	20	20.53	20.56	20.50	20.50				
15	HQAM	36	36	20.37	20.52	20.40	20.40	22	2		
15	HQAM	75	0	20.37	20.56	20.50	20.50				
15	HQAM	75	0	20.30	20.56	20.50	20.50	21	3		
15	HQAM	1	37	20.89	20.84	20.81	20.81				
15	HQAM	1	74	20.81	20.84	20.81	20.81	22	2		
15	HQAM	36	0	19.54	19.59	19.53	19.53				
15	HQAM	36	20	19.50	19.54	19.41	19.41	21	3		
15	HQAM	36	38	19.57	19.57	19.44	19.44				
15	HQAM	75	0	19.54	19.57	19.44	19.44	19	5		
15	HQAM	75	0	19.54	19.57	19.44	19.44				
15	HQAM	1	0	17.69	17.62	17.83	17.83	19	5		
15	HQAM	1	37	17.67	17.66	17.73	17.73				
15	HQAM	1	74	17.72	17.76	17.77	17.77	19	5		
15	HQAM	36	0	17.55	17.51	17.52	17.52				
15	HQAM	36	20	17.51	17.54	17.50	17.50	19	5		
15	HQAM	36	38	17.49	17.52	17.53	17.53				
15	HQAM	75	0	17.56	17.52	17.50	17.50	19	5		
15	HQAM	75	0	17.56	17.52	17.50	17.50				
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.54	22.73	22.62	22.62	24	0		
5	QPSK	1	24	22.34	22.69	22.62	22.62				
5	QPSK	1	48	22.38	22.60	22.47	22.47	23	1		
5	QPSK	12	0	21.88	21.88	21.71	21.71				
5	QPSK	12	7	21.52	21.86	21.43	21.43	23	1		
5	QPSK	12	13	21.56	21.61	21.55	21.55				
5	QPSK	26	0	21.82	21.87	21.69	21.69	23	1		
5	HQAM	1	0	21.82	21.87	21.69	21.69				
5	HQAM	1	12	21.86	21.86	21.83	21.83	23	1		
5	HQAM	1	24	21.86	22.01	21.83	21.83				
5	HQAM	12	0	20.60	20.76	20.54	20.54	22	2		
5	HQAM	12	7	20.46	20.67	20.50	20.50				
5	HQAM	12	13	20.45	20.48	20.47	20.47	22	2		
5	HQAM	26	0	20.85	20.58	20.46	20.46				
5	HQAM	1	0	20.76	20.85	20.79	20.79	21	3		
5	HQAM	1	12	20.69	20.82	20.86	20.86				
5	HQAM	1	24	20.67	20.82	20.87	20.87	22	2		
5	HQAM	12	0	19.86	19.83	19.40	19.40				
5	HQAM	12	7	19.87	19.87	19.41	19.41	21	3		
5	HQAM	12	13	19.49	19.54	19.45	19.45				
5	HQAM	26	0	19.57	19.67	19.47	19.47	19	5		
5	HQAM	26	0	19.57	19.67	19.47	19.47				
5	HQAM	1	0	17.87	17.74	17.81	17.81	19	5		
5	HQAM	1	12	17.76	17.77	17.89	17.89				
5	HQAM	1	24	17.73	17.76	17.81	17.81	19	5		
5	HQAM	12	0	17.86	17.86	17.85	17.85				
5	HQAM	12	7	17.48	17.56	17.35	17.35	19	5		
5	HQAM	12	13	17.51	17.53	17.37	17.37				
5	HQAM	26	0	17.52	17.55	17.51	17.51	19	5		
5	HQAM	26	0	17.52	17.55	17.51	17.51				

Band 41 Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	39750	40185	40620	41055	24	0
20	QPSK	1	48	23.18	23.14	23.05	23.13		
20	QPSK	50	0	23.17	23.03	22.97	23.04	23	1
20	QPSK	50	24	22.36	22.09	22.61	22.14		
20	QPSK	50	50	22.13	22.03	22.04	22.08	23	1
20	QPSK	100	0	22.34	22.21	22.15	22.23		
20	16QAM	1	0	22.81	22.50	22.40	22.48	22	2
20	16QAM	1	96	22.63	22.46	22.35	22.48		
20	16QAM	50	0	21.25	21.13	21.13	21.20	22	2
20	16QAM	50	24	21.23	21.13	20.96	21.01		
20	16QAM	50	50	21.14	21.06	20.89	20.97	22	2
20	16QAM	100	0	21.22	21.15	21.00	21.09		
20	16QAM	100	0	21.52	21.42	21.37	21.45	22	2
20	16QAM	1	48	21.47	21.40	21.30	21.40		
20	16QAM	1	96	21.35	21.43	21.31	21.33	21	3
20	16QAM	50	0	20.23	20.08	20.09	20.08		
20	16QAM	50	24	20.12	20.04	19.95	19.99	21	3
20	16QAM	50	50	20.13	20.03	20.03	19.97		
20	16QAM	100	0	20.14	20.02	19.97	19.99	19	5
20	16QAM	100	0	19.42	18.40	18.21	18.21		
20	16QAM	1	0	18.33	18.30	18.21	18.27	19	5
20	16QAM	1	48	18.31	18.37	18.28	18.23		
20	16QAM	1	96	18.30	18.39	18.32	18.35	19	5
20	16QAM	50	24	18.14	17.91	18.01	17.98		
20	16QAM	50	50	18.10	17.89	17.97	18.04	19	5
20	16QAM	100	0	18.14	18.11	18.06	18.10		
Channel									
Frequency (MHz)									
15	QPSK	1	0	39725	40173	40620	41068	24	0
15	QPSK	1	37	23.19	23.13	23.04	23.12		
15	QPSK	1	74	23.12	22.97	22.86	22.96	23	1
15	QPSK	50	0	22.35	22.32	22.17	22.23		
15	QPSK	50	24	22.13	22.03	22.04	22.08	23	1
15	QPSK	100	0	22.36	22.23	22.17	22.25		
15	QPSK	75	0	22.22	22.07	22.08	22.20	23	1
15	16QAM	1	0	22.58	22.24	22.32	22.44		
15	16QAM	1	22	22.51	22.44	22.32	22.33	22	2
15	16QAM	1	74	22.58	22.38	22.22	22.45		
15	16QAM	50	0	21.23	21.09	20.99	21.10	22	2
15	16QAM	50	24	21.23	21.13	20.96	21.01		
15	16QAM	50	50	21.03	20.97	20.80	21.02	21	3
15	16QAM	100	0	21.22	21.14	21.00	21.09		
15	16QAM	100	0	21.47	21.37	21.31	21.32	21	3
15	16QAM	1	37	21.38	21.27	21.16	21.37		
15	16QAM	1	74	21.35	21.21	21.07	21.30	22	2
15	16QAM	36	0	20.20	20.04	19.99	20.00		
15	16QAM	36	20	20.08	19.92	19.83	19.91	21	3
15	16QAM	36	50	19.95	19.81	19.71	19.80		
15	16QAM	75	0	20.02	19.88	19.87	19.91	19	5
15	25QAM	1	0	18.28	18.24	18.15	18.25		
15	25QAM	1	37	18.34	18.24	18.11	18.22	19	5
15	25QAM	1	74	18.28	18.28	18.24	18.15		
15	25QAM	50	0	18.07	17.87	17.90	17.91	19	5
15	25QAM	50	24	18.07	17.81	17.85	17.79		
15	25QAM	50	50	18.00	17.83	17.89	17.84	19	5
15	25QAM	100	0	18.00	17.86	17.90	18.00		
Channel									
Frequency (MHz)									
10	QPSK	1	0	39700	40160	40620	41080	24	0
10	QPSK	1	25	23.19	23.10	22.95	23.05		
10	QPSK	1	50	23.19	23.10	22.95	23.05	23	1
10	QPSK	25	0	22.30	22.25	22.03	22.11		
10	QPSK	25	12	22.31	22.00	21.92	22.04	23	1
10	QPSK	50	0	22.28	22.08	22.11	22.20		
10	16QAM	1	0	22.53	22.40	22.37	22.41	23	1
10	16QAM	1	25	22.49	22.41	22.30	22.36		
10	16QAM	1	48	22.60	22.41	22.30	22.44	22	2
10	16QAM	50	0	21.30	21.02	20.99	21.10		
10	16QAM	50	12	20.11	20.05	19.98	20.03	22	2
10	16QAM	25	0	20.03	21.05	20.76	20.86		
10	16QAM	25	12	20.04	20.54	20.38	20.62	21	3
10	16QAM	1	0	21.43	21.31	21.28	21.35		
10	16QAM	1	25	21.35	21.36	21.07	21.37	22	2
10	16QAM	1	50	21.34	21.31	21.07	21.33		
10	16QAM	25	0	20.19	20.04	20.03	19.95	21	3
10	16QAM	25	12	20.08	19.94	19.87	19.89		
10	16QAM	25	25	20.08	19.91	19.81	19.84	19	5
10	16QAM	50	0	20.10	19.88	19.83	20.00		
10	16QAM	50	12	20.05	19.82	19.81	19.99	21	3
10	16QAM	1	25	18.30	18.22	18.08	18.10		
10	25QAM	1	48	18.18	18.24	18.20	18.13	19	5
10	25QAM	1	96	18.18	18.24	18.20	18.13		
10	25QAM	25	12	18.04	17.87	17.83	17.86	19	5
10	25QAM	25	25	17.98	17.88	17.84	17.99		
10	25QAM	50	0	18.00	17.86	17.90	18.00	19	5
10	25QAM	25	12	18.02	17.86	17.88	17.87		
10	25QAM	25	25	18.02	17.86	17.89	17.85	19	5
10	25QAM	50	0	18.00	17.86	17.89	18.00		
Channel									
Frequency (MHz)									
5	QPSK	1	0	39675	40140	40620	41065	24	0
5	QPSK	1	12	23.20	23.08	22.93	23.04		
5	QPSK	1	24	23.14	23.00	22.87	22.95	23	1
5	QPSK	12	0	22.38	22.24	22.07	22.12		
5	QPSK	12	7	22.17	21.98	21.89	22.07	23	1
5	QPSK	25	0	22.35	22.01	21.98	22.06		
5	QPSK	25	0	22.32	22.07	22.04	22.12	23	1
5	16QAM	1	0	22.59	22.39	22.28	22.34		
5	16QAM	1	12	22.58	22.37	22.28	22.33	22	2
5	16QAM	1	24	22.60	22.33	22.24	22.28		
5	16QAM	12	7	21.17	21.07	20.85	21.07	22	2
5	16QAM	12	13	21.03	20.96	20.85	20.90		
5	16QAM	25	0	21.23	21.06	20.92	21.10	22	2
5	16QAM	1	0	21.46	21.37	21.30	21.37		
5	16QAM	1	12	21.45	21.32	21.16	21.39	21	3
5	16QAM	1	24	21.42	21.34	21.12	21.33		
5	16QAM	12	0	20.20	19.98	20.05	20.02	19	5
5	16QAM	12	7	20.09	19.90	19.83	19.91		
5	16QAM	12	13	20.09	19.90	20.01	19.84	21	3
5	16QAM	25	0	20.04	19.93	19.88	19.99		
5	16QAM	25	7	19.97	19.82	19.81	19.93	19	5
5	25QAM	1	12	18.23	18.14	18.08	18.10		
5	25QAM	1	24	18.22	18.31	18.25	18.12	19	5
5	25QAM	12	0	18.15	17.88	17.87	18.02		
5	25QAM	12	7	18.08	17.84	17.88	17.87	19	5
5	25QAM	12	13	18.02	17.86	17.89	17.85		

Reduced Power Mode for ECI6

GSM850 Ant 0		Burst Average Power (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	Tune-up Limit (dBm)
GSM 1 Tx slot		32.02	31.98	31.94	33.50	23.02	22.98	
GPRS 1 Tx slot		32.01	32.02	31.91	33.50	23.01	23.02	24.50
GPRS 2 Tx slots		31.22	31.23	31.16	32.50	25.22	25.23	26.50
GPRS 3 Tx slots		29.41	29.42	29.33	30.50	25.15	25.16	26.24
GPRS 4 Tx slots		28.20	28.25	28.13	29.50	25.20	25.25	26.50
EDGE 1 Tx slot		26.38	26.43	26.45	27.50	17.38	17.43	18.50
EDGE 2 Tx slots		25.14	25.23	25.37	26.50	19.14	19.23	20.50
EDGE 3 Tx slots		22.91	22.98	23.07	24.00	18.65	18.72	19.74
EDGE 4 Tx slots		21.58	21.66	21.69	22.50	18.56	18.69	19.50

GSM1900 Ant 0		Burst Average Power (dBm)			Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		512	661	810	512	661	810	
Frequency (MHz)		1850.2	1860	1909.8	1850.2	1860	1909.8	Tune-up Limit (dBm)
GSM 1 Tx slot		28.85	28.84	29.01	30.50	19.85	19.84	
GPRS 1 Tx slot		28.85	28.86	28.99	30.50	19.85	19.86	21.50
GPRS 2 Tx slots		28.23	28.21	28.35	29.50	22.23	22.21	23.50
GPRS 3 Tx slots		26.55	26.46	26.65	27.50	22.29	22.20	23.24
GPRS 4 Tx slots		25.44	25.66	25.54	26.50	22.44	22.66	23.50
EDGE 1 Tx slot		25.62	25.48	25.70	26.50	16.62	16.48	17.50
EDGE 2 Tx slots		24.47	24.31	24.52	25.50	18.47	18.31	19.50
EDGE 3 Tx slots		22.24	22.06	22.39	23.00	17.98	17.80	18.74
EDGE 4 Tx slots		21.04	20.77	20.99	22.00	18.04	17.77	19.00

Band		WCDMA II Ant 0			Tune-up Limit (dBm)	WCDMA IV Ant 0			Tune-up Limit (dBm)	WCDMA V Ant 0			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)		1824.4	1860	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMA 12.2kbps	22.23	22.37	22.33	23.90	21.60	21.78	21.81	23.40	23.09	23.38	23.36	24.00
3GPP Rel 99	RMC 12.2kbps	22.23	22.58	22.44	23.90	21.71	22.02	21.90	23.40	23.22	23.53	23.45	24.00
3GPP Rel 6	HSDPA Subtest-1	21.45	21.45	21.43	22.90	20.78	20.86	20.89	22.40	22.29	22.44	22.39	23.00
3GPP Rel 6	HSDPA Subtest-2	21.38	21.42	21.46	22.90	20.83	20.89	20.86	22.40	22.29	22.43	22.44	23.00
3GPP Rel 6	HSDPA Subtest-3	20.85	21.01	20.91	22.40	20.49	20.56	20.31	21.90	21.90	21.95	21.87	22.50
3GPP Rel 6	HSDPA Subtest-4	20.86	21.01	20.92	22.40	20.32	20.49	20.25	21.90	21.84	21.91	21.89	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.47	21.34	21.41	22.90	20.86	20.91	20.77	22.40	22.36	22.33	22.31	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.26	21.40	21.26	22.90	20.72	20.78	20.80	22.40	22.26	22.32	22.30	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	20.80	21.01	20.82	22.40	20.35	20.30	20.20	21.90	21.83	21.89	21.78	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	20.75	20.87	20.82	22.40	20.13	20.46	20.19	21.90	21.76	21.84	21.77	22.50
3GPP Rel 6	HSUPA Subtest-1	21.23	21.45	21.44	22.90	20.65	20.87	20.76	22.40	22.25	22.40	22.34	23.00
3GPP Rel 6	HSUPA Subtest-2	19.40	19.41	19.30	20.90	18.80	18.95	18.81	20.40	20.35	20.48	20.36	21.00
3GPP Rel 6	HSUPA Subtest-3	20.42	20.56	20.42	21.90	19.82	20.09	19.74	21.40	21.35	21.58	21.37	22.00
3GPP Rel 6	HSUPA Subtest-4	19.23	19.49	19.38	20.90	18.59	18.85	18.82	20.40	20.16	20.41	20.30	21.00
3GPP Rel 6	HSUPA Subtest-5	21.14	21.45	21.49	22.90	20.64	20.82	20.83	22.40	22.16	22.32	22.43	23.00
3GPP Rel 7	HSPA+ (15QAM) Subtest-1	18.89	19.02	19.04	20.40	18.35	18.36	18.55	19.90	19.96	19.93	20.04	20.50

Band 12 Ant 0									
BAW (MHz)	Modulation	RIS Rise	RIS Offset	Power (dBm) Ch1/Freq	Power (dBm) Ch2/Freq	Power (dBm) Ch3/Freq	Turn-on (ms)	MFR (dB)	
Channel				23060	25050	25130			
Frequency (MHz)				23060	25050	25130			
10	SPKRS	1	0	23.03	23.09	23.01			
10	SPKRS	1	28	22.88	22.93	22.83			24
10	SPKRS	1	56	22.78	22.87	22.73			
10	SPKRS	25	0	22.04	22.10	22.04			
10	SPKRS	25	18	21.87	21.94	21.80			23
10	SPKRS	25	36	21.69	21.76	21.63			
10	SPKRS	50	0	22.03	22.12	22.00			
10	HOAGI	1	0	22.23	22.42	22.24			
10	HOAGI	1	28	22.13	22.30	22.25			23
10	HOAGI	1	48	22.22	22.33	22.20			
10	HOAGI	25	0	20.96	21.00	20.84			
10	HOAGI	25	18	20.85	20.92	20.73			
10	HOAGI	25	36	20.80	20.91	20.83			22
10	HOAGI	50	0	20.83	20.87	20.69			
10	HOAGI	50	28	20.74	20.78	20.59			
10	HOAGI	50	48	20.68	20.74	20.63			
10	HOAGI	1	26	21.02	21.24	21.11			21
10	HOAGI	1	48	21.06	21.10	21.00			
10	HOAGI	25	0	19.78	19.78	19.78			
10	HOAGI	25	12	19.78	19.92	19.74			21
10	HOAGI	25	25	19.90	19.84	19.83			
10	HOAGI	25	36	19.84	19.87	19.78			
10	HOAGI	1	0	18.09	18.19	18.09			
10	HOAGI	1	28	18.02	18.10	18.04			19
10	HOAGI	1	48	18.04	18.07	18.06			
10	HOAGI	25	0	17.81	18.01	17.81			
10	HOAGI	25	12	17.76	17.79	17.73			
10	HOAGI	25	25	17.72	17.72	17.72			19
10	HOAGI	25	50	17.96	17.93	17.83			

S	Frequency	701.6	707.6	713.6	719.6	(dB)
S	DPK1	1	0	22.78	23.04	22.90
S	DPK2	1	0	22.78	22.78	23.05
S	DPK3	1	24	22.71	22.79	22.71
S	DPK12	5	21.96	20.04	20.04	21.96
S	DPK13	5	21.93	21.93	21.93	21.93
S	DPK14	12	21.13	21.70	21.74	21.13
S	DPK5	25	5	21.91	21.98	21.89
S	DPK15	5	21.91	21.91	21.91	21.91
S	DPK16	1	22	22.16	22.16	22.16
S	MDM1	1	24	22.16	22.25	22.25
S	MDM2	1	24	22.07	22.19	22.11
S	MDM3	12	5	20.83	20.91	20.73
S	MDM4	12	5	20.84	20.84	20.84
S	MDM5	12	19	20.76	20.83	20.73
S	MDM6	25	5	20.73	20.78	20.84
S	MDM7	5	20.84	21.13	21.07	20.84
S	MDM8	1	12	20.94	21.18	21.02
S	MDM9	1	24	21.01	20.97	21.07
S	MDM10	1	12	20.97	21.07	21.07
S	MDM11	12	7	19.72	19.85	19.69
S	MDM12	7	19.72	19.72	19.72	19.72
S	MDM13	12	19	19.85	19.77	19.69
S	MDM14	25	0	19.86	19.83	19.67
S	MDM15	12	19	19.86	19.86	19.86
S	2SDM10	1	12	17.92	18.00	17.95
S	2SDM11	24	17.93	18.00	18.00	17.93
S	2SDM12	12	17.93	17.93	17.93	17.93
S	2SDM13	12	7	17.85	17.87	17.87
S	2SDM14	12	13	17.79	17.78	17.64
S	2SDM15	12	13	17.79	17.79	17.79

Frequency		700.5	707.5	714.5	Inst.	Ref.
3	QPSK 1 0	22.88	22.99	22.87		
3	QPSK 1 8	22.80	22.81	22.79	24	0
3	QPSK 8 0	22.73	22.82	22.80		
3	QPSK 8 8	21.92	21.99	21.94		
3	QPSK 8 4	21.74	21.89	21.75	23	1
3	QPSK 16 0	21.81	21.73	21.89		
3	QPSK 16 8	21.89	21.88	21.89		
3	16QAM 1 0	22.08	22.32	22.08		
3	16QAM 1 8	22.22	22.14	22.18	23	1
3	16QAM 8 0	22.14	22.29	22.19		
3	16QAM 8 8	20.71	20.82	20.71		
3	16QAM 8 4	20.81	20.82	20.75	22	2
3	16QAM 16 0	20.85	20.80	20.85		
3	16QAM 16 8	20.76	20.78	20.77		
3	16QAM 16 4	21.08	21.20	21.07		
3	16QAM 16 0	21.16	21.04	21.04	22	2
3	64QAM 1 14	21.00	20.95	21.01		
3	64QAM 8 0	19.91	19.94	19.85		
3	64QAM 8 8	19.73	19.79	19.82		
3	64QAM 16 0	19.77	19.68	19.69	21	3
3	64QAM 16 8	19.68	19.78	19.69		
3	256QAM 1 0	18.94	18.93	18.98		
3	256QAM 1 8	18.91	18.91	18.98		
3	256QAM 1 4	18.01	18.03	18.01	19	5
3	256QAM 1 6	17.76	17.79	17.76		
3	256QAM 1 8	17.76	17.79	17.76		
3	256QAM 7 7	17.71	17.79	17.73	19	5

Channel		23017	23055	23173	Turn-on Ref. (dB)	MFR (dB)
1A	Frequency (Hz)	1	5	22.94	23.03	23.97
1A	OPSR	1	3	22.73	22.88	22.67
1A	OPSR	1	3	22.67	22.77	22.70
1A	OPSR	1	3	22.84	22.90	22.84
1A	OPSR	1	3	22.84	22.75	22.63
1A	OPSR	3	3	22.52	22.63	22.45
1A	OPSR	3	3	21.98	21.81	21.65
1A	WQAM	1	1	22.14	22.27	22.19
1A	WQAM	1	3	22.13	22.21	22.06
1A	WQAM	1	3	22.08	22.26	22.16
1A	WQAM	1	3	22.19	22.26	22.06
1A	WQAM	3	3	21.99	22.17	21.91
1A	WQAM	3	3	21.84	22.16	22.02
1A	WQAM	3	3	20.75	21.82	21.67
1A	WQAM	1	0	21.03	21.19	21.05
1A	WQAM	1	3	21.36	21.11	21.08
1A	WQAM	1	3	21.39	21.12	21.04
1A	WQAM	3	0	20.90	21.12	21.04
1A	WQAM	3	1	20.82	20.97	20.99
1A	WQAM	3	3	20.52	20.87	20.85
1A	WQAM	3	3	19.76	20.71	20.59
1A	23040Hz	1	0	18.04	18.06	18.07
1A	23040Hz	1	3	17.50	18.00	17.96
1A	23040Hz	1	3	17.04	17.56	17.50
1A	23040Hz	3	0	17.71	17.86	17.72
1A	23040Hz	3	1	17.70	17.85	17.80
1A	23040Hz	3	3	17.78	17.74	17.74

[illegible]

Band 13 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mod Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.66	22.66	22.66	24	0	
10	QPSK	1	25	22.61	22.61	22.61			
10	QPSK	1	49	22.66	22.66	22.66			
10	QPSK	25	0	22.66	22.66	22.66	23	1	
10	QPSK	25	12	21.84	21.84	21.84			
10	QPSK	25	25	21.81	21.81	21.81			
10	QPSK	50	0	21.85	21.85	21.85	23	1	
10	16QAM	1	0	22.26	22.26	22.26			
10	16QAM	1	25	22.24	22.24	22.24			
10	16QAM	1	49	22.26	22.26	22.26	22	2	
10	16QAM	25	0	20.94	20.94	20.94			
10	16QAM	25	12	20.90	20.90	20.90			
10	16QAM	25	25	20.90	20.90	20.90	22	2	
10	16QAM	50	0	20.79	20.79	20.79			
10	16QAM	50	0	21.14	21.14	21.14			
10	64QAM	1	0	21.06	21.06	21.06	22	2	
10	64QAM	1	49	21.06	21.06	21.06			
10	64QAM	25	0	19.85	19.85	19.85			
10	64QAM	25	12	19.75	19.75	19.75	21	3	
10	64QAM	25	25	19.71	19.71	19.71			
10	64QAM	50	0	19.85	19.85	19.85			
10	256QAM	1	0	19.66	19.66	19.66	19	5	
10	256QAM	1	25	19.64	19.64	19.64			
10	256QAM	1	49	17.69	17.69	17.69			
10	256QAM	25	0	17.69	17.69	17.69	19	5	
10	256QAM	25	12	17.78	17.78	17.78			
10	256QAM	25	25	17.79	17.79	17.79			
10	256QAM	50	0	17.70	17.70	17.70			

Band 14 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mod Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.74	22.74	22.74	24	0	
10	QPSK	1	25	22.69	22.69	22.69			
10	QPSK	1	49	22.60	22.60	22.60			
10	QPSK	25	0	21.79	21.79	21.79	23	1	
10	QPSK	25	12	21.67	21.67	21.67			
10	QPSK	25	25	21.55	21.55	21.55			
10	QPSK	50	0	21.73	21.73	21.73	23	1	
10	16QAM	1	0	22.03	22.03	22.03			
10	16QAM	1	25	22.05	22.05	22.05			
10	16QAM	1	49	22.00	22.00	22.00	22	2	
10	16QAM	25	0	20.70	20.70	20.70			
10	16QAM	25	12	20.62	20.62	20.62			
10	16QAM	25	25	20.59	20.59	20.59	22	2	
10	16QAM	50	0	20.56	20.56	20.56			
10	16QAM	50	0	20.96	20.96	20.96			
10	64QAM	1	0	20.94	20.94	20.94	22	2	
10	64QAM	1	25	20.90	20.90	20.90			
10	64QAM	1	49	19.85	19.85	19.85			
10	64QAM	25	0	19.85	19.85	19.85	21	3	
10	64QAM	25	12	19.57	19.57	19.57			
10	64QAM	25	25	19.48	19.48	19.48			
10	64QAM	50	0	19.54	19.54	19.54	19	5	
10	256QAM	1	0	17.66	17.66	17.66			
10	256QAM	1	25	17.76	17.76	17.76			
10	256QAM	1	49	17.76	17.76	17.76	19	5	
10	256QAM	25	0	17.69	17.69	17.69			
10	256QAM	25	12	17.65	17.65	17.65			
10	256QAM	25	25	17.68	17.68	17.68	19	5	
10	256QAM	50	0	17.59	17.59	17.59			
10	256QAM	50	0	17.46	17.46	17.46			

Band 17 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mod Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.79	22.83	22.79	24	0	
10	QPSK	1	25	22.83	22.87	22.83			
10	QPSK	1	49	22.49	22.65	22.60			
10	QPSK	25	0	21.84	21.80	21.81	23	1	
10	QPSK	25	12	21.68	21.74	21.70			
10	QPSK	25	25	21.60	21.72	21.69			
10	QPSK	50	0	21.80	21.81	21.79	23	1	
10	16QAM	1	0	22.03	22.08	22.03			
10	16QAM	1	25	22.03	22.13	22.01			
10	16QAM	1	49	21.82	22.09	21.94	22	2	
10	16QAM	25	0	20.73	20.87	20.69			
10	16QAM	25	12	20.67	20.79	20.65			
10	16QAM	25	25	20.66	20.84	20.62	22	2	
10	16QAM	50	0	20.63	20.65	20.65			
10	64QAM	1	0	20.94	20.99	21.00			
10	64QAM	1	25	20.86	21.04	20.91	22	2	
10	64QAM	1	49	20.85	20.88	20.85			
10	64QAM	25	0	19.72	19.73	19.59			
10	64QAM	25	12	19.63	19.67	19.60	21	3	
10	64QAM	25	25	19.62	19.56	19.61			
10	64QAM	50	0	19.58	19.62	19.54			
10	256QAM	1	0	17.61	17.67	17.59	19	5	
10	256QAM	1	25	17.62	17.71	17.71			
10	256QAM	1	49	17.60	17.78	17.69			
10	256QAM	25	0	17.68	17.71	17.61	19	5	
10	256QAM	25	12	17.59	17.69	17.45			
10	256QAM	25	25	17.63	17.70	17.50			
10	256QAM	50	0	17.60	17.73	17.67			

Band 25 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Ch / Freq	Ch / Freq	Ch / Freq	Turn-up time (sec)	MPE (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.22	21.30	21.28	22.3	0	
20	QPSK	1	49	21.27	21.27	21.13			
20	QPSK	1	99	21.22	21.26	21.22			
20	QPSK	50	0	21.66	21.52	21.20	22.3	0	
20	QPSK	50	24	21.12	21.12	21.18			
20	QPSK	50	50	21.18	21.08	21.08			
20	QPSK	150	0	20.84	21.10	20.87	22.3	0	
20	16QAM	1	0	20.97	20.96	20.86			
20	16QAM	1	49	20.97	20.97	21.01			
20	16QAM	1	99	20.89	21.10	20.90	22	0.3	
20	16QAM	50	0	20.37	20.51	20.33			
20	16QAM	50	24	20.31	20.53	20.37			
20	16QAM	50	50	20.30	20.26	20.30	22	0.3	
20	64QAM	1	0	20.64	20.78	20.77			
20	64QAM	1	49	20.59	20.78	20.69			
20	64QAM	1	99	20.53	20.82	20.83	22	0.3	
20	64QAM	50	0	19.43	19.47	19.38			
20	64QAM	50	24	19.36	19.35	19.28			
20	64QAM	50	50	19.38	19.36	19.34	21	1.3	
20	64QAM	150	0	19.35	19.43	19.29			
20	256QAM	1	0	17.62	17.69	17.70			
20	256QAM	1	49	17.52	17.59	17.54	19	3.3	
20	256QAM	1	99	17.56	17.54	17.63			
20	256QAM	50	0	17.62	17.64	17.53			
20	256QAM	50	24	17.30	17.39	17.19	19	3.3	
20	256QAM	50	50	17.37	17.34	17.31			
20	256QAM	150	0	17.41	17.41	17.24			
Channel									
Frequency (MHz)									
16	QPSK	1	0	21.16	21.12	21.20	22.3	0	
16	QPSK	1	37	21.12	21.12	21.00			
16	QPSK	1	74	21.08	21.19	21.13			
16	QPSK	36	0	21.62	21.16	21.12	22.3	0	
16	QPSK	36	18	21.12	21.08				
16	QPSK	36	54	21.10	20.93	21.01			
16	QPSK	150	0	20.87	21.09	20.84	22.3	0	
16	16QAM	1	0	20.90	20.94	20.86			
16	16QAM	1	37	20.87	20.91	20.85			
16	16QAM	1	74	20.87	20.91	20.79	22	0.3	
16	16QAM	36	0	20.28	20.40	20.29			
16	16QAM	36	18	20.28	20.48	20.27			
16	16QAM	36	54	20.18	20.38	20.27	22	0.3	
16	16QAM	150	0	20.58	20.65	20.62			
16	16QAM	150	37	20.57	20.64	20.61			
16	64QAM	1	0	20.64	20.78	20.77	22	0.3	
16	64QAM	1	74	20.42	20.47	20.53			
16	64QAM	36	0	19.27	19.42	19.31			
16	64QAM	36	18	19.29	19.39	19.28	21	1.3	
16	64QAM	36	54	19.21	19.33	19.17			
16	64QAM	150	0	19.21	19.33	19.24			
16	256QAM	1	0	17.62	17.69	17.70	19	3.3	
16	256QAM	1	37	17.59	17.51	17.62			
16	256QAM	1	74	17.46	17.41	17.59			
16	256QAM	36	0	17.29	17.28	17.28	19	3.3	
16	256QAM	36	18	17.46	17.36	17.59			
16	256QAM	36	54	17.25	17.23	17.27			
16	256QAM	150	0	17.41	17.41	17.24			
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.16	21.16	21.26	22.3	0	
10	QPSK	1	26	21.16	21.16	21.03			
10	QPSK	1	49	21.13	21.16	21.07			
10	QPSK	20	0	21.58	21.02	21.09	22.3	0	
10	QPSK	20	10	21.02	21.09	21.13			
10	QPSK	20	20	21.03	20.97	20.78			
10	16QAM	1	0	20.90	20.91	20.81	22.3	0	
10	16QAM	1	49	20.73	20.92	20.89			
10	16QAM	1	99	20.73	20.92	20.89			
10	16QAM	25	0	20.22	20.45	20.18	22	0.3	
10	16QAM	25	12	20.22	20.45	20.29			
10	16QAM	25	26	20.21	20.21	20.29			
10	16QAM	50	0	20.27	20.26	20.18	22	0.3	
10	16QAM	50	25	20.27	20.26	20.29			
10	16QAM	50	50	20.26	20.26	20.29			
10	64QAM	1	0	20.64	20.68	20.63	22	0.3	
10	64QAM	1	26	20.55	20.68	20.53			
10	64QAM	1	49	20.47	20.62	20.53			
10	64QAM	20	0	19.28	19.27	19.24	21	1.3	
10	64QAM	20	10	19.25	19.22	19.26			
10	64QAM	20	25	19.33	19.32	19.29			
10	256QAM	1	0	17.62	17.64	17.66	19	3.3	
10	256QAM	1	26	17.57	17.63	17.67			
10	256QAM	1	49	17.57	17.63	17.67			
10	256QAM	20	0	17.24	17.37	17.25	19	3.3	
10	256QAM	20	10	17.46	17.36	17.47			
10	256QAM	20	25	17.25	17.30	17.14			
10	256QAM	50	0	17.27	17.26	17.26	19	3.3	
10	256QAM	50	25	17.26	17.26	17.26			
10	256QAM	50	50	17.41	17.40	17.37			
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.08	21.17	21.17	22.3	0	
5	QPSK	1	12	21.19	21.13	21.08			
5	QPSK	1	24	21.12	21.17	21.10			
5	QPSK	12	0	20.97	21.14	21.16	22.3	0	
5	QPSK	12	7	21.11	21.02	21.07			
5	QPSK	12	14	21.06	21.08	21.04			
5	QPSK	26	0	20.77	20.99	20.78	22.3	0	
5	QPSK	26	13	20.88	20.97	20.92			
5	QPSK	26	26	20.88	20.87	20.94			
5	16QAM	1	0	20.88	20.96	20.86	22.3	0	
5	16QAM	1	12	20.83	20.41	20.29			
5	16QAM	1	24	20.83	20.48	20.86			
5	16QAM	12	0	20.23	20.41	20.29	22	0.3	
5	16QAM	12	6	20.15	20.40	20.34			
5	16QAM	12	13	20.17	20.25	20.19			
5	16QAM	26	0	20.26	20.26	20.19	22	0.3	
5	16QAM	26	13	20.26	20.26	20.29			
5	16QAM	26	26	20.25	20.23	20.29			
5	64QAM	1	0	20.64	20.68	20.63	22	0.3	
5	64QAM	1	12	20.62	20.67	20.63			
5	64QAM	1	24	20.62	20.67	20.63			
5	64QAM	12	0	19.25	19.37	19.33	21	1.3	
5	64QAM	12	7	19.29	19.23	19.18			
5	64QAM	12	14	19.29	19.23	19.24			
5	64QAM	26	0	19.18	19.32	19.24	21	1.3	
5	64QAM	26	1	19.18	19.32	19.24			
5	64QAM	26	13	19.18	19.32	19.24			
5	256QAM	1	0	17.49	17.68	17.60	19	3.3	
5	256QAM	1	12	17.49	17.68	17.60			
5	256QAM	1	24	17.41	17.41	17.58			
5	256QAM	12	0	17.27	17.38	17.22	19	3.3	
5	256QAM	12	6	17.27	17.38	17.22			
5	256QAM	12	13	17.33	17.19	17.21			
5	256QAM	26	0	17.26	17.31	17.16			
Channel									
Frequency (MHz)									
3	QPSK	1	0	21.06	21.13	21.22	22.3	0	
3	QPSK	1	12	21.18	21.17	21.10			
3	QPSK	1	14	21.15	21.13	21.08			
3	QPSK	8	0	20.87	21.11	21.07	22.3	0	
3	QPSK	8	4	21.08	21.06	21.03			
3	QPSK	8	7	21.07	21.04	21.04			
3	QPSK	16	0	20.79	21.02	20.81	22.3	0	
3	QPSK	16	8	20.81	21.02	21.01			
3	QPSK	16	15	20.81	21.02	21.01			
3	16QAM	1	0	20.88	20.88	20.92	22.3	0	
3	16QAM	1	14	20.82	21.00	20.85			
3	16QAM	1	28	20.82	21.00	20.85			
3	16QAM	8	0	20.22	20.40	20.28	22	0.3	
3	16QAM	8	7	20.18	20.26	20.22			
3	16QAM	8	14	20.22	20.26	20.22			
3	16QAM	16	0	20.52	20.70	20.70	21	1.3	
3	16QAM	16	8	20.51	20.63	20.61			
3	16QAM	16	15	20.43	20.64	20.62			
3	64QAM	1	0	19.34	19.42	19.31	21	1.3	
3	64QAM	1	4	19.21	19.29	19.19			
3	64QAM	1	8	19.21	19.29	19.21			
3	64QAM	8	0	19.19	19.33	19.24	21	1.3	
3	64QAM	8	4	19.19	19.33	19.24			
3	64QAM	8	8	19.19	19.33	19.24			
3	256QAM	1	0	17.57	17.54	17.46	19	3.3	
3	256QAM	1	14	17.42	17.40	17.54			
3	256QAM	1	28	17.42	17.40	17.46			
3	256QAM	8	0	17.25	17.34	17.21	19	3.3	
3	256QAM	8	7	17.27	17.32	17.17			
3	256QAM	8	14	17.34	17.32	17.28			
Channel									
Frequency (MHz)									
14	QPSK	1	0	21.16	21.16	21.24	22.3	0	
14	QPSK	1	3	21.16	21.17	21.10			
14	QPSK	1	5	21.14	21.17	21.10			
14	QPSK	3	0	21.56	21.02	21.03	22.3	0	
14	QPSK	3	1	21.02	21.02	21.03			
14	QPSK	3	2	21.02	21.04	21.05			
14	QPSK	3	3	21.11	20.96	20.96	22.3	0	
14	QPSK	3	4	21.11	20.96	20.97			
14	QPSK	3	5	21.01	20.93	20.94			
14	16QAM	1	0	20.90	20.88	20.80	22.3	0	
14	16QAM	1	3	20.88	20.88	20.80			
14	16QAM	1	6	20.87	20.96	20.83			
14	16QAM	3	0	20.86	20.87	20.88	22	0.3	
14	16QAM	3	3	20.86	20.87	20.88			
14	16QAM	3	6	20.87	20.86	20.83			
14	16QAM	6	0	20.61</					



Band 26 for FCC Ant 0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)						
Channel														
Frequency (MHz)														
15	QPSK	1	0	22.55	22.64	22.61	24	0						
15	QPSK	1	3	22.45	22.54	22.48								
15	QPSK	1	74	22.40	22.43	22.32								
15	QPSK	36	0	21.63	21.73	21.54								
15	QPSK	36	26	21.46	21.56	21.47	23	1						
15	QPSK	36	39	21.34	21.43	21.47								
15	QPSK	75	0	21.58	21.62	21.60								
15	16QAM	1	0	21.82	21.84	21.86								
15	16QAM	1	37	21.74	21.88	21.81	23	1						
15	16QAM	1	74	21.79	21.84	21.69								
15	16QAM	36	0	20.41	20.52	20.52								
15	16QAM	36	20	20.44	20.53	20.47								
15	16QAM	36	39	20.39	20.49	20.36	22	2						
15	16QAM	75	0	20.37	20.51	20.49								
15	64QAM	1	0	20.77	20.84	20.77								
15	64QAM	1	37	20.70	20.76	20.62								
15	64QAM	1	74	20.68	20.73	20.65	21	3						
15	64QAM	36	0	19.45	19.47	19.42								
15	64QAM	36	20	19.35	19.47	19.34								
15	64QAM	36	39	19.31	19.36	19.40								
15	64QAM	75	0	19.38	19.45	19.42	19	5						
15	256QAM	1	0	17.71	17.74	17.70								
15	256QAM	1	37	17.57	17.67	17.63								
15	256QAM	1	74	17.68	17.64	17.58								
15	256QAM	36	0	17.43	17.56	17.50								
15	256QAM	36	20	17.33	17.41	17.34								
15	256QAM	36	39	17.38	17.47	17.39	19	5						
15	256QAM	75	0	17.36	17.45	17.42								
Channel														
Frequency (MHz)														
15	QPSK	1	0	22.55	22.42	22.49					24	0		
15	QPSK	1	26	22.48	22.40	22.33								
15	QPSK	1	49	22.32	22.33	22.29								
15	QPSK	26	0	21.62	21.49	21.47								
15	QPSK	25	12	21.45	21.41	21.33	23	1						
15	QPSK	25	26	21.32	21.22	21.33								
15	QPSK	50	0	21.05	21.09	21.06								
15	16QAM	1	0	21.82	21.87	21.75								
15	16QAM	1	26	21.83	21.84	21.75	23	1						
15	16QAM	1	49	21.71	21.74	21.76								
15	16QAM	25	0	20.40	20.34	20.46								
15	16QAM	25	12	20.46	20.34	20.37								
15	16QAM	25	26	20.35	20.29	20.38	22	2						
15	16QAM	50	0	20.35	20.29	20.34								
15	64QAM	1	0	20.68	20.63	20.68								
15	64QAM	1	26	20.68	20.63	20.68								
15	64QAM	1	49	20.58	20.57	20.53	21	3						
15	64QAM	25	0	19.42	19.30	19.37								
15	64QAM	25	12	19.34	19.34	19.29								
15	64QAM	25	26	19.20	19.23	19.31								
15	64QAM	50	0	19.35	19.31	19.28	19	5						
15	256QAM	1	0	17.63	17.60	17.63								
15	256QAM	1	26	17.59	17.44	17.58								
15	256QAM	1	49	17.58	17.49	17.56								
15	256QAM	25	0	17.52	17.35	17.51								
15	256QAM	25	12	17.29	17.28	17.28								
15	256QAM	25	26	17.34	17.21	17.34	19	5						
15	256QAM	50	0	17.36	17.34	17.32								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.43	22.43	22.43					24	0		
5	QPSK	1	12	22.43	22.29	22.40								
5	QPSK	1	24	22.34	22.25	22.21								
5	QPSK	12	7	22.46	22.46	22.47								
5	QPSK	12	7	21.51	21.42	21.29	23	1						
5	QPSK	12	13	21.33	21.20	21.37								
5	QPSK	36	0	21.05	21.05	21.05								
5	16QAM	1	0	21.85	21.68	21.71								
5	16QAM	1	12	21.80	21.68	21.72	23	1						
5	16QAM	1	24	21.67	21.67	21.67								
5	16QAM	12	0	20.47	20.32	20.47								
5	16QAM	12	7	20.47	20.39	20.34								
5	16QAM	12	13	20.36	20.38	20.27	22	2						
5	16QAM	25	0	20.40	20.29	20.39								
5	64QAM	1	0	20.69	20.63	20.71								
5	64QAM	1	12	20.61	20.62	20.68								
5	64QAM	1	24	20.64	20.62	20.63	21	3						
5	64QAM	12	0	19.42	19.29	19.27								
5	64QAM	12	7	19.37	19.29	19.26								
5	64QAM	12	13	19.23	19.23	19.31								
5	64QAM	25	0	19.42	19.25	19.31	19	5						
5	256QAM	1	0	17.67	17.58	17.68								
5	256QAM	1	12	17.58	17.47	17.62								
5	256QAM	1	24	17.68	17.54	17.63								
5	256QAM	12	0	17.48	17.48	17.48								
5	256QAM	12	7	17.30	17.29	17.32								
5	256QAM	12	13	17.41	17.27	17.35	19	5						
5	256QAM	25	0	17.37	17.27	17.28								
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.53	22.45	22.47					24	0		
3	QPSK	1	8	22.47	22.34	22.33								
3	QPSK	1	14	22.34	22.30	22.29								
3	QPSK	8	0	21.63	21.57	21.57								
3	QPSK	8	4	21.43	21.36	21.29	23	1						
3	QPSK	8	7	21.29	21.18	21.32								
3	QPSK	16	0	21.15	21.43	21.46								
3	16QAM	1	0	21.80	21.72	21.75								
3	16QAM	1	8	21.74	21.63	21.75	23	1						
3	16QAM	1	14	21.65	21.75	21.67								
3	16QAM	8	0	20.46	20.35	20.36								
3	16QAM	8	4	20.44	20.39	20.35								
3	16QAM	8	7	20.35	20.29	20.25	22	2						
3	16QAM	16	0	20.36	20.32	20.33								
3	64QAM	1	0	20.75	20.70	20.73								
3	64QAM	1	8	20.67	20.62	20.53								
3	64QAM	1	14	20.58	20.58	20.54	21	3						
3	64QAM	8	0	19.45	19.31	19.29								
3	64QAM	8	4	19.36	19.23	19.20								
3	64QAM	8	7	19.25	19.18	19.31								
3	64QAM	16	0	19.40	19.25	19.36	19	5						
3	256QAM	1	0	17.61	17.56	17.56								
3	256QAM	1	8	17.60	17.42	17.63								
3	256QAM	1	14	17.58	17.48	17.53								
3	256QAM	8	0	17.46	17.33	17.26	19	5						
3	256QAM	8	4	17.25	17.28	17.23								
3	256QAM	8	7	17.39	17.31	17.35								
3	256QAM	8	7	17.49	17.34	17.38	19	5						
Channel														
Frequency (MHz)														
14	QPSK	1	0	22.42	22.33	22.36					24	0		
14	QPSK	1	3	22.47	22.32	22.35								
14	QPSK	1	5	22.29	22.31	22.26								
14	QPSK	1	27	22.47	22.37	22.41								
14	QPSK	3	0	22.35	22.19	22.27	23	1						
14	QPSK	3	3	22.20	22.19	22.05								
14	QPSK	15	0	21.57	21.43	21.49								
14	16QAM	1	0	21.87	21.72	21.75								
14	16QAM	3	0	21.79	21.61	21.68	23	1						
14	16QAM	3	3	21.65	21.65	21.61								
14	16QAM	3	0	21.77	21.60	21.68								
14	16QAM	3	3	21.74	21.53	21.61								
14	16QAM	15	0	21.48	21.41	21.48	22	2						
14	16QAM	6	0	20.46	20.23	20.40								
14	16QAM	6	0	20.80	20.66	20.75								
14	16QAM	6	3	20.81	20.63	20.70								
14	16QAM	6	6	20.66	20.53	20.59	22	2						
14	16QAM	6	9	20.71	20.50	20.62								
14	16QAM	6	12	20.52	20.50	20.52								
14	16QAM	6	15	20.52	20.46	20.50								
14	16QAM	3	3	20.58	20.48	20.55	21	3						
14	16QAM	6	6	19.45	19.25	19.35								
14	16QAM	6	9	19.45	19.23	19.38								
14	16QAM	6	12	19.38	19.23	19.38								
14	256QAM	1	3	17.58	17.51	17.53	19	5						
14	256QAM	1	6	17.57	17.60	17.44								
14	256QAM	1	9	17.52	17.38	17.53								
14	256QAM	1	12	17.31	17.26	17.30								
14	256QAM	3	3	17.33	17.25	17.28	19	5						
14	256QAM	3	6	17.24	17.22	17.26								
14	256QAM	3	9	17.24	17.22	17.26								
14	256QAM	3	12	17.24	17.22	17.26								



Band 38 Ant 0												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Peak Ch / Freq	Turn-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.48	22.56	22.61	24	0				
20	QPSK	1	48	22.40	22.31	22.30						
20	QPSK	1	88	22.51	22.38	22.39						
20	QPSK	50	0	21.41	21.54	21.52						
20	QPSK	50	24	21.26	21.38	21.33	23	1				
20	QPSK	50	48	21.61	21.75	21.69						
20	QPSK	100	0	21.46	21.54	21.54						
20	HQAM	1	0	21.69	21.78	21.69						
20	HQAM	1	48	21.61	21.75	21.69	23	1				
20	HQAM	1	88	21.59	21.78	21.69						
20	HQAM	50	24	20.34	20.45	20.32						
20	HQAM	50	48	20.34	20.45	20.32						
20	HQAM	50	50	20.19	20.37	20.24	22	2				
20	HQAM	100	0	20.34	20.45	20.32						
20	HQAM	1	0	20.58	20.65	20.65						
20	HQAM	1	48	20.57	20.65	20.65						
20	HQAM	1	88	20.51	20.61	20.55	22	2				
20	HQAM	50	0	19.34	19.42	19.33						
20	HQAM	50	24	19.27	19.28	19.26						
20	HQAM	50	50	19.28	19.29	19.26						
20	HQAM	100	0	19.21	19.31	19.17	21	3				
20	25QAM	1	0	17.52	17.60	17.53						
20	25QAM	1	48	17.51	17.59	17.46						
20	25QAM	1	88	17.51	17.59	17.55						
20	25QAM	50	0	17.27	17.28	17.26	19	5				
20	25QAM	50	24	17.25	17.25	17.17						
20	25QAM	50	48	17.30	17.28	17.24						
20	25QAM	100	0	17.27	17.28	17.24						
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.13	22.42	22.41	24	0				
15	QPSK	1	37	22.28	22.18	22.18						
15	QPSK	1	74	22.28	22.33	22.12						
15	QPSK	36	0	21.34	21.42	21.37						
15	QPSK	36	20	21.14	21.24	21.17	23	1				
15	QPSK	36	38	21.24	21.33	21.25						
15	QPSK	75	0	21.38	21.39	21.37						
15	HQAM	1	0	21.55	21.66	21.61						
15	HQAM	1	37	21.55	21.67	21.64	23	1				
15	HQAM	1	74	21.54	21.72	21.61						
15	HQAM	36	0	20.24	20.36	20.19						
15	HQAM	36	20	20.22	20.26	20.15						
15	HQAM	36	38	20.09	20.29	20.18	22	2				
15	HQAM	75	0	20.26	20.25	20.22						
15	HQAM	75	0	19.23	19.32	19.25						
15	HQAM	1	37	20.52	20.69	20.51						
15	25QAM	1	74	20.44	20.47	20.39	21	3				
15	25QAM	36	0	19.23	19.32	19.25						
15	25QAM	36	20	19.15	19.17	19.20						
15	25QAM	36	38	19.24	19.27	19.19						
15	25QAM	75	0	19.05	19.21	19.11	19	5				
15	25QAM	75	0	17.42	17.43	17.43						
15	25QAM	36	0	17.15	17.33	17.18						
15	25QAM	36	20	17.17	17.27	17.09						
15	25QAM	36	38	17.25	17.13	17.20	19	5				
15	25QAM	75	0	17.26	17.21	17.21						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.13	22.42	22.41	24	0				
10	QPSK	1	25	22.31	22.32	22.33						
10	QPSK	1	48	22.13	22.31	22.30						
10	QPSK	25	0	21.34	21.42	21.37						
10	QPSK	25	12	21.19	21.24	21.19	23	1				
10	QPSK	25	25	21.19	21.14	21.26						
10	HQAM	1	0	21.87	21.78	21.83						
10	HQAM	1	25	21.82	21.82	21.44						
10	HQAM	1	48	21.47	21.67	21.69	22	2				
10	HQAM	25	0	20.28	20.28	20.21						
10	HQAM	25	0	20.22	20.41	20.12						
10	HQAM	25	25	20.07	20.31	20.14						
10	HQAM	50	0	20.38	20.25	20.22	22	2				
10	HQAM	50	0	20.07	20.27	20.03						
10	HQAM	50	25	20.49	20.58	20.42						
10	HQAM	1	48	20.45	20.54	20.50						
10	HQAM	25	0	19.21	19.33	19.21	21	3				
10	HQAM	25	12	19.22	19.20	19.14						
10	HQAM	25	25	19.20	19.25	19.11						
10	HQAM	50	0	19.15	19.25	19.09						
10	25QAM	1	0	17.51	17.46	17.42	19	5				
10	25QAM	1	25	17.41	17.42	17.40						
10	25QAM	1	48	17.38	17.43	17.39						
10	25QAM	25	0	17.22	17.28	17.20						
10	25QAM	25	12	17.17	17.16	17.07	19	5				
10	25QAM	25	25	17.22	17.15	17.15						
10	25QAM	50	0	17.24	17.22	17.22						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.33	22.47	22.37	24	0				
5	QPSK	1	12	22.30	22.25	22.15						
5	QPSK	1	24	22.09	22.24	22.13						
5	QPSK	12	0	21.28	21.48	21.47						
5	QPSK	12	7	21.16	21.27	21.15	23	1				
5	QPSK	12	13	21.20	21.22	21.15						
5	HQAM	1	0	21.62	21.69	21.63						
5	HQAM	1	12	21.48	21.59	21.52						
5	HQAM	1	24	21.46	21.64	21.61	22	2				
5	HQAM	12	0	20.24	20.31	20.26						
5	HQAM	12	7	20.25	20.35	20.14						
5	HQAM	12	13	20.05	20.31	20.14						
5	HQAM	25	0	20.25	20.28	20.18	22	2				
5	HQAM	1	0	20.32	20.62	20.49						
5	HQAM	12	0	20.47	20.68	20.43						
5	HQAM	1	24	20.37	20.47	20.47						
5	HQAM	12	0	19.26	19.37	19.21	21	3				
5	HQAM	12	7	19.18	19.14	19.12						
5	HQAM	12	13	19.23	19.22	19.19						
5	HQAM	25	0	19.14	19.37	19.04						
5	25QAM	1	0	17.45	17.45	17.45	19	5				
5	25QAM	1	12	17.39	17.40	17.39						
5	25QAM	1	24	17.37	17.42	17.43						
5	25QAM	12	0	17.15	17.33	17.17						
5	25QAM	12	7	17.09	17.18	17.06	19	5				
5	25QAM	12	13	17.17	17.13	17.09						
5	25QAM	25	0	17.30	17.20	17.24						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.33	22.47	22.37	24	0				
5	QPSK	1	12	22.30	22.25	22.15						
5	QPSK	1	24	22.09	22.24	22.13						
5	QPSK	12	0	21.28	21.48	21.47						
5	QPSK	12	7	21.16	21.27	21.15	23	1				
5	QPSK	12	13	21.20	21.22	21.15						
5	HQAM	1	0	21.62	21.69	21.63						
5	HQAM	1	12	21.48	21.59	21.52						
5	HQAM	1	24	21.46	21.64	21.61	22	2				
5	HQAM	12	0	20.24	20.31	20.26						
5	HQAM	12	7	20.25	20.35	20.14						
5	HQAM	12	13	20.05	20.31	20.14						
5	HQAM	25	0	20.25	20.28	20.18	22	2				
5	HQAM	1	0	20.32	20.62	20.49						
5	HQAM	12	0	20.47	20.68	20.43	22	2				
5	HQAM	1	24	20.37	20.47	20.47						
5	HQAM	12	0	19.26	19.37	19.21	21	3				
5	HQAM	12	7	19.18	19.14	19.12						
5	HQAM	12	13	19.23	19.22	19.19						
5	HQAM	25	0	19.14	19.37	19.04						
5	25QAM	1	0	17.45	17.45	17.45	19	5				
5	25QAM	1	12	17.39	17.40	17.39						
5	25QAM	1	24	17.37	17.42	17.43						
5	25QAM	12	0	17.15	17.33	17.17						
5	25QAM	12	7	17.09	17.18	17.06	19	5				
5	25QAM	12	13	17.17	17.13	17.09						
5	25QAM	25	0	17.30	17.20	17.24						

Band		WCDMA II Ant 1			Tune-up Limit (dBm)	WCDMA IV Ant 1			Tune-up Limit (dBm)	WCDMA V Ant 1			Tune-up Limit (dBm)
TX Channel		9252	9400	9536		1312	1413	1513		4132	4182	4233	
Rx Channel		9452	9600	9736		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1860	1907.6		1712.4	1732.6	1752.8		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	21.67	21.93	21.87	22.00	20.49	20.90	20.81	22.00	22.89	23.24	23.23	24.00
3GPP Rel 99	RMC 12.2Kbps	21.68	21.96	21.92	22.00	20.68	20.99	20.86	22.00	23.08	23.37	23.26	24.00
3GPP Rel 6	HSDPA Subtest-1	20.88	20.83	20.88	21.00	19.73	20.03	19.80	21.00	22.13	22.31	22.20	23.00
3GPP Rel 6	HSDPA Subtest-2	20.96	20.86	20.96	21.00	19.82	19.92	19.85	21.00	22.19	22.29	22.24	23.00
3GPP Rel 6	HSDPA Subtest-3	20.35	20.43	20.31	20.50	19.31	19.53	19.45	20.50	21.71	21.82	21.78	22.50
3GPP Rel 6	HSDPA Subtest-4	20.26	20.44	20.39	20.50	19.29	19.31	19.33	20.50	21.70	21.77	21.69	22.50
3GPP Rel 6	DCHSDPA Subtest-1	20.91	20.89	20.96	21.00	19.71	19.84	19.81	21.00	22.17	22.16	22.14	24.00
3GPP Rel 6	DCHSDPA Subtest-2	20.83	20.91	20.68	21.00	19.71	19.72	19.78	21.00	22.10	22.15	22.14	23.00
3GPP Rel 6	DCHSDPA Subtest-3	20.32	20.43	20.27	20.50	19.38	19.39	19.28	20.50	21.66	21.79	21.67	23.50
3GPP Rel 6	DCHSDPA Subtest-4	20.09	20.31	20.17	20.50	19.30	19.30	19.23	20.50	21.64	21.71	21.64	23.50
3GPP Rel 6	HSUPA Subtest-1	20.68	20.86	20.86	21.00	19.71	19.98	19.89	21.00	22.11	22.31	22.17	23.00
3GPP Rel 6	HSUPA Subtest-2	18.90	18.91	18.91	19.00	17.86	17.93	17.81	19.00	20.22	20.31	20.25	22.00
3GPP Rel 6	HSUPA Subtest-3	19.84	19.83	19.87	20.00	18.81	18.10	18.86	20.00	21.20	21.40	21.27	23.00
3GPP Rel 6	HSUPA Subtest-4	18.72	18.91	18.82	19.00	17.67	17.87	17.79	19.00	20.03	20.25	20.19	22.00
3GPP Rel 6	HSUPA Subtest-5	20.60	20.84	20.88	21.00	19.53	19.83	19.94	21.00	21.99	22.18	22.26	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.37	18.42	18.34	18.50	17.41	17.43	17.55	18.50	19.77	19.79	19.94	21.50

Band 4 Ant 1												
RF (MHz)	Modulation	FS (Hz)	FE (Hz)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Turn-up (dBm)	MFR (dB)			
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.54	20.71	20.84						
20	QPSK	1	49	20.55	20.60	20.81		21.7	0			
20	QPSK	1	98	20.56	20.60	20.81						
20	QPSK	50	0	20.43	20.63	20.68						
20	QPSK	50	24	20.56	20.68	20.84		21.7	0			
20	QPSK	50	49	20.57	20.68	20.84						
20	QPSK	100	0	20.23	20.30	20.28						
20	QPSK	1	0	20.38	20.39	20.48						
20	QPSK	1	49	20.39	20.40	20.49		21.7	0			
20	QPSK	1	98	20.39	20.50	20.23						
20	QPSK	50	0	20.31	20.39	20.39						
20	QPSK	50	24	20.32	20.39	20.49		21.7	0			
20	QPSK	50	49	20.32	20.39	20.49						
20	QPSK	100	0	20.26	20.27	20.27						
20	QPSK	1	0	20.59	20.22	20.19						
20	QPSK	1	49	20.55	20.20	20.19		21.7	0			
20	QPSK	1	98	20.57	20.22	20.19						
20	QPSK	50	0	20.47	20.62	20.55						
20	QPSK	50	24	20.47	20.62	20.55		21.7	0.7			
20	QPSK	50	49	20.47	20.62	20.55						
20	QPSK	100	0	17.48	17.53	17.57						
20	QPSK	1	0	17.47	17.41	17.52		19	2.7			
20	QPSK	1	49	17.27	17.32	17.34						
20	QPSK	1	98	17.41	17.15	17.23		21.7	0			
20	QPSK	50	0	17.27	17.33	17.25						
20	QPSK	50	24	17.27	17.33	17.25						
20	QPSK	50	49	17.39	17.22	17.30		Turn-up (dBm)	MFR (dB)			
Channel												
Frequency (MHz)												
15	QPSK	1	0	20.45	20.55	20.58		21.7	0			
15	QPSK	1	49	20.46	20.57	20.63						
15	QPSK	1	98	20.48	20.58	20.63						
15	QPSK	50	0	20.32	20.50	20.50		21.7	0			
15	QPSK	50	24	20.33	20.49	20.43						
15	QPSK	50	49	20.33	20.49	20.43						
15	QPSK	100	0	20.15	20.32	20.37						
15	QPSK	1	0	20.35	20.38	20.28		21.7	0			
15	QPSK	1	49	20.36	20.38	20.28						
15	QPSK	1	98	20.35	20.37	20.07						
15	QPSK	50	0	20.14	20.14	20.14		21.7	0			
15	QPSK	50	24	20.16	20.28	20.30						
15	QPSK	50	49	20.16	20.28	20.30						
15	QPSK	100	0	20.51	20.46	20.50		21.7	0			
15	QPSK	1	0	20.39	20.52	20.40						
15	QPSK	1	49	20.41	20.51	20.43		21.7	0			
15	QPSK	1	98	20.42	20.51	20.43						
15	QPSK	50	0	19.28	19.23	19.33						
15	QPSK	50	24	19.22	19.24	19.32		21.7	0.7			
15	QPSK	50	49	19.21	19.25	19.33						
15	QPSK	100	0	19.06	19.23	19.08						
15	QPSK	1	0	17.41	17.49	17.48		19	2.7			
15	QPSK	1	49	17.12	17.19	17.14						
15	QPSK	1	98	17.11	17.12	17.19		21.7	0			
15	QPSK	50	0	17.37	17.31	17.36						
15	QPSK	50	24	17.12	17.19	17.14		19	2.7			
15	QPSK	50	49	17.12	17.17	17.14						
15	QPSK	100	0	17.12	17.17	17.20						
Channel												
Frequency (MHz)												
10	QPSK	1	0	20.44	20.59	20.48		21.7	0			
10	QPSK	1	49	20.44	20.53	20.48						
10	QPSK	1	98	20.41	20.41	20.41		21.7	0			
10	QPSK	50	0	20.32	20.52	20.37						
10	QPSK	50	24	20.32	20.49	20.33						
10	QPSK	50	49	20.32	20.49	20.33						
10	QPSK	100	0	20.14	20.20	20.11						
10	QPSK	1	0	20.34	20.38	20.30		21.7	0			
10	QPSK	1	49	20.35	20.38	20.30						
10	QPSK	1	98	20.34	20.38	20.30						
10	QPSK	50	0	20.14	20.14	20.14		21.7	0			
10	QPSK	50	24	20.17	20.30	20.30						
10	QPSK	50	49	20.17	20.30	20.30		21.7	0			
10	QPSK	100	0	20.50	20.28	20.24						
10	QPSK	1	0	20.23	20.18	20.18						
10	QPSK	1	49	20.31	20.43	20.45		21.7	0			
10	QPSK	1	98	20.31	20.43	20.45						
10	QPSK	50	0	19.23	19.25	19.35						
10	QPSK	50	24	19.23	19.23	19.27		21.7	0.7			
10	QPSK	50	49	19.10	19.12	19.15						
10	QPSK	100	0	19.03	19.22	19.05						
10	QPSK	1	0	17.24	17.40	17.40		19	2.7			
10	QPSK	1	49	17.34	17.38	17.34						
10	QPSK	1	98	17.24	17.31	17.31		21.7	0			
10	QPSK	50	0	17.14	17.15	17.06		19	2.7			
10	QPSK	50	24	17.14	17.15	17.06						
10	QPSK	50	49	17.12	17.26	17.09						
10	QPSK	100	0	17.23	17.13	17.01						
Channel												
Frequency (MHz)												
5	QPSK	1	0	19.23	19.23	19.23		Turn-up (dBm)	MFR (dB)			
5	QPSK	1	49	19.23	19.23	19.23						
5	QPSK	1	98	20.50	20.52	20.50		21.7	0			
5	QPSK	1	24	20.48	20.69	20.47						
5	QPSK	1	49	20.41	20.63	20.46						
5	QPSK	12	7	20.51	20.40	20.37		21.7	0			
5	QPSK	12	13	20.49	20.20	20.31						
5	QPSK	12	19	20.38	20.20	20.30						
5	QPSK	1	0	20.30	20.31	20.28		21.7	0			
5	QPSK	1	12	20.25	20.19	20.33						
5	QPSK	1	19	20.18	20.19	20.33						
5	QPSK	12	0	20.15	20.22	20.15		21.7	0			
5	QPSK	12	7	20.12	20.31	20.12						
5	QPSK	12	13	20.19	20.14	20.14						
5	QPSK	12	19	20.12	20.11	20.15						
5	QPSK	1	0	20.48	20.51	20.49		21.7	0			
5	QPSK	1	49	20.50	20.41	20.47						
5	QPSK	1	98	20.34	20.44	20.41						
5	QPSK	12	0	19.23	19.23	19.31						
5	QPSK	12	13	19.13	19.19	19.11		19	1.6			
5	QPSK	12	19	19.15	19.21	19.16						
5	QPSK	25	0	19.06	19.22	17.01						
5	QPSK	25	13	19.46	19.17	17.01		21.7	0			
5	QPSK	1	12	17.37	17.48	17.26		19	2.7			
5	QPSK	1	19	17.29	17.40	17.26						
5	QPSK	12	0	17.20	17.27	17.10						
5	QPSK	12	7	17.16	17.14	17.14		21.7	0			
5	QPSK	12	13	17.24	17.14	17.14						
5	QPSK	25	0	17.27	17.27	17.20						
Channel												
Frequency (MHz)												
3	QPSK	1	0	20.49	20.44	20.51		Turn-up (dBm)	MFR (dB)			
3	QPSK	1	8	20.43	20.52	20.43		21.7	0			
3	QPSK	1	14	20.51	20.63	20.54						
3	QPSK	1	20	20.32	20.48	20.48						
3	QPSK	8	4	20.44	20.40	20.35		21.7	0			
3	QPSK	15	3	20.13	20.41	20.37						
3	QPSK	1	0	20.26	20.24	20.32		21.7	0			
3	QPSK	1	8	20.21	20.28	20.35						
3	QPSK	1	14	20.24	20.39	20.10						
3	QPSK	8	0	20.20	20.27	20.18		21.7	0			
3	QPSK	8	8	20.20	20.28	20.10						
3	QPSK	15	0	20.09	20.20	20.20		21.7	0			
3	QPSK	1	0	20.20	20.21	20.12						
3	QPSK	1	8	20.21	20.46	20.43						
3	QPSK	1	14	20.38	20.35	20.47		21.7	0			
3	QPSK	1	14	20.33	20.46	20.48						
3	QPSK	8	0	19.21	19.31	19.13		19	2.7			
3	QPSK	8	7	19.14	19.20	19.17						
3	QPSK	15	0	17.48	17.50	17.67						
3	QPSK	1	0	17.48	17.49	17.47		19	2.7			
3	QPSK	8	8	17.42	17.40	17.30						
3	QPSK	1	7	17.39	17.40	17.39						
3	QPSK	8	0	17.08	17.19	17.17		21.7	0			
3	QPSK	8	4	17.16	17.15	17.04						
3	QPSK	15	0	17.21</								

Band 12 Ant 1										
BW (MHz)	Modulation	FE Sub	FE Offset	Power Channel	Power Ch. Freq. 20000	Power Ch. Freq. 20006	Power Ch. Freq. 20010	Turn-on time (dBm)	MFR (dB)	
Channel										
10	QPSK	1	0	22.84	22.84	22.88	22.82			
10	QPSK	1	26	22.70	22.74	22.68		24	0	
10	QPSK	1	52	22.67	22.71	22.63				
10	QPSK	26	0	21.80	21.80	21.89				
10	QPSK	26	12	21.69	21.81	21.73		23	1	
10	QPSK	26	38	21.68	21.70	21.61				
10	QPSK	50	0	21.74	21.68	21.73				
10	QPSK	50	6	22.00	22.15	22.07		23	1	
10	QPSK	50	12	21.98	22.10	21.90				
10	QPSK	50	18	21.95	22.19	22.08				
10	QPSK	25	0	20.89	20.78	20.84				
10	QPSK	25	6	20.72	20.72	20.72		22	2	
10	QPSK	25	12	20.53	20.65	20.63				
10	QPSK	25	18	20.52	20.62	20.58				
10	QPSK	25	24	20.53	20.66	20.54		22	2	
10	QPSK	25	30	20.52	20.62	20.58				
10	QPSK	25	36	20.52	20.62	20.58				
10	QPSK	25	42	20.52	20.62	20.58				
10	QPSK	25	48	20.52	20.62	20.58				
10	QPSK	25	54	20.52	20.62	20.58				
10	QPSK	25	60	20.52	20.62	20.58				
10	QPSK	25	66	20.52	20.62	20.58				
10	QPSK	25	72	20.52	20.62	20.58				
10	QPSK	25	78	20.52	20.62	20.58				
10	QPSK	25	84	20.52	20.62	20.58				
10	QPSK	25	90	20.52	20.62	20.58				
10	QPSK	25	96	20.52	20.62	20.58				
10	QPSK	25	102	20.52	20.62	20.58				
10	QPSK	25	108	20.52	20.62	20.58				
10	QPSK	25	114	20.52	20.62	20.58				
10	QPSK	25	120	20.52	20.62	20.58				
10	QPSK	25	126	20.52	20.62	20.58				
10	QPSK	25	132	20.52	20.62	20.58				
10	QPSK	25	138	20.52	20.62	20.58				
10	QPSK	25	144	20.52	20.62	20.58				
10	QPSK	25	150	20.52	20.62	20.58				
10	QPSK	25	156	20.52	20.62	20.58				
10	QPSK	25	162	20.52	20.62	20.58				
10	QPSK	25	168	20.52	20.62	20.58				
10	QPSK	25	174	20.52	20.62	20.58				
10	QPSK	25	180	20.52	20.62	20.58				
10	QPSK	25	186	20.52	20.62	20.58				
10	QPSK	25	192	20.52	20.62	20.58				
10	QPSK	25	198	20.52	20.62	20.58				
10	QPSK	25	204	20.52	20.62	20.58				
10	QPSK	25	210	20.52	20.62	20.58				
10	QPSK	25	216	20.52	20.62	20.58				
10	QPSK	25	222	20.52	20.62	20.58				
10	QPSK	25	228	20.52	20.62	20.58				
10	QPSK	25	234	20.52	20.62	20.58				
10	QPSK	25	240	20.52	20.62	20.58				
10	QPSK	25	246	20.52	20.62	20.58				
10	QPSK	25	252	20.52	20.62	20.58				
10	QPSK	25	258	20.52	20.62	20.58				
10	QPSK	25	264	20.52	20.62	20.58				
10	QPSK	25	270	20.52	20.62	20.58				
10	QPSK	25	276	20.52	20.62	20.58				
10	QPSK	25	282	20.52	20.62	20.58				
10	QPSK	25	288	20.52	20.62	20.58				
10	QPSK	25	294	20.52	20.62	20.58				
10	QPSK	25	300	20.52	20.62	20.58				
10	QPSK	25	306	20.52	20.62	20.58				
10	QPSK	25	312	20.52	20.62	20.58				
10	QPSK	25	318	20.52	20.62	20.58				
10	QPSK	25	324	20.52	20.62	20.58				
10	QPSK	25	330	20.52	20.62	20.58				
10	QPSK	25	336	20.52	20.62	20.58				
10	QPSK	25	342	20.52	20.62	20.58				
10	QPSK	25	348	20.52	20.62	20.58				
10	QPSK	25	354	20.52	20.62	20.58				
10	QPSK	25	360	20.52	20.62	20.58				
10	QPSK	25	366	20.52	20.62	20.58				
10	QPSK	25	372	20.52	20.62	20.58				
10	QPSK	25	378	20.52	20.62	20.58				
10	QPSK	25	384	20.52	20.62	20.58				
10	QPSK	25	390	20.52	20.62	20.58				
10	QPSK	25	396	20.52	20.62	20.58				
10	QPSK	25	402	20.52	20.62	20.58				
10	QPSK	25	408	20.52	20.62	20.58				
10	QPSK	25	414	20.52	20.62	20.58				
10	QPSK	25	420	20.52	20.62	20.58				
10	QPSK	25	426	20.52	20.62	20.58				
10	QPSK	25	432	20.52	20.62	20.58				
10	QPSK	25	438	20.52	20.62	20.58				
10	QPSK	25	444	20.52	20.62	20.58				
10	QPSK	25	450	20.52	20.62	20.58				
10	QPSK	25	456	20.52	20.62	20.58				
10	QPSK	25	462	20.52	20.62	20.58				
10	QPSK	25	468	20.52	20.62	20.58				
10	QPSK	25	474	20.52	20.62	20.58				
10	QPSK	25	480	20.52	20.62	20.58				
10	QPSK	25	486	20.52	20.62	20.58				
10	QPSK	25	492	20.52	20.62	20.58				
10	QPSK	25	498	20.52	20.62	20.58				
10	QPSK	25	504	20.52	20.62	20.58				
10	QPSK	25	510	20.52	20.62	20.58				
10	QPSK	25	516	20.52	20.62	20.58				
10	QPSK	25	522	20.52	20.62	20.58				
10	QPSK	25	528	20.52	20.62	20.58				
10	QPSK	25	534	20.52	20.62	20.58				
10	QPSK	25	540	20.52	20.62	20.58				
10	QPSK	25	546	20.52	20.62	20.58				
10	QPSK	25	552	20.52	20.62	20.58				
10	QPSK	25	558	20.52	20.62	20.58				
10	QPSK	25	564	20.52	20.62	20.58				
10	QPSK	25	570	20.52	20.62	20.58				
10	QPSK	25	576	20.52	20.62	20.58				
10	QPSK	25	582	20.52	20.62	20.58				
10	QPSK	25	588	20.52	20.62	20.58				
10	QPSK	25	594	20.52	20.62	20.58				
10	QPSK	25	600	20.52	20.62	20.58				
10	QPSK	25	606	20.52	20.62	20.58				
10	QPSK	25	612	20.52	20.62	20.58				
10	QPSK	25	618	20.52	20.62	20.58				
10	QPSK	25	624	20.52	20.62	20.58				
10	QPSK	25	630	20.52	20.62	20.58				
10	QPSK	25	636	20.52	20.62	20.58				
10	QPSK	25	642	20.52	20.62	20.58				
10	QPSK	25	648	20.52	20.62	20.58				
10	QPSK	25	654	20.52	20.62	20.58				
10	QPSK	25	660	20.52	20.62	20.58				
10	QPSK	25	666	20.52	20.62	20.58				
10	QPSK	25	672	20.52	20.62	20.58				
10	QPSK	25	678	20.52	20.62	20.58				
10	QPSK	25	684	20.52	20.62	20.58				
10	QPSK	25	690	20.52	20.62	20.58				
10	QPSK	25	696	20.52	20.62	20.58				
10	QPSK	25	702	20.52	20.62	20.58				
10	QPSK	25	708	20.52	20.62	20.58				
10	QPSK	25	714	20.52	20.62	20.58				
10	QPSK	25	720	20.52	20.62	20.58				
10	QPSK	25	726	20.52	20.62	20.58				
10	QPSK	25	732	20.52	20.62	20.58				
10	QPSK	25	738	20.52	20.62	20.58				
10	QPSK	25	744	20.52	20.62	20.58				
10	QPSK	25	750	20.52	20.62	20.58				
10	QPSK	25	756	20.52	20.62	20.58				
10	QPSK	25	762	20.52	20.62	20.58				
10	QPSK	25	768	20.52	20.62	20.58				
10	QPSK	25	774	20.52	20.62	20.58				
10	QPSK	25	780	20.52	20.62	20.58				
10	QPSK	25	786	20.52	20.62	20.58				
10	QPSK	25	792	20.52	20.62	20.58				
10	QPSK	25	798	20.52	20.62	20.58				
10	QPSK	25	804	20.52	20.62	20.58				
10	QPSK	25	810	20.52	20.62	20.58				
10	QPSK	25	816	20.52	20.62	20.58				
10	QPSK	25	822	20.52	20.62	20.58				
10	QPSK	25	828	20.52	20.62	20.58				
10	QPSK	25	834	20.52	20.62	20.58				
10	QPSK	25	840	20.52	20.62	20.58				
10	QPSK	25	846	20.52	20.62	20.58				
10	QPSK	25	852	20.52	20.62	20.58				

[illegible]



Band 13 Ant 1										
Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Tune-up Int (dB)	MPE (dB)			
Channel										
Frequency (MHz)										
QPSK	1	0	782			24	0			
	QPSK	1	25	22.85						
	QPSK	1	49	22.87						
	QPSK	25	0	21.94						
	QPSK	25	12	21.74						
QPSK	25	49	21.63			23	1			
	QPSK	50	0	21.58						
	QPSK	1	0	22.19						
	QPSK	1	25	22.03						
	QPSK	1	49	22.07						
16QAM	1	25	20.70			22	2			
	16QAM	1	49	20.74						
	16QAM	25	0	20.62						
	16QAM	25	12	21.02						
	16QAM	1	25	20.99						
16QAM	1	49	20.93			22	2			
	16QAM	1	97	20.87						
	16QAM	25	12	19.89						
	16QAM	25	25	19.82						
	16QAM	25	0	19.70						
256QAM	1	0	17.96			19	5			
	256QAM	1	25	17.84						
	256QAM	1	49	17.87						
	256QAM	25	0	17.71						
	256QAM	25	12	17.82						
Channel										
Frequency (MHz)										
QPSK	1	0	779.5	783	784.5	24	0			
	QPSK	1	25	22.76	22.79					22.80
	QPSK	1	49	22.80	22.86					22.82
	QPSK	12	0	21.82	21.74					21.79
	QPSK	12	7	21.70	21.62					21.68
QPSK	12	0	21.53	21.52	21.55	23	1			
	QPSK	12	7	21.41	21.44					21.47
	QPSK	12	13	21.41	21.44					21.47
	QPSK	12	19	21.41	21.44					21.47
	QPSK	12	25	21.41	21.44					21.47
16QAM	1	0	22.12	22.08	22.01	23	1			
	16QAM	1	12	21.98	21.96					21.92
	16QAM	1	24	22.03	21.94					22.00
	16QAM	12	0	20.68	20.67					20.61
	16QAM	12	7	20.60	20.69					20.63
16QAM	12	13	20.58	20.57	20.64	22	2			
	16QAM	12	19	20.55	20.56					20.52
	16QAM	12	25	20.54	20.55					20.59
	16QAM	1	12	20.69	20.91					20.91
	16QAM	1	24	20.79	20.91					20.88
16QAM	1	25	19.84	19.80	19.85	21	3			
	16QAM	1	49	19.86	19.80					19.82
	16QAM	12	7	19.69	19.60					19.57
	16QAM	12	13	19.44	19.49					19.40
	16QAM	12	19	19.58	19.64					19.61
256QAM	1	12	17.71	17.62	17.65	19	5			
	256QAM	1	24	17.71	17.77					17.81
	256QAM	1	48	17.84	17.77					17.80
	256QAM	12	0	17.65	17.68					17.68
	256QAM	12	7	17.48	17.57					17.49
256QAM	12	13	17.55	17.56	17.59	19	5			
	256QAM	12	19	17.62	17.65					17.64
	256QAM	12	25	17.62	17.65					17.64
	256QAM	12	31	17.62	17.65					17.64
	256QAM	12	37	17.62	17.65					17.64

Band 14 Ant 1												
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Tune-up Int (dB)	MPE (dB)				
Channel												
Frequency (MHz)												
QPSK	1	8		793			24	0				
	QPSK	1	25		22.69							
	QPSK	1	49		22.67							
	QPSK	1	97		22.67							
	QPSK	1	194		22.72							
QPSK	25	8		21.58			23	1				
	QPSK	25	25		21.51							
	QPSK	25	49		21.52							
	QPSK	25	97		21.52							
	QPSK	25	194		21.52							
16QAM	1	25		21.96			23	1				
	16QAM	1	49		21.97							
	16QAM	1	97		21.97							
	16QAM	1	194		21.97							
	16QAM	1	388		21.97							
16QAM	25	8		20.82			22	2				
	16QAM	25	25		20.81							
	16QAM	25	49		20.81							
	16QAM	25	97		20.81							
	16QAM	25	194		20.82							
16QAM	1	0		20.78			22	2				
	16QAM	1	25		20.78							
	16QAM	1	49		20.70							
	16QAM	1	97		20.58							
	16QAM	1	194		20.48							
16QAM	25	8		19.48			21	3				
	16QAM	25	25		19.48							
	16QAM	25	49		19.48							
	16QAM	25	97		19.44							
	16QAM	25	194		19.44							
256QAM	1	25		17.70			19	5				
	256QAM	1	49		17.85							
	256QAM	1	97		17.85							
	256QAM	1	194		17.48							
	256QAM	1	388		17.51							
Channel												
Frequency (MHz)												
QPSK	1	8		790.5	793	795.5	24	0				
	QPSK	1	25		22.60	22.61				22.63		
	QPSK	1	49		22.59	22.65				22.36		
	QPSK	12	8		21.61	21.69				21.66		
	QPSK	12	7		21.47	21.50				21.50		
QPSK	12	8		21.43	21.46	21.47	23	1				
	QPSK	12	25		21.48	21.87				21.87		
	QPSK	12	49		21.80	21.81				21.86		
	QPSK	12	97		21.82	21.89				21.87		
	QPSK	12	194		21.82	21.89				21.87		
16QAM	1	0		20.46	20.45	20.45	22	2				
	16QAM	1	12		20.59	20.49				20.47		
	16QAM	1	25		20.59	20.48				20.43		
	16QAM	1	49		20.73	20.74				20.70		
	16QAM	1	97		20.71	20.70				20.67		
16QAM	1	24		19.82	19.86	19.47	21	3				
	16QAM	1	48		19.81	19.87				19.34		
	16QAM	12	13		19.44	19.44				19.34		
	16QAM	12	26		19.31	19.30				19.30		
	16QAM	12	52		19.31	19.30				19.30		
256QAM	1	0		17.66	17.68	17.68	19	5				
	256QAM	1	12		17.63	17.65				17.69		
	256QAM	1	24		17.54	17.54				17.56		
	256QAM	12	13		17.50	17.52				17.52		
	256QAM	12	26		17.39	17.34				17.34		
256QAM	12	13		17.48	17.48	17.48	19	5				
	256QAM	12	26		17.41	17.49				17.41		
	256QAM	12	52		17.41	17.49				17.41		



Band 26 for FCC Ant 1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Max Ch./Freq.	Power Min Ch./Freq.	Power Max Ch./Freq.	Turn-up Time (sec)	MFR (dB)				
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.56	22.62	22.50	24	0				
15	QPSK	1	24	22.47	22.48	22.41						
15	QPSK	1	74	22.54	22.45	22.38	23	1				
15	QPSK	36	0	21.58	21.73	21.57						
15	QPSK	36	39	21.40	21.47	21.38	23	1				
15	QPSK	75	0	21.49	21.65	21.55						
15	16QAM	1	0	21.65	21.69	21.67	23	1				
15	16QAM	1	37	21.75	21.87	21.70						
15	16QAM	1	74	21.70	21.89	21.78	22	2				
15	16QAM	36	0	20.51	20.59	20.44						
15	16QAM	36	39	20.45	20.51	20.44	21	3				
15	16QAM	36	39	20.38	20.41	20.38						
15	16QAM	75	0	20.50	20.62	20.41	22	2				
15	64QAM	1	0	20.74	20.81	20.82						
15	64QAM	1	37	20.59	20.80	20.74	21	3				
15	64QAM	1	74	20.62	20.64	20.70						
15	64QAM	36	0	19.39	19.50	19.35	19	5				
15	64QAM	36	39	19.37	19.58	19.33						
15	256QAM	1	0	17.63	17.73	17.68	19	5				
15	256QAM	1	37	17.59	17.63	17.59						
15	256QAM	1	74	17.61	17.64	17.64	19	5				
15	256QAM	36	0	17.58	17.63	17.58						
15	256QAM	36	39	17.37	17.43	17.29	19	5				
15	256QAM	75	0	17.32	17.45	17.37						
15	256QAM	75	0	17.47	17.43	17.38						
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.59	22.62	22.49	24	0				
15	QPSK	1	24	22.35	22.38	22.31						
15	QPSK	1	49	22.59	22.59	22.52	23	1				
15	QPSK	25	0	21.72	21.82	21.52						
15	QPSK	25	12	21.47	21.51	21.38	23	1				
15	QPSK	50	0	21.94	21.98	21.47						
15	16QAM	1	0	21.91	21.75	21.85	22	2				
15	16QAM	1	25	21.81	21.72	21.84						
15	16QAM	1	49	21.87	21.64	21.75	21	3				
15	16QAM	25	0	20.55	20.62	20.45						
15	16QAM	25	12	20.50	20.53	20.37	22	2				
15	16QAM	25	25	20.40	20.34	20.23						
15	16QAM	50	0	20.34	20.41	20.38	21	3				
15	64QAM	1	0	20.78	20.64	20.78						
15	64QAM	1	25	20.70	20.50	20.70	21	3				
15	64QAM	1	49	20.54	20.50	20.62						
15	64QAM	25	0	19.42	19.57	19.27	19	5				
15	64QAM	25	12	19.47	19.53	19.27						
15	64QAM	25	25	19.30	19.32	19.26	19	5				
15	64QAM	50	0	19.40	19.53	19.37						
15	256QAM	1	0	17.65	17.56	17.60	19	5				
15	256QAM	1	25	17.56	17.52	17.59						
15	256QAM	1	49	17.58	17.59	17.64	19	5				
15	256QAM	25	12	17.34	17.34	17.25						
15	256QAM	25	25	17.40	17.25	17.34	19	5				
15	256QAM	50	0	17.38	17.35	17.31						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.52	22.46	22.45	24	0				
5	QPSK	1	12	22.35	22.44	22.33						
5	QPSK	1	24	22.35	22.35	22.35	23	1				
5	QPSK	12	0	21.70	21.84	21.54						
5	QPSK	12	7	21.41	21.31	21.35	23	1				
5	QPSK	25	0	21.97	21.97	21.47						
5	QPSK	25	0	21.64	21.43	21.43	23	1				
5	16QAM	1	0	21.84	21.78	21.78						
5	16QAM	1	12	21.72	21.62	21.68	22	2				
5	16QAM	1	24	21.85	21.65	21.65						
5	16QAM	12	0	20.51	20.48	20.42	22	2				
5	16QAM	12	12	20.35	20.28	20.21						
5	16QAM	25	0	20.36	20.43	20.36	22	2				
5	16QAM	25	12	20.34	20.37	20.28						
5	16QAM	1	12	20.73	20.57	20.68	21	3				
5	64QAM	1	24	20.58	20.53	20.62						
5	64QAM	12	0	19.40	19.35	19.30	21	3				
5	64QAM	12	7	19.47	19.35	19.35						
5	64QAM	12	12	19.39	19.38	19.24	19	5				
5	64QAM	25	0	19.29	19.27	19.27						
5	256QAM	1	0	17.61	17.61	17.62	19	5				
5	256QAM	1	12	17.62	17.57	17.59						
5	256QAM	1	24	17.62	17.62	17.62	19	5				
5	256QAM	12	0	17.41	17.35	17.35						
5	256QAM	12	7	17.38	17.28	17.28	19	5				
5	256QAM	12	12	17.40	17.28	17.34						
5	256QAM	25	0	17.36	17.35	17.25	19	5				
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.59	22.50	22.45				24	0	
3	QPSK	1	8	22.35	22.43	22.37						
3	QPSK	1	14	22.42	22.29	22.27	23	1				
3	QPSK	1	21	21.61	21.67	21.63						
3	QPSK	8	4	21.43	21.34	21.28	23	1				
3	QPSK	8	7	21.45	21.27	21.31						
3	16QAM	1	0	21.93	21.84	21.86	23	1				
3	16QAM	1	8	21.86	21.69	21.81						
3	16QAM	8	0	21.86	21.53	21.48	22	2				
3	16QAM	8	4	20.43	20.43	20.32						
3	16QAM	8	0	20.38	20.37	20.30	21	3				
3	16QAM	15	0	20.39	20.40	20.32						
3	64QAM	1	0	20.74	20.63	20.78	22	2				
3	64QAM	1	8	20.74	20.50	20.73						
3	64QAM	1	14	20.58	20.57	20.69	21	3				
3	64QAM	8	0	19.43	19.36	19.31						
3	64QAM	8	4	19.47	19.29	19.29	19	5				
3	64QAM	8	7	19.31	19.32	19.31						
3	256QAM	1	0	17.44	17.53	17.34	19	5				
3	256QAM	1	8	17.60	17.55	17.54						
3	256QAM	1	14	17.61	17.57	17.58	19	5				
3	256QAM	8	0	17.40	17.30	17.36						
3	256QAM	8	4	17.39	17.33	17.27	19	5				
3	256QAM	8	7	17.43	17.29	17.31						
3	256QAM	15	0	17.43	17.43	17.31	19	5				
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.59	22.55	22.49				24	0	
1.4	QPSK	1	3	22.35	22.43	22.37						
1.4	QPSK	1	5	22.34	22.26	22.31	23	1				
1.4	QPSK	3	0	22.47	22.53	22.41						
1.4	QPSK	3	1	22.34	22.43	22.39	23	1				
1.4	QPSK	3	3	22.34	22.24	22.20						
1.4	16QAM	1	0	21.61	21.61	21.53	23	1				
1.4	16QAM	1	0	21.94	21.79	21.77						
1.4	16QAM	1	3	21.78	21.67	21.68	23	1				
1.4	16QAM	1	21	21.60	21.60	21.67						
1.4	16QAM	3	0	21.67	21.76	21.77	22	2				
1.4	16QAM	3	1	21.70	21.67	21.67						
1.4	16QAM	6	0	20.39	20.41	20.32	22	2				
1.4	16QAM	1	0	20.80	20.72	20.71						
1.4	64QAM	1	0	20.70	20.59	20.72	22	2				
1.4	64QAM	1	5	20.57	20.56	20.68						
1.4	64QAM	3	0	20.74	20.69	20.69	21	3				
1.4	64QAM	1	8	20.68	20.49	20.68						
1.4	64QAM	3	3	20.50	20.47	20.56	19	5				
1.4	64QAM	8	0	19.44	19.27	19.32						
1.4	256QAM	1	0	17.67	17.64	17.67	19	5				
1.4	256QAM	1	3	17.51	17.58	17.47						
1.4	256QAM	1	5	17.56	17.50	17.58	19	5				
1.4	256QAM	3	0	17.42	17.50	17.37						
1.4	256QAM	3	1	17.34	17.34	17.23	19	5				
1.4	256QAM	12	0	17.40	17.38	17.25						
1.4	256QAM	6	0	17.34	17.37	17.37	19	5				
1.4	256QAM	6	0	17.25	17.37	17.37						

Band 30 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Max Ch./Freq.	Power Min Ch./Freq.	Power Max Ch./Freq.	Turn-up Time (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	0	20.10	20.17	20.14	21	0	
15	QPSK	1	24	20.11	20.16	20.12			
15	QPSK	1	49	20.08	20.05	20.06	21	0	
15	QPSK	25	0	20.10	20.17	20.14			
15	QPSK	25	12	20.11	20.16	20.12	21	0	
15	QPSK	25	24	20.08	20.05	20.06			
15	QPSK	50	0	20.10	20.17	20.14	21	0	
15	QPSK	50	12	20.11	20.16	20.12			
15	QPSK	50	24	20.08	20.05	20.06	21	0	
15	QPSK	1	0	20.10	20.17	20.14			
15	QPSK	1	24	20.11	20.16	20.12	21	0	
15	QPSK	1	49	20.08	20.05	20.06			
15	QPSK	25	0	20.10	20.17	20.14	21	0	
15	QPSK	25	12	20.11	20.16	20.12			
15	QPSK	25	24	20.08	20.05	20.06	21	0	
15	QPSK	50	0	20.10	20.17	20.14			
15	QPSK	50	12	20.11	20.16	20.12	21	0	
15	QPSK	50	24	20.08	20.05	20.06			
15	QPSK	1	0	20.10	20.17	20.14	21	0	
15	QPSK	1	24	20.11	20.16	20.12			
15	QPSK	1	49	20.08	20.05	20.06	21	0	
15	QPSK	25	12	20.11	20.16	20.12			
15	QPSK	25	24	20.08	20.05	20.06	21	0	
15	QPSK	50	0	20.10	20.17	20.14			
15	QPSK	50	12	20.11	20.16	20.12	21	0	
15	QPSK	50	24	20.08	20.05	20.06			
15	QPSK	1	0	20.10	20.17	20.14	21	0	
15	QPSK	1	24	20.11	20.16	20.12			
15	QPSK	1	49	20.08	20.05	20.06	21	0	
15	QPSK	25	12	20.11	20.16	20.12			
15	QPSK	25	24	20.08	20.05	20.06	21	0	
15	QPSK	50	0	20.10	20.17	20.14			
15	QPSK	50	12	20.11	20.16	20.12	21	0	
15	QPSK	50	24	20.08	20.05	20.06			
15	QPSK	1	0	20.10	20.17	20.14	21	0	
15	QPSK	1	24	20.11	20.16	20.12			
15	QPSK	1	49	20.08	20.05	20.06	21	0	
15	QPSK	25	12	20.11	20.16	20.12			
15	QPSK	25	24	20.08	20.05	20.06	21	0	
15	QPSK	50	0	20.10	20.17	20.14			
15	QPSK	50	12	20.11	20.16	20.12	21	0	
15	QPSK	50	24	20.08	20.05	20.06			
15	QPSK	1	0	20.10	20.17	20.14	21	0	
15	QPSK	1	24	20.11	20.16	20.12			
15	QPSK	1	49	20.08	20.05	20.06	21	0	
15	QPSK	25	12	20.11	20.16	20.12			
15	QPSK	25	24	20.08	20.05	20.06	21	0	
15	QPSK	50	0	20.10	20.17	20.14			
15	QPSK	50	12	20.11	20.16	20.12	21	0	
15	QPSK	50	24	20.08	20.05	20.06			
15	QPSK	1	0	20.10	20.17	20.14	21	0	
15	QPSK	1	24	20.11	20.16	20.12			
15	QPSK	1	49	20.08	20.05	20.06	21	0	
15	QPSK	25	12	20.11	20.16	20.12			
15	QPSK	25	24	20.08	20.05	20.06	21	0	
15	QPSK	50	0	20.10	20.17	20.14			
15	QPSK	50	12	20.11	20.16	20.12	21	0	
15	QPSK	50	24	20.08	20.05	20.06			
15	QPSK	1	0	20.10	20.17	20.14	21	0	
15	QPSK	1	24	20.11	20.16	20.12			
15	QPSK	1	49	20.08	20.05	20.06	21	0	
15	QPSK	25	12	20.11	20.16	20.12			
15	QPSK	25	24	20.08	20.05	20.06	21	0	
15	QPSK	50	0	20.10	20.17	20.14			
15	QPSK	50	12	20.11	20.16	20.12	21	0	
15	QPSK	50	24	20.08	20.05	20.06			
15	QPSK	1	0	20.10	20.17	20.14	21	0	
15	QPSK	1	24	20.11	20.16	20.12			
15	QPSK	1	49	20.08	20.05	20.06	21	0	
15	QPSK	25	12	20.11	20.16	20.12			
15	QPSK	25	24	20.08	20.05	20.06	21	0	
15	QPSK	50	0	20.10	20.17	20.14			
15	QPSK	50	12	20.11	20.16	20.12	21	0	
15	QPSK	50	24	20.08	20.05	20.06			
15	QPSK	1	0	20.10	20.17	20.14	21	0	
15	QPSK	1	24	20.11	20.16	20.12			
15	QPSK	1	49	20.08	20.05	20.06	21	0	
15	QPSK	25	12	20.11	20.16	20.12			
15	QPSK	25	24	20.08	20.05	20.06	21	0	
15	QPSK	50	0	20.10	20.17	20.14			
15	QPSK	50	12	20.11	20.16	20.12	21	0	
15	QPSK	50	24	20.08	20.05	20.06			
15	QPSK	1	0	20.10	20.17	20.14	21	0	
15	QPSK	1	24	20.11	20.16	20.12			
15	QPSK	1	49	20.08	20.05	20.06	21	0	
15	QPSK	25	12	20.11	20.16	20.12			
15	QPSK	25	24	20.08	20.05	20.06	21	0	
15	QPSK	50	0	20.10	20.17	20.14			
15	QPSK	50	12	20.11	20.16	20.12	21	0	
15	QPSK	50	24	20.08	20.05	20.06			
15	QPSK	1	0	20.10	20.17	20.14	21	0	
15	QPSK	1	24	20.11	20.16	20.12			
15	QPSK	1	49	20.08	20.05	20.06	21	0	
15	QPSK	25	12	20.11	20.16	20.12			
15	QPSK	25	24	20.08	20.05	20.06	21	0	
15	QPSK	50	0	20.10	20.17	20.14			
15	QPSK	50	12	20.11	20.16	20.12	21	0	
15	QPSK	50	24	20.08	20.05	20.06			
15	QPSK	1	0	20.10	20.17	20.14	21	0	
15	QPSK	1	24	20.11	20.16	20.12			
15	QPSK	1	49	20.08	20.05	20.06	21	0	
15	QPSK	25	12	20.11	20.16	20.12			
15	QPSK	25	24	20.08	20.05	20.06	21	0	
15	QPSK	50	0	20.10	20.17	20.14			
15	QPSK	50	12	20.11	20.16	20.12	21	0	
15	QPSK	50	24	20.08	20.05	20.06			
15	QPSK	1	0	20.10	20.17	20.14	21	0	
15	QPSK	1	24	20.11	20.16	20.12			
15	QPSK	1	49	20.08	20.05	20.06	21	0	
15	QPSK	25	12	20.11	20.16	20.12			
15	QPSK	25	24	20.08	20.05	20.06	21	0	
15	QPSK	50	0	20.10	20.17	20.14			
15	QPSK	50	12	20.11	20.16	20.12	21	0	
15	QPSK	50	24	20.08	20.05	20.06			
15	QPSK	1	0	20.10	20.17	20.14	21	0	
15	QPSK	1	24	20.11	20.16	20.12			
15	QPSK	1	49	20.08	20.05	20.06	21	0	
15	QPSK	25	12	20.11	20.16	20.12			
15	QPSK	25	24	20.08	20.05	20.06	21	0	
15	QPSK	50	0	20.10	20.17	20.14			
15	QPSK	50	12	20.11	20.16	20.12	21	0	
15	QPSK	50	24	20.08	20.05	20.06			
15	QPSK	1	0	20.10	20.17	20.14	21	0	
15	QPSK	1	24	20.11	20.16	20.12			
15	QPSK	1	49	20.08	20.05	20.06	21	0	
15	QPSK	25	12	20.11	20.16	20.12			
15	QPSK	25	24	20.08	20.05	20.06	21	0	
15	QPSK	50	0	20.10	20.17	20.14			
15	QPSK	50	12	20.11	20.16	20.12	21	0	
15	QPSK	50	24	20.08	20.05	20.06			
15	QPSK	1	0	20.10	20.17	20.14	21	0	
15	QPSK	1	24	20.11	20.16	20.12			
15	QPSK	1	49	20.08	20.05	20.06	21	0	
15	QPSK	25	12	20.11	20.16	20.12			
15	QPSK	25	24	20.08	20.05	20.06	21	0	
15	QPSK	50	0	20.10	20.17	20.14			
15	QPSK	50	12	20.11	20.16	20.12	21	0	
15	QPSK	50	24	20.08	20.05	20.06			
15	QPSK	1	0	20.10	20.17	20.14	21	0	
15	QPSK	1	24	20.11	20.16	20.12			
15	QPSK	1	49	20.08	20.05	20.06	21	0	
15	QPSK	25	12	20.11	20.16	20.12			
15	QPSK	25	24	20.08	20.05	20.06	21	0	
15	QPSK	50	0	20.10	20.17	20.14			
15	QPSK	50	12	20.11	20.16	20.12	21	0	
15	QPSK	50	24	20.08	20.05	20.06			
15	QPSK	1	0	20.10	20.17	20.14	21	0	
15	QPSK	1	24	20.11	20.16	20.12			
15	QPSK	1	49	20.08	20.05	20.06	21	0	
15	QPSK	25	12	20.11	20.16	20.12			
15	QPSK	25	24	20.08	20.05	20.06	21	0	
15	QPSK	50	0	20.10	20.17	20.14			
15	QPSK	50	12	20.11	20.16	20.12	21	0	
15	QPSK	50	24	20.08	20.05	20.06			
15	QPSK	1	0	20.10	20.17	20.14	21	0	
15	QPSK	1	24	20.11	20.16	20.12			
15	QPSK	1	49	20.08	20.05	20.06	21	0	
15	QPSK	25	12	20.11	20.16	20.12			
15	QPSK	25	24	20.08	20.05	20.06	21	0	
15	QPSK	50	0	20.10	20.17	20.14			
15	QPSK	50	12	20.11	20.16	20.12	21	0	
15	QPSK	50	24	20.08	20.05	20.06			
15	QPSK								



Band 38 Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPE (dB)			
Channel											
Frequency (MHz)				37465	38050	38150					
20	QPSK	1	0	22.76	22.84	22.86	24	0			
20	QPSK	1	48	22.84	22.87	22.84					
20	QPSK	1	88	22.86	22.92	22.90					
20	QPSK	50	0	21.64	21.52	21.70					
20	QPSK	50	24	21.58	21.74	21.59	23	1			
20	QPSK	50	48	21.59	21.63	21.58					
20	QPSK	100	0	21.73	21.79	21.72					
20	16QAM	1	0	21.90	22.07	22.07					
20	16QAM	1	48	21.90	22.07	22.07	23	1			
20	16QAM	1	96	21.86	22.04	21.96					
20	16QAM	50	0	20.68	20.76	20.58					
20	16QAM	50	24	20.68	20.76	20.58					
20	16QAM	100	0	20.63	20.69	20.63	22	2			
20	16QAM	100	1	20.63	20.69	20.63					
20	16QAM	1	48	20.79	20.89	20.80					
20	16QAM	1	96	20.71	20.85	20.74					
20	16QAM	50	0	19.50	19.52	19.63	21	3			
20	16QAM	50	24	19.53	19.60	19.52					
20	16QAM	50	48	19.52	19.59	19.57					
20	16QAM	100	0	19.59	19.65	19.55					
20	25QAM	1	0	17.79	17.85	17.83	19	5			
20	25QAM	1	48	17.76	17.89	17.75					
20	25QAM	1	96	17.77	17.83	17.78					
20	25QAM	50	0	17.52	17.73	17.59					
20	25QAM	50	24	17.52	17.56	17.40	19	5			
20	25QAM	50	48	17.40	17.55	17.51					
20	25QAM	100	0	17.50	17.50	17.50					
Channel											
Frequency (MHz)				37425	38050	38175	Tune-up limit (dBm)	MPE (dB)			
15	QPSK	1	0	22.74	22.75	23.12	24	0			
15	QPSK	1	37	22.82	22.89	22.82					
15	QPSK	1	74	22.42	22.84	22.45					
15	QPSK	36	0	21.60	21.71	21.69					
15	QPSK	36	20	21.49	21.65	21.53	23	1			
15	QPSK	36	37	21.52	21.63	21.61					
15	QPSK	75	0	21.62	21.70	21.70					
15	16QAM	1	0	21.83	22.01	22.06					
15	16QAM	1	37	21.82	22.04	21.93	23	1			
15	16QAM	1	74	21.84	22.03	21.92					
15	16QAM	36	0	20.68	20.65	20.56					
15	16QAM	36	20	20.67	20.68	20.59					
15	16QAM	36	37	20.43	20.68	20.59	22	2			
15	16QAM	75	0	20.62	20.60	20.59					
15	16QAM	75	0	20.78	20.84	20.80					
15	16QAM	1	37	20.79	20.97	20.88					
15	16QAM	74	24	20.67	20.75	20.84	21	3			
15	16QAM	36	0	19.50	19.65	19.44					
15	16QAM	36	20	19.43	19.69	19.44					
15	16QAM	36	37	19.51	19.76	19.64					
15	25QAM	1	0	19.50	19.55	19.45	19	5			
15	25QAM	1	0	17.71	17.82	17.77					
15	25QAM	1	37	17.77	17.77	17.77					
15	25QAM	36	0	17.53	17.62	17.53					
15	25QAM	36	20	17.52	17.62	17.62	19	5			
15	25QAM	36	37	17.48	17.61	17.42					
15	25QAM	75	0	17.56	17.54	17.47					
Channel											
Frequency (MHz)				37400	38000	38100	Tune-up limit (dBm)	MPE (dB)			
10	QPSK	1	0	22.51	22.56	22.58	24	0			
10	QPSK	1	25	22.56	22.57	22.42					
10	QPSK	1	48	22.40	22.60	22.46					
10	QPSK	25	0	21.57	21.77	21.77					
10	QPSK	25	12	21.47	21.73	21.49	23	1			
10	QPSK	25	25	21.60	21.52	21.38					
10	HQAM	1	0	21.88	21.86	22.00					
10	HQAM	1	0	21.88	21.86	22.00					
10	HQAM	1	25	21.86	22.03	21.81	23	1			
10	HQAM	1	49	21.85	21.99	21.84					
10	HQAM	25	0	20.66	20.69	20.45					
10	HQAM	25	0	20.44	20.74	20.49					
10	HQAM	25	25	20.42	20.56	20.59	22	2			
10	HQAM	25	25	20.61	20.55	20.59					
10	HQAM	25	49	20.62	20.68	20.60					
10	HQAM	25	49	20.78	20.68	20.83					
10	HQAM	1	48	20.61	20.75	20.82	22	2			
10	HQAM	25	0	19.53	19.64	19.60					
10	HQAM	25	12	19.51	19.52	19.41					
10	HQAM	25	25	19.51	19.54	19.53					
10	25QAM	1	0	19.54	19.64	19.51	19	5			
10	25QAM	1	0	17.67	17.77	17.77					
10	25QAM	1	25	17.70	17.78	17.75					
10	25QAM	1	49	17.76	17.77	17.71					
10	25QAM	25	0	17.52	17.63	17.53	19	5			
10	25QAM	25	12	17.51	17.67	17.32					
10	25QAM	25	25	17.54	17.47	17.42					
10	25QAM	50	0	17.59	17.66	17.50					
Channel											
Frequency (MHz)				37770	38000	38225	Tune-up limit (dBm)	MPE (dB)			
5	QPSK	1	0	22.05	22.15	22.07	24	0			
5	QPSK	1	12	22.54	22.57	22.51					
5	QPSK	1	24	22.42	22.55	22.46					
5	QPSK	12	0	21.60	21.76	21.75					
5	QPSK	12	7	21.52	21.67	21.58	23	1			
5	QPSK	12	13	21.56	21.57	21.43					
5	QPSK	25	0	21.66	21.73	21.67					
5	HQAM	1	0	21.88	22.03	22.04					
5	HQAM	1	12	21.80	22.09	21.82	23	1			
5	HQAM	1	24	21.76	21.96	21.86					
5	HQAM	12	0	20.64	20.71	20.60					
5	HQAM	12	7	20.47	20.65	20.44					
5	HQAM	12	13	20.52	20.65	20.56	22	2			
5	HQAM	25	0	20.66	20.68	20.55					
5	HQAM	1	0	20.83	20.80	20.81					
5	HQAM	12	13	20.69	20.81	20.83					
5	HQAM	1	24	20.69	20.75	20.83	22	2			
5	HQAM	12	0	19.49	19.59	19.46					
5	HQAM	12	7	19.47	19.51	19.42					
5	HQAM	12	13	19.51	19.56	19.47					
5	25QAM	1	0	19.50	19.58	19.50	21	3			
5	25QAM	1	0	17.70	17.76	17.72					
5	25QAM	1	12	17.79	17.83	17.70	19	5			
5	25QAM	1	24	17.77	17.81	17.77					
5	25QAM	12	0	17.52	17.73	17.56	19	5			
5	25QAM	12	7	17.46	17.62	17.36					
5	25QAM	12	13	17.59	17.60	17.49	19	5			
5	25QAM	25	0	17.52	17.60	17.52					

Band 7 Ant 2											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				20850	21100	21350					
Frequency (MHz)				2510	2535	2560					
20	QPSK	1	0	22.57	22.75	22.65	23.1	0			
20	QPSK	1	49	22.70	22.73	22.71					
20	QPSK	1	99	22.64	22.71	22.65					
20	QPSK	50	0	21.94	22.11	22.08					
20	QPSK	50	24	21.85	21.93	21.84	23	0.1			
20	QPSK	50	50	21.88	21.92	21.81					
20	QPSK	100	0	21.95	22.09	22.02					
20	16QAM	1	0	22.20	22.40	22.24					
20	16QAM	1	49	22.21	22.31	22.17	23	0.1			
20	16QAM	1	99	22.23	22.29	22.20					
20	16QAM	50	0	20.91	20.95	20.88					
20	16QAM	50	24	20.89	21.03	20.80					
20	16QAM	50	50	20.75	20.91	20.89	22	1.1			
20	16QAM	100	0	20.90	20.93	20.88					
20	64QAM	1	0	21.12	21.26	21.27					
20	64QAM	1	49	21.06	21.15	21.15					
20	64QAM	1	99	21.08	21.18	21.16	21	2.1			
20	64QAM	50	0	19.86	19.91	19.87					
20	64QAM	50	24	19.87	19.84	19.71					
20	64QAM	50	50	19.83	19.87	19.74					
20	64QAM	100	0	19.83	19.91	19.75	19	4.1			
20	256QAM	1	0	18.15	18.19	18.07					
20	256QAM	1	49	18.04	18.08	18.00					
20	256QAM	1	99	18.07	18.00	18.12					
20	256QAM	50	0	17.82	17.93	17.88	19	4.1			
20	256QAM	50	24	17.74	17.83	17.66					
20	256QAM	50	50	17.78	17.84	17.82					
20	256QAM	100	0	17.93	17.92	17.81					
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2507.5	2535	2562.5					
15	QPSK	1	0	22.51	22.60	22.52	23.1	0			
15	QPSK	1	37	22.64	22.64	22.57					
15	QPSK	1	74	22.51	22.69	22.54					
15	QPSK	36	0	21.90	22.07	21.99					
15	QPSK	36	20	21.74	21.92	21.83	23	0.1			
15	QPSK	36	39	21.76	21.83	21.73					
15	QPSK	75	0	21.88	22.00	22.00					
15	16QAM	1	0	22.09	22.38	22.20					
15	16QAM	1	37	22.16	22.22	22.10	23	0.1			
15	16QAM	1	74	22.15	22.18	22.09					
15	16QAM	36	0	20.91	20.89	20.88					
15	16QAM	36	20	20.82	20.95	20.78					
15	16QAM	36	39	20.88	20.85	20.86	22	1.1			
15	16QAM	75	0	20.85	20.87	20.84					
15	64QAM	1	0	21.03	21.23	21.17					
15	64QAM	1	37	21.04	21.15	21.12					
15	64QAM	1	74	21.06	21.08	21.12	22	1.1			
15	64QAM	36	0	19.81	19.90	19.80					
15	64QAM	36	20	19.85	19.75	19.71					
15	64QAM	36	39	19.77	19.86	19.63					
15	64QAM	75	0	19.78	19.87	19.72	19	4.1			
15	256QAM	1	0	18.15	18.18	17.97					
15	256QAM	1	37	17.99	17.97	17.90					
15	256QAM	1	74	17.98	17.92	18.05					
15	256QAM	36	0	17.77	17.92	17.82	19	4.1			
15	256QAM	36	20	17.70	17.78	17.61					
15	256QAM	36	39	17.74	17.83	17.74					
15	256QAM	75	0	17.88	17.92	17.73					
Channel				20800	21100	21400	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				2505	2535	2565					
10	QPSK	1	0	22.48	22.56	22.50	23.1	0			
10	QPSK	1	25	22.63	22.65	22.59					
10	QPSK	1	49	22.52	22.60	22.59					
10	QPSK	25	0	21.86	22.07	22.00					
10	QPSK	25	12	21.84	21.85	21.78	23	0.1			
10	QPSK	25	25	21.87	21.89	21.74					
10	QPSK	50	0	21.86	22.04	21.96					
10	16QAM	1	0	22.17	22.37	22.20					
10	16QAM	1	25	22.16	22.31	22.10	23	0.1			
10	16QAM	1	49	22.14	22.24	22.16					
10	16QAM	25	0	20.90	20.84	20.80					
10	16QAM	25	12	20.81	20.98	20.72					
10	16QAM	25	25	20.71	20.81	20.84	22	1.1			
10	16QAM	50	0	20.78	20.82	20.81					
10	64QAM	1	0	21.03	21.16	21.23					
10	64QAM	1	25	21.04	21.09	21.07					
10	64QAM	1	49	21.05	21.07	21.06	22	1.1			
10	64QAM	25	0	19.77	19.84	19.82					
10	64QAM	25	12	19.81	19.73	19.63					
10	64QAM	25	25	19.77	19.78	19.67					
10	64QAM	50	0	19.82	19.88	19.65	19	4.1			
10	256QAM	1	0	18.14	18.09	18.01					
10	256QAM	1	25	17.97	18.04	17.90					
10	256QAM	1	49	18.06	17.99	18.09					
10	256QAM	25	0	17.76	17.85	17.82	19	4.1			
10	256QAM	25	12	17.67	17.78	17.66					
10	256QAM	25	25	17.70	17.83	17.81					
10	256QAM	50	0	17.86	17.84	17.74					
Channel				20775	21100	21425	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5					
5	QPSK	1	0	22.52	22.60	22.57	23.1	0			
5	QPSK	1	12	22.56	22.65	22.60					
5	QPSK	1	24	22.53	22.64	22.59					
5	QPSK	12	0	21.87	22.08	22.07					
5	QPSK	12	7	21.75	21.87	21.81	23	0.1			
5	QPSK	12	13	21.84	21.91	21.71					
5	QPSK	25	0	21.86	22.02	21.90					
5	16QAM	1	0	22.16	22.40	22.15					
5	16QAM	1	12	22.16	22.22	22.07	23	0.1			
5	16QAM	1	24	22.20	22.27	22.09					
5	16QAM	12	0	20.88	20.83	20.85					
5	16QAM	12	7	20.82	20.99	20.69					
5	16QAM	12	13	20.72	20.83	20.85	22	1.1			
5	16QAM	25	0	20.83	20.83	20.88					
5	64QAM	1	0	21.04	21.26	21.27					
5	64QAM	1	12	21.04	21.10	21.11					
5	64QAM	1	24	20.97	21.15	21.10	22	1.1			
5	64QAM	12	0	19.84	19.84	19.82					
5	64QAM	12	7	19.80	19.73	19.65					
5	64QAM	12	13	19.71	19.83	19.67					
5	64QAM	25	0	19.81	19.83	19.66	21	2.1			
5	256QAM	1	0	18.05	18.15	18.05					
5	256QAM	1	12	17.95	18.04	17.91					
5	256QAM	1	24	18.01	17.92	18.09					
5	256QAM	12	0	17.82	17.83	17.79	19	4.1			
5	256QAM	12	7	17.69	17.75	17.64					
5	256QAM	12	13	17.75	17.82	17.77					
5	256QAM	25	0	17.84	17.82	17.81					

Band 30 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				27710			Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2310					
10	QPSK	1	0		23.09		24	0	
10	QPSK	1	25		22.89				
10	QPSK	1	49		22.91				
10	QPSK	25	0		22.09				
10	QPSK	25	12		21.92		23	1	
10	QPSK	25	25		21.84				
10	QPSK	50	0		22.04				
10	16QAM	1	0		22.36				
10	16QAM	1	25		22.36		23	1	
10	16QAM	1	49		22.33				
10	16QAM	25	0		20.97				
10	16QAM	25	12		20.91				
10	16QAM	25	25		20.89		22	2	
10	16QAM	50	0		20.93				
10	64QAM	1	0		21.28				
10	64QAM	1	25		21.23				
10	64QAM	1	49		21.09		21	2	
10	64QAM	25	0		19.92				
10	64QAM	25	12		19.85				
10	64QAM	25	25		19.83				
10	64QAM	50	0		19.88		21	3	
10	256QAM	1	0		18.10				
10	256QAM	1	25		18.14				
10	256QAM	1	49		18.07				
10	256QAM	25	0		17.92		19	5	
10	256QAM	25	12		17.80				
10	256QAM	25	25		17.91				
10	256QAM	50	0		17.84				
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	0	23.04	23.04	23.03	24	0	
5	QPSK	1	12	22.81	22.88	22.78			
5	QPSK	1	24	22.86	22.81	22.88			
5	QPSK	12	0	22.07	21.99	22.05			
5	QPSK	12	7	21.85	21.80	21.92	23	1	
5	QPSK	12	13	21.73	21.79	21.75			
5	QPSK	25	0	22.00	22.01	21.96			
5	16QAM	1	0	22.33	22.33	22.36			
5	16QAM	1	12	22.25	22.25	22.33	23	1	
5	16QAM	1	24	22.23	22.29	22.22			
5	16QAM	12	0	20.91	20.96	20.92			
5	16QAM	12	7	20.88	20.90	20.82			
5	16QAM	12	13	20.86	20.84	20.78	22	2	
5	16QAM	25	0	20.89	20.86	20.83			
5	64QAM	1	0	21.22	21.24	21.22			
5	64QAM	1	12	21.22	21.17	21.21			
5	64QAM	1	24	20.99	21.01	21.00	22	2	
5	64QAM	12	0	19.84	19.80	19.91			
5	64QAM	12	7	19.74	19.83	19.74			
5	64QAM	12	13	19.76	19.80	19.71			
5	64QAM	25	0	19.83	19.79	19.85	21	3	
5	256QAM	1	0	18.04	18.04	18.05			
5	256QAM	1	12	18.14	18.10	18.09			
5	256QAM	1	24	17.98	18.03	18.03			
5	256QAM	12	0	17.91	17.91	17.85	19	5	
5	256QAM	12	7	17.71	17.79	17.79			
5	256QAM	12	13	17.85	17.81	17.85			
5	256QAM	25	0	17.72	17.80	17.72			

Band 38 Ant 2									
RF [MHz]	Modulation	RB [Hz]	RF Offset	Power [dBm] C/Freq [Hz]	Power [dBm] C/Freq [Hz]	Power [dBm] C/Freq [Hz]	Time up test (dBm)	MPE (dB)	
Channel									
Frequency [MHz]									
20	QPSK	1	0	22.57	22.53	22.53			
20	QPSK	1	49	22.44	22.48	22.39	24	0	
20	QPSK	1	99	22.36	22.47	22.38			
20	QPSK	50	0	21.87	21.87	21.87			
20	QPSK	50	24	21.41	21.53	21.37	23	1	
20	QPSK	100	0	21.52	21.50	21.50			
20	16QAM	1	0	21.80	21.87	21.78			
20	16QAM	1	21	21.87	21.87	21.87	23	1	
20	16QAM	1	96	21.74	21.84	21.78			
20	16QAM	50	0	20.47	20.50	20.38			
20	16QAM	50	24	20.35	20.31	20.37	22	2	
20	16QAM	50	50	20.28	20.42	20.34			
20	16QAM	100	0	20.44	20.49	20.38			
20	16QAM	100	0	20.72	20.73	20.77			
20	64QAM	1	49	20.56	20.71	20.78	22	2	
20	64QAM	1	99	20.48	20.51	20.48			
20	64QAM	50	0	19.49	19.53	19.44			
20	64QAM	50	24	19.34	19.48	19.35	21	3	
20	64QAM	50	50	19.33	19.33	19.35			
20	64QAM	100	0	19.35	19.43	19.27			
20	256QAM	1	0	17.87	17.85	17.78			
20	256QAM	1	75	17.57	17.61	17.58	19	5	
20	256QAM	1	99	17.65	17.58	17.62			
20	256QAM	50	0	17.44	17.44	17.44			
20	256QAM	50	24	17.38	17.33	17.24	19	5	
20	256QAM	50	50	17.35	17.44	17.32			
20	256QAM	100	0	17.42	17.43	17.38			
Channel									
Frequency [MHz]									
15	QPSK	1	0	22.73	22.73	22.73	Time up test (dBm)	MPE (dB)	
15	QPSK	1	37	22.38	22.39	22.34	24	0	
15	QPSK	1	74	22.29	22.38	22.30			
15	QPSK	36	0	21.35	21.35	21.35			
15	QPSK	36	20	21.35	21.41	21.38	23	1	
15	QPSK	36	40	21.35	21.35	21.37			
15	QPSK	75	0	21.45	21.58	21.46			
15	16QAM	1	0	21.69	21.94	21.73			
15	16QAM	1	21	21.63	21.63	21.63	23	1	
15	16QAM	1	74	21.65	21.73	21.72			
15	16QAM	36	0	20.40	20.42	20.38			
15	16QAM	36	20	20.32	20.31	20.31	22	2	
15	16QAM	36	36	20.26	20.31	20.31			
15	16QAM	75	0	20.54	20.74	20.67			
15	64QAM	1	37	20.54	20.69	20.68	22	2	
15	64QAM	1	74	20.51	20.59	20.68			
15	64QAM	36	0	19.35	19.35	19.35			
15	64QAM	36	20	19.29	19.30	19.35	21	3	
15	64QAM	36	40	19.29	19.34	19.34			
15	64QAM	75	0	19.31	19.37	19.35			
15	256QAM	1	0	17.57	17.61	17.66			
15	256QAM	1	37	17.54	17.68	17.64	19	5	
15	256QAM	1	74	17.57	17.60	17.58			
15	256QAM	36	0	17.34	17.32	17.27			
15	256QAM	36	20	17.34	17.36	17.37	19	5	
15	256QAM	36	40	17.34	17.36	17.38			
15	256QAM	75	0	17.42	17.43	17.38			
Channel									
Frequency [MHz]									
5	QPSK	1	0	22.73	22.73	22.73	Time up test (dBm)	MPE (dB)	
5	QPSK	1	12	22.53	22.56	22.53	24	0	
5	QPSK	1	48	22.30	22.42	22.36			
5	QPSK	1	215	21.45	21.85	21.52			
5	QPSK	25	12	21.32	21.44	21.37	23	1	
5	QPSK	25	12	21.32	21.32	21.32			
5	QPSK	50	0	21.48	21.54	21.52			
5	16QAM	1	0	21.78	21.87	21.70			
5	16QAM	1	21	21.78	21.78	21.78	23	1	
5	16QAM	1	49	21.71	21.79	21.71			
5	16QAM	25	0	20.46	20.49	20.38			
5	16QAM	25	20	20.32	20.31	20.38	22	2	
5	16QAM	25	25	20.19	20.23	20.24			
5	16QAM	50	0	20.47	20.49	20.47			
5	64QAM	1	0	20.65	20.77	20.66			
5	64QAM	1	25	20.62	20.67	20.68	22	2	
5	64QAM	1	25	20.62	20.62	20.62			
5	64QAM	25	0	19.44	19.43	19.39			
5	64QAM	25	12	19.27	19.40	19.29	21	3	
5	64QAM	25	12	19.27	19.29	19.34			
5	64QAM	50	0	19.31	19.34	19.29			
5	256QAM	1	0	17.64	17.68	17.64			
5	256QAM	1	15	17.62	17.68	17.67	19	5	
5	256QAM	1	49	17.55	17.58	17.68			
5	256QAM	25	0	17.35	17.35	17.26			
5	256QAM	25	12	17.36	17.31	17.19	19	5	
5	256QAM	25	15	17.35	17.41	17.22			
5	256QAM	50	0	17.42	17.43	17.38			
Channel									
Frequency [MHz]									
5	QPSK	1	12	22.50	22.36	22.30	24	0	
5	QPSK	1	48	22.30	22.45	22.36			
5	QPSK	12	7	21.34	21.49	21.30	23	1	
5	QPSK	12	21	21.32	21.32	21.32			
5	QPSK	25	0	21.46	21.58	21.46			
5	16QAM	1	0	21.75	21.89	21.78			
5	16QAM	1	21	21.75	21.75	21.75	23	1	
5	16QAM	1	24	21.64	21.83	21.62			
5	16QAM	12	0	20.45	20.47	20.38			
5	16QAM	12	12	20.32	20.34	20.34	22	2	
5	16QAM	12	13	20.26	20.41	20.32			
5	16QAM	25	0	20.47	20.49	20.47			
5	64QAM	1	0	20.60	20.81	20.77			
5	64QAM	1	12	20.60	20.67	20.75	22	2	
5	64QAM	1	25	20.60	20.60	20.64			
5	64QAM	12	0	19.44	19.42	19.34			
5	64QAM	12	7	19.28	19.38	19.31	21	3	
5	64QAM	12	12	19.32	19.34	19.34			
5	64QAM	25	0	19.29	19.43	19.19			
5	256QAM	1	0	17.56	17.68	17.68			
5	256QAM	1	17	17.62	17.68	17.67	19	5	
5	256QAM	1	24	17.54	17.53	17.60			
5	256QAM	12	0	17.37	17.37	17.28			
5	256QAM	12	7	17.38	17.22	17.23			
5	256QAM	12	13	17.30	17.38	17.29	19	5	

Band 41 Ant 2										
BNr (MHz)	Modulation	RIS Size	RIS Offset	Power Low Freq (dBm)	Power Low Freq (dBm)	Power Mid Freq (dBm)	Power High Freq (dBm)	Power High Freq (dBm)	Turn-up time (dB)	MFR (dB)
Channel										
Frequency (MHz)				369750	40185	40600	41065	41660		
20	QPSK	5	0	22.57	22.68	22.68	22.72	22.58		
20	QPSK	1	48	22.57	22.65	22.63	22.60	22.44		0
20	QPSK	5	96	22.52	22.49	22.55	22.53	22.40		
20	QPSK	5	50	21.68	21.61	21.61	21.70	21.66		
20	QPSK	50	24	21.60	21.56	21.72	21.58	21.44	23	1
20	QPSK	50	24	21.62	21.57	21.62	21.58	21.46		
20	QPSK	100	5	21.71	21.63	21.61	21.68	21.60		
20	16QAM	1	0	21.83	21.91	22.06	22.06	21.88		
20	16QAM	1	48	21.82	21.80	21.82	21.82	21.62		
20	16QAM	1	96	21.97	21.82	22.10	21.90	21.80		
20	16QAM	50	0	20.82	20.56	20.71	20.55	20.52		
20	16QAM	50	24	20.82	20.60	20.83	20.60	20.41		
20	16QAM	50	24	20.50	20.50	20.97	20.53	20.21	22	2
20	16QAM	100	0	20.33	20.57	20.56	20.60	20.47		
20	256QAM	1	0	20.86	20.87	20.87	20.87	20.87		
20	256QAM	1	48	20.84	20.72	20.86	20.86	20.75		
20	256QAM	1	96	20.79	20.76	20.89	20.89	20.73		
20	256QAM	50	0	19.30	19.55	19.71	19.54	19.45		
20	256QAM	50	24	19.47	19.55	19.57	19.42	19.38		
20	256QAM	50	24	19.49	19.62	19.63	19.58	19.34		
20	256QAM	100	0	18.46	18.47	19.08	19.45	19.41		
20	256QAM	1	0	17.71	17.81	17.86	17.85	17.71		
20	256QAM	1	48	17.74	17.79	17.77	17.72	17.57	19	5
20	256QAM	1	96	17.63	17.77	17.77	17.62	17.70		
20	256QAM	50	0	17.67	17.54	17.61	17.58	17.47		
20	256QAM	50	24	17.48	17.55	17.51	17.39	17.30		
20	256QAM	50	24	17.47	17.54	17.55	17.57	17.48		
20	256QAM	100	0	17.66	17.48	17.68	17.58	17.34		
Channel										
Frequency (MHz)				369750	40173	40600	41068	41616	Turn-up time (dB)	MFR (dB)
15	QPSK	5	0	22.60	22.63	22.73	22.74	22.68		
15	QPSK	1	37	22.45	22.56	22.59	22.59	22.35		0
15	QPSK	1	74	22.48	22.48	22.51	22.43	22.31		
15	QPSK	5	24	21.53	21.48	21.62	21.48	21.66		
15	QPSK	36	20	21.53	21.53	21.66	21.42	21.33		
15	QPSK	36	20	21.58	21.49	21.58	21.56	21.47		
15	QPSK	75	0	21.68	21.51	21.77	21.65	21.49		
15	16QAM	1	0	21.87	21.83	21.96	21.89	21.83		
15	16QAM	1	37	21.82	21.82	21.83	21.73	21.78		
15	16QAM	1	74	21.92	21.49	22.00	21.91	21.74		
15	16QAM	36	0	20.81	20.68	20.98	20.42	20.44		
15	16QAM	36	0	20.80	20.82	20.98	20.82	20.68	22	2
15	16QAM	36	36	20.41	20.40	20.55	20.50	20.45		
15	16QAM	75	0	20.90	20.76	20.95	20.80	20.80		
15	16QAM	75	0	20.90	20.76	20.95	20.80	20.80		
15	16QAM	1	37	20.75	20.68	20.76	20.70	20.68		
15	16QAM	1	74	20.75	20.73	20.76	20.73	20.62		
15	16QAM	36	0	19.47	19.52	19.60	19.52	19.38		
15	16QAM	36	20	19.39	19.50	19.47	19.29	19.34		
15	16QAM	36	20	19.35	19.50	19.43	19.29	19.30	21	3
15	16QAM	75	0	19.41	19.44	19.54	19.43	19.35		
15	16QAM	75	0	19.46	19.46	19.54	19.46	19.35		
15	16QAM	1	74	17.80	17.76	17.79	17.66	17.85		
15	256QAM	1	37	17.71	17.72	17.62	17.62	17.58	19	5
15	256QAM	1	74	17.51	17.72	17.74	17.76	17.56		
15	256QAM	50	0	17.46	17.44	17.44	17.44	17.44		
15	256QAM	36	20	17.41	17.53	17.45	17.34	17.24	19	5
15	256QAM	36	36	17.47	17.47	17.48	17.42	17.31		
15	256QAM	75	0	17.66	17.47	17.68	17.58	17.34		
Channel										
Frequency (MHz)				369675	40160	40600	41060	41600	Turn-up time (dB)	MFR (dB)
5	QPSK	5	0	22.61	22.61	22.71	22.76	22.65		
5	QPSK	1	25	22.49	22.52	22.52	22.50	22.24		0
5	QPSK	1	48	22.40	22.44	22.43	22.29	22.36		
5	QPSK	5	24	21.57	21.53	21.67	21.53	21.63		
5	QPSK	25	12	21.47	21.44	21.67	21.51	21.39	23	1
5	QPSK	25	12	21.48	21.42	21.67	21.51	21.41		
5	QPSK	60	5	21.62	21.58	21.71	21.60	21.54		
5	16QAM	1	0	21.83	21.86	21.98	21.92	21.80		
5	16QAM	1	24	21.82	21.87	21.94	21.81	21.69		
5	16QAM	1	48	21.94	21.74	22.04	21.92	21.70		
5	16QAM	25	0	20.59	20.32	20.60	20.44	20.20		
5	16QAM	25	12	20.52	20.48	20.60	20.48	20.35	22	2
5	16QAM	25	24	20.47	20.42	20.53	20.48	20.42		
5	16QAM	60	20	20.32	20.28	20.40	20.32	20.37		
5	16QAM	60	20	20.30	20.26	20.34	20.28	20.20		
5	16QAM	1	25	20.73	20.67	20.75	20.73	20.72	22	2
5	16QAM	25	12	20.72	20.67	20.75	20.73	20.62		
5	16QAM	25	0	19.32	19.55	19.67	19.47	19.41		
5	16QAM	25	12	19.43	19.42	19.44	19.37	19.27		
5	16QAM	25	24	19.40	19.43	19.43	19.37	19.28		
5	16QAM	50	0	19.40	19.45	19.61	19.32	19.39		
5	256QAM	1	0	17.67	17.76	17.83	17.68	17.69		
5	256QAM	1	25	17.68	17.76	17.87	17.69	17.76	19	5
5	256QAM	5	48	17.69	17.85	17.74	17.77	17.68		
5	256QAM	25	0	17.46	17.42	17.42	17.42	17.42		
5	256QAM	25	12	17.36	17.43	17.38	17.30	17.17	19	5
5	256QAM	25	24	17.37	17.41	17.47	17.38	17.27		
5	256QAM	50	0	17.43	17.48	17.45	17.43	17.23		
Channel										
Frequency (MHz)				369675	40148	40600	41058	41598	Turn-up time (dB)	MFR (dB)
5	QPSK	5	0	22.65	22.66	22.71	22.82	22.65		
5	QPSK	1	12	22.48	22.56	22.57	22.49	22.33		
5	QPSK	1	24	22.42	22.42	22.53	22.38	22.29		
5	QPSK	12	7	21.65	21.43	21.59	21.62	21.49	23	1
5	QPSK	12	7	21.65	21.43	21.59	21.62	21.49		
5	QPSK	25	0	21.58	21.54	21.69	21.54	21.49		
5	16QAM	1	0	21.90	21.84	21.96	21.88	21.79		
5	16QAM	1	12	21.82	21.86	21.92	21.82	21.71	23	1
5	16QAM	1	24	21.86	21.49	22.08	21.89	21.72		
5	16QAM	12	0	20.49	20.53	20.64	20.49	20.50		
5	16QAM	12	0	20.52	20.48	20.60	20.48	20.35	22	2
5	16QAM	12	13	20.47	20.37	20.46	20.51	20.36		
5	16QAM	25	0	20.46	20.56	20.55	20.46	20.34		
5	16QAM	25	12	20.79	20.82	20.83	20.83	20.79		
5	16QAM	1	12	20.49	20.49	20.82	20.80	20.70	22	2
5	16QAM	12	13	20.63	20.70	20.72	20.63	20.63		
5	16QAM	12	0	19.36	19.59	19.62	19.44	19.42		
5	16QAM	12	7	19.40	19.50	19.44	19.35	19.30		
5	16QAM	12	13	19.49	19.53	19.49	19.40	19.39	21	3
5	16QAM	25	0	19.43	19.44	19.57	19.39	19.29		
5	256QAM	1	0	17.68	17.76	17.78	17.77	17.61		
5	256QAM	1	12	17.67	17.69	17.78	17.74	17.66	19	5
5	256QAM	1	24	17.55	17.68	17.71	17.73	17.68		
5	256QAM	12	0	17.44	17.42	17.42	17.42	17.42		
5	256QAM	12	7	17.43	17.49	17.41	17.33	17.26		
5	256QAM	12	13	17.45	17.40	17.45	17.40	17.23		

Band 41 HPUE Ant 2												
RB [MHz]	Modulation	RB Size	RB Offset	Power Ch 1 [mW]	Power Ch 2 [mW]	Power Ch 3 [mW]	Power H1 Ch 1 [mW]	Power H1 Ch 2 [mW]	Turn-up time [ms]	MPR [dB]		
Channel												
Frequency [MHz]												
20	QPSK	1	0	25.55	25.58	25.57	25.55	25.56	27	0		
20	QPSK	1	49	25.41	25.52	25.48	25.44	25.37				
20	QPSK	1	99	25.29	25.39	25.34	25.40	25.29				
20	QPSK	50	24	24.68	24.41	24.70	24.68	24.47				
20	QPSK	50	24	24.50	24.47	24.62	24.40	24.45				
20	QPSK	50	24	24.50	24.47	24.62	24.40	24.45	26	1		
20	QPSK	100	0	24.60	24.54	24.75	24.57	24.50				
20	QPSK	1	0	24.84	24.79	24.90	24.86	24.75				
20	QPSK	1	49	24.84	24.79	24.90	24.86	24.75				
20	QPSK	1	99	24.82	24.77	24.87	24.78	24.77				
20	QPSK	50	0	23.52	23.47	23.64	23.53	23.44	25	2		
20	QPSK	50	24	23.50	23.45	23.56	23.47	23.34				
20	QPSK	50	24	23.42	23.41	23.67	23.41	23.43				
20	QPSK	100	0	23.37	23.46	23.53	23.42	23.42				
20	QPSK	100	0	23.37	23.33	23.50	23.40	23.40				
20	QPSK	1	40	23.70	23.67	23.78	23.78	23.65	25	2		
20	QPSK	1	99	23.70	23.67	23.78	23.78	23.65				
20	QPSK	50	0	22.44	22.57	22.51	22.48	22.36				
20	QPSK	50	24	22.34	22.40	22.51	22.38	22.32				
20	QPSK	50	24	22.27	22.37	22.42	22.32	22.28				
20	QPSK	100	0	20.47	22.42	22.52	22.39	22.38	24	3		
20	QPSK	100	0	20.70	20.73	20.75	20.76	20.69				
20	QPSK	50	24	20.41	20.82	20.87	20.54	20.47				
20	QPSK	50	24	20.46	20.69	20.61	20.74	20.65				
20	QPSK	50	24	20.38	20.38	20.44	20.32	20.18				
20	QPSK	50	24	20.33	20.39	20.32	20.43	20.35	22	5		
20	QPSK	100	0	20.42	20.48	20.36	20.45	20.38				
Channel												
Frequency [MHz]												
15	QPSK	1	0	36.725	40.773	40626	41068	41518			Turn-up time [ms]	MPR [dB]
15	QPSK	1	0	25.45	25.43	25.43	25.43	25.43	27	0		
15	QPSK	1	37	25.35	25.38	25.36	25.38	25.29				
15	QPSK	1	74	25.24	25.34	25.47	25.31	25.19				
15	QPSK	50	24	24.58	24.47	24.67	24.46	24.44				
15	QPSK	50	24	24.30	24.37	24.58	24.40	24.34				
15	QPSK	50	24	24.30	24.37	24.58	24.40	24.34	26	1		
15	QPSK	100	0	24.49	24.44	24.69	24.47	24.44				
15	QPSK	1	0	24.79	24.68	24.87	24.67	24.74				
15	QPSK	1	37	24.71	24.77	24.67	24.83	24.67				
15	QPSK	1	74	24.87	24.66	24.85	24.74	24.68				
15	QPSK	50	0	23.48	23.38	23.57	23.40	23.42	25	2		
15	QPSK	50	24	23.44	23.34	23.69	23.43	23.40				
15	QPSK	50	24	23.37	23.28	23.36	23.38	23.40				
15	QPSK	100	0	23.76	23.68	23.75	23.62	23.60				
15	QPSK	100	0	23.70	23.64	23.67	23.70	23.61				
15	QPSK	1	37	23.31	23.60	23.67	23.36	23.67	24	3		
15	QPSK	50	24	22.37								



Band 42 FCC Part27Q Ant 2											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPR (dB)			
Channel				42190	42590	42990	Turn-up time (dBm)	MPR (dB)			
Frequency (MHz)				3450	3660	42990					
20	QPSK	1	0	23.13	23.15	23.90	24	0			
20	QPSK	1	48	23.01	23.02	23.91					
20	QPSK	1	99	23.01	23.02	23.90					
20	QPSK	50	0	22.19	22.19	23.11					
20	QPSK	50	24	22.61	22.64	21.90	23	1			
20	QPSK	50	50	21.99	21.98	21.92					
20	QPSK	100	0	22.16	22.16	21.99					
20	HQAM	1	0	22.48	22.41	22.94					
20	HQAM	1	48	22.43	22.35	22.26	23	1			
20	HQAM	1	99	22.37	22.43	22.26					
20	HQAM	50	0	21.63	21.64	20.88					
20	HQAM	50	24	21.01	21.07	20.85					
20	HQAM	50	50	20.62	20.60	20.64	22	2			
20	HQAM	100	0	20.96	20.96	20.99					
20	8QAM	1	0	21.27	21.27	21.25					
20	8QAM	1	48	21.27	21.28	21.19					
20	8QAM	1	99	21.17	21.15	21.26	22	2			
20	8QAM	50	0	20.01	19.97	19.95					
20	8QAM	50	24	19.98	19.89	19.83					
20	8QAM	50	50	19.87	19.83	19.86					
20	8QAM	100	0	19.98	19.96	19.84	21	3			
20	256QAM	1	0	18.24	18.17	18.14					
20	256QAM	1	48	18.20	18.16	18.07					
20	256QAM	1	99	18.08	18.14	18.12					
20	256QAM	36	0	17.67	17.67	17.56	19	5			
20	256QAM	36	24	17.66	17.69	17.75					
20	256QAM	50	0	17.82	17.80	17.83					
20	256QAM	100	0	17.96	18.01	17.98					
Channel				42165 <th>42590<th>43015</th><th rowspan="2">Turn-up time (dBm)</th><th colspan="2" rowspan="2">MPR (dB)</th></th>	42590 <th>43015</th> <th rowspan="2">Turn-up time (dBm)</th> <th colspan="2" rowspan="2">MPR (dB)</th>	43015	Turn-up time (dBm)			MPR (dB)	
Frequency (MHz)				3452.5	3505	3542.5					
15	QPSK	1	0	23.08	23.10	23.87	24	0			
15	QPSK	1	37	22.94	22.84	22.80					
15	QPSK	1	74	22.92	22.82	22.70					
15	QPSK	36	0	22.03	22.13	22.98					
15	QPSK	36	20	21.90	21.99	21.85	23	1			
15	QPSK	36	36	21.91	21.88	21.88					
15	QPSK	75	0	22.06	21.98	21.92					
15	HQAM	1	0	22.36	22.33	22.27					
15	HQAM	1	37	22.37	22.27	22.22	23	1			
15	HQAM	1	74	22.35	22.31	22.20					
15	HQAM	36	0	21.00	20.91	20.77					
15	HQAM	36	20	20.98	20.94	20.92					
15	HQAM	36	36	20.80	20.87	20.80	22	2			
15	HQAM	75	0	20.91	20.82	20.78					
15	HQAM	1	0	21.25	21.13	21.31					
15	8QAM	1	37	21.15	21.19	21.09					
15	8QAM	1	74	21.13	21.05	21.18	22	2			
15	8QAM	36	0	19.63	19.62	19.63					
15	8QAM	36	20	19.91	19.89	19.72					
15	8QAM	36	36	19.63	19.72	19.63					
15	8QAM	75	0	19.89	19.92	19.81	21	3			
15	256QAM	1	0	18.16	18.10	18.04					
15	256QAM	1	37	18.10	18.02	18.00					
15	256QAM	1	74	18.00	18.12	18.02					
15	256QAM	36	0	17.94	17.81	17.87	19	5			
15	256QAM	36	20	17.73	17.82	17.70					
15	256QAM	36	36	17.86	17.77	17.78					
15	256QAM	75	0	17.67	17.68	17.75					
Channel				42140 <th>42590<th>43000</th><th rowspan="2">Turn-up time (dBm)</th><th colspan="2" rowspan="2">MPR (dB)</th></th>	42590 <th>43000</th> <th rowspan="2">Turn-up time (dBm)</th> <th colspan="2" rowspan="2">MPR (dB)</th>	43000	Turn-up time (dBm)			MPR (dB)	
Frequency (MHz)				3455	3505	3545					
10	QPSK	1	0	23.04	23.10	23.94	24	0			
10	QPSK	1	25	22.90	22.94	22.79					
10	QPSK	1	49	22.96	22.84	22.71					
10	QPSK	36	0	22.06	22.08	21.98					
10	QPSK	25	12	21.89	21.94	21.82	23	1			
10	QPSK	25	25	21.62	21.65	21.81					
10	QPSK	50	0	22.02	22.05	21.95					
10	HQAM	1	0	22.37	22.27	22.20					
10	HQAM	1	25	22.41	22.27	22.32	23	1			
10	HQAM	1	49	22.26	22.35	22.21					
10	HQAM	25	0	20.93	20.95	20.80					
10	HQAM	25	12	20.87	21.03	20.72					
10	HQAM	25	25	20.89	20.84	20.86	22	2			
10	HQAM	50	0	20.89	20.85	20.75					
10	8QAM	1	0	21.14	21.22	21.22					
10	8QAM	1	25	21.24	21.22	21.13					
10	8QAM	1	49	21.10	21.09	21.19	22	2			
10	8QAM	25	0	19.97	19.85	19.81					
10	8QAM	25	12	19.90	19.75	19.75					
10	8QAM	25	25	19.74	19.71	19.83					
10	8QAM	50	0	19.90	19.83	19.81	21	3			
10	256QAM	1	0	18.10	18.05	18.11					
10	256QAM	1	25	18.09	18.06	17.99					
10	256QAM	1	49	18.02	18.01	18.00					
10	256QAM	25	0	17.96	17.93	17.78	19	5			
10	256QAM	25	12	17.90	17.80	17.86					
10	256QAM	25	25	17.85	17.75	17.75					
10	256QAM	50	0	17.90	17.85	17.74					
Channel				42115 <th>42540<th>43000</th><th rowspan="2">Turn-up time (dBm)</th><th colspan="2" rowspan="2">MPR (dB)</th></th>	42540 <th>43000</th> <th rowspan="2">Turn-up time (dBm)</th> <th colspan="2" rowspan="2">MPR (dB)</th>	43000	Turn-up time (dBm)			MPR (dB)	
Frequency (MHz)				3452.5	3505	3547.5					
5	QPSK	1	0	23.08	23.02	22.88	24	0			
5	QPSK	1	16	22.97	22.91	22.83					
5	QPSK	1	24	22.92	22.92	22.69					
5	QPSK	12	0	22.63	22.15	21.98					
5	QPSK	12	7	21.95	22.01	21.83	23	1			
5	QPSK	12	13	21.85	21.85	21.78					
5	QPSK	25	0	22.03	22.08	21.92					
5	HQAM	1	0	22.39	22.31	22.22					
5	HQAM	1	12	22.36	22.25	22.13	23	1			
5	HQAM	1	24	22.24	22.38	22.32					
5	HQAM	12	0	20.98	21.02	20.77					
5	HQAM	12	7	20.88	20.96	20.72					
5	HQAM	12	13	20.84	20.84	20.90	22	2			
5	HQAM	25	0	20.89	20.93	20.85					
5	HQAM	1	0	21.22	21.19	21.28					
5	HQAM	1	12	21.16	21.19	21.09					
5	8QAM	1	24	21.08	21.11	21.18	22	2			
5	8QAM	12	0	19.87	19.84	19.92					
5	8QAM	12	7	19.91	19.85	19.79					
5	8QAM	12	13	19.73	19.72	19.72					
5	8QAM	25	0	19.85	19.82	19.71	21	3			
5	256QAM	1	0	18.17	18.07	18.01					
5	256QAM	1	12	18.12	18.07	17.99					
5	256QAM	1	24	17.99	18.02	17.99					
5	256QAM	12	0	17.86	17.86	17.83	19	5			
5	256QAM	12	7	17.84	17.81	17.86					
5	256QAM	12	13	17.80	17.81	17.73					
5	256QAM	25	0	17.84	17.89	17.84					

Band 48_FCC Ant 2												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Meds Ch / Freq	Power High Meds Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPP (dB)			
Channel				56500	56600	56700	56800					
Frequency (MHz)				56500	56600	56700	56800					
20	QPSK	1	0	22.63	22.54	22.43	22.41	23.7	0			
20	QPSK	1	49	22.59	22.61	22.47	22.49					
20	QPSK	1	99	22.52	22.54	22.41	22.43					
20	QPSK	50	0	22.52	22.51	22.44	22.39					
20	QPSK	50	24	22.38	22.40	22.28	22.34	23	0.7			
20	QPSK	50	50	22.35	22.42	22.31	22.28					
20	QPSK	100	0	22.35	22.18	22.07	22.12					
20	16QAM	1	0	22.26	22.36	22.29	22.13					
20	16QAM	1	49	22.27	22.37	22.30	22.19	22	1.7			
20	16QAM	1	99	22.01	22.23	22.04	22.07					
20	16QAM	50	0	21.23	21.59	21.60	21.53					
20	16QAM	50	24	21.65	21.68	21.53	21.48					
20	16QAM	50	50	21.61	21.59	21.39	21.44	22	1.7			
20	64QAM	100	0	21.68	21.67	21.53	21.52					
20	64QAM	1	0	21.95	21.95	21.75	21.51					
20	64QAM	1	49	21.95	21.92	21.72	21.65					
20	64QAM	1	99	21.86	21.94	21.66	21.71	22	1.7			
20	64QAM	50	0	20.84	20.60	20.60	20.53					
20	64QAM	50	24	20.55	20.52	20.45	20.42					
20	64QAM	50	50	20.54	20.52	20.53	20.45					
20	64QAM	100	0	20.57	20.53	20.49	20.36	21	2.7			
20	256QAM	1	0	18.88	18.84	18.68	18.77					
20	256QAM	1	49	18.87	18.71	18.70	18.59					
20	256QAM	1	99	18.81	18.82	18.76	18.72					
20	256QAM	50	0	18.72	18.53	18.48	18.38	19	4.7			
20	256QAM	50	24	18.57	18.47	18.42	18.30					
20	256QAM	50	50	18.65	18.52	18.44	18.41					
20	256QAM	100	0	18.65	18.58	18.47	18.51					
Channel				56515	56620	56700	56800					
Frequency (MHz)				56515	56620	56700	56800					
15	QPSK	1	0	22.08	22.49	22.26	22.32	23.7	0			
15	QPSK	1	37	22.40	22.51	22.36	22.43					
15	QPSK	1	74	22.46	22.46	22.30	22.29					
15	QPSK	86	0	22.37	22.40	22.32	22.29					
15	QPSK	86	20	22.28	22.27	22.14	22.18	23	0.7			
15	QPSK	86	39	22.30	22.29	22.20	22.21					
15	QPSK	75	0	22.22	22.10	21.94	22.08					
15	16QAM	1	0	22.10	22.24	22.25	22.00					
15	16QAM	1	37	22.12	22.24	22.16	22.07	23	0.7			
15	16QAM	1	74	21.91	22.14	21.95	21.92					
15	16QAM	86	0	21.84	21.56	21.58	21.49					
15	16QAM	86	39	21.62	21.47	21.50	21.28					
15	16QAM	86	59	21.51	21.49	21.35	21.38	22	1.7			
15	16QAM	75	0	21.58	21.48	21.40	21.48					
15	64QAM	1	0	21.91	21.88	21.71	21.69					
15	64QAM	1	37	21.86	21.81	21.80	21.72					
15	64QAM	1	74	21.82	21.81	21.60	21.65	21	2.7			
15	64QAM	86	0	20.54	20.46	20.58	20.51					
15	64QAM	86	20	20.46	20.42	20.32	20.39					
15	64QAM	86	39	20.55	20.56	20.47	20.42					
15	64QAM	75	0	20.51	20.45	20.39	20.23	19	4.7			
15	256QAM	1	0	18.77	18.73	18.60	18.65					
15	256QAM	1	37	18.80	18.64	18.57	18.46					
15	256QAM	1	74	18.78	18.70	18.73	18.59					
15	256QAM	86	0	18.65	18.42	18.43	18.47	19	4.7			
15	256QAM	86	20	18.44	18.34	18.37	18.20					
15	256QAM	86	39	18.57	18.47	18.42	18.38					
15	256QAM	75	0	18.85	18.49	18.55	18.46					
Channel				56530	56635	56700	56800					
Frequency (MHz)				56530	56635	56700	56800					
10	QPSK	1	0	22.40	22.46	22.35	22.27	23.7	0			
10	QPSK	1	25	22.54	22.57	22.35	22.40					
10	QPSK	1	49	22.38	22.49	22.25	22.35					
10	QPSK	25	0	22.41	22.37	22.34	22.30					
10	QPSK	25	12	22.30	22.25	22.18	22.22	23	0.7			
10	QPSK	25	25	22.22	22.30	22.19	22.15					
10	QPSK	86	0	22.25	22.13	21.98	22.02					
10	16QAM	1	0	22.10	22.25	22.19	22.07					
10	16QAM	1	25	22.21	22.21	22.20	22.08	23	0.7			
10	16QAM	1	49	21.93	22.10	21.91	22.03					
10	16QAM	25	0	21.61	21.52	21.47	21.49					
10	16QAM	25	12	21.57	21.47	21.50	21.38					
10	16QAM	86	0	21.51	21.51	21.28	21.38	22	1.7			
10	16QAM	50	0	21.57	21.45	21.49	21.48					
10	64QAM	1	0	21.90	21.83	21.60	21.67					
10	64QAM	1	25	21.82	21.86	21.67	21.78					
10	64QAM	1	49	21.77	21.91	21.61	21.74	22	1.7			
10	64QAM	25	0	20.55	20.58	20.53	20.44					
10	64QAM	25	12	20.42	20.40	20.36	20.30					
10	64QAM	25	25	20.40	20.39	20.48	20.35					
10	64QAM	86	0	20.50	20.41	20.36	20.25	21	2.7			
10	256QAM	1	0	18.76	18.80	18.62	18.69					
10	256QAM	1	25	18.75	18.61	18.59	18.53					
10	256QAM	1	49	18.72	18.70	18.63	18.67					
10	256QAM	25	0	18.70	18.39	18.44	18.40	19	4.7			
10	256QAM	25	12	18.46	18.36	18.26	18.23					
10	256QAM	25	25	18.54	18.42	18.30	18.27					
10	256QAM	50	0	18.51	18.48	18.52	18.38					
Channel				56545	56650	56700	56800					
Frequency (MHz)				56545	56650	56700	56800					
5	QPSK	1	15	22.40	22.46	22.36	22.30	23.7	0			
5	QPSK	1	12	22.40	22.55	22.32	22.37					
5	QPSK	1	24	22.44	22.39	22.29	22.33					
5	QPSK	12	0	22.46	22.46	22.30	22.28					
5	QPSK	12	7	22.50	22.30	22.15	22.04	23	0.7			
5	QPSK	12	13	22.25	22.38	22.18	22.13					
5	QPSK	25	0	22.27	22.04	22.06	22.08					
5	16QAM	1	0	22.13	22.30	22.15	22.06					
5	16QAM	1	12	22.15	22.17	22.23	22.04	23	0.7			
5	16QAM	1	24	21.91	22.10	21.80	21.98					
5	16QAM	12	0	21.61	21.55	21.49	21.40					
5	16QAM	12	7	21.52	21.50	21.39	21.36					
5	16QAM	12	13	21.53	21.66	21.32	21.32	22	1.7			
5	16QAM	25	0	21.65	21.48	21.42	21.44					
5	64QAM	1	0	21.91	21.89	21.66	21.84					
5	64QAM	1	12	21.83	21.80	21.64	21.80					
5	64QAM	1	24	21.81	21.88	21.71	21.89	21	2.7			
5	64QAM	12	0	20.61	20.49	20.52	20.44					
5	64QAM	12	7	20.42	20.41	20.39	20.30					
5	64QAM	12	13	20.41	20.43	20.44	20.35					
5	64QAM	25	0	20.53	20.44	20.44	20.38	19	4.7			
5	256QAM	1	0	18.76	18.80	18.62	18.69					
5	256QAM	1	12	18.76	18.64	18.65	18.50					
5	256QAM	1	24	18.73	18.77	18.71	18.62					
5	256QAM	12	0	18.69	18.43	18.43	18.37					
5	256QAM	12	7	18.53	18.35	18.35	18.23					
5	256QAM	12	13	18.53	18.47	18.30	18.38	19	4.7			
5	256QAM	25	0	18.62	18.51	18.44	18.43					
5	256QAM	25	12	18.43	18.33	18.33	18.23					
5	256QAM	25	25	18.53	18.43	18.43	18.37					

Band 42 FCC Part27Q Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	20.77	20.78	20.74			
20	QPSK	1	49	20.71	20.76	20.67	21.7	0	
20	QPSK	1	99	20.75	20.75	20.75			
20	QPSK	50	0	20.69	20.74	20.64			
20	QPSK	50	24	20.68	20.68	20.63	21.7	0	
20	QPSK	50	50	20.65	20.60	20.67			
20	QPSK	100	0	20.52	20.56	20.36			
20	16QAM	1	0	20.50	20.57	20.53	21.7	0	
20	16QAM	1	49	20.47	20.54	20.49			
20	16QAM	1	99	20.64	20.66	20.35			
20	16QAM	50	0	20.36	20.22	20.40	21.7	0	
20	16QAM	50	24	20.24	20.25	20.31			
20	16QAM	50	50	20.41	20.42	20.40			
20	16QAM	100	0	20.25	20.27	20.42	21.7	0	
20	64QAM	1	0	20.33	20.40	20.28			
20	64QAM	1	49	20.20	20.29	20.49			
20	64QAM	1	99	20.27	20.34	20.34	21	0.7	
20	64QAM	50	0	19.81	19.90	19.77			
20	64QAM	50	24	19.83	19.78	19.67			
20	64QAM	50	50	19.67	19.76	19.73	19	2.7	
20	256QAM	100	0	19.80	19.79	19.74			
20	256QAM	1	0	18.00	18.08	18.10			
20	256QAM	1	49	17.96	17.97	17.88	19	2.7	
20	256QAM	1	99	17.93	17.92	17.99			
20	256QAM	36	0	17.83	17.85	17.78			
20	256QAM	50	24	17.71	17.71	17.68	19	2.7	
20	256QAM	50	50	17.74	17.80	17.68			
20	256QAM	100	0	17.85	17.85	17.74			
Channel				42165	42590	43015	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	20.73	20.73	20.70			
15	QPSK	1	37	20.60	20.61	20.54	21.7	0	
15	QPSK	1	74	20.68	20.65	20.63			
15	QPSK	36	0	20.58	20.65	20.49			
15	QPSK	36	20	20.44	20.52	20.47	21.7	0	
15	QPSK	36	39	20.42	20.47	20.60			
15	QPSK	75	0	20.44	20.43	20.27			
15	16QAM	1	0	20.42	20.49	20.38	21.7	0	
15	16QAM	1	37	20.38	20.47	20.34			
15	16QAM	1	74	20.50	20.59	20.29			
15	16QAM	36	0	20.20	20.07	20.31	21.7	0	
15	16QAM	36	20	20.17	20.10	20.27			
15	16QAM	36	39	20.27	20.34	20.30			
15	16QAM	75	0	20.16	20.22	20.27	21.7	0	
15	64QAM	1	0	20.23	20.39	20.21			
15	64QAM	1	37	20.15	20.25	20.41			
15	64QAM	1	74	20.11	20.28	20.20	21	0.7	
15	64QAM	36	0	19.73	19.87	19.73			
15	64QAM	36	20	19.75	19.67	19.60			
15	64QAM	36	39	19.59	19.67	19.73	19	2.7	
15	64QAM	75	0	19.70	19.76	19.64			
15	256QAM	1	0	17.62	17.96	18.06			
15	256QAM	1	37	17.89	17.91	17.79	19	2.7	
15	256QAM	1	74	17.89	17.87	17.84			
15	256QAM	36	0	17.79	17.78	17.69			
15	256QAM	36	20	17.68	17.66	17.48	19	2.7	
15	256QAM	36	39	17.73	17.73	17.66			
15	256QAM	75	0	17.77	17.76	17.71			
Channel				42140	42590	43040	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	20.67	20.62	20.58			
10	QPSK	1	25	20.65	20.64	20.59	21.7	0	
10	QPSK	1	49	20.68	20.66	20.67			
10	QPSK	25	0	20.60	20.61	20.50			
10	QPSK	25	12	20.41	20.44	20.58	21.7	0	
10	QPSK	25	25	20.41	20.45	20.59			
10	QPSK	50	0	20.38	20.47	20.27			
10	16QAM	1	0	20.37	20.48	20.45	21.7	0	
10	16QAM	1	25	20.33	20.39	20.44			
10	16QAM	1	49	20.54	20.56	20.20			
10	16QAM	25	0	20.21	20.17	20.29	21.7	0	
10	16QAM	25	12	20.19	20.12	20.26			
10	16QAM	25	25	20.30	20.27	20.28			
10	16QAM	50	0	20.17	20.22	20.35	21.7	0	
10	64QAM	1	0	20.27	20.37	20.17			
10	64QAM	1	25	20.16	20.13	20.35			
10	64QAM	1	49	20.15	20.27	20.21	21	0.7	
10	64QAM	25	0	19.70	19.86	19.70			
10	64QAM	25	12	19.81	19.73	19.60			
10	64QAM	25	25	19.58	19.67	19.63	19	2.7	
10	64QAM	50	0	19.71	19.72	19.66			
10	256QAM	1	0	18.00	18.00	18.10			
10	256QAM	1	25	17.90	17.91	17.77	19	2.7	
10	256QAM	1	49	17.84	17.85	17.97			
10	256QAM	25	0	17.77	17.81	17.76			
10	256QAM	25	12	17.61	17.68	17.56	19	2.7	
10	256QAM	25	25	17.67	17.69	17.64			
10	256QAM	50	0	17.76	17.79	17.69			
Channel				42115	42590	43065	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	20.64	20.63	20.60			
5	QPSK	1	12	20.58	20.63	20.59	21.7	0	
5	QPSK	1	24	20.63	20.60	20.61			
5	QPSK	12	0	20.64	20.62	20.54			
5	QPSK	12	7	20.43	20.52	20.50	21.7	0	
5	QPSK	12	13	20.35	20.55	20.54			
5	QPSK	25	0	20.45	20.44	20.31			
5	16QAM	1	0	20.40	20.51	20.45	21.7	0	
5	16QAM	1	12	20.34	20.47	20.34			
5	16QAM	1	24	20.56	20.52	20.29			
5	16QAM	12	0	20.18	20.14	20.30	21.7	0	
5	16QAM	12	7	20.14	20.19	20.19			
5	16QAM	12	13	20.33	20.29	20.32			
5	64QAM	1	0	20.21	20.19	20.32	21.7	0	
5	64QAM	1	0	20.26	20.42	20.11			
5	64QAM	1	12	20.06	20.10	20.45			
5	64QAM	1	24	20.16	20.23	20.25	21	0.7	
5	64QAM	12	0	19.76	19.82	19.68			
5	64QAM	12	7	19.74	19.74	19.60			
5	64QAM	12	13	19.63	19.66	19.65	19	2.7	
5	256QAM	25	0	19.72	19.71	19.70			
5	256QAM	1	0	17.97	17.97	18.03			
5	256QAM	1	12	17.82	17.89	17.80	19	2.7	
5	256QAM	1	24	17.83	17.86	17.99			
5	256QAM	12	0	17.82	17.75	17.71			
5	256QAM	12	7	17.62	17.68	17.56	19	2.7	
5	256QAM	12	13	17.73	17.69	17.60			
5	256QAM	25	0	17.80	17.78	17.73			

Band 48_FCC Ant 4												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				55340	55530	56150	56640					
Frequency (MHz)				3550	3509	3561	3590					
20	QPSK	1	0	20.46	20.58	20.56	20.46	21.7	0			
20	QPSK	1	49	20.49	20.56	20.45	20.45					
20	QPSK	1	99	20.54	20.51	20.52	20.39					
20	QPSK	50	0	20.38	20.51	20.44	20.38					
20	QPSK	50	24	20.42	20.33	20.43	20.37	21.7	0			
20	QPSK	50	50	20.44	20.40	20.44	20.32					
20	QPSK	100	0	20.19	20.30	20.16	20.07					
20	16QAM	1	0	20.26	20.39	20.28	20.17					
20	16QAM	1	49	20.25	20.30	20.34	20.13	21.7	0			
20	16QAM	1	99	20.19	20.48	20.16	20.07					
20	16QAM	50	0	20.21	20.07	20.28	20.18					
20	16QAM	50	24	20.03	20.05	20.16	20.00					
20	16QAM	50	50	20.24	20.21	20.25	20.13	21.7	0			
20	16QAM	100	0	20.14	20.07	20.20	20.04					
20	64QAM	1	0	20.24	20.26	20.07	19.97					
20	64QAM	1	49	20.27	20.10	20.26	20.08	21.7	0			
20	64QAM	1	99	20.28	20.12	20.20	20.15					
20	64QAM	50	0	20.08	20.12	20.11	20.07					
20	64QAM	50	24	20.07	20.10	19.98	19.95					
20	64QAM	50	50	20.02	20.05	20.10	19.98	21	0.7			
20	64QAM	100	0	20.01	20.15	20.07	20.00					
20	256QAM	1	0	18.34	18.33	18.35	18.38					
20	256QAM	1	49	18.26	18.25	18.22	18.22	19	2.7			
20	256QAM	1	99	18.25	18.26	18.29	18.29					
20	256QAM	50	0	18.09	18.20	18.09	18.05					
20	256QAM	50	24	18.01	18.00	18.03	18.05					
20	256QAM	50	50	17.97	18.04	18.06	17.99	19	2.7			
20	256QAM	100	0	18.04	18.14	18.13	18.06					
Channel				55315	55520	56160	56650					
Frequency (MHz)				3557.5	3600	3642.5	3602.5					
15	QPSK	1	0	20.37	20.47	20.44	20.34	21.7	0			
15	QPSK	1	37	20.40	20.47	20.35	20.40					
15	QPSK	1	74	20.40	20.39	20.43	20.27					
15	QPSK	36	0	20.23	20.41	20.32	20.26					
15	QPSK	36	20	20.36	20.27	20.34	20.24	21.7	0			
15	QPSK	36	39	20.38	20.27	20.39	20.17					
15	QPSK	75	0	20.14	20.22	20.00	19.96					
15	16QAM	1	0	20.16	20.24	20.21	20.12					
15	16QAM	1	37	20.16	20.23	20.27	19.99	21.7	0			
15	16QAM	1	74	20.11	20.36	20.06	19.91					
15	16QAM	36	0	20.09	19.93	20.12	20.03					
15	16QAM	36	20	19.87	19.96	20.08	19.93					
15	16QAM	36	39	20.16	20.06	20.17	19.99	21.7	0			
15	16QAM	75	0	20.02	19.98	20.10	19.90					
15	64QAM	1	0	20.19	20.16	19.98	19.82					
15	64QAM	1	37	20.22	20.01	20.14	20.02					
15	64QAM	1	74	20.15	20.01	20.10	20.05	21.7	0			
15	64QAM	36	0	20.00	20.07	20.07	20.01					
15	64QAM	36	20	19.89	20.02	19.95	19.90					
15	64QAM	36	39	19.93	19.99	20.07	19.89					
15	64QAM	75	0	19.96	20.11	19.97	19.94	19	2.7			
15	256QAM	1	0	18.28	18.24	18.28	18.33					
15	256QAM	1	37	18.15	18.23	18.12	18.15					
15	256QAM	1	74	18.21	18.17	18.20	18.17					
15	256QAM	36	0	17.86	18.13	18.05	18.00	19	2.7			
15	256QAM	36	20	17.95	17.91	17.98	17.84					
15	256QAM	36	39	17.80	17.84	17.95	17.83					
15	256QAM	75	0	17.96	18.04	18.01	17.87					
Channel				55290	55815	56165	56600					
Frequency (MHz)				3555	3607.5	3642.5	3605					
10	QPSK	1	0	20.32	20.54	20.50	20.35	21.7	0			
10	QPSK	1	25	20.40	20.50	20.36	20.37					
10	QPSK	1	49	20.44	20.40	20.45	20.33					
10	QPSK	25	0	20.34	20.39	20.36	20.24					
10	QPSK	25	12	20.36	20.25	20.32	20.26	21.7	0			
10	QPSK	25	25	20.30	20.25	20.31	20.16					
10	QPSK	50	0	20.05	20.20	20.04	19.96					
10	16QAM	1	0	20.17	20.32	20.22	20.12					
10	16QAM	1	25	20.15	20.21	20.25	20.08	21.7	0			
10	16QAM	1	49	20.10	20.36	20.03	20.03					
10	16QAM	25	0	20.11	19.93	20.24	20.14					
10	16QAM	25	12	19.91	20.00	20.10	19.91					
10	16QAM	25	25	20.13	20.05	20.16	20.04	21.7	0			
10	16QAM	50	0	20.03	19.92	20.13	19.88					
10	64QAM	1	0	20.10	20.20	19.98	19.84					
10	64QAM	1	25	20.12	19.96	20.16	19.92					
10	64QAM	1	49	20.12	20.05	20.08	20.03	21	0.7			
10	64QAM	25	0	20.05	20.05	19.99	19.96					
10	64QAM	25	12	20.07	19.96	19.96	19.89					
10	64QAM	25	25	19.93	19.98	20.09	19.93					
10	64QAM	50	0	19.99	20.09	20.07	19.97	19	2.7			
10	256QAM	1	0	18.24	18.30	18.28	18.29					
10	256QAM	1	25	18.20	18.16	18.18	18.11					
10	256QAM	1	49	18.14	18.25	18.17	18.24					
10	256QAM	25	0	17.86	18.17	18.04	17.97	19	2.7			
10	256QAM	25	12	17.88	17.96	17.99	17.83					
10	256QAM	25	25	17.89	18.04	17.97	17.82					
10	256QAM	50	0	18.00	18.07	18.08	18.00					
Channel				55265	55810	56170	56715					
Frequency (MHz)				3552.5	3607	3643	3607.5					
5	QPSK	1	0	20.40	20.43	20.40	20.39	21.7	0			
5	QPSK	1	12	20.37	20.50	20.29	20.33					
5	QPSK	1	24	20.38	20.36	20.36	20.30					
5	QPSK	12	0	20.26	20.40	20.36	20.26					
5	QPSK	12	7	20.30	20.22	20.37	20.32	21.7	0			
5	QPSK	12	13	20.39	20.26	20.33	20.25					
5	QPSK	25	0	20.12	20.24	20.00	19.95					
5	16QAM	1	0	20.21	20.35	20.17	20.07					
5	16QAM	1	12	20.10	20.25	20.22	20.01	21.7	0			
5	16QAM	1	24	20.13	20.39	20.08	20.01					
5	16QAM	12	0	20.06	20.02	20.22	20.08					
5	16QAM	12	7	19.96	19.99	20.08	19.96					
5	16QAM	12	13	20.11	20.10	20.13	20.01	21.7	0			
5	16QAM	25	0	20.00	19.94	20.12	19.91					
5	64QAM	1	0	20.09	20.11	19.93	19.83					
5	64QAM	1	12	20.15	20.05	20.17	19.95	21	0.7			
5	64QAM	1	24	20.15	20.07	20.11	20.02					
5	64QAM	12	0	20.05	20.03	20.00	20.05					
5	64QAM	12	7	20.00	20.00	19.99	19.93					
5	64QAM	12	13	19.96	19.96	19.98	19.89	21	0.7			
5	256QAM	25	0	19.91	20.13	20.04	19.98					
5	256QAM	1	0	18.32	18.25	18.27	18.26					
5	256QAM	1	12	18.23	18.21	18.20	18.21					
5	256QAM	12	0	18.03	18.09	18.00	17.99	19	2.7			
5	256QAM	12	7	17.84	17.97	17.89	17.80	19	2.7			
5	256QAM	12	13	17.96	17.94	17.97	17.89					
5	256QAM	25	0	18.04	18.05	18.05	18.00					

Band 42 FCC Part27Q Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					42190	42590	42990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3450	3500	3550		
20	QPSK	1	0		21.94	21.96	21.88	23	0
20	QPSK	1	49		21.87	21.81	21.72		
20	QPSK	1	99		21.78	21.74	21.76		
20	QPSK	50	0		20.80	20.93	20.91		
20	QPSK	50	24		20.73	20.83	20.71	22	1
20	QPSK	50	50		20.78	20.71	20.63		
20	QPSK	100	0		20.92	20.94	20.86		
20	16QAM	1	0		21.17	21.21	21.07		
20	16QAM	1	49		21.19	21.12	20.98	22	1
20	16QAM	1	99		21.17	21.18	20.99		
20	16QAM	50	0		19.80	19.80	19.64		
20	16QAM	50	24		19.83	19.85	19.67		
20	16QAM	50	50		19.85	19.73	19.61	21	2
20	16QAM	100	0		19.79	19.74	19.65		
20	64QAM	1	0		20.04	20.05	19.99		
20	64QAM	1	49		19.98	20.05	19.96		
20	64QAM	1	99		19.97	19.92	19.95	21	2
20	64QAM	50	0		18.89	18.76	18.66		
20	64QAM	50	24		18.74	18.66	18.56		
20	64QAM	50	50		18.74	18.63	18.64		
20	64QAM	100	0		18.70	18.76	18.62	20	3
20	256QAM	1	0		17.04	16.95	17.00		
20	256QAM	1	49		16.89	16.90	16.79		
20	256QAM	1	99		16.86	16.84	16.91		
20	256QAM	50	0		16.82	16.83	16.64	18	5
20	256QAM	50	24		16.76	16.71	16.48		
20	256QAM	50	50		16.69	16.74	16.53		
20	256QAM	100	0		16.88	16.71	16.62		
Channel					42190	42590	42990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3457.5	3500	3542.5		
15	QPSK	1	0		21.88	21.85	21.85	23	0
15	QPSK	1	37		21.76	21.74	21.70		
15	QPSK	1	74		21.66	21.65	21.70		
15	QPSK	36	0		20.92	20.97	20.98		
15	QPSK	36	20		20.69	20.80	20.62	22	1
15	QPSK	36	39		20.73	20.68	20.53		
15	QPSK	75	0		20.89	20.78	20.80		
15	16QAM	1	0		21.06	21.16	20.98		
15	16QAM	1	37		21.14	21.12	20.93	22	1
15	16QAM	1	74		21.05	21.15	20.91		
15	16QAM	36	0		19.78	19.75	19.56		
15	16QAM	36	20		19.80	19.83	19.64		
15	16QAM	36	39		19.84	19.62	19.52	21	2
15	16QAM	75	0		19.69	19.70	19.59		
15	64QAM	1	0		19.98	19.97	19.93		
15	64QAM	1	37		19.92	20.00	19.94		
15	64QAM	1	74		19.92	19.83	19.94	21	2
15	64QAM	36	0		18.83	18.75	18.54		
15	64QAM	36	20		18.72	18.55	18.54		
15	64QAM	36	39		18.83	18.61	18.52		
15	64QAM	75	0		18.62	18.74	18.54	20	3
15	256QAM	1	0		16.93	16.95	16.98		
15	256QAM	1	37		16.81	16.88	16.79		
15	256QAM	1	74		16.84	16.83	16.90		
15	256QAM	36	0		16.79	16.78	16.83	18	5
15	256QAM	36	20		16.71	16.70	16.45		
15	256QAM	36	39		16.58	16.66	16.45		
15	256QAM	75	0		16.70	16.69	16.55		
Channel					42140	42590	43040	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3455	3500	3545		
10	QPSK	1	0		21.89	21.89	21.81	23	0
10	QPSK	1	25		21.86	21.79	21.71		
10	QPSK	1	49		21.66	21.69	21.68		
10	QPSK	25	0		20.84	20.96	20.79		
10	QPSK	25	12		20.71	20.78	20.82	22	1
10	QPSK	25	25		20.89	20.60	20.55		
10	QPSK	50	0		20.83	20.72	20.74		
10	16QAM	1	0		21.06	21.09	20.96		
10	16QAM	1	25		21.10	21.02	20.92	22	1
10	16QAM	1	49		21.13	21.08	20.98		
10	16QAM	25	0		19.73	19.74	19.55		
10	16QAM	25	12		19.71	19.76	19.60		
10	16QAM	25	25		19.62	19.83	19.49	21	2
10	16QAM	50	0		19.79	19.67	19.60		
10	64QAM	1	0		19.96	19.97	19.96		
10	64QAM	1	25		19.88	20.05	19.94		
10	64QAM	1	49		19.89	19.89	20.00	21	2
10	64QAM	25	0		18.81	18.65	18.59		
10	64QAM	25	12		18.70	18.60	18.55		
10	64QAM	25	25		18.66	18.56	18.61		
10	64QAM	50	0		18.60	18.72	18.57	18	5
10	256QAM	1	0		16.82	16.90	16.97		
10	256QAM	1	25		16.87	16.82	16.71		
10	256QAM	1	49		16.92	16.79	16.83		
10	256QAM	25	0		16.72	16.80	16.53	18	5
10	256QAM	25	12		16.72	16.68	16.48		
10	256QAM	25	25		16.61	16.71	16.48		
10	256QAM	50	0		16.77	16.61	16.59		
Channel					42115	42590	43065	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3452.5	3500	3547.5		
5	QPSK	1	0		21.87	21.88	21.78	23	0
5	QPSK	1	12		21.63	21.80	21.65		
5	QPSK	1	24		21.60	21.63	21.67		
5	QPSK	12	0		20.81	20.87	20.82		
5	QPSK	12	7		20.89	20.73	20.69	22	1
5	QPSK	12	13		20.68	20.63	20.54		
5	QPSK	25	0		20.91	20.77	20.79		
5	16QAM	1	0		21.14	21.13	20.99		
5	16QAM	1	12		21.11	21.12	20.89	22	1
5	16QAM	1	24		21.09	21.15	20.95		
5	16QAM	12	0		19.75	19.68	19.64		
5	16QAM	12	7		19.72	19.82	19.62		
5	16QAM	12	13		19.54	19.62	19.56	21	2
5	16QAM	25	0		19.66	19.63	19.58		
5	64QAM	1	0		19.93	19.97	19.93		
5	64QAM	1	12		19.84	19.96	19.84		
5	64QAM	1	24		19.85	19.83	19.95	21	2
5	64QAM	12	0		18.89	18.73	18.65		
5	64QAM	12	7		18.68	18.66	18.48		
5	64QAM	12	13		18.62	18.55	18.55		
5	64QAM	25	0		18.68	18.66	18.58	20	3
5	256QAM	1	0		16.96	16.94	16.92		
5	256QAM	1	12		16.89	16.82	16.69		
5	256QAM	1	24		16.80	16.77	16.90		
5	256QAM	12	0		16.71	16.76	16.55	18	5
5	256QAM	12	7		16.75	16.68	16.39		
5	256QAM	12	13		16.66	16.64	16.50		
5	256QAM	25	0		16.80	16.70	16.52		

Band 48_FCC Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56680		
Frequency (MHz)				3550	3609	3641	3690		
20	QPSK	1	0	21.56	21.70	21.72	21.64	23	0
20	QPSK	1	49	21.43	21.65	21.64	21.56		
20	QPSK	1	99	21.49	21.59	21.64	21.45		
20	QPSK	50	0	20.89	20.82	20.84	20.88		
20	QPSK	50	24	20.49	20.60	20.72	20.61	22	1
20	QPSK	50	50	20.47	20.53	20.59	20.54		
20	QPSK	100	0	20.67	20.69	20.72	20.69		
20	16QAM	1	0	20.80	21.02	21.07	20.95		
20	16QAM	1	49	20.94	20.99	21.00	20.85	22	1
20	16QAM	1	99	20.82	20.96	21.04	20.86		
20	16QAM	50	0	19.83	19.88	19.87	19.57		
20	16QAM	50	24	19.54	19.68	19.66	19.51		
20	16QAM	50	50	19.47	19.52	19.55	19.60	21	2
20	16QAM	100	0	19.58	19.55	19.61	19.52		
20	64QAM	1	0	19.88	19.96	19.98	19.90		
20	64QAM	1	49	19.80	19.86	19.91	19.85		
20	64QAM	1	99	19.71	19.82	19.82	19.69	20	3
20	64QAM	50	0	18.63	18.63	18.69	18.49		
20	64QAM	50	24	18.46	18.51	18.56	18.46		
20	64QAM	50	50	18.54	18.54	18.46	18.43		
20	256QAM	1	0	18.50	18.57	18.59	18.47	18	5
20	256QAM	1	0	16.76	16.82	16.79	16.86		
20	256QAM	1	49	16.79	16.83	16.81	16.69		
20	256QAM	1	99	16.74	16.74	16.80	16.86		
20	256QAM	50	0	16.51	16.59	16.60	16.48	18	5
20	256QAM	50	24	16.47	16.50	16.57	16.39		
20	256QAM	50	50	16.54	16.52	16.58	16.48		
20	256QAM	100	0	16.55	16.53	16.63	16.51		
Channel				55315	55820	56169	56692	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.5	3608	3642	3695.5		
15	QPSK	1	0	21.53	21.59	21.62	21.55	23	0
15	QPSK	1	37	21.37	21.54	21.53	21.49		
15	QPSK	1	74	21.48	21.54	21.64	21.36		
15	QPSK	36	0	20.63	20.80	20.78	20.58		
15	QPSK	36	20	20.38	20.50	20.64	20.50	22	1
15	QPSK	36	39	20.36	20.52	20.54	20.54		
15	QPSK	75	0	20.67	20.67	20.67	20.60		
15	16QAM	1	0	19.83	20.93	20.96	20.94		
15	16QAM	1	37	20.83	20.95	20.91	20.73	22	1
15	16QAM	1	74	20.82	20.94	21.02	20.75		
15	16QAM	36	0	19.52	19.80	19.58	19.55		
15	16QAM	36	20	19.42	19.62	19.61	19.48		
15	16QAM	36	39	19.37	19.44	19.55	19.49	21	2
15	16QAM	75	0	19.67	19.52	19.55	19.42		
15	64QAM	1	0	19.80	19.87	19.91	19.82		
15	64QAM	1	37	19.78	19.79	19.90	19.82		
15	64QAM	1	74	19.67	19.81	19.77	19.83	20	3
15	64QAM	36	0	18.67	18.62	18.63	18.47		
15	64QAM	36	20	18.42	18.50	18.46	18.40		
15	64QAM	36	39	18.50	18.52	18.42	18.39		
15	256QAM	1	0	16.67	16.81	16.67	16.81	18	5
15	256QAM	1	37	16.76	16.72	16.73	16.61		
15	256QAM	1	74	16.83	16.73	16.78	16.77		
15	256QAM	36	0	16.41	16.57	16.50	16.42		
15	256QAM	36	20	16.44	16.47	16.49	16.37	18	5
15	256QAM	36	39	16.50	16.40	16.47	16.36		
15	256QAM	75	0	16.52	16.49	16.52	16.49		
Channel				55200	55815	56165	56690	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3655	3607.5	3642.5	3695		
10	QPSK	1	0	21.56	21.69	21.69	21.53	23	0
10	QPSK	1	25	21.42	21.58	21.65	21.54		
10	QPSK	1	49	21.40	21.58	21.60	21.37		
10	QPSK	25	0	20.59	20.73	20.82	20.58		
10	QPSK	25	12	20.48	20.52	20.70	20.56	22	1
10	QPSK	25	25	20.42	20.48	20.53	20.47		
10	QPSK	50	0	20.57	20.63	20.60	20.61		
10	16QAM	1	0	20.86	21.00	21.03	20.93		
10	16QAM	1	25	20.88	20.92	20.98	20.78	22	1
10	16QAM	1	49	20.74	20.94	21.00	20.81		
10	16QAM	25	0	19.63	19.62	19.67	19.57		
10	16QAM	25	12	19.47	19.58	19.65	19.41		
10	16QAM	25	25	19.39	19.47	19.55	19.55	21	2
10	16QAM	50	0	19.67	19.51	19.55	19.43		
10	64QAM	1	0	19.84	19.87	19.86	19.79		
10	64QAM	1	25	19.78	19.81	19.87	19.77		
10	64QAM	1	49	19.70	19.79	19.76	19.82	20	3
10	64QAM	25	0	18.52	18.58	18.67	18.43		
10	64QAM	25	12	18.45	18.46	18.48	18.42		
10	64QAM	25	25	18.51	18.51	18.45	18.34		
10	256QAM	1	0	16.48	16.52	16.57	16.37	18	5
10	256QAM	1	0	16.68	16.79	16.75	16.77		
10	256QAM	1	25	16.76	16.75	16.72	16.61		
10	256QAM	1	49	16.68	16.67	16.76	16.75		
10	256QAM	25	0	16.44	16.53	16.54	16.38	18	5
10	256QAM	25	12	16.38	16.40	16.48	16.28		
10	256QAM	25	25	16.50	16.47	16.50	16.43		
10	256QAM	50	0	16.45	16.44	16.50	16.48		
Channel				55265	55810	56178	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	21.49	21.63	21.71	21.53	23	0
5	QPSK	1	12	21.33	21.58	21.61	21.51		
5	QPSK	1	24	21.45	21.55	21.60	21.41		
5	QPSK	12	0	20.67	20.73	20.75	20.63		
5	QPSK	12	7	20.43	20.57	20.67	20.58	22	1
5	QPSK	12	13	20.45	20.50	20.56	20.53		
5	QPSK	25	0	20.64	20.62	20.69	20.61		
5	16QAM	1	0	20.83	20.96	21.00	20.90		
5	16QAM	1	12	20.92	20.90	20.99	20.80	22	1
5	16QAM	1	24	20.76	20.89	20.93	20.64		
5	16QAM	12	0	19.55	19.66	19.60	19.53		
5	16QAM	12	7	19.50	19.59	19.56	19.44		
5	16QAM	12	13	19.37	19.51	19.51	19.54	21	2
5	16QAM	25	0	19.52	19.53	19.58	19.49		
5	64QAM	1	0	19.77	19.84	19.98	19.90		
5	64QAM	1	12	19.68	19.76	19.88	19.82		
5	64QAM	1	24	19.60	19.77	19.81	19.77	20	3
5	64QAM	12	0	18.59	18.54	18.61	18.42		
5	64QAM	12	7	18.42	18.51	18.48	18.44		
5	64QAM	12	13	18.49	18.51	18.37	18.40		
5	256QAM	1	0	16.64	16.62	16.72	16.65	18	5
5	256QAM	1	12	16.77	16.80	16.70	16.64		
5	256QAM	1	24	16.85	16.73	16.71	16.83		
5	256QAM	12	0	16.42	16.58	16.49	16.40		
5	256QAM	12	7	16.39	16.48	16.53	16.37	18	5
5	256QAM	12	13	16.51	16.45	16.53	16.40		
5	256QAM	25	0	16.48	16.43	16.57	16.50		

Band 42 FCC Part27Q Ant 7									
Band	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3455	3500	3545			
20	QPSK	1	0	20.68	20.47	20.50	21.5	0	
20	QPSK	1	49	20.44	20.53	20.36			
20	QPSK	1	99	20.37	20.41	20.31			
20	QPSK	50	0	19.84	19.65	19.81	20.5	1	
20	QPSK	50	24	19.50	19.50	19.47			
20	QPSK	50	50	19.41	19.41	19.34			
20	QPSK	100	0	19.65	19.68	19.54	20.5	1	
20	16QAM	1	0	19.88	19.95	19.88			
20	16QAM	1	49	19.94	19.85	19.79			
20	16QAM	1	99	19.90	19.88	19.75	19.5	2	
20	16QAM	50	0	18.58	18.52	18.41			
20	16QAM	50	24	18.47	18.57	18.33			
20	16QAM	50	50	18.41	18.47	18.41	19.5	2	
20	16QAM	100	0	18.48	18.41	18.38			
20	64QAM	1	0	18.75	18.76	18.81			
20	64QAM	1	49	18.69	18.74	18.68	18.5	3	
20	64QAM	1	99	18.71	18.72	18.74			
20	64QAM	50	0	17.47	17.54	17.38			
20	64QAM	50	24	17.41	17.41	17.29	16.5	5	
20	64QAM	50	50	17.37	17.44	17.29			
20	64QAM	100	0	17.45	17.44	17.31			
20	256QAM	1	0	15.72	15.67	15.64	16.5	5	
20	256QAM	1	49	15.62	15.68	15.50			
20	256QAM	1	99	15.56	15.65	15.62			
20	256QAM	50	0	15.52	15.49	15.39	16.5	5	
20	256QAM	50	24	15.35	15.38	15.23			
20	256QAM	50	50	15.39	15.39	15.29			
20	256QAM	100	0	15.49	15.45	15.43	Tune-up limit (dBm)	MPR (dB)	
Channel				3457.5	3500	3542.5			
Frequency (MHz)				3457.5	3500	3542.5	21.5	0	
15	QPSK	1	0	20.59	20.60	20.47			
15	QPSK	1	37	20.33	20.45	20.36	20.5	1	
15	QPSK	1	74	20.27	20.36	20.27			
15	QPSK	36	0	19.63	19.57	19.59			
15	QPSK	36	20	19.39	19.50	19.45	20.5	1	
15	QPSK	36	39	19.32	19.32	19.24			
15	QPSK	75	0	19.62	19.53	19.52			
15	16QAM	1	0	19.78	19.83	19.81	20.5	1	
15	16QAM	1	37	19.76	19.84	19.74			
15	16QAM	1	74	19.83	19.86	19.85			
15	16QAM	36	0	18.49	18.46	18.41	19.5	2	
15	16QAM	36	20	18.36	18.56	18.24			
15	16QAM	36	39	18.39	18.46	18.37			
15	16QAM	75	0	18.39	18.41	18.27	19.5	2	
15	64QAM	1	0	18.70	18.70	18.80			
15	64QAM	1	37	18.59	18.69	18.67			
15	64QAM	1	74	18.61	18.64	18.68	18.5	3	
15	64QAM	36	0	17.37	17.44	17.36			
15	64QAM	36	20	17.39	17.32	17.19			
15	64QAM	36	39	17.32	17.32	17.19	16.5	5	
15	64QAM	75	0	17.44	17.42	17.20			
15	256QAM	1	0	15.64	15.55	15.53			
15	256QAM	1	37	15.51	15.60	15.40	16.5	5	
15	256QAM	1	74	15.53	15.64	15.62			
15	256QAM	36	0	15.45	15.43	15.31			
15	256QAM	36	20	15.25	15.37	15.12	16.5	5	
15	256QAM	36	39	15.28	15.33	15.26			
15	256QAM	75	0	15.43	15.43	15.42			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	20.80	20.57	20.49	21.5	0	
10	QPSK	1	25	20.38	20.46	20.28			
10	QPSK	1	49	20.36	20.40	20.35			
10	QPSK	25	0	19.60	19.60	19.60	20.5	1	
10	QPSK	25	12	19.38	19.40	19.46			
10	QPSK	50	0	19.35	19.31	19.23			
10	QPSK	50	0	19.63	19.61	19.50	20.5	1	
10	16QAM	1	0	19.76	19.88	19.85			
10	16QAM	1	25	19.84	19.80	19.68			
10	16QAM	1	49	19.67	19.84	19.65	19.5	2	
10	16QAM	25	0	18.47	18.45	18.41			
10	16QAM	25	12	18.39	18.48	18.25			
10	16QAM	25	25	18.33	18.40	18.41	19.5	2	
10	16QAM	50	0	18.46	18.33	18.35			
10	64QAM	1	0	18.68	18.67	18.79			
10	64QAM	1	25	18.62	18.72	18.65	18.5	3	
10	64QAM	1	49	18.70	18.67	18.70			
10	64QAM	25	0	17.45	17.53	17.35			
10	64QAM	25	12	17.38	17.34	17.21	16.5	5	
10	64QAM	25	25	17.33	17.34	17.20			
10	64QAM	50	0	17.38	17.38	17.30			
10	256QAM	1	0	15.61	15.57	15.61	16.5	5	
10	256QAM	1	25	15.59	15.59	15.46			
10	256QAM	1	49	15.47	15.62	15.56			
10	256QAM	25	0	15.44	15.44	15.33	16.5	5	
10	256QAM	25	12	15.32	15.28	15.21			
10	256QAM	25	25	15.31	15.31	15.26			
10	256QAM	50	0	15.47	15.36	15.36	Tune-up limit (dBm)	MPR (dB)	
Channel				42115	42590	43065			
Frequency (MHz)				3452.5	3500	3547.5	21.5	0	
5	QPSK	1	0	20.65	20.57	20.40			
5	QPSK	1	12	20.35	20.46	20.34	20.5	1	
5	QPSK	1	24	20.35	20.40	20.24			
5	QPSK	12	0	19.60	19.58	19.53			
5	QPSK	12	7	19.44	19.49	19.45	20.5	1	
5	QPSK	12	13	19.37	19.34	19.33			
5	QPSK	25	0	19.63	19.60	19.44			
5	16QAM	1	0	19.81	19.95	19.82	20.5	1	
5	16QAM	1	12	19.84	19.81	19.75			
5	16QAM	1	24	19.76	19.87	19.65			
5	16QAM	12	0	18.51	18.43	18.34	19.5	2	
5	16QAM	12	7	18.44	18.57	18.30			
5	16QAM	12	13	18.38	18.42	18.30			
5	16QAM	25	0	18.44	18.39	18.36	19.5	2	
5	64QAM	1	0	18.73	18.75	18.80			
5	64QAM	1	12	18.64	18.72	18.62			
5	64QAM	1	24	18.67	18.64	18.62	18.5	3	
5	64QAM	12	0	17.43	17.44	17.31			
5	64QAM	12	7	17.39	17.37	17.21			
5	64QAM	12	13	17.29	17.35	17.22	16.5	5	
5	64QAM	25	0	17.38	17.36	17.28			
5	256QAM	1	0	15.68	15.59	15.64			
5	256QAM	1	12	15.55	15.61	15.39	16.5	5	
5	256QAM	1	24	15.52	15.62	15.62			
5	256QAM	12	0	15.44	15.46	15.27			
5	256QAM	12	7	15.28	15.38	15.23	16.5	5	
5	256QAM	12	13	15.32	15.33	15.26			
5	256QAM	25	0	15.40	15.42	15.38			

Band 48_FCC Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55630	56150	56680		
Frequency (MHz)				3550	3609	3661	3720		
20	QPSK	1	0	20.57	20.43	20.33	20.39	21.6	0
20	QPSK	1	49	20.54	20.50	20.41	20.47		
20	QPSK	1	99	20.50	20.48	20.50	20.40		
20	QPSK	50	0	19.83	19.72	19.61	19.78		
20	QPSK	50	24	19.87	19.55	19.55	19.60	21	0.6
20	QPSK	50	50	19.59	19.53	19.50	19.48		
20	QPSK	100	0	19.76	19.66	19.72	19.69		
20	16QAM	1	0	20.11	20.03	19.92	19.96		
20	16QAM	1	49	20.02	19.84	19.96	19.84	20	1.6
20	16QAM	1	99	20.09	19.87	19.81	19.89		
20	16QAM	50	0	18.64	18.53	18.63	18.61		
20	16QAM	50	24	18.66	18.55	18.56	18.51		
20	16QAM	50	50	18.51	18.58	18.51	18.53	20	1.6
20	16QAM	100	0	18.54	18.53	18.63	18.58		
20	64QAM	1	0	19.00	18.90	18.82	18.93		
20	64QAM	1	49	18.84	18.83	18.72	18.82		
20	64QAM	1	99	18.82	18.84	18.75	18.82	19	2.6
20	64QAM	50	0	17.89	17.57	17.58	17.51		
20	64QAM	50	24	17.63	17.49	17.49	17.43		
20	64QAM	50	50	17.49	17.49	17.61	17.45		
20	64QAM	100	0	17.57	17.49	17.56	17.49	17	4.6
20	256QAM	1	0	15.89	15.83	15.77	15.85		
20	256QAM	1	49	15.83	15.66	15.69	15.63		
20	256QAM	1	99	15.74	15.85	15.72	15.78		
20	256QAM	1	74	15.89	15.49	15.57	15.52	17	4.6
20	256QAM	50	24	15.57	15.36	15.44	15.38		
20	256QAM	50	50	15.53	15.43	15.51	15.51		
20	256QAM	100	0	15.54	15.56	15.61	15.55		
Channel				55815	56201	56769	57295	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.5	3608	3662	3692.5		
15	QPSK	1	0	20.45	20.31	20.46	20.23	21.6	0
15	QPSK	1	37	20.46	20.43	20.26	20.33		
15	QPSK	1	74	20.37	20.41	20.41	20.27		
15	QPSK	36	0	19.76	19.72	19.54	19.73		
15	QPSK	36	20	19.65	19.47	19.46	19.60	21	0.6
15	QPSK	36	39	19.58	19.42	19.47	19.36		
15	QPSK	75	0	19.74	19.60	19.62	19.60		
15	16QAM	1	0	20.06	19.96	19.87	19.82		
15	16QAM	1	37	19.99	19.76	19.95	19.80	21	0.6
15	16QAM	1	74	20.01	19.79	19.78	19.89		
15	16QAM	36	0	18.56	18.50	18.63	18.57		
15	16QAM	36	20	18.63	18.43	18.46	18.39		
15	16QAM	36	39	18.49	18.56	18.50	18.53	20	1.6
15	16QAM	75	0	18.42	18.46	18.62	18.47		
15	64QAM	1	0	18.63	18.79	18.79	18.84		
15	64QAM	1	37	18.82	18.79	18.61	18.80		
15	64QAM	1	74	18.78	18.77	18.71	18.75	20	1.6
15	64QAM	36	0	17.67	17.52	17.57	17.43		
15	64QAM	36	20	17.63	17.40	17.48	17.41		
15	64QAM	36	39	17.42	17.48	17.59	17.45		
15	64QAM	75	0	17.55	17.46	17.50	17.43	19	2.6
15	256QAM	1	0	15.85	15.79	15.71	15.80		
15	256QAM	1	37	15.76	15.56	15.69	15.54		
15	256QAM	1	74	15.83	15.82	15.67	15.71		
15	256QAM	36	0	15.89	15.38	15.45	15.43	17	4.6
15	256QAM	36	20	15.53	15.31	15.38	15.34		
15	256QAM	36	39	15.49	15.34	15.43	15.39		
15	256QAM	75	0	15.44	15.54	15.54	15.47		
Channel				55200	55615	56165	56690	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3607.5	3662.5	3695		
10	QPSK	1	0	20.43	20.37	20.47	20.24	21.6	0
10	QPSK	1	25	20.39	20.36	20.32	20.33		
10	QPSK	1	49	20.35	20.35	20.41	20.39		
10	QPSK	25	0	19.82	19.62	19.49	19.72		
10	QPSK	25	12	19.56	19.43	19.43	19.55	21	0.6
10	QPSK	25	25	19.46	19.48	19.49	19.45		
10	QPSK	50	0	19.70	19.57	19.67	19.67		
10	16QAM	1	0	20.07	19.92	19.86	19.86		
10	16QAM	1	25	19.94	19.74	19.92	19.78	21	0.6
10	16QAM	1	49	20.04	19.87	19.71	19.82		
10	16QAM	25	0	18.54	18.53	18.60	18.60		
10	16QAM	25	12	18.84	18.44	18.56	18.41		
10	16QAM	25	25	18.48	18.57	18.42	18.43	20	1.6
10	16QAM	50	0	18.44	18.41	18.61	18.46		
10	64QAM	1	0	18.99	18.79	18.75	18.83		
10	64QAM	1	25	18.82	18.81	18.65	18.76		
10	64QAM	1	49	18.81	18.74	18.73	18.72	20	1.6
10	64QAM	25	0	17.66	17.47	17.49	17.41		
10	64QAM	25	12	17.53	17.39	17.39	17.42		
10	64QAM	25	25	17.46	17.47	17.61	17.34		
10	64QAM	50	0	17.55	17.45	17.55	17.44	17	4.6
10	256QAM	1	0	15.85	15.80	15.66	15.83		
10	256QAM	1	25	15.81	15.60	15.58	15.63		
10	256QAM	1	49	15.68	15.80	15.70	15.78		
10	256QAM	25	0	15.58	15.46	15.54	15.42	17	4.6
10	256QAM	25	12	15.51	15.33	15.36	15.27		
10	256QAM	25	25	15.47	15.36	15.41	15.46		
10	256QAM	50	0	15.49	15.48	15.60	15.47		
Channel				55265	55810	56179	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3607	3663	3697.5		
5	QPSK	1	0	20.45	20.39	20.53	20.26	21.6	0
5	QPSK	1	12	20.50	20.43	20.30	20.37		
5	QPSK	1	24	20.37	20.36	20.35	20.30		
5	QPSK	12	0	19.81	19.63	19.57	19.71		
5	QPSK	12	7	19.55	19.54	19.44	19.54	21	0.6
5	QPSK	12	13	19.51	19.44	19.42	19.46		
5	QPSK	25	0	19.75	19.61	19.72	19.63		
5	16QAM	1	0	20.07	19.97	19.85	19.90		
5	16QAM	1	12	19.98	19.77	19.67	19.80	21	0.6
5	16QAM	1	24	20.07	19.84	19.75	19.88		
5	16QAM	12	0	18.84	18.42	18.54	18.57		
5	16QAM	12	7	18.61	18.50	18.52	18.47		
5	16QAM	12	13	18.43	18.53	18.35	18.47	20	1.6
5	16QAM	25	0	18.45	18.43	18.53	18.53		
5	64QAM	1	0	18.90	18.82	18.78	18.87		
5	64QAM	1	12	18.91	18.73	18.65	18.78		
5	64QAM	1	24	18.75	18.72	18.72	18.81	20	1.6
5	64QAM	12	0	17.59	17.46	17.56	17.40		
5	64QAM	12	7	17.52	17.43	17.48	17.33		
5	64QAM	12	13	17.48	17.42	17.59	17.37		
5	64QAM	25	0	17.49	17.47	17.46	17.37	19	2.6
5	256QAM	1	0	15.79	15.75	15.74	15.78		
5	256QAM	1	12	15.82	15.59	15.58	15.59		
5	256QAM	1	24	15.68	15.74	15.62	15.76		
5	256QAM	12	0	15.68	15.37	15.46	15.44	17	4.6
5	256QAM	12	7	15.51	15.31	15.39	15.28		
5	256QAM	12	13	15.43	15.33	15.51	15.41		
5	256QAM	25	0	15.43	15.55	15.55	15.51		

Band 38 Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel									
Frequency (MHz)				37965	38000	38100	38135	Tune-up limit (dBm)	MFR (dB)
Channel				37965	38000	38100	38135		
20	QPSK	1	0	22.75	22.75	22.75	22.75	24	0
20	QPSK	1	48	22.61	22.66	22.54	22.54		
20	QPSK	50	0	22.46	22.51	22.51	22.51	23	1
20	QPSK	50	24	21.54	21.71	21.54	21.54		
20	HQAM	1	0	21.54	21.55	21.66	21.66	23	1
20	HQAM	1	48	21.34	21.59	21.65	21.65		
20	HQAM	1	96	21.30	22.02	21.87	21.87	22	2
20	HQAM	50	0	20.63	20.76	20.57	20.57		
20	HQAM	50	24	20.57	20.59	20.59	20.59	22	2
20	HQAM	50	50	20.47	20.59	20.59	20.59		
20	HQAM	100	0	20.36	20.47	20.50	20.50	21	3
20	HQAM	100	0	20.01	20.05	20.05	20.05		
20	HQAM	1	48	20.76	20.84	20.86	20.86	19	5
20	HQAM	1	96	20.75	20.89	20.86	20.86		
20	HQAM	50	0	19.64	19.64	19.53	19.53	19	5
20	HQAM	50	24	19.51	19.57	19.51	19.51		
20	HQAM	50	50	19.57	19.57	19.45	19.45	19	5
20	HQAM	100	0	19.58	19.59	19.47	19.47		
20	HQAM	100	0	17.75	17.84	17.89	17.89	19	5
20	HQAM	1	48	17.77	17.86	17.74	17.74		
20	HQAM	1	96	17.79	17.77	17.85	17.85	19	5
20	HQAM	50	24	17.50	17.57	17.37	17.37		
20	HQAM	50	50	17.57	17.59	17.42	17.42	19	5
20	HQAM	100	0	17.50	17.50	17.40	17.40		
Channel									
Frequency (MHz)				37925	38000	38175	38175	Tune-up limit (dBm)	MFR (dB)
Channel				37925	38000	38175	38175	Tune-up limit (dBm)	MFR (dB)
15	QPSK	1	0	22.72	22.69	22.72	22.72	24	0
15	QPSK	1	37	22.89	22.61	22.43	22.43		
15	QPSK	1	74	22.36	22.66	22.46	22.46	23	1
15	QPSK	36	0	21.61	21.69	21.61	21.61		
15	QPSK	36	20	21.43	21.69	21.45	21.45	23	1
15	QPSK	36	38	21.57	21.67	21.65	21.65		
15	QPSK	75	0	21.62	21.77	21.65	21.65	23	1
15	HQAM	1	0	21.34	22.05	21.94	21.94		
15	HQAM	1	37	21.51	21.59	21.59	21.59	22	2
15	HQAM	1	74	21.89	21.59	21.84	21.84		
15	HQAM	36	0	20.58	20.71	20.46	20.46	22	2
15	HQAM	36	20	20.53	20.56	20.50	20.50		
15	HQAM	36	36	20.37	20.52	20.40	20.40	22	2
15	HQAM	75	0	20.37	20.56	20.50	20.50		
15	HQAM	75	0	20.30	20.56	20.50	20.50	21	3
15	HQAM	1	37	20.89	20.84	20.81	20.81		
15	HQAM	1	74	20.61	20.84	20.81	20.81	19	5
15	HQAM	36	0	19.54	19.59	19.53	19.53		
15	HQAM	36	20	19.50	19.54	19.41	19.41	19	5
15	HQAM	36	36	19.57	19.57	19.44	19.44		
15	HQAM	75	0	19.54	19.57	19.44	19.44	19	5
15	HQAM	75	0	17.69	17.62	17.63	17.63		
15	HQAM	1	37	17.72	17.72	17.72	17.72	19	5
15	HQAM	1	74	17.72	17.72	17.72	17.72		
15	HQAM	36	0	17.55	17.51	17.52	17.52	19	5
15	HQAM	36	20	17.51	17.54	17.50	17.50		
15	HQAM	36	36	17.49	17.52	17.53	17.53	19	5
15	HQAM	75	0	17.50	17.52	17.50	17.50		
Channel									
Frequency (MHz)				37900	38000	38200	38200	Tune-up limit (dBm)	MFR (dB)
Channel				37900	38000	38200	38200	Tune-up limit (dBm)	MFR (dB)
5	QPSK	1	0	22.54	22.73	22.62	22.62	24	0
5	QPSK	1	24	22.34	22.69	22.62	22.62		
5	QPSK	12	0	21.88	21.88	21.71	21.71	23	1
5	QPSK	12	7	21.52	21.86	21.71	21.71		
5	QPSK	12	13	21.56	21.61	21.55	21.55	23	1
5	QPSK	26	0	21.82	21.87	21.69	21.69		
5	HQAM	1	0	21.82	21.87	21.69	21.69	23	1
5	HQAM	1	12	21.86	21.86	21.83	21.83		
5	HQAM	1	24	21.85	22.01	21.83	21.83	22	2
5	HQAM	12	0	20.60	20.76	20.54	20.54		
5	HQAM	12	7	20.46	20.67	20.50	20.50	22	2
5	HQAM	12	13	20.45	20.48	20.47	20.47		
5	HQAM	26	0	20.85	20.58	20.46	20.46	22	2
5	HQAM	26	0	20.76	20.85	20.79	20.79		
5	HQAM	12	0	20.69	20.62	20.66	20.66	22	2
5	HQAM	1	24	20.67	20.62	20.67	20.67		
5	HQAM	12	0	19.86	19.85	19.43	19.43	21	3
5	HQAM	12	7	19.85	19.85	19.43	19.43		
5	HQAM	12	13	19.49	19.54	19.45	19.45	19	5
5	HQAM	26	0	19.57	19.67	19.47	19.47		
5	HQAM	1	0	17.67	17.74	17.61	17.61	19	5
5	HQAM	1	12	17.76	17.77	17.69	17.69		
5	HQAM	1	24	17.73	17.76	17.61	17.61	19	5
5	HQAM	12	0	17.36	17.58	17.47	17.47		
5	HQAM	12	7	17.48	17.58	17.35	17.35	19	5
5	HQAM	12	13	17.51	17.53	17.37	17.37		
5	HQAM	26	0	17.52	17.55	17.51	17.51	19	5
5	HQAM	26	0	17.52	17.55	17.51	17.51		

Band 41 Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel									
Frequency (MHz)				39790	40185	40620	41005	41460	41460
Channel				39790	40185	40620	41005	41460	41460
20	QPSK	1	0	23.24	23.29	23.21	23.24	23.14	23.14
20	QPSK	1	48	23.18	23.14	23.05	23.13	23.06	23.06
20	QPSK	50	0	23.17	23.03	22.97	23.04	23.01	23.01
20	QPSK	50	0	22.35	22.32	22.17	22.23	22.25	22.25
20	QPSK	50	24	22.36	22.09	22.61	22.14	22.07	22.07
20	QPSK	50	50	22.13	22.03	22.03	22.03	22.18	22.18
20	QPSK	100	0	22.34	22.21	22.15	22.23	22.13	22.13
20	16QAM	1	0	22.81	22.50	22.40	22.48	22.46	22.46
20	16QAM	1	48	22.54	22.49	22.39	22.45	22.38	22.38
20	16QAM	1	96	22.63	22.46	22.35	22.48	22.38	22.38
20	16QAM	50	0	21.25	21.13	21.13	21.26	21.01	21.01
20	16QAM	50	24	21.14	21.06	20.89	20.87	21.05	21.05
20	16QAM	50	50	21.22	21.15	21.00	21.00	21.00	21.00
20	16QAM	100	0	21.52	21.42	21.37	21.45	21.44	21.44
20	16QAM	1	48	21.47	21.40	21.30	21.40	21.31	21.31
20	16QAM	1	96	21.38	21.43	21.31	21.38	21.33	21.33
20	16QAM	50	0	20.23	20.08	20.09	20.08	20.05	20.07
20	16QAM	50	24	20.12	20.04	19.95	19.99	19.88	19.88
20	16QAM	50	50	20.13	20.03	20.03	19.97	19.89	19.89
20	16QAM	100	0	20.14	20.02	19.97	20.00	19.89	19.89
20	256QAM	1	0	18.42	18.40	18.21	18.21	18.27	18.27
20	256QAM	1	48	18.33	18.30	18.21	18.27	18.20	18.20
20	256QAM	1	96	18.31	18.37	18.28	18.23	18.25	18.25
20	256QAM	50	0	18.30	18.19	18.02	18.08	17.97	17.97
20	256QAM	50	24	18.14	17.91	18.01	17.98	17.89	17.89
20	256QAM	50	50	18.10	17.89	17.87	18.04	17.81	17.81
20	256QAM	100	0	18.14	18.11	18.06	18.06	18.06	18.06
Channel									
Frequency (MHz)				39725	40173	40620	41008	41615	41615
Channel				39725	40173	40620	41008	41615	41615

Reduced Power Mode for EC17

GSM850 Ant 0		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		32.02	31.98	31.84	33.50	33.02	22.98	22.94	24.50
GPRS 1 Tx slot		32.01	32.02	31.91	33.50	23.01	23.02	22.91	24.50
GPRS 2 Tx slots		31.22	31.23	31.16	32.50	25.22	25.23	25.16	26.50
GPRS 3 Tx slots		29.41	29.42	29.33	30.50	25.15	25.16	25.07	26.24
GPRS 4 Tx slots		28.20	28.25	28.13	29.50	25.20	25.25	25.13	26.50
EDGE 1 Tx slot		26.38	26.43	26.45	27.50	17.38	17.43	17.45	18.50
EDGE 2 Tx slots		25.14	25.23	25.37	26.50	19.14	19.23	19.37	20.50
EDGE 3 Tx slots		22.91	22.98	23.07	24.00	18.85	18.72	18.81	19.74
EDGE 4 Tx slots		21.58	21.66	21.69	22.50	18.56	18.66	18.69	19.50

GSM1900 Ant 0		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		512	661	810		512	661	810	
Frequency (MHz)		1850.2	1860	1909.8		1850.2	1860	1909.8	
GSM 1 Tx slot		28.85	28.84	29.01	30.30	19.85	19.84	20.01	21.30
GPRS 1 Tx slot		28.85	28.86	28.99	30.30	19.85	19.86	19.99	21.30
GPRS 2 Tx slots		26.27	26.31	26.44	27.30	20.27	20.31	20.44	21.30
GPRS 3 Tx slots		24.61	24.51	24.67	25.50	20.35	20.25	20.41	21.24
GPRS 4 Tx slots		23.57	23.64	23.63	24.30	20.57	20.64	20.63	21.30
EDGE 1 Tx slot		23.72	23.54	23.80	24.30	14.72	14.54	14.80	15.30
EDGE 2 Tx slots		22.54	22.33	22.60	23.30	16.54	16.33	16.60	17.30
EDGE 3 Tx slots		20.34	20.12	20.51	20.80	16.08	15.86	16.25	16.54
EDGE 4 Tx slots		19.15	18.91	19.10	19.80	16.15	15.91	16.10	16.80

Band		WCDMA II Ant 0			Tune-up Limit (dBm)	WCDMA IV Ant 0			Tune-up Limit (dBm)	WCDMA V Ant 0			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	1860	1907.8		1722.4	1727.5	1752.8		2062.4	2069.4	2106.6	
3GPP Rel 99	AMR 12.2Kbps	18.71	18.87	18.88	20.20	18.60	18.83	18.82	20.20	23.09	23.38	23.36	24.00
3GPP Rel 99	RMC 12.2Kbps	18.73	19.06	19.00	20.20	18.68	18.98	18.92	20.20	23.22	23.53	23.45	24.00
3GPP Rel 6	HSDPA Subtest-1	17.86	17.94	18.01	19.20	17.75	17.87	17.84	19.20	22.29	22.44	22.39	23.00
3GPP Rel 6	HSDPA Subtest-2	17.91	18.03	17.95	19.20	17.81	17.97	17.86	19.20	22.29	22.43	22.44	23.00
3GPP Rel 6	HSDPA Subtest-3	17.36	17.54	17.35	18.70	17.52	17.55	17.21	18.70	21.90	21.95	21.87	22.50
3GPP Rel 6	HSDPA Subtest-4	17.31	17.52	17.42	18.70	17.28	17.42	17.30	18.70	21.84	21.91	21.89	22.50
3GPP Rel 8	DCHSDPA Subtest-1	17.89	17.88	17.83	19.20	17.80	17.85	17.82	19.20	22.36	22.33	22.31	23.00
3GPP Rel 8	DCHSDPA Subtest-2	17.78	17.83	17.80	19.20	17.78	17.74	17.73	19.20	22.26	22.32	22.30	23.00
3GPP Rel 8	DCHSDPA Subtest-3	17.35	17.49	17.33	18.70	17.38	17.34	17.17	18.70	21.83	21.86	21.78	22.50
3GPP Rel 8	DCHSDPA Subtest-4	17.22	17.43	17.23	18.70	17.22	17.42	17.22	18.70	21.76	21.84	21.77	22.50
3GPP Rel 6	HSUPA Subtest-1	17.72	17.98	17.87	19.20	17.59	17.82	17.85	19.20	22.25	22.40	22.34	23.00
3GPP Rel 6	HSUPA Subtest-2	15.88	15.95	15.87	17.20	15.85	15.92	15.84	17.20	20.35	20.48	20.36	21.00
3GPP Rel 6	HSUPA Subtest-3	16.88	17.15	16.97	18.20	16.90	17.01	16.71	18.20	21.35	21.58	21.37	22.00
3GPP Rel 6	HSUPA Subtest-4	15.70	15.93	15.83	17.20	15.67	15.90	15.78	17.20	20.16	20.41	20.30	21.00
3GPP Rel 6	HSUPA Subtest-5	17.71	17.83	17.82	19.20	17.66	17.86	17.89	19.20	22.16	22.32	22.43	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.39	15.44	15.60	16.70	15.33	15.35	15.46	16.70	19.98	19.93	20.04	20.50



Band 2 Ant 0												
BW [MHz]	Modulation	RB Size	RB Offset	Power Min [Ch./Freq.]	Power Max [Ch./Freq.]	Power Hsp [Ch./Freq.]	Time-up Int. (s)	MRR (dB)	Tune-up Int. (s)	MRR (dB)		
Channel												
Frequency [MHz]												
20	QPSK	1	0	16.13	16.27	16.26			19.1	0		
20	QPSK	1	8	16.12	16.26	16.25						
20	QPSK	1	99	16.19	16.22	16.24			19.1	0		
20	QPSK	50	0	16.00	16.16	16.12						
20	QPSK	50	24	16.10	16.03	16.14			19.1	0		
20	QPSK	50	50	16.16	16.09	16.13						
20	QPSK	100	0	17.84	17.82	17.89			19.1	0		
20	QPSK	100	50	17.86	17.86	17.86						
20	16QAM	1	49	16.12	16.02	17.99			19.1	0		
20	16QAM	1	99	17.82	17.64	17.80						
20	16QAM	50	0	17.97	17.73	17.80			19.1	0		
20	16QAM	50	24	17.82	17.78	17.86						
20	16QAM	50	50	17.90	17.86	17.80			19.1	0		
20	16QAM	100	0	17.78	17.79	17.85						
20	64QAM	1	0	17.99	17.91	17.76			19.1	0		
20	64QAM	1	49	17.92	17.73	17.94						
20	64QAM	50	0	17.80	17.77	17.87			19.1	0		
20	64QAM	50	24	17.99	17.80	17.80						
20	64QAM	100	0	17.84	17.75	17.93			19.1	0		
20	64QAM	100	0	17.83	17.69	17.94						
20	256QAM	1	49	17.53	17.57	17.55			19	0.1		
20	256QAM	1	99	17.58	17.62	17.62						
20	256QAM	50	0	17.56	17.59	17.59			19	0.1		
20	256QAM	50	24	17.50	17.53	17.56						
20	256QAM	50	50	17.50	17.60	17.54			19	0.1		
20	256QAM	100	0	17.50	17.57	17.57						
Channel												
Frequency [MHz]												
15	QPSK	1	0	16.03	16.20	16.20			19.1	0		
15	QPSK	1	8	16.11	16.06	16.10						
15	QPSK	1	74	16.08	16.14	16.20			19.1	0		
15	QPSK	36	0	17.87	16.11	16.20						
15	QPSK	36	99	16.06	16.06	17.99			19.1	0		
15	QPSK	36	99	16.09	17.88	16.02						
15	QPSK	75	0	17.78	16.09	17.80			19.1	0		
15	QPSK	75	0	17.84	17.84	17.80						
15	16QAM	1	37	16.05	16.03	17.85			19.1	0		
15	16QAM	1	8	17.86	17.86	17.85						
15	16QAM	36	0	17.86	17.80	17.85			19.1	0		
15	16QAM	36	20	17.74	17.68	17.77						
15	16QAM	75	0	17.84	17.78	17.80			19.1	0		
15	16QAM	75	0	17.68	17.70	17.72						
15	64QAM	1	0	17.88	17.83	17.83			19.1	0		
15	64QAM	1	49	17.87	17.87	17.89						
15	64QAM	1	74	17.91	17.89	17.82			19.1	0		
15	64QAM	36	0	17.73	17.67	17.76						
15	64QAM	36	99	17.75	17.65	17.87			19.1	0		
15	64QAM	36	99	17.77	17.65	17.87						
15	64QAM	75	0	17.71	17.63	17.69			19.1	0		
15	64QAM	75	0	17.70	17.60	17.67						
15	256QAM	1	37	17.50	17.50	17.47			19	0.1		
15	256QAM	1	74	17.53	17.57	17.58						
15	256QAM	36	0	17.52	17.56	17.56			19	0.1		
15	256QAM	36	20	17.37	17.37	17.42						
15	256QAM	36	99	17.44	17.54	17.47			19	0.1		
15	256QAM	75	0	17.47	17.57	17.48						
Channel												
Frequency [MHz]												
10	QPSK	1	0	16.03	16.03	16.03			19.1	0		
10	QPSK	1	25	16.14	16.13	16.10						
10	QPSK	1	49	16.10	16.13	16.13			19.1	0		
10	QPSK	25	0	16.03	16.03	16.07						
10	QPSK	25	12	16.11	17.87	16.06			19.1	0		
10	QPSK	25	25	16.11	17.84	16.03						
10	QPSK	100	0	17.80	17.80	17.79			19.1	0		
10	16QAM	1	0	17.92	17.86	17.94						
10	16QAM	1	25	16.01	17.85	17.81			19.1	0		
10	16QAM	1	49	17.89	17.69	17.77						
10	16QAM	25	0	17.81	17.82	17.85			19.1	0		
10	16QAM	25	12	17.69	17.66	17.73						
10	16QAM	25	25	17.82	17.83	17.83			19.1	0		
10	16QAM	50	0	17.70	17.63	17.73						
10	16QAM	50	0	17.91	17.81	17.84			19.1	0		
10	64QAM	1	0	17.82	17.68	17.80						
10	64QAM	1	49	17.89	17.69	17.77			19.1	0		
10	64QAM	25	0	17.64	17.62	17.73						
10	64QAM	25	12	17.83	17.68	17.85			19.1	0		
10	64QAM	25	25	17.77	17.62	17.87						
10	64QAM	50	0	17.69	17.62	17.87			19	0.1		
10	64QAM	50	0	17.56	17.62	17.53						
10	256QAM	1	25	17.42	17.46	17.52			19	0.1		
10	256QAM	1	49	17.52	17.48	17.53						
10	256QAM	25	0	17.65	17.62	17.64			19	0.1		
10	256QAM	25	12	17.49	17.48	17.44						
10	256QAM	25	25	17.36	17.54	17.44			19	0.1		
10	256QAM	50	0	17.40	17.54	17.44						
Channel												
Frequency [MHz]												
5	QPSK	1	0	16.03	16.03	16.03			19.1	0		
5	QPSK	1	12	16.17	16.04	16.06						
5	QPSK	1	24	16.13	16.16	16.13			19.1	0		
5	QPSK	12	0	17.86	16.01	16.07						
5	QPSK	12	7	16.11	17.83	16.03			19.1	0		
5	QPSK	12	13	16.04	17.84	16.04						
5	QPSK	12	13	17.88	17.89	17.74			19.1	0		
5	16QAM	1	0	17.94	17.84	17.85						
5	16QAM	1	12	17.88	17.60	17.85			19.1	0		
5	16QAM	1	17	17.66	17.78	17.80						
5	16QAM	12	0	17.84	17.86	17.85			19.1	0		
5	16QAM	12	7	17.76	17.70	17.79						
5	16QAM	12	13	17.84	17.69	17.80			19.1	0		
5	16QAM	25	0	17.71	17.60	17.76						
5	64QAM	1	0	17.92	17.76	17.86			19.1	0		
5	64QAM	1	24	17.84	17.62	17.81						
5	64QAM	12	0	17.68	17.65	17.80			19.1	0		
5	64QAM	12	7	17.80	17.63	17.89						
5	64QAM	15	0	17.70	17.72	17.83			19.1	0		
5	64QAM	15	0	17.47	17.56	17.83						
5	256QAM	1	12	17.39	17.54	17.53			19	0.1		
5	256QAM	1	24	17.39	17.51	17.53						
5	256QAM	12	0	17.58	17.56	17.54			19	0.1		
5	256QAM	12	7	17.42	17.48	17.44						
5	256QAM	25	0	17.40	17.57	17.48			19	0.1		
Channel												
Frequency [MHz]												
3	QPSK	1	0	16.03	16.03	16.03					19.1	0
3	QPSK	1	8	16.21	16.16	16.16						
3	QPSK	1	14	16.08	16.08	16.09			19.1	0		
3	QPSK	8	0	17.85	16.03	16.09						
3	QPSK	8	4	16.05	17.86	16.01			19.1	0		
3	QPSK	8	7	16.07	17.87	16.03						
3	QPSK	14	0	17.74	16.03	17.76			19.1			



Band 13 Ant 0									
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Inst (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.66	22.62	22.68	24	0	
10	QPSK	1	25	22.61	22.67	22.63			
10	QPSK	1	49	22.68	22.62	22.66			
10	QPSK	25	0	22.62	22.66	22.64	23	1	
10	QPSK	25	12	21.84	21.87	21.81			
10	QPSK	25	25	21.81	21.86	21.83			
10	QPSK	50	0	21.83	21.87	21.85	23	1	
10	16QAM	1	0	22.26	22.22	22.28			
10	16QAM	1	25	22.24	22.28	22.26			
10	16QAM	1	49	22.28	22.24	22.26	22	2	
10	16QAM	25	0	20.94	20.96	20.95			
10	16QAM	25	12	20.90	20.92	20.91			
10	16QAM	25	25	20.91	20.89	20.90	21	3	
10	16QAM	50	0	20.79	20.79	20.79			
10	16QAM	50	0	21.14	21.14	21.14			
10	64QAM	1	0	21.08	21.08	21.08	22	2	
10	64QAM	1	25	21.06	21.06	21.06			
10	64QAM	1	49	21.06	21.06	21.06			
10	64QAM	25	0	19.83	19.83	19.83	21	3	
10	64QAM	25	12	19.76	19.76	19.76			
10	64QAM	25	25	19.71	19.71	19.71			
10	64QAM	50	0	19.83	19.83	19.83	19	5	
10	256QAM	1	0	16.90	16.90	16.90			
10	256QAM	1	25	16.94	16.94	16.94			
10	256QAM	1	49	17.69	17.69	17.69	19	5	
10	256QAM	25	0	17.68	17.68	17.68			
10	256QAM	25	12	17.78	17.78	17.78			
10	256QAM	25	25	17.79	17.79	17.79	19	5	
10	256QAM	50	0	17.70	17.70	17.70			
10	256QAM	50	0	17.70	17.70	17.70			

Band 14 Ant 0									
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Inst (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.74	22.70	22.78	24	0	
10	QPSK	1	25	22.70	22.74	22.72			
10	QPSK	1	49	22.78	22.70	22.74			
10	QPSK	25	0	21.79	21.81	21.80	23	1	
10	QPSK	25	12	21.67	21.69	21.68			
10	QPSK	25	25	21.65	21.72	21.69			
10	QPSK	50	0	21.73	21.73	21.73	23	1	
10	16QAM	1	0	22.03	22.03	22.03			
10	16QAM	1	25	22.05	22.05	22.05			
10	16QAM	1	49	22.09	22.09	22.09	22	2	
10	16QAM	25	0	20.70	20.70	20.70			
10	16QAM	25	12	20.62	20.62	20.62			
10	16QAM	25	25	20.62	20.62	20.62	21	3	
10	16QAM	50	0	20.56	20.56	20.56			
10	64QAM	1	0	20.96	20.96	20.96	22	2	
10	64QAM	1	25	20.90	20.90	20.90			
10	64QAM	1	49	20.90	20.90	20.90			
10	64QAM	25	0	19.83	19.83	19.83	21	3	
10	64QAM	25	12	19.97	19.97	19.97			
10	64QAM	25	25	19.85	19.85	19.85			
10	64QAM	50	0	19.84	19.84	19.84	19	5	
10	256QAM	1	0	17.66	17.66	17.66			
10	256QAM	1	25	17.76	17.76	17.76			
10	256QAM	1	49	17.76	17.76	17.76	19	5	
10	256QAM	25	0	17.69	17.69	17.69			
10	256QAM	25	12	17.65	17.65	17.65			
10	256QAM	25	25	17.68	17.68	17.68	19	5	
10	256QAM	50	0	17.68	17.68	17.68			
10	256QAM	50	0	17.68	17.68	17.68			

Band 17 Ant 0									
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Inst (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.79	22.83	22.73	24	0	
10	QPSK	1	25	22.83	22.87	22.83			
10	QPSK	1	49	22.49	22.85	22.69			
10	QPSK	25	0	21.84	21.80	21.81	23	1	
10	QPSK	25	12	21.68	21.74	21.73			
10	QPSK	25	25	21.69	21.72	21.69			
10	QPSK	50	0	21.80	21.81	21.73	23	1	
10	16QAM	1	0	22.03	22.03	22.03			
10	16QAM	1	25	22.03	22.13	22.01			
10	16QAM	1	49	21.82	22.09	21.94	22	2	
10	16QAM	25	0	20.73	20.81	20.84			
10	16QAM	25	12	20.66	20.84	20.82			
10	16QAM	25	25	20.66	20.84	20.82	21	3	
10	16QAM	50	0	20.63	20.65	20.65			
10	64QAM	1	0	20.94	20.99	21.00	22	2	
10	64QAM	1	25	20.86	21.04	20.91			
10	64QAM	1	49	20.85	20.88	20.83			
10	64QAM	25	0	19.72	19.73	19.59	21	3	
10	64QAM	25	12	19.63	19.67	19.63			
10	64QAM	25	25	19.62	19.56	19.61			
10	64QAM	50	0	19.58	19.62	19.54	19	5	
10	256QAM	1	0	17.61	17.67	17.59			
10	256QAM	1	25	17.62	17.71	17.71			
10	256QAM	1	49	17.60	17.78	17.69	19	5	
10	256QAM	25	0	17.68	17.71	17.61			
10	256QAM	25	12	17.59	17.69	17.45			
10	256QAM	25	25	17.63	17.70	17.60	19	5	
10	256QAM	50	0	17.60	17.73	17.67			
10	256QAM	50	0	17.60	17.73	17.67			

Band 25 Ant 0									
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Inst (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	18.15	18.14	18.22	19	0	
20	QPSK	1	49	18.02	18.26	18.11			
20	QPSK	1	99	18.22	18.29	18.22			
20	QPSK	50	0	17.88	18.24	18.15	19	0	
20	QPSK	50	24	17.83	18.10	18.10			
20	QPSK	50	50	18.09	18.10	18.15			
20	QPSK	100	0	17.89	18.09	17.87	19	0	
20	16QAM	1	0	17.96	17.96	17.96			
20	16QAM	1	49	18.04	17.96	17.97			
20	16QAM	1	99	17.76	17.75	17.85	19	0	
20	16QAM	50	0	17.80	17.72	17.81			
20	16QAM	50	24	17.83	17.81	17.84			
20	16QAM	50	50	17.95	17.95	17.95	19	0	
20	16QAM	100	0	17.75	17.79	17.88			
20	64QAM	1	0	17.99	17.99	17.95	19	0	
20	64QAM	1	49	18.06	17.81	17.93			
20	64QAM	1	99	17.86	17.79	17.91			
20	64QAM	50	0	17.75	17.75	17.88	19	0	
20	64QAM	50	24	17.80	17.82	17.83			
20	64QAM	50	50	17.77	17.84	17.88			
20	64QAM	100	0	17.72	17.79	17.86	19	0	
20	256QAM	1	0	17.66	17.66	17.66			
20	256QAM	1	49	17.62	17.59	17.64			
20	256QAM	1	99	17.56	17.54	17.63	19	0	
20	256QAM	50	0	17.60	17.60	17.60			
20	256QAM	50	24	17.39	17.39	17.19			
20	256QAM	50	50	17.37	17.34	17.31	19	0	
20	256QAM	100	0	17.37	17.37	17.37			
20	256QAM	100	0	17.37	17.37	17.37			
Channel									
Frequency (MHz)									
15	QPSK	1	0	18.07	18.05	18.07	19	0	
15	QPSK	1	49	17.99	18.28	18.10			
15	QPSK	1	74	18.12	18.14	18.16			
15	QPSK	50	0	17.83	18.08	18.05	19	0	
15	QPSK	50	24	18.07	18.08	17.98			
15	QPSK	50	50	18.07	18.08	18.08			
15	QPSK	36	36	17.98	17.86	17.88	19	0	
15	QPSK	36	36	17.93	17.89	17.74			
15	QPSK	36	36	17.90	17.87	17.85			
15	16QAM	1	0	17.90	17.87	17.87	19	0	
15	16QAM	1	37	17.98	17.81	17.88			
15	16QAM	1	74	17.91	17.82	17.79			
15	16QAM	36	36	17.80	17.68	17.67	19	0	
15	16QAM	36	36	17.76	17.68	17.72			
15	16QAM	36	36	17.73	17.68	17.73			
15	16QAM	75	0	17.60	17.60	17.67	19	0	
15	16QAM	75	0	17.64	17.61	17.61			
15	16QAM	75	0	17.64	17.61	17.61			
15	16QAM	1	0	17.84	17.73	17.71	19	0	
15	16QAM	1	49	17.78	17.71	17.71			
15	16QAM	1	99	17.78	17.71	17.71			
15	16QAM	36	36	17.69	17.62	17.63	19	0	
15	16QAM	36	36	17.69	17.62	17.63			
15	16QAM	36	36	17.69	17.62	17.63			
15	16QAM	75	0	17.60	17.60	17.67	19	0	
15	16QAM	75	0	17.64	17.61	17.61			
15	16QAM	75	0	17.64	17.61	17.61			
15	16QAM	1	74	17.80	17.73	17.84	19	0	
15	16QAM	36	36	17.69	17.62	17.63			
15	16QAM	36	36	17.69	17.62	17.63			
15	16QAM	75	0	17.60	17.60	17.67	19	0	
15	16QAM	75	0	17.64	17.61	17.61			
15	16QAM	75	0	17.64	17.61	17.61			
15	256QAM	1	37	17.99	17.93	17.62	19	0	
15	256QAM	1	74	17.40	17.41	17.55			
15	256QAM	1	99	17.44	17.43	17.22			
15	256QAM	36	36	17.16	17.35	17.22	19	0	
15	256QAM	36	36	17.16	17.35	17.22			
15	256QAM	36	36	17.16	17.35	17.22			
15	256QAM	75	75	17.30	17.41	17.30	19	0	
15	256QAM	75	75	17.30	17.41	17.30			
15	256QAM	75	75	17.30	17.41	17.30			
Channel									
Frequency (MHz)									
10	QPSK	1	0	18.00	18.30	18.10	19	0	
10	QPSK	1	24	18.08	18.12	17.88			
10	QPSK	1	49	18.07	18.14	18.02			
10	QPSK	50	0	17.83	18.08	18.05	19	0	
10	QPSK	50	24	18.11	18.05	17.85			
10	QPSK	50	50	17.99	18.04	18.09			
10	QPSK	100	0	17.79	18.02	17.88	19	0	
10	QPSK	1	0	17.94	17.82	17.88			
10	QPSK	1	24	17.71	17.68	17.75			
10	QPSK	25	0	17.74	17.63	17.75	19	0	
10	QPSK	25	0	17.71	17.62	17.71			
10	QPSK	25	0	17.71	17.62	17.71			
10	16QAM	25	0	17.68	17.63	17.65	19	0	
10	16QAM	25	0	17.65	17.65	17.67			
10	16QAM	25	0	17.64	17.61	17.61			
10	16QAM	25	25	17.68	17.75	17.85	19	0	
10	16QAM	25	25	17.68	17.75	17.85			
10	16QAM	25	25	17.68	17.75	17.85			
10	16QAM	1	49	17.87	17.74	17.88	19	0	
10	16QAM	1	99	17.78	17.71	17.71			
10	16QAM	1	99	17.78	17.71	17.71			
10	16QAM	25	12	17.63	17.67	17.75	19	0	
10	16QAM	25	12	17.63	17.67	17.75			
10	16QAM	25	12	17.63	17.67	17.75			
10	16QAM	25	25	17.61	17.80	17.79	19	0	
10	16QAM	25	25	17.61	17.80	17.79			
10	16QAM	25	25	17.61	17.80	17.79			
10	256QAM	1	0	17.59	17.64	17.66	19	0	
10	256QAM	1	0	17.59	17.64	17.66			
10	256QAM	1	0	17.59	17.64	17.66			
10	256QAM	1	25	17.37	17.53	17.47	19	0	
10	256QAM	1	25	17.37	17.53	17.47			
10	256QAM	1	25	17.37	17.53	17.47			
10	256QAM	25	0	17.24	17.37	17.25	19	0	
10	256QAM	25	0	17.24	17.37	17.25			
10	256QAM	25	0	17.24	17.37	17.25			
10	256QAM	25	12	17.26	17.30	17.34	19	0	
10	256QAM	25	12	17.26	17.30	17.34			
10	256QAM	25	12	17.26	17.30	17.34			
10	256QAM	50	0	17.41	17.40	17.19	19	0	
10	256QAM	50	0	17.41	17.40	17.19			
10	256QAM	50	0	17.41	17.40	17.19			
Channel									
Frequency (MHz)									
5	QPSK	1	0	18.02	18.05	18.02	19	0	
5	QPSK	1	0	17.99	18.26	18.09			
5	QPSK	1	12	18.10	18.12	18.06			
5	QPSK	13	13	17.98	18.01	17.98	19	0	
5	QPSK	13	13	17.98	18.01	17.98			
5	QPSK	13	13	17.98	18.01	17.98			
5	QPSK	12	7	18.09	17.98	18.02	19	0	
5	QPSK	12	7	18.09	17.98	18.02			
5	QPSK	12	7	18.09	17.98	18.02			
5	QPSK	25	0	17.74	18.03	17.78	19	0	
5	QPSK	25	0	17.74	18.03	17.78			
5	QPSK	25	0	17.74	18.03	17.78			
5	QPSK	1	0	17.90	17.85	17.87	19	0	
5	QPSK	1	0	17.90	17.85	17.87			
5	QPSK	1	0	17.90	17.85	17.87			
5	16QAM	12	0	17.85	17.87	17.87	19	0	
5	16QAM	12	0	17.85	17.87	17.87			
5	16QAM	12	0	17.85	17.87	17.87			
5	16QAM	1	24	17.93	17.65	17.72	19	0	
5	16QAM	1	24	17.93	17.65	17.72			
5	16QAM	1	24	17.93	17.65	17.72			
5	16QAM	12	0	17.85	17.87	17.87	19	0	
5	16QAM	12	0	17.85	17.87	17.87			
5	16QAM	12	0	17.85	17.87	17.87			
5	16QAM	12	18	17.83	17.82	17.87	19	0	
5	16QAM	12	18	17.83	17.82	17.87			
5	16QAM	12	18	17.83	17.82	17.87			
5	16QAM	25	0	17.76	17.69	17.73	19	0	
5	16QAM	25	0	17.76	17.69	17.73			
5	16QAM	25	0	17.76	17.69	17.73			
5	16QAM	1	12	17.84	17.74	17.84	19	0	
5	16QAM	1	12	17.84	17.74	17.84			
5	16QAM	1	12	17.84	17.74	17.84			
5	16QAM	12	12	17.63	17.64	17.65	19	0	
5	16QAM	12	12	17.63	17.64	17.65			
5	16QAM	12	12	17.63	17.64	17.65			
5	16QAM	12	7	17.87	17.78	17.78	19	0	
5	16QAM	12	7	17.87	17.78	17.78			
5	16QAM	12	7	17.87	17.78	17.78			
5	16QAM	1	0	17.81	17.69	17.71	19	0	
5	16QAM	1	0	17.81	17.69	17.71			
5	16QAM	1	0	17.81	17.69	17.71			
5	16QAM	1	0	17.49	17.68	17.68	19	0	
5	16QAM	1	0	17.49	17.68	17.68			
5	16QAM	1	0	17.49	17.68	17.68			
5	16QAM	1	13	17.72	17.78	17.78	19	0	
5	16QAM	1	13	17.72	17.78	17.78			
5	16QAM	1	13	17.72	17.78	17.78			
5	256QAM	1	24	17.41	17.41	17.58	19	0	
5	256QAM	1	24	17.41	17.41	17.58			
5	256QAM	1	24	17.41	17.41	17.58			
5	256QAM	12	0	17.27	17.38	17.22	19	0	
5	256QAM	12	0	17.27	17.38	17.22			



Band 26 for FCC Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up Init. (dB)	APR3 (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.55	22.64	22.61			24	0
15	QPSK	1	37	22.45	22.54	22.48				
15	QPSK	1	74	22.40	22.43	22.32				
15	QPSK	36	0	21.63	21.73	21.54				
15	QPSK	36	26	21.46	21.56	21.41			23	1
15	QPSK	36	39	21.34	21.43	21.47				
15	QPSK	75	0	21.58	21.62	21.60				
15	16QAM	1	0	21.82	21.84	21.86				
15	16QAM	1	37	21.74	21.88	21.81			23	1
15	16QAM	1	74	21.79	21.84	21.69				
15	16QAM	36	0	20.41	20.52	20.32				
15	16QAM	36	20	20.44	20.53	20.47				
15	16QAM	36	39	20.39	20.49	20.36			22	2
15	16QAM	75	0	20.37	20.51	20.49				
15	16QAM	1	0	20.77	20.84	20.77				
15	64QAM	1	37	20.70	20.76	20.62			22	2
15	64QAM	1	74	20.68	20.71	20.65				
15	64QAM	36	20	19.35	19.46	19.34				
15	64QAM	36	39	19.31	19.36	19.40				
15	256QAM	1	0	17.71	17.74	17.70			21	3
15	256QAM	1	37	17.67	17.67	17.63				
15	256QAM	1	74	17.63	17.68	17.58				
15	256QAM	36	0	17.43	17.56	17.47				
15	256QAM	36	20	17.33	17.41	17.34			19	5
15	256QAM	36	39	17.38	17.48	17.39				
15	256QAM	75	0	17.36	17.48	17.45				
15	256QAM	1	0	17.26	17.38	17.32				
Channel				26.67	26.65	26.63	Turn-up Init. (dB)	APR3 (dB)		
Frequency (MHz)										
15	QPSK	1	0	22.55	22.42	22.49			24	0
15	QPSK	1	26	22.48	22.46	22.33				
15	QPSK	1	49	22.32	22.33	22.24				
15	QPSK	26	0	21.62	21.49	21.47				
15	QPSK	26	12	21.45	21.41	21.33			23	1
15	QPSK	26	25	21.32	21.22	21.33				
15	QPSK	50	0	21.65	21.69	21.76				
15	16QAM	1	0	21.82	21.87	21.79				
15	16QAM	1	26	21.83	21.84	21.75			23	1
15	16QAM	1	49	21.79	21.74	21.76				
15	16QAM	26	0	20.40	20.34	20.46				
15	16QAM	26	12	20.46	20.34	20.37				
15	16QAM	50	0	20.35	20.29	20.34			22	2
15	16QAM	50	12	20.46	20.34	20.37				
15	64QAM	1	0	20.68	20.63	20.68				
15	64QAM	1	26	20.65	20.62	20.61				
15	64QAM	1	49	20.58	20.57	20.53			21	3
15	64QAM	26	0	19.42	19.30	19.37				
15	64QAM	26	12	19.34	19.29	19.28				
15	64QAM	50	0	19.20	19.21	19.31				
15	256QAM	1	0	17.63	17.60	17.63			19	5
15	256QAM	1	26	17.59	17.47	17.59				
15	256QAM	1	49	17.58	17.56	17.49				
15	256QAM	26	0	17.45	17.34	17.45				
15	256QAM	26	12	17.29	17.28	17.29			19	5
15	256QAM	26	25	17.34	17.21	17.34				
15	256QAM	50	0	17.30	17.24	17.32				
Channel				26.71	26.69	26.67	Turn-up Init. (dB)	APR3 (dB)		
Frequency (MHz)										
5	QPSK	1	0	22.58	22.45	22.47			24	0
5	QPSK	1	12	22.43	22.23	22.40				
5	QPSK	1	24	22.34	22.25	22.21				
5	QPSK	12	0	21.68	21.59	21.47				
5	QPSK	12	7	21.51	21.42	21.29			23	1
5	QPSK	12	13	21.33	21.20	21.37				
5	QPSK	36	0	21.66	21.66	21.66				
5	16QAM	1	0	21.85	21.68	21.71				
5	16QAM	1	12	21.80	21.68	21.72			22	2
5	16QAM	1	24	21.80	21.71	21.68				
5	16QAM	12	0	20.47	20.32	20.47				
5	16QAM	12	7	20.47	20.39	20.34				
5	16QAM	12	13	20.36	20.38	20.27			21	3
5	16QAM	25	0	20.40	20.29	20.39				
5	64QAM	1	0	20.69	20.63	20.71				
5	64QAM	1	12	20.61	20.65	20.68				
5	64QAM	1	24	20.64	20.62	20.63			21	3
5	64QAM	12	0	19.42	19.29	19.27				
5	64QAM	12	7	19.37	19.29	19.26				
5	64QAM	12	13	19.23	19.23	19.31				
5	64QAM	12	19	19.23	19.23	19.31			19	5
5	256QAM	1	0	17.67	17.68	17.67				
5	256QAM	1	12	17.58	17.47	17.52				
5	256QAM	1	24	17.58	17.54	17.53				
5	256QAM	12	0	17.48	17.34	17.34			19	5
5	256QAM	12	7	17.30	17.29	17.32				
5	256QAM	12	13	17.41	17.27	17.35				
5	256QAM	25	0	17.37	17.27	17.38			19	5
Channel				26.75	26.69	26.67	Turn-up Init. (dB)	APR3 (dB)		
Frequency (MHz)										
3	QPSK	1	0	22.53	22.45	22.47			24	0
3	QPSK	1	8	22.47	22.34	22.33				
3	QPSK	1	14	22.34	22.30	22.22				
3	QPSK	8	0	21.63	21.61	21.61				
3	QPSK	8	4	21.43	21.36	21.28			23	1
3	QPSK	8	7	21.29	21.18	21.32				
3	QPSK	16	0	21.15	21.43	21.46				
3	16QAM	1	0	21.80	21.72	21.75				
3	16QAM	1	8	21.74	21.63	21.75			23	1
3	16QAM	1	14	21.65	21.75	21.67				
3	16QAM	8	0	20.46	20.35	20.36				
3	16QAM	8	4	20.44	20.39	20.35				
3	16QAM	8	7	20.35	20.29	20.25			22	2
3	16QAM	16	0	20.36	20.32	20.33				
3	64QAM	1	0	20.75	20.70	20.73				
3	64QAM	1	8	20.67	20.62	20.53				
3	64QAM	1	14	20.58	20.58	20.54			21	3
3	64QAM	8	0	19.45	19.31	19.29				
3	64QAM	8	4	19.36	19.23	19.20				
3	64QAM	8	7	19.25	19.18	19.31				
3	64QAM	16	0	19.40	19.25	19.36			19	5
3	256QAM	1	0	17.61	17.56	17.56				
3	256QAM	1	8	17.60	17.42	17.63				
3	256QAM	1	14	17.58	17.48	17.53				
3	256QAM	16	0	17.46	17.33	17.39				
3	256QAM	8	0	17.25	17.28	17.23			19	5
3	256QAM	8	7	17.38	17.31	17.33				
3	256QAM	8	14	17.39	17.31	17.33				
3	256QAM	16	4	17.40	17.34	17.36				
Channel				26.67	26.65	26.63	Turn-up Init. (dB)	APR3 (dB)		
Frequency (MHz)										
1.4	QPSK	1	0	22.52	22.45	22.45			24	0
1.4	QPSK	1	3	22.47	22.31	22.35				
1.4	QPSK	1	5	22.29	22.31	22.16				
1.4	QPSK	3	0	22.47	22.37	22.41				
1.4	QPSK	3	1	22.35	22.19	22.27			23	1
1.4	QPSK	3	3	22.20	22.19	22.05				
1.4	QPSK	1	0	21.87	21.43	21.39				
1.4	16QAM	1	0	21.87	21.72	21.72				
1.4	16QAM	1	3	21.79	21.61	21.66			23	1
1.4	16QAM	1	5	21.79	21.65	21.61				
1.4	16QAM	3	0	21.77	21.60	21.68				
1.4	16QAM	3	1	21.74	21.53	21.61			21	3
1.4	16QAM	3	3	21.67	21.61	21.48				
1.4	64QAM	1	0	20.46	20.23	20.40				
1.4	64QAM	1	3	20.40	20.66	20.75				
1.4	64QAM	3	0	20.35	20.61	20.63			22	2
1.4	64QAM	3	1	20.46	20.53	20.59				
1.4	64QAM	3	3	20.71	20.50	20.52				
1.4	64QAM	3	5	20.52	20.50	20.46				
1.4	64QAM	3	3	20.58	20.48	20.55			21	3
1.4	64QAM	6	0	19.45	19.23	19.38				
1.4	64QAM	6	1	19.45	19.23	19.38				
1.4	256QAM	1	0	17.58	17.51	17.55			19	5
1.4	256QAM	1	3	17.57	17.50	17.54				
1.4	256QAM	1	5	17.51	17.48	17.43				
1.4	256QAM	3	0	17.31	17.26	17.30				
1.4	256QAM	3	1	17.33	17.25	17.28			19	5
1.4	256QAM	3	3	17.28	17.23	17.28				
1.4	256QAM	6	0	17.24	17.18	17.24				



Band 38 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37465	38050	38150			
				23.75	24.75	25.75			
20	QPSK	1	0	18.55	18.54	18.52	20.1	0	
20	QPSK	1	49	18.60	18.63	18.67			
20	QPSK	1	99	18.62	18.73	18.89			
20	QPSK	50	0	18.41	18.05	18.60			
20	QPSK	50	24	18.58	18.51	18.60	20.1	0	
20	QPSK	50	49	18.36	18.39	18.45			
20	QPSK	100	0	18.35	18.47	18.33			
20	QPSK	100	1	18.46	18.53	18.43	20.1	0	
20	HQAM	1	49	18.36	18.39	18.45			
20	HQAM	1	99	18.29	18.59	18.31			
20	HQAM	50	24	18.26	18.35	18.34			
20	HQAM	50	49	18.27	17.78	17.80			
20	HQAM	50	50	18.39	18.37	18.39	20.1	0	
20	HQAM	100	0	18.25	18.20	18.25			
20	HQAM	100	1	18.38	18.51	18.14			
20	HQAM	1	49	18.40	18.59	18.42	20.1	0	
20	HQAM	1	99	18.45	18.31	18.35			
20	HQAM	50	50	18.35	18.22	18.25	20.1	0	
20	HQAM	100	0	18.25	18.16	18.36			
20	256QAM	1	0	17.52	17.60	17.53			
20	256QAM	1	49	17.48	17.56	17.46	19	1.1	
20	256QAM	1	99	17.51	17.56	17.55			
20	256QAM	50	0	17.47	17.48	17.46			
20	256QAM	50	24	17.25	17.26	17.17	19	1.1	
20	256QAM	50	50	17.30	17.28	17.24			
20	256QAM	100	0	17.24	17.25	17.25			
Channel									
Frequency (MHz)				37455	38050	38150	Turn-up limit (dBm)	MPR (dB)	
				23.75	24.75	25.75			
15	QPSK	1	0	18.42	18.52	18.22	20.1	0	
15	QPSK	1	37	18.80	18.49	18.46			
15	QPSK	1	74	18.49	18.60	18.67			
15	QPSK	36	0	18.39	18.63	18.61			
15	QPSK	36	20	18.42	18.46	18.53	20.1	0	
15	QPSK	36	37	18.35	18.31	18.43			
15	QPSK	75	0	18.29	18.33	18.19			
15	HQAM	1	0	18.34	18.44	18.30	20.1	0	
15	HQAM	1	37	18.32	18.31	18.27			
15	HQAM	1	74	18.30	18.42	18.22			
15	HQAM	36	0	18.39	18.16	18.22			
15	HQAM	36	20	18.24	18.27	18.26	20.1	0	
15	HQAM	75	0	18.13	18.15	18.24			
15	HQAM	75	37	18.27	18.22	18.25			
15	HQAM	1	37	18.31	18.14	18.27	20.1	0	
15	HQAM	36	20	18.26	18.15	18.18			
15	HQAM	36	0	18.12	18.15	18.20	20.1	0	
15	HQAM	75	0	18.07	18.39	18.19			
15	256QAM	1	0	17.10	17.52	17.43			
15	256QAM	1	37	17.08	17.52	17.43	19	1.1	
15	256QAM	1	74	17.42	17.46	17.43			
15	256QAM	36	0	17.15	17.33	17.18			
15	256QAM	36	20	17.17	17.17	17.09	19	1.1	
15	256QAM	36	37	17.25	17.13	17.20			
15	256QAM	75	0	17.26	17.21	17.19			
Channel									
Frequency (MHz)				25175	25165	25175	Turn-up limit (dBm)	MPR (dB)	
				25.175	25.165	25.175			
10	QPSK	1	0	18.45	18.57	18.57	20.1	0	
10	QPSK	1	25	18.52	18.48	18.50			
10	QPSK	1	49	18.51	18.65	18.67			
10	QPSK	25	0	18.34	18.37	18.40			
10	QPSK	25	12	18.41	18.39	18.50	20.1	0	
10	QPSK	25	25	18.51	18.43	18.41			
10	HQAM	1	0	18.38	18.39	18.32	20.1	0	
10	HQAM	1	25	18.24	18.26	18.38			
10	HQAM	1	49	18.15	18.48	18.24			
10	HQAM	25	0	18.29	18.15	18.21			
10	HQAM	25	12	18.25	18.16	18.21	20.1	0	
10	HQAM	25	25	18.26	18.23	18.21			
10	HQAM	50	0	18.13	18.11	18.22			
10	HQAM	50	12	18.14	18.18	18.16			
10	HQAM	1	25	18.34	18.10	18.31	20.1	0	
10	HQAM	1	49	18.35	18.27	18.22			
10	HQAM	25	0	18.17	18.14	18.18			
10	HQAM	25	12	18.28	18.18	18.10	20.1	0	
10	HQAM	25	25	18.10	18.11	18.18			
10	HQAM	50	0	18.15	18.17	18.21			
10	HQAM	50	12	18.27	18.31	18.26			
10	HQAM	12	0	18.31	18.11	18.24	20.1	0	
10	HQAM	12	7	18.15	18.11	18.19			
10	HQAM	12	13	18.27	18.31	18.26	20.1	0	
10	HQAM	25	0	18.22	18.16	18.15			
10	HQAM	1	0	18.18	18.28	18.18	20.1	0	
10	HQAM	1	24	18.32	18.17	18.24			
10	HQAM	12	0	18.11	18.16	18.27			
10	HQAM	12	7	18.24	18.18	18.14	20.1	0	
10	HQAM	12	13	18.14	18.11	18.19			
10	HQAM	25	0	18.14	18.19	18.28			
10	HQAM	25	12	17.45	17.45	17.45			
10	256QAM	1	12	17.39	17.40	17.39	19	1.1	
10	256QAM	1	24	17.37	17.42	17.43			
10	256QAM	12	0	17.15	17.33	17.17			
10	256QAM	12	7	17.09	17.18	17.06	19	1.1	
10	256QAM	12	13	17.21	17.13	17.09			
10	256QAM	25	0	17.30	17.20	17.24			

Band 41 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch [Ch / Freq]	Power High Ch [Ch / Freq]	Power Low Ch [Ch / Freq]	Power High Ch [Ch / Freq]	Turn-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)				39750	40185	40620	41058	41490	
20	QPSK	1	0	18.47	18.54	18.62	18.73	18.82	
20	QPSK	1	49	18.59	18.71	18.50	18.65	18.59	20.1
20	QPSK	1	99	18.59	18.67	18.64	18.69	18.49	
20	QPSK	50	0	18.38	18.46	18.55	18.63	18.53	
20	QPSK	50	24	18.54	18.57	18.53	18.51	18.51	20.1
20	QPSK	50	49	18.58	18.63	18.67	18.67	18.38	
20	QPSK	100	0	18.15	18.31	18.26	18.52	18.30	
20	16QAM	1	0	18.29	18.47	18.48	18.42	18.28	
20	16QAM	50	24	18.22	18.18	18.25	18.25	18.35	20.1
20	16QAM	1	99	18.10	18.25	18.35	18.69	18.28	
20	16QAM	50	50	18.32	18.38	18.39	18.42	18.28	
20	16QAM	100	0	18.41	18.20	18.22	18.70	18.35	
20	16QAM	100	1	18.25	18.41	18.23	18.37	18.47	20.1
20	64QAM	1	49	18.35	18.43	18.44	18.24	18.28	
20	64QAM	1	99	18.33	18.42	18.31	18.33	18.38	
20	64QAM	50	24	18.43	18.24	18.30	18.17	18.13	
20	64QAM	50	24	18.30	18.44	18.29	18.37	18.16	20.1
20	64QAM	50	50	18.13	18.20	18.32	18.22	18.29	
20	64QAM	100	0	18.21	18.29	18.31	18.18	18.26	
20	256QAM	1	0	18.11	18.12	18.10	18.13	18.20	
20	256QAM	1	49	18.11	18.05	18.06	18.11	18.08	19
20	256QAM	1	99	18.05	18.15	18.16	18.12	18.14	
20	256QAM	50	0	17.99	17.86	17.83	18.00	17.97	
20	256QAM	50	24	17.82	17.70	17.79	17.83	17.71	19
20	256QAM	50	50	17.87	17.77	17.80	17.62	17.77	
20	256QAM	100	0	17.94	17.82	17.83	17.67	17.78	
Channel									
Frequency (MHz)				39725	40173	40620	41060	41515	
15	QPSK	1	0	18.37	18.53	18.48	18.72	18.63	
15	QPSK	1	37	18.65	18.61	18.43	18.68	18.43	20
15	QPSK	1	74	18.40	18.52	18.50	18.65	18.36	
15	QPSK	36	0	18.31	18.31	18.53	18.63	18.38	
15	QPSK	36	20	18.41	18.51	18.38	18.39	18.44	20.1
15	QPSK	36	37	18.46	18.48	18.43	18.47	18.39	
15	QPSK	75	0	18.46	18.18	18.22	18.47	18.18	
15	16QAM	1	0	18.25	18.41	18.35	18.38	18.17	20.1
15	16QAM	1	37	18.34	18.36	18.36	18.43	18.33	
15	16QAM	1	74	18.43	18.12	18.27	18.47	18.13	
15	16QAM	36	0	18.22	18.32	18.26	18.16	18.16	
15	16QAM	36	20	18.18	18.15	18.14	18.27	18.39	20.1
15	16QAM	36	37	18.28	18.11	18.14	18.27	18.39	
15	16QAM	36	39	18.21	18.33	18.35	18.38	18.23	20.1
15	16QAM	75	0	18.39	18.14	18.22	18.42	18.43	
15	16QAM	75	37	18.27	18.27	18.14	18.27	18.39	
1									
15	QPSK	1	0	18.37	18.53	18.48	18.72	18.63	
15	QPSK	1	37	18.65	18.61	18.43	18.68	18.43	20
15	QPSK	1	74	18.40	18.52	18.50	18.65	18.36	
15	QPSK	36	0	18.31	18.31	18.53	18.63	18.38	
15	QPSK	36	20	18.41	18.51	18.38	18.39	18.44	20.1
15	QPSK	36	37	18.46	18.48	18.43	18.47	18.39	
15	QPSK	75	0	18.46	18.18	18.22	18.47	18.18	
15	16QAM	1	0	18.25	18.41	18.35	18.38	18.17	20.1
15	16QAM	1	37	18.34	18.36	18.36	18.43	18.33	
15	16QAM	1	74	18.43	18.12	18.27	18.47	18.13	
15	16QAM	36	0	18.22	18.32	18.26	18.16	18.16	
15	16QAM	36	20	18.18	18.15	18.14	18.27	18.39	20.1
15	16QAM	36	37	18.28	18.11	18.14	18.27	18.39	
15	16QAM	36	39	18.21	18.33	18.35	18.38	18.23	20.1
15	16QAM	75	0	18.39	18.14	18.22	18.42	18.43	
15	16QAM	75	37	18.27	18.27	18.14	18.27	18.39	
1									
15	QPSK	1	0	18.37	18.53	18.48	18.72	18.63	
15	QPSK	1	37	18.65	18.61	18.43	18.68	18.43	20
15	QPSK	1	74	18.40	18.52	18.50	18.65	18.36	
15	QPSK	36	0	18.31	18.31	18.53	18.63	18.38	
15	QPSK	36	20	18.41	18.51	18.38	18.39	18.44	20.1
15	QPSK	36	37	18.46	18.48	18.43	18.47	18.39	
15	QPSK	75	0	18.46	18.18	18.22	18.47	18.18	
15	16QAM	1	0	18.25	18.41	18.35	18.38	18.17	20.1
15	16QAM	1	37	18.34	18.36	18.36	18.43	18.33	
15	16QAM	1	74	18.43	18.12	18.27	18.47	18.13	
15	16QAM	36	0	18.22	18.32	18.26	18.16	18.16	
15	16QAM	36	20	18.18	18.15	18.14	18.27	18.39	20.1
15	16QAM	36	37	18.28	18.11	18.14	18.27	18.39	
15	16QAM	36	39	18.21	18.33	18.35	18.38	18.23	20.1
15	16QAM	75	0	18.39	18.14	18.22	18.42	18.43	
15	16QAM	75	37	18.27	18.27	18.14	18.27	18.39	
1									
15	QPSK	1	0	18.37	18.53	18.48	18.72	18.63	
15	QPSK	1	37	18.65	18.61	18.43	18.68	18.43	20
15	QPSK	1	74	18.40	18.52	18.50	18.65	18.36	
15	QPSK	36	0	18.31	18.31	18.53	18.63	18.38	
15	QPSK	36	20	18.41	18.51	18.38	18.39	18.44	20.1
15	QPSK	36	37	18.46	18.48	18.43	18.47	18.39	
15	QPSK	75	0	18.46	18.18	18.22	18.47	18.18	
15	16QAM	1	0	18.25	18.41	18.35	18.38	18.17	20.1
15	16QAM	1	37	18.34	18.36	18.36	18.43	18.33	
15	16QAM	1	74	18.43	18.12	18.27	18.47	18.13	
15	16QAM	36	0	18.22	18.32	18.26	18.16	18.16	
15	16QAM	36	20	18.18	18.15	18.14	18.27	18.39	20.1
15	16QAM	36	37	18.28	18.11	18.14	18.27	18.39	
15	16QAM	36	39	18.21	18.33	18.35	18.38	18.23	20.1
15	16QAM	75	0	18.39	18.14	18.22	18.42	18.43	
15	16QAM	75	37	18.27	18.27	18.14	18.27	18.39	
1									
15	QPSK	1	0	18.37	18.53	18.48	18.72	18.63	
15	QPSK	1	37	18.65	18.61	18.43	18.68	18.43	20
15	QPSK	1	74	18.40	18.52	18.50	18.65	18.36	
15	QPSK	36	0	18.31	18.31	18.53	18.63	18.38	
15	QPSK	36	20	18.41	18.51	18.38	18.39	18.44	20.1
15	QPSK	36	37	18.46	18.48	18.43	18.47	18.39	
15	QPSK	75	0	18.46	18.18	18.22	18.47	18.18	
15	16QAM	1	0	18.25	18.41	18.35	18.38	18.17	20.1
15	16QAM	1	37	18.34	18.36	18.36	18.43	18.33	
15	16QAM	1	74	18.43	18.12	18.27	18.47	18.13	
15	16QAM	36	0	18.22	18.32	18.26	18.16	18.16	
15	16QAM	36	20	18.18	18.15	18.14	18.27	18.39	20.1
15	16QAM	36	37	18.28	18.11	18.14	18.27	18.39	
15	16QAM	36	39	18.21	18.33	18.35	18.38	18.23	20.1
15	16QAM	75	0	18.39	18.14	18.22	18.42	18.43	
15	16QAM	75	37	18.27	18.27	18.14	18.27	18.39	
1									
15	QPSK	1	0	18.37	18.53	18.48	18.72	18.63	
15	QPSK	1	37	18.65	18.61	18.43	18.68	18.43	20
15	QPSK	1	74	18.40	18.52	18.50	18.65	18.36	
15	QPSK	36	0	18.31	18.31	18.53	18.63	18.38	
15	QPSK	36	20	18.41	18.51	18.38	18.39	18.44	20.1
15	QPSK	36	37	18.46	18.48	18.43	18.47	18.39	
15	QPSK	75	0	18.46	18.18	18.22	18.47	18.18	
15	16QAM	1	0	18.25	18.41	18.35	18.38	18.17	20.1
15	16QAM	1	37	18.34	18.36	18.36	18.43	18.33	
15	16QAM	1	74	18.43	18.12	18.27	18.47	18.13	
15	16QAM	36	0	18.22	18.32	18.26	18.16	18.16	
15	16QAM	36	20	18.18	18.15	18.14	18.27	18.39	20.1
15	16QAM	36	37	18.28	18.11	18.14	18.27	18.39	
15	16QAM	36	39	18.21	18.33	18.35	18.38	18.23	20.1
15	16QAM	75	0	18.39	18.14	18.22	18.42	18.43	
15	16QAM	75	37	18.27	18.27	18.14	18.27	18.39	
1									
15	QPSK	1	0	18.37	18.53	18.48	18.72	18.63	
15	QPSK	1	37	18.65	18.61	18.43	18.68	18.43	20
15	QPSK	1	74	18.40	18.52	18.50	18.65	18.36	
15	QPSK	36	0	18.31	18.31	18.53	18.63	18.38	
15	QPSK	36	20	18.41	18.51	18.38	18.39	18.44	20.1
15	QPSK	36	37	18.46	18.48	18.43	18.47	18.39	
15	QPSK	75	0	18.46	18.18	18.22	18.47	18.18	
15	16QAM	1	0	18.25	18.41	18.35	18.38	18.17	20.1
15	16QAM	1	37	18.34	18.36	18.36	18.43	18.33	
15	16QAM	1	74	18.43	18.12	18.27	18.47	18.13	
15	16QAM	36	0	18.22	18.32	18.26	18.16	18.16	
15	16QAM	36	20	18.18	18.15	18.14	18.27	18	

Band		WCDMA II Ant 1			Tune-up Limit (dBm)	WCDMA IV Ant 1			Tune-up Limit (dBm)	WCDMA V Ant 1			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9462	9600	9738		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1890	1907.6		1712.4	1732.6	1752.8		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	14.62	14.86	14.84	15.70	16.02	16.42	16.32	17.70	22.89	23.24	23.23	24.00
3GPP Rel 99	RMC 12.2Kbps	14.71	14.95	14.94	15.70	16.19	16.43	16.41	17.70	23.08	23.37	23.26	24.00
3GPP Rel 6	HSDPA Subtest-1	13.82	13.87	13.88	14.70	15.26	15.52	15.34	16.70	22.13	22.31	22.20	23.00
3GPP Rel 6	HSDPA Subtest-2	13.95	14.00	13.93	14.70	15.32	15.41	15.32	16.70	22.19	22.29	22.24	23.00
3GPP Rel 6	HSDPA Subtest-3	13.35	13.50	13.31	14.20	14.84	14.94	14.96	16.20	21.71	21.82	21.78	22.50
3GPP Rel 6	HSDPA Subtest-4	13.27	13.52	13.39	14.20	14.78	14.83	14.87	16.20	21.70	21.77	21.69	22.50
3GPP Rel 6	DCHSDPA Subtest-1	13.95	13.77	13.94	14.70	15.23	15.38	15.33	16.70	22.17	22.16	22.14	24.00
3GPP Rel 8	DCHSDPA Subtest-2	13.82	13.82	13.69	14.70	15.23	15.29	15.30	16.70	22.10	22.15	22.14	23.00
3GPP Rel 8	DCHSDPA Subtest-3	13.27	13.46	13.27	14.20	14.86	14.94	14.81	16.20	21.66	21.79	21.67	23.50
3GPP Rel 8	DCHSDPA Subtest-4	13.08	13.34	13.13	14.20	14.70	14.87	14.79	16.20	21.64	21.71	21.64	23.50
3GPP Rel 6	HSUPA Subtest-1	13.70	13.94	13.91	14.70	15.24	15.40	15.32	16.70	22.11	22.31	22.17	23.00
3GPP Rel 6	HSUPA Subtest-2	11.84	11.96	11.82	12.70	13.34	13.44	13.35	14.70	20.22	20.31	20.25	22.00
3GPP Rel 6	HSUPA Subtest-3	12.77	13.07	12.85	13.70	14.35	14.53	14.43	15.70	21.20	21.40	21.27	23.00
3GPP Rel 6	HSUPA Subtest-4	11.68	11.89	11.89	12.70	13.12	13.40	13.34	14.70	20.03	20.25	20.19	22.00
3GPP Rel 6	HSUPA Subtest-5	13.59	13.80	13.82	14.70	15.08	15.37	15.38	16.70	21.99	22.18	22.26	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	11.44	11.45	11.51	12.20	12.91	12.95	13.11	14.20	19.77	19.79	19.94	21.50



Band 2 Ant 1												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch [Freq, dBm]	Power Mid Ch [Freq, dBm]	Power Hig Ch [Freq, dBm]	Time-up int. (s)	MPR (dB)				
Channel												
Frequency [MHz]												
20	QPSK	1	0	13.33	13.47	13.33			14.7	0		
20	QPSK	1	49	13.41	13.39	13.39						
20	QPSK	1	99	13.32	13.43	13.31			14.7	0		
20	QPSK	50	0	13.14	13.35	13.27						
20	QPSK	50	24	13.25	13.27	13.30			14.7	0		
20	QPSK	50	50	13.23	13.26	13.24						
20	QPSK	100	0	13.07	13.16	13.03			14.7	0		
20	QPSK	100	50	13.18	13.20	13.19						
20	QPSK	1	49	13.15	13.17	13.16			14.7	0		
20	QPSK	1	99	13.04	13.31	13.02						
20	QPSK	50	0	12.97	12.98	13.13			14.7	0		
20	QPSK	50	24	12.99	12.92	12.94						
20	QPSK	50	50	12.94	13.12	13.02			14.7	0		
20	QPSK	100	0	12.99	12.98	13.01						
20	QPSK	1	0	13.12	13.10	12.92			14.7	0		
20	QPSK	1	49	13.13	12.87	13.08						
20	QPSK	50	0	13.18	12.93	13.07			14.7	0		
20	QPSK	50	24	13.11	13.01	13.02						
20	QPSK	50	50	13.06	12.87	13.04			14.7	0		
20	QPSK	100	0	12.99	12.87	13.07						
20	QPSK	1	49	13.08	13.04	12.95			14.7	0		
20	QPSK	1	99	13.13	12.88	13.03						
20	QPSK	50	0	12.90	12.85	12.87			14.7	0		
20	QPSK	50	24	13.01	12.95	13.00						
20	QPSK	50	50	13.06	12.81	12.87			14.7	0		
20	QPSK	100	0	12.99	12.90	13.00						
Channel												
Frequency [MHz]												
15	QPSK	1	0	13.26	13.33	13.21			14.7	0		
15	QPSK	1	49	13.28	13.23	13.24						
15	QPSK	1	74	13.31	13.30	13.23			14.7	0		
15	QPSK	50	0	13.04	13.19	13.11						
15	QPSK	50	24	13.18	13.12	13.24			14.7	0		
15	QPSK	50	39	13.08	13.15	13.11						
15	QPSK	75	0	12.91	13.05	12.90			14.7	0		
15	QPSK	1	0	13.14	13.11	13.14						
15	QPSK	1	37	13.05	13.09	13.13			14.7	0		
15	QPSK	1	39	13.07	12.97	13.06						
15	QPSK	36	0	13.01	12.70	13.02			14.7	0		
15	QPSK	36	20	12.78	12.79	12.79						
15	QPSK	36	50	12.83	12.80	12.95			14.7	0		
15	QPSK	75	0	12.99	12.95	12.84						
15	QPSK	1	0	12.91	12.78	12.94			14.7	0		
15	QPSK	1	74	13.05	13.01	13.00						
15	QPSK	36	0	12.79	12.84	12.80			14.7	0		
15	QPSK	36	50	12.83	12.80	12.95						
15	QPSK	75	0	12.83	12.80	12.95			14.7	0		
15	QPSK	75	0	12.83	12.80	12.95						
15	QPSK	36	0	12.99	12.85	12.84			14.7	0		
15	QPSK	36	20	12.78	12.79	12.79						
15	QPSK	36	50	12.83	12.80	12.95			14.7	0		
15	QPSK	75	0	12.83	12.80	12.95						
15	QPSK	1	0	12.99	12.85	12.84			14.7	0		
15	QPSK	1	74	13.05	13.01	13.00						
15	QPSK	36	0	12.79	12.84	12.80			14.7	0		
15	QPSK	36	50	12.83	12.80	12.95						
15	QPSK	75	0	12.83	12.80	12.95			14.7	0		
15	QPSK	75	0	12.83	12.80	12.95						
15	QPSK	36	0	12.99	12.85	12.84			14.7	0		
15	QPSK	36	20	12.78	12.79	12.79						
15	QPSK	36	50	12.83	12.80	12.95			14.7	0		
15	QPSK	75	0	12.83	12.80	12.95						
15	QPSK	1	0	12.99	12.85	12.84			14.7	0		
15	QPSK	1	74	13.05	13.01	13.00						
15	QPSK	36	0	12.79	12.84	12.80			14.7	0		
15	QPSK	36	50	12.83	12.80	12.95						
15	QPSK	75	0	12.83	12.80	12.95			14.7	0		
15	QPSK	75	0	12.83	12.80	12.95						
15	QPSK	36	0	12.99	12.85	12.84			14.7	0		
15	QPSK	36	20	12.78	12.79	12.79						
15	QPSK	36	50	12.83	12.80	12.95			14.7	0		
15	QPSK	75	0	12.83	12.80	12.95						
15	QPSK	1	0	12.99	12.85	12.84			14.7	0		
15	QPSK	1	74	13.05	13.01	13.00						
15	QPSK	36	0	12.79	12.84	12.80			14.7	0		
15	QPSK	36	50	12.83	12.80	12.95						
15	QPSK	75	0	12.83	12.80	12.95			14.7	0		
15	QPSK	75	0	12.83	12.80	12.95						
15	QPSK	36	0	12.99	12.85	12.84			14.7	0		
15	QPSK	36	20	12.78	12.79	12.79						
15	QPSK	36	50	12.83	12.80	12.95			14.7	0		
15	QPSK	75	0	12.83	12.80	12.95						
15	QPSK	1	0	12.99	12.85	12.84			14.7	0		
15	QPSK	1	74	13.05	13.01	13.00						
15	QPSK	36	0	12.79	12.84	12.80			14.7	0		
15	QPSK	36	50	12.83	12.80	12.95						
15	QPSK	75	0	12.83	12.80	12.95			14.7	0		
15	QPSK	75	0	12.83	12.80	12.95						
15	QPSK	36	0	12.99	12.85	12.84			14.7	0		
15	QPSK	36	20	12.78	12.79	12.79						
15	QPSK	36	50	12.83	12.80	12.95			14.7	0		
15	QPSK	75	0	12.83	12.80	12.95						
15	QPSK	1	0	12.99	12.85	12.84			14.7	0		
15	QPSK	1	74	13.05	13.01	13.00						
15	QPSK	36	0	12.79	12.84	12.80			14.7	0		
15	QPSK	36	50	12.83	12.80	12.95						
15	QPSK	75	0	12.83	12.80	12.95			14.7	0		
15	QPSK	75	0	12.83	12.80	12.95						
15	QPSK	36	0	12.99	12.85	12.84			14.7	0		
15	QPSK	36	20	12.78	12.79	12.79						
15	QPSK	36	50	12.83	12.80	12.95			14.7	0		
15	QPSK	75	0	12.83	12.80	12.95						
15	QPSK	1	0	12.99	12.85	12.84			14.7	0		
15	QPSK	1	74	13.05	13.01	13.00						
15	QPSK	36	0	12.79	12.84	12.80			14.7	0		
15	QPSK	36	50	12.83	12.80	12.95						
15	QPSK	75	0	12.83	12.80	12.95			14.7	0		
15	QPSK	75	0	12.83	12.80	12.95						
15	QPSK	36	0	12.99	12.85	12.84			14.7	0		
15	QPSK	36	20	12.78	12.79	12.79						
15	QPSK	36	50	12.83	12.80	12.95			14.7	0		
15	QPSK	75	0	12.83	12.80	12.95						
15	QPSK	1	0	12.99	12.85	12.84			14.7	0		
15	QPSK	1	74	13.05	13.01	13.00						
15	QPSK	36	0	12.79	12.84	12.80			14.7	0		
15	QPSK	36	50	12.83	12.80	12.95						
15	QPSK	75	0	12.83	12.80	12.95			14.7	0		
15	QPSK	75	0	12.83	12.80	12.95						
15	QPSK	36	0	12.99	12.85	12.84			14.7	0		
15	QPSK	36	20	12.78	12.79	12.79						
15	QPSK	36	50	12.83	12.80	12.95			14.7	0		
15	QPSK	75	0	12.83	12.80	12.95						
15	QPSK	1	0	12.99	12.85	12.84			14.7	0		
15	QPSK	1	74	13.05	13.01	13.00						
15	QPSK	36	0	12.79	12.84	12.80			14.7	0		
15	QPSK	36	50	12.83	12.80	12.95						
15	QPSK	75	0	12.83	12.80	12.95			14.7	0		
15	QPSK	75	0	12.83	12.80	12.95						
15	QPSK	36	0	12.99	12.85	12.84			14.7	0		
15	QPSK	36	20	12.78	12.79	12.79						
15	QPSK	36	50	12.83	12.80	12.95			14.7	0		
15	QPSK	75	0	12.83	12.80	12.95						
15	QPSK	1	0	12.99	12.85	12.84			14.7	0		
15	QPSK	1	74	13.05	13.01	13.00						
15	QPSK	36	0	12.79	12.84	12.80			14.7	0		
15	QPSK	36	50	12.83	12.80	12.95						
15	QPSK	75	0	12.83	12.80	12.95			14.7	0		
15	QPSK	75	0	12.83	12.80	12.95						
15	QPSK	36	0	12.99	12.85	12.84			14.7	0		
15	QPSK	36	20	12.78	12.79	12.79						
15	QPSK	36	50	12.83	12.80	12.95			14.7	0		
15	QPSK	75	0	12.83	12.80	12.95						
15	QPSK	1	0	12.99	12.85	12.84			14.7	0		
15	QPSK	1	74	13.05	13.01	13.00						
15	QPSK	36	0	12.79	12.84	12.80			14.7	0		
15	QPSK	36	50	12.83	12.80	12.95						
15	QPSK	75	0	12.83	12.80	12.95			14.7	0		
15	QPSK	75	0	12.83	12.80	12.95						
15	QPSK	36	0	12.99	12.85	12.84			14.7	0		
15	QPSK	36	20	12.78	12.79	12.79						
15	QPSK	36	50	12.83	12.80	12.95			14.7	0		
15	QPSK	75	0	12.83	12.80	12.95						
15	QPSK	1	0	12.99	12.85	12.84			14.7			

Band 13 Ant 1												
BW [MHz]	Modulation	RS Size	RS Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPE (dB)				
Channel												
Frequency [MHz]												
10	QPSK	1	0	22.65	22.65	22.65	24	0				
10	QPSK	1	25	22.70	22.70	22.70						
10	QPSK	1	49	22.75	22.75	22.75						
10	QPSK	25	0	21.84	21.84	21.84	23	1				
10	QPSK	25	12	21.74	21.74	21.74						
10	QPSK	25	25	21.69	21.69	21.69						
10	QPSK	50	0	21.85	21.85	21.85	23	1				
10	16QAM	1	0	22.05	22.05	22.05						
10	16QAM	1	25	22.09	22.09	22.09						
10	16QAM	1	49	22.07	22.07	22.07	22	2				
10	16QAM	25	0	20.70	20.70	20.70						
10	16QAM	25	12	20.74	20.74	20.74						
10	16QAM	25	25	20.69	20.69	20.69	21	3				
10	16QAM	50	0	20.82	20.82	20.82						
10	16QAM	1	0	21.50	21.50	21.50						
10	64QAM	1	25	20.98	20.98	20.98	22	2				
10	64QAM	1	49	20.95	20.95	20.95						
10	64QAM	25	0	19.67	19.67	19.67						
10	64QAM	25	12	19.68	19.68	19.68	21	3				
10	64QAM	25	25	19.52	19.52	19.52						
10	64QAM	50	0	19.70	19.70	19.70						
10	256QAM	1	0	17.84	17.84	17.84	19	5				
10	256QAM	1	25	17.87	17.87	17.87						
10	256QAM	25	0	17.68	17.68	17.68						
10	256QAM	25	12	17.81	17.81	17.81	19	5				
10	256QAM	25	25	17.62	17.62	17.62						
10	256QAM	50	0	17.72	17.72	17.72						
Channel												
Frequency [MHz]												
5	QPSK	1	0	22.76	22.76	22.80	24	0				
5	QPSK	1	12	22.80	22.86	22.82						
5	QPSK	1	24	22.82	22.98	22.89						
5	QPSK	12	0	21.82	21.74	21.79	23	1				
5	QPSK	12	7	21.70	21.62	21.68						
5	QPSK	12	13	21.53	21.52	21.55						
5	QPSK	25	0	21.81	21.74	21.77	23	1				
5	16QAM	1	0	22.12	22.08	22.01						
5	16QAM	1	12	21.98	21.98	21.92						
5	16QAM	1	24	22.03	21.94	22.00	22	2				
5	16QAM	12	0	20.68	20.67	20.61						
5	16QAM	12	7	20.60	20.69	20.63						
5	16QAM	25	0	20.55	20.59	20.52	22	2				
5	64QAM	1	0	20.84	20.85	20.88						
5	64QAM	1	24	20.79	20.81	20.88						
5	64QAM	12	0	19.84	19.80	19.85	21	3				
5	64QAM	12	7	19.88	19.80	19.87						
5	64QAM	12	13	19.44	19.40	19.40						
5	64QAM	25	0	19.68	19.64	19.61	19	5				
5	256QAM	1	0	17.92	17.92	17.86						
5	256QAM	1	12	17.71	17.77	17.81						
5	256QAM	1	24	17.84	17.77	17.80	19	5				
5	256QAM	12	0	17.65	17.68	17.68						
5	256QAM	12	7	17.48	17.57	17.49						
5	256QAM	12	13	17.45	17.48	17.44						
5	256QAM	25	0	17.62	17.65	17.64						

Band 14 Ant 1									
BW [MHz]	Modulation	RS Size	RS Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPE (dB)	
Channel									
Frequency [MHz]									
10	QPSK	1	0	22.69	22.69	22.69	24	0	
10	QPSK	1	25	22.69	22.69	22.69			
10	QPSK	1	49	22.44	22.44	22.44			
10	QPSK	25	0	21.72	21.72	21.72	23	1	
10	QPSK	25	12	21.58	21.58	21.58			
10	QPSK	25	25	21.51	21.51	21.49			
10	QPSK	50	0	21.62	21.62	21.62	23	1	
10	16QAM	1	0	21.90	21.90	21.90			
10	16QAM	1	25	21.96	21.96	21.96			
10	16QAM	1	49	21.97	21.97	21.97	22	2	
10	16QAM	25	0	20.57	20.57	20.57			
10	16QAM	25	12	20.51	20.51	20.47			
10	16QAM	25	25	20.48	20.48	20.48	21	3	
10	16QAM	50	0	20.52	20.52	20.52			
10	64QAM	1	0	20.92	20.89	20.85	22	2	
10	64QAM	1	25	20.78	20.78	20.78			
10	64QAM	1	49	20.70	20.70	20.67			
10	64QAM	25	12	19.48	19.48	19.48	21	3	
10	64QAM	25	25	19.46	19.46	19.41			
10	64QAM	50	0	19.48	19.38	19.48			
10	256QAM	1	25	17.79	17.72	17.69	19	5	
10	256QAM	1	49	17.85	17.87	17.88			
10	256QAM	25	0	17.58	17.58	17.54			
10	256QAM	25	12	17.48	17.48	17.42	19	5	
10	256QAM	25	25	17.41	17.41	17.40			
10	256QAM	50	0	17.59	17.59	17.59			
Channel									
Frequency [MHz]									
5	QPSK	1	0	22.80	22.81	22.83	24	0	
5	QPSK	1	12	22.80	22.88	22.89			
5	QPSK	1	24	22.33	22.35	22.36			
5	QPSK	12	0	21.61	21.69	21.68	23	1	
5	QPSK	12	7	21.47	21.60	21.60			
5	QPSK	12	13	21.43	21.46	21.47			
5	QPSK	25	0	21.60	21.67	21.67	23	1	
5	16QAM	1	0	21.80	21.81	21.88			
5	16QAM	1	12	21.92	21.89	21.87			
5	16QAM	1	24	21.65	21.65	21.61	22	2	
5	16QAM	12	0	20.46	20.45	20.45			
5	16QAM	12	7	20.59	20.49	20.47			
5	16QAM	25	0	20.50	20.48	20.43	22	2	
5	64QAM	1	0	20.73	20.74	20.75			
5	64QAM	1	12	20.71	20.70	20.67			
5	64QAM	1	24	20.57	20.59	20.55	21	3	
5	64QAM	12	0	19.52	19.58	19.47			
5	64QAM	12	7	19.41	19.37	19.34			
5	64QAM	12	13	19.44	19.42	19.34	21	3	
5	64QAM	25	0	19.31	19.30	19.30			
5	256QAM	1	0	17.66	17.58	17.58			
5	256QAM	1	12	17.63	17.65	17.69	19	5	
5	256QAM	1	24	17.54	17.54	17.56			
5	256QAM	12	0	17.50	17.52	17.52			
5	256QAM	12	7	17.39	17.34	17.34	19	5	
5	256QAM	12	13	17.43	17.48	17.44			
5	256QAM	25	0	17.41	17.48	17.41			

Band 17 Ant 1									
BW [MHz]	Modulation	RS Size	RS Offset	Power Low Ch./ Freq.	Power Mid Ch./ Freq.	Power High Ch./ Freq.	Turnup time (sec)	MPE (dB)	
Channel									
Frequency [MHz]									
10	QPSK	1	0	22.61	22.60	22.68	24	0	
10	QPSK	1	25	22.52	22.51	22.47			
10	QPSK	1	49	22.39	22.53	22.43			
10	QPSK	25	0	21.62	21.74	21.63	23	1	
10	QPSK	25	12	21.62	21.68	21.63			
10	QPSK	25	25	21.42	21.51	21.49			
10	QPSK	50	0	21.68	21.64	21.58	23	1	
10	16QAM	1	0	21.85	21.89	21.84			
10	16QAM	1	25	21.82	21.92	21.81	23	1	
10	16QAM	1	49	21.76	21.90	21.80			
10	16QAM	25	0	20.51	20.59	20.49	22	2	
10	16QAM	25	12	20.42	20.48	20.47			
10	16QAM	25	25	20.33	20.46	20.47			
10	16QAM	50	0	20.46	20.52	20.46	22	2	
10	16QAM	50	25	20.69	20.78	20.67			
10	16QAM	1	26	20.61	20.78	20.67	22	2	
10	16QAM	1	49	20.67	20.68	20.73			
10	16QAM	1	74	20.67	20.68	20.73	21	3	
10	16QAM	25	12	19.45	19.45	19.45			
10	16QAM	25	25	19.48	19.42	19.41	21	3	
10	16QAM	25	49	19.48	19.48	19.48			
10	16QAM	1	0	17.72	17.76	17.76	19	5	
10	16QAM	1	25	17.61	17.69	17.58			
10	16QAM	1	49	17.67	17.68	17.68	19	5	
10	16QAM	25	0	17.44	17.56	17.41			
10	16QAM	25	12	17.38	17.42	17.34	19	5	
10	16QAM	25	25	17.52	17.47	17.41			
10	16QAM	50	0	17.47	17.50	17.45	19	5	
10	16QAM	50	25	17.69	17.59	17.58			
Frequency [MHz]									
5	QPSK	1	0	22.56	22.61	22.68	24	0	
5	QPSK	1	12	22.47	22.39	22.37			
5	QPSK	1	25	22.35	22.45	22.35			
5	QPSK	12	0	21.43	21.63	21.62	23	1	
5	QPSK	12	7	21.29	21.53	21.58			
5	QPSK	12	19	21.44	21.34	21.34			
5	QPSK	25	0	21.62	21.53	21.49	23	1	
5	16QAM	1	0	21.73	21.64	21.78			
5	16QAM	1	25	21.58	21.67	21.67	23	1	
5	16QAM	1	49	21.69	21.87	21.80			
5	16QAM	12	0	20.45	20.58	20.45	22	2	
5	16QAM	12	19	20.53	20.43	20.43			
5	16QAM	12	19	20.31	20.42	20.35	22	2	
5	16QAM	25	0	20.40	20.48	20.35			
5	16QAM	25	12	20.37	20.36	20.37	22	2	
5	16QAM	1	12	20.49	20.73	20.75			
5	16QAM	1	24	20.64	20.62	20.65	21	3	
5	16QAM	1	49	20.66	20.64	20.66			
5	16QAM	12	0	19.36	19.38	19.36	21	3	
5	16QAM	12	19	19.42	19.44	19.42			
5	16QAM	12	19	19.42	19.38	19.33	19	5	
5	16QAM	12	19	19.43	19.33	19.33			
5	16QAM	1	0	17.63	17.66	17.62	19	5	
5	16QAM	1	12	17.63	17.66	17.62			
5	16QAM	12	19	17.66	17.66	17.66	19	5	
5	16QAM	12	19	17.66	17.66	17.66			
5	16QAM	12	19	17.38	17.48	17.37	19	5	
5	16QAM	12	19	17.39	17.33	17.28			
5	16QAM	12	19	17.42	17.42	17.42	19	5	
5	16QAM	25	0	17.45	17.48	17.41			

Band 26 for FCC Ant 1														
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up Init. (dB)	MFR (dB)						
Channel														
Frequency (MHz)														
15	QPSK	1	0	22.56	22.62	22.50	24	0						
15	QPSK	1	37	22.47	22.48	22.41								
15	QPSK	1	74	22.34	22.45	22.38								
15	QPSK	36	0	21.58	21.73	21.57								
15	QPSK	36	20	21.40	21.47	21.38	23	1						
15	QPSK	36	39	21.37	21.49	21.36								
15	QPSK	75	0	21.49	21.65	21.55								
15	16QAM	1	0	21.85	21.86	21.87								
15	16QAM	1	37	21.75	21.87	21.70	23	1						
15	16QAM	1	74	21.70	21.88	21.78								
15	16QAM	36	0	20.51	20.58	20.44								
15	16QAM	36	20	20.45	20.51	20.44								
15	16QAM	36	39	20.38	20.41	20.35	22	2						
15	16QAM	75	0	20.50	20.42	20.41								
15	16QAM	1	0	20.74	20.81	20.82								
15	16QAM	1	37	20.59	20.89	20.74								
15	16QAM	1	74	20.62	20.64	20.70	21	3						
15	16QAM	36	0	19.45	19.52	19.39								
15	16QAM	36	20	19.39	19.50	19.35								
15	16QAM	36	39	19.37	19.38	19.33								
15	16QAM	75	0	19.38	19.45	19.39	19	5						
15	25QAM	1	0	17.63	17.73	17.68								
15	25QAM	1	37	17.59	17.63	17.59								
15	25QAM	1	74	17.61	17.64	17.64								
15	25QAM	36	0	17.38	17.53	17.39								
15	25QAM	36	20	17.37	17.43	17.29								
15	25QAM	36	39	17.37	17.43	17.29								
15	25QAM	75	0	17.40	17.35	17.35								
15	25QAM	75	0	17.47	17.43	17.38	19	5						
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.59	22.52	22.49					24	0		
10	QPSK	1	25	22.35	22.36	22.31								
10	QPSK	1	49	22.39	22.33	22.32								
10	QPSK	25	0	21.72	21.52	21.52								
10	QPSK	25	12	21.47	21.31	21.35	23	1						
10	QPSK	25	25	21.38	21.32	21.29								
10	QPSK	50	0	21.54	21.49	21.47								
10	16QAM	1	0	21.75	21.75	21.85								
10	16QAM	1	25	21.81	21.72	21.84	23	1						
10	16QAM	1	49	21.67	21.64	21.73								
10	16QAM	25	0	20.55	20.42	20.40								
10	16QAM	25	12	20.50	20.33	20.37								
10	16QAM	25	25	20.36	20.34	20.32	22	2						
10	16QAM	50	0	20.34	20.41	20.38								
10	16QAM	1	0	20.78	20.64	20.78								
10	16QAM	1	25	20.70	20.50	20.72								
10	16QAM	1	49	20.54	20.50	20.52	21	3						
10	16QAM	25	0	19.42	19.37	19.37								
10	16QAM	25	12	19.37	19.33	19.32								
10	16QAM	25	25	19.35	19.32	19.35								
10	16QAM	50	0	19.40	19.33	19.37	19	5						
10	25QAM	1	0	17.65	17.66	17.66								
10	25QAM	1	25	17.56	17.52	17.59								
10	25QAM	1	49	17.68	17.59	17.64								
10	25QAM	25	0	17.42	17.34	17.35								
10	25QAM	25	12	17.34	17.34	17.28								
10	25QAM	25	25	17.40	17.35	17.34								
10	25QAM	50	0	17.38	17.31	17.31	19	5						
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.52	22.46	22.45					24	0		
5	QPSK	1	12	22.35	22.44	22.33								
5	QPSK	1	23	22.37	22.23	22.33								
5	QPSK	12	0	21.70	21.50	21.54								
5	QPSK	12	7	21.41	21.31	21.35	23	1						
5	QPSK	12	13	21.38	21.37	21.36								
5	QPSK	25	0	21.64	21.43	21.46								
5	16QAM	1	0	21.84	21.78	21.79								
5	16QAM	1	12	21.87	21.72	21.88	23	1						
5	16QAM	8	0	21.86	21.68	21.81								
5	16QAM	12	0	20.51	20.40	20.42								
5	16QAM	12	7	20.40	20.35	20.32								
5	16QAM	12	13	20.38	20.38	20.31	22	2						
5	16QAM	25	0	20.38	20.45	20.30								
5	16QAM	1	0	20.78	20.64	20.79								
5	16QAM	1	12	20.73	20.57	20.68								
5	16QAM	1	24	20.58	20.53	20.62	21	3						
5	16QAM	12	0	19.48	19.40	19.30								
5	16QAM	12	7	19.47	19.35	19.35								
5	16QAM	12	13	19.30	19.36	19.24								
5	16QAM	25	0	19.37	19.29	19.31	19	5						
5	16QAM	1	0	17.61	17.61	17.62								
5	16QAM	1	12	17.62	17.57	17.59								
5	16QAM	1	24	17.62	17.58	17.61								
5	16QAM	12	0	17.41	17.35	17.35	19	5						
5	16QAM	12	7	17.38	17.26	17.28								
5	16QAM	12	13	17.46	17.31	17.23								
5	16QAM	25	0	17.38	17.28	17.28								
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.59	22.50	22.45	24	0						
3	QPSK	1	8	22.35	22.43	22.37								
3	QPSK	1	14	22.42	22.29	22.37								
3	QPSK	8	0	21.61	21.52	21.56								
3	QPSK	8	4	21.43	21.34	21.39	23	1						
3	QPSK	8	7	21.45	21.27	21.31								
3	QPSK	15	0	21.53	21.38	21.50								
3	16QAM	1	0	21.93	21.84	21.86								
3	16QAM	1	8	21.86	21.69	21.81	23	1						
3	16QAM	8	0	21.88	21.58	21.80								
3	16QAM	8	0	20.47	20.48	20.37								
3	16QAM	8	4	20.43	20.43	20.32								
3	16QAM	8	7	20.38	20.37	20.30	22	2						
3	16QAM	15	0	20.39	20.40	20.32								
3	16QAM	1	0	20.74	20.63	20.78								
3	16QAM	1	8	20.74	20.50	20.73								
3	16QAM	1	14	20.56	20.57	20.89	21	3						
3	16QAM	8	0	19.43	19.36	19.31								
3	16QAM	8	4	19.47	19.29	19.29								
3	16QAM	8	7	19.31	19.32	19.31								
3	16QAM	15	0	19.44	19.33	19.34	19	5						
3	16QAM	1	0	17.71	17.68	17.68								
3	25QAM	1	8	17.60	17.55	17.54								
3	25QAM	1	14	17.61	17.57	17.58								
3	25QAM	8	0	17.42	17.36	17.36	19	5						
3	25QAM	8	4	17.39	17.33	17.20								
3	25QAM	8	7	17.43	17.29	17.35								

Band 71 Ant 1												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dB)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.49	22.61	22.47	23.7	0				
20	QPSK	1	48	22.44	22.45	22.36						
20	QPSK	1	96	22.32	22.45	20.34						
20	QPSK	50	0	21.51	21.65	21.57						
20	QPSK	50	24	21.41	21.48	21.38						
20	QPSK	50	50	21.30	21.41	21.33	23	0.7				
20	QPSK	100	0	21.45	21.63	21.48						
20	16QAM	1	0	21.74	21.92	21.83						
20	16QAM	1	48	21.75	21.88	21.75						
20	16QAM	1	96	21.70	21.82	21.73						
20	16QAM	50	0	20.42	20.50	20.35	22	1.7				
20	16QAM	50	24	20.34	20.49	20.34						
20	16QAM	50	50	20.30	20.41	20.31						
20	16QAM	100	0	20.37	20.39	20.32						
20	64QAM	1	0	20.61	20.71	20.72						
20	64QAM	1	48	20.59	20.76	20.72	22	1.7				
20	64QAM	1	96	20.49	20.64	20.58						
20	64QAM	50	0	19.36	19.34	19.24						
20	64QAM	50	24	19.31	19.34	19.24						
20	64QAM	50	50	19.40	19.27	19.24						
20	64QAM	100	0	19.36	19.40	19.25	21	2.7				
20	256QAM	1	0	17.56	17.68	17.68						
20	256QAM	1	48	17.61	17.59	17.44						
20	256QAM	1	96	17.55	17.57	17.61						
20	256QAM	50	0	17.28	17.42	17.38						
20	256QAM	50	24	17.24	17.38	17.21	19	4.7				
20	256QAM	50	50	17.35	17.33	17.22						
20	256QAM	100	0	17.36	17.46	17.30						
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.45	22.59	22.36	23.7	0				
15	QPSK	1	37	22.33	22.42	22.28						
15	QPSK	1	74	22.24	22.39	22.28						
15	QPSK	36	0	21.47	21.54	21.55						
15	QPSK	36	20	21.38	21.42	21.28						
15	QPSK	36	39	21.24	21.40	21.32	23	0.7				
15	QPSK	75	0	21.42	21.58	21.48						
15	16QAM	1	0	21.67	21.80	21.73						
15	16QAM	1	37	21.68	21.80	21.71						
15	16QAM	1	74	21.60	21.74	21.70						
15	16QAM	36	0	20.32	20.38	20.32	22	1.7				
15	16QAM	36	20	20.31	20.45	20.28						
15	16QAM	36	39	20.25	20.31	20.23						
15	16QAM	75	0	20.34	20.37	20.24						
15	64QAM	1	0	20.60	20.59	20.62						
15	64QAM	1	37	20.54	20.65	20.58	22	1.7				
15	64QAM	1	74	20.47	20.58	20.55						
15	64QAM	36	0	19.31	19.38	19.33						
15	64QAM	36	20	19.28	19.28	19.19						
15	64QAM	36	39	19.35	19.19	19.16						
15	64QAM	75	0	19.35	19.35	19.17	21	2.7				
15	256QAM	1	0	17.54	17.55	17.40						
15	256QAM	1	37	17.58	17.55	17.39						
15	256QAM	1	74	17.48	17.48	17.57						
15	256QAM	36	0	17.20	17.22	17.36						
15	256QAM	36	20	17.23	17.31	17.13	19	4.7				
15	256QAM	36	39	17.31	17.29	17.18						
15	256QAM	75	0	17.34	17.30	17.29						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.43	22.57	22.43	23.7	0				
10	QPSK	1	25	22.38	22.38	22.31						
10	QPSK	1	48	22.28	22.44	22.30						
10	QPSK	25	0	21.48	21.61	21.47						
10	QPSK	25	12	21.30	21.38	21.26						
10	QPSK	25	25	21.26	21.37	21.27	23	0.7				
10	QPSK	50	0	21.43	21.58	21.38						
10	16QAM	1	0	21.64	21.82	21.83						
10	16QAM	1	25	21.64	21.83	21.85						
10	16QAM	1	48	21.65	21.76	21.72						
10	16QAM	25	0	20.41	20.35	20.33	22	1.7				
10	16QAM	25	12	20.24	20.37	20.22						
10	16QAM	25	25	20.30	20.38	20.23						
10	16QAM	50	0	20.32	20.38	20.30						
10	64QAM	1	0	20.55	20.63	20.61						
10	64QAM	1	25	20.57	20.66	20.70	22	1.7				
10	64QAM	1	48	20.40	20.64	20.65						
10	64QAM	25	0	19.35	19.38	19.32						
10	64QAM	25	12	19.29	19.28	19.22						
10	64QAM	25	25	19.39	19.17	19.12						
10	64QAM	50	0	19.31	19.29	19.16	21	2.7				
10	256QAM	1	0	17.44	17.52	17.55						
10	256QAM	1	25	17.58	17.52	17.34						
10	256QAM	1	48	17.50	17.52	17.58						
10	256QAM	25	0	17.22	17.24	17.28						
10	256QAM	25	12	17.17	17.27	17.18	19	4.7				
10	256QAM	25	25	17.28	17.21	17.16						
10	256QAM	50	0	17.25	17.42	17.25						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.37	22.50	22.35	23.7	0				
5	QPSK	1	12	22.35	22.44	22.29						
5	QPSK	1	24	22.28	22.42	22.25						
5	QPSK	12	0	21.60	21.67	21.53						
5	QPSK	12	7	21.39	21.37	21.33						
5	QPSK	12	13	21.26	21.37	21.24	23	0.7				
5	QPSK	25	0	21.43	21.53	21.43						
5	16QAM	1	0	21.73	21.92	21.73						
5	16QAM	1	12	21.66	21.75	21.64						
5	16QAM	1	24	21.69	21.80	21.67						
5	16QAM	12	0	20.38	20.44	20.28	22	1.7				
5	16QAM	12	7	20.23	20.45	20.29						
5	16QAM	12	13	20.26	20.34	20.22						
5	16QAM	25	0	20.28	20.30	20.25						
5	64QAM	1	0	20.51	20.66	20.64						
5	64QAM	1	12	20.52	20.71	20.60	22	1.7				
5	64QAM	1	24	20.42	20.55	20.58						
5	64QAM	12	0	19.31	19.38	19.36						
5	64QAM	12	7	19.20	19.27	19.16						
5	64QAM	12	13	19.33	19.17	19.17						
5	64QAM	25	0	19.29	19.29	19.22	21	2.7				
5	256QAM	1	0	17.53	17.67	17.63						
5	256QAM	1	12	17.54	17.49	17.36						
5	256QAM	1	24	17.47	17.47	17.52						
5	256QAM	12	0	17.21	17.20	17.32						
5	256QAM	12	7	17.21	17.28	17.09	19	4.7				
5	256QAM	12	13	17.29	17.25	17.21						
5	256QAM	25	0	17.31	17.38	17.53						



Band 38 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37965	38050	38150			
				231.7	232.5	233.3			
20	QPSK	1	0	18.20	18.25	18.24			
20	QPSK	1	48	18.21	18.31	18.17	18.6	0	
20	QPSK	36	0	18.16	18.25	18.20			
20	QPSK	50	0	18.00	18.25	18.15			
20	QPSK	50	24	18.17	18.07	18.18	18.6	0	
20	QPSK	50	48	17.34	18.00	18.01			
20	QPSK	100	0	17.86	18.03	17.86			
20	QPSK	1	0	18.00	17.87	17.85	18.6	0	
20	HQAM	1	48	17.34	17.87	17.85			
20	HQAM	1	96	17.85	18.18	17.87			
20	HQAM	36	0	17.30	17.87	17.85			
20	HQAM	50	24	17.30	17.87	17.85	18.6	0	
20	HQAM	50	48	17.30	17.87	17.85			
20	HQAM	100	0	17.86	17.86	17.86			
20	HQAM	100	0	17.86	17.86	17.86			
20	HQAM	1	0	17.86	17.86	17.86	18.6	0	
20	HQAM	1	48	17.86	17.86	17.86			
20	HQAM	1	96	17.86	17.86	17.86			
20	HQAM	36	0	18.02	18.05	17.95			
20	HQAM	50	24	17.39	17.85	17.81	18.6	0	
20	HQAM	50	50	17.85	17.85	17.85			
20	HQAM	100	0	17.84	17.84	17.84			
20	HQAM	100	0	17.84	17.84	17.84			
20	HQAM	1	0	17.31	17.30	17.41	18.6	0	
20	HQAM	1	48	17.31	17.47	17.30			
20	HQAM	1	96	17.47	17.16	17.43			
20	HQAM	36	0	17.30	17.37	17.41			
20	HQAM	50	24	17.40	17.29	17.44	18.6	0	
20	HQAM	50	50	17.34	17.16	17.38			
20	HQAM	100	0	17.34	17.16	17.38			
Channel									
Frequency (MHz)				37925	38050	38175	Tune-up limit (dBm)	MPR (dB)	
				231.7	232.5	233.3			
15	QPSK	1	0	18.11	18.25	18.24			
15	QPSK	1	37	18.09	18.27	18.14	18.6	0	
15	QPSK	1	74	18.12	18.16	18.10			
15	QPSK	36	0	17.87	18.17	18.08			
15	QPSK	36	20	18.05	17.97	18.06	18.6	0	
15	QPSK	36	37	18.07	18.04	18.09			
15	QPSK	75	0	17.98	17.98	17.81			
15	HQAM	1	0	18.06	18.30	18.10			
15	HQAM	1	37	18.10	18.24	18.07	18.6	0	
15	HQAM	1	74	18.14	18.23	18.19			
15	HQAM	36	0	17.80	18.19	18.10			
15	HQAM	36	20	18.05	17.99	18.02	18.6	0	
15	HQAM	36	36	18.02	17.89	18.00			
15	HQAM	75	0	18.04	17.86	17.80			
15	HQAM	75	0	18.10	18.04	18.04	18.6	0	
15	HQAM	1	37	18.18	18.19	18.08			
15	HQAM	1	74	18.15	18.22	18.09			
15	HQAM	36	0	17.87	18.15	18.08	18.6	0	
15	HQAM	36	20	18.07	18.06	18.13			
15	HQAM	36	36	17.80	17.90	18.13			
15	HQAM	75	0	17.80	17.90	18.13	18.6	0	
15	HQAM	75	0	17.85	17.84	17.87			
15	HQAM	1	0	17.30	17.24	17.27			
15	HQAM	1	37	17.30	17.24	17.27	18.6	0	
15	HQAM	1	74	17.30	17.24	17.27			
15	HQAM	36	0	17.46	17.18	17.33			
15	HQAM	36	20	17.37	18.15	18.15	18.6	0	
15	HQAM	36	36	17.27	17.11	17.25			
15	HQAM	75	0	17.29	17.23	17.21			
Channel									
Frequency (MHz)				251.7	251.5	251.5	Tune-up limit (dBm)	MPR (dB)	
				251.7	251.5	251.5			
10	QPSK	1	0	18.01	18.20	18.15			
10	QPSK	1	25	18.07	18.25	18.14	18.6	0	
10	QPSK	1	48	18.05	18.18	18.21			
10	QPSK	36	0	18.05	18.15	18.15			
10	QPSK	25	12	18.04	18.02	18.06	18.6	0	
10	QPSK	25	25	18.00	18.02	17.86			
10	QPSK	36	0	18.05	18.15	18.15			
10	HQAM	1	0	18.17	18.27	18.21			
10	HQAM	1	25	18.17	18.26	18.14	18.6	0	
10	HQAM	1	48	18.06	18.15	18.11			
10	HQAM	25	0	17.86	18.16	18.07			
10	HQAM	25	12	18.15	17.88	18.05	18.6	0	
10	HQAM	36	0	18.05	18.05	18.01			
10	HQAM	36	25	18.05	18.05	18.01			
10	HQAM	50	0	18.09	17.92	17.81			
10	HQAM	50	0	18.10	18.20	18.10	18.6	0	
10	HQAM	25	0	17.81	18.11	18.02			
10	HQAM	25	12	18.04	18.19	18.04	18.6	0	
10	HQAM	1	48	18.09	18.21	18.16			
10	HQAM	25	0	17.81	18.11	18.02			
10	HQAM	25	12	18.08	18.01	18.15	18.6	0	
10	HQAM	25	25	18.07	18.08	17.81			
10	HQAM	50	0	17.83	17.81	17.89			
10	HQAM	50	0	17.39	17.29	17.34	18.6	0	
10	HQAM	25	12	17.34	17.19	17.36			
10	HQAM	25	25	17.27	17.09	17.23	18.6	0	
10	HQAM	50	0	17.27	17.16	17.31			
Channel									
Frequency (MHz)				251.7	251.5	251.5	Tune-up limit (dBm)	MPR (dB)	
				251.7	251.5	251.5			
5	QPSK	1	0	18.18	18.27	18.21			
5	QPSK	1	12	18.14	18.23	18.05	18.6	0	
5	QPSK	1	24	18.09	18.17	18.21			
5	QPSK	12	0	17.86	18.11	18.11			
5	QPSK	12	7	18.14	18.05	18.07	18.6	0	
5	QPSK	12	13	18.00	18.00	18.01			
5	QPSK	25	0	18.05	17.98	18.07			
5	HQAM	1	0	18.09	18.24	18.12			
5	HQAM	1	12	18.10	18.24	18.12	18.6	0	
5	HQAM	1	24	18.11	18.24	18.10			
5	HQAM	12	0	17.86	18.15	18.05			
5	HQAM	12	7	18.03	18.05	18.06	18.6	0	
5	HQAM	12	13	18.03	18.04	17.95			
5	HQAM	25	0	18.03	18.09	17.80			
5	HQAM	1	0	18.13	18.30	18.16	18.6	0	
5	HQAM	1	12	18.16	18.20	18.04			
5	HQAM	1	24	18.14	18.19	18.12			
5	HQAM	12	0	17.88	18.12	18.01	18.6	0	
5	HQAM	12	7	18.04	18.06	18.02			
5	HQAM	12	13	18.04	18.06	18.02			
5	HQAM	25	0	17.84	17.97	18.08			
5	HQAM	25	12	17.30	17.15	17.37	18.6	0	
5	HQAM	25	25	17.27	17.33	17.25			
5	HQAM	1	0	17.44	17.12	17.32			
5	HQAM	12	7	17.30	17.30	17.27	18.6	0	
5	HQAM	12	13	17.30	17.19	17.28			
5	HQAM	25	0	17.34	17.30	17.27			

Band 41 Ant 1												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel												
Frequency (MHz)				38970	40185	40620	41005	41480				
				244.3	244.3	244.3	244.3	244.3				
20	QPSK	1	0	18.16	18.23	18.24	18.12	18.14				
20	QPSK	1	48	18.18	18.26	18.13	18.19	18.03		18.6	0	
20	QPSK	36	0	18.17	18.22	18.24	18.08	18.03				
20	QPSK	50	0	18.02	18.22	18.12	18.08	18.02				
20	QPSK	50	24	18.12	18.08	18.14	18.11	18.00		18.6	0	
20	QPSK	50	48	18.10	18.00	18.05	18.05	18.05				
20	QPSK	100	0	17.85	18.03	17.82	17.80	17.80				
20	15QAM	1	0	17.87	18.01	17.86	17.80	17.83		18.6		
20	15QAM	36	0	17.87	18.03	17.85	17.82	17.87				
20	15QAM	1	96	17.86	18.12	17.89	17.87	17.91				
20	15QAM	50	0	17.86	17.87	17.82	17.80	17.83				
20	15QAM	50	24	17.80	17.80	17.80	17.80	17.80		18.6		
20	15QAM	50	48	17.80	17.86	17.83	17.80	17.82				
20	15QAM	100	0	17.86	17.86	17.86	17.86	17.86				
20	15QAM	100	0	17.85	17.87	17.83	17.84	18.02				
20	15QAM	1	48	17.81	17.82	17.87	17.83	17.88		18.6	0	
20	15QAM	1	96	18.00	17.83	17.83	17.88	17.84				
20	15QAM	36	0	17.97	18.02	18.01	17.97	17.94				
20	15QAM	50	24	17.84	17.86	17.80	17.84	18.02				
20	15QAM	50	50	17.80	17.86	17.80	17.83	17.89		18.6		
20	15QAM	100	0	17.88	17.86	17.81	17.80	17.81				
20	25QAM	1	0	17.80	17.80	17.82	17.49	17.49				
20	25QAM	1	48	17.80	17.82	17.80	17.39	17.41		18.6	0	
20	25QAM	1	96	17.87	17.41	17.57	17.83	17.81				
20	25QAM	36	0	17.80	17.82	17.80	17.39	17.46				
20	25QAM	50	24	17.80	17.40	17.61	17.57	17.58				
20	25QAM	50	48	17.80	17.43	17.67	17.38	17.48				
20	25QAM	100	0	17.88	17.82	17.82	17.48	17.58				
Channel												
Frequency (MHz)				38970	40173	40620	41008	41515				
				244.3	244.3	244.3	244.3	244.3				
15	QPSK	1	0	18.16	18.23	18.24	18.12	18.14				
15	QPSK	1	37	18.12	18.22	18.10	18.08	17.95				
15	QPSK	36	0	18.11	18.16	18.16	17.98	17.89				
15	QPSK	50	0	18.08	18.10	18.09	17.92	17.80				
15	QPSK	36	20	18.09	18.18	18.04	18.06	17.89				
15	QPSK	50	24	18.03	18.15	18.04	17.97	17.80				
15	QPSK	75	0	18.11	18.20	18.20	17.99	18.11				
15	15QAM	1	0	18.11	18.22	18.07	18.16	18.12				
15	15QAM	36	0	18.09	18.11	18.07	17.92	17.86				
15	15QAM	1	74	18.13	18.31	18.17	18.08	18.12				
15	15QAM	36	0	18.07	18.17	18.03	18.07	17.90				
15	15QAM	36	20	18.08	18.10	18.02	17.92	17.80				
15	15QAM	36	39	18.10	18.27	18.16	18.01	18.06				
15	15QAM	50	24	18.05	18.17	18.00	17.95	17.86				
15	15QAM	1	74	18.04	18.14	18.19	17.90	17.94				
15	15QAM	1	37	18.09	18.26	18.10	18.09	18.05		18.6	0	
15	15QAM	36	0	18.02	18.15	18.01	17.94	18.05				
15	15QAM	36	0	18.04	18.18	18.15	18.01	18.00				
15	15QAM	36	20	18.11	18.20	18.13	18.09	18.04				
15	15QAM	36	39	18.09	18.20	18.03	17.90	17.91				
15	15QAM	75	0	18.10	18.20	18.14	18.09	18.04			18.6	0
15	25QAM	1	0	17.87	17.87	17.87	17.49	17.49				
15	25QAM	1	37	17.43	17.52	17.56	17.30	17.38				
15	25QAM	1	74	17.53	17.58	17.46	17.49	17.28				
15	25QAM	36	0	17.56	17.61	17.52	17.46	17.46				
15	25QAM	36	20	17.44	17.24	17.50	17.42	17.43				
15	25QAM	36	39	17.46	17.32	17.43	17.22	17.34		18.6	0	
15	25QAM	75	0	17.48	17.34	17.47	17.42	17.34				
Channel												
Frequency (MHz)				38970	40160	40620	41008	41540				
				244.3	244.3	244.3	244.3	244.3				
10	QPSK	1	25	18.07	18.20	18.00	18.12	17.92		19	0	
10	QPSK	1	74	18.07	18.20	18.00	18.12	17.92				
10	QPSK	25	0	18.02	18.24	18.15	18.04	18.15				
10	QPSK	25	12	18.03	18.24	18.04	18.15	18.00				
10	QPSK	25	24	18.06	18.10	18.04	18.15	17.94				
10	QPSK	50	0	18.06	18.24	18.12	18.07	18.15				
10	15QAM	1	0	18.11	18.23	18.01	18.08	17.95				
10	15QAM	1	12	18.11	18.09	18.20	17.99	17.86				
10	15QAM	1	49	18.07	18.26	18.18	18.02	18.04				
10	15QAM	25	0	18.09	18.15	18.06	18.15	18.01				
10	15QAM	25	12	18.08	18.13	18.17	18.06	18.07				
10	15QAM	25	24	18.12	18.21	18.07	18.06	18.07				
10	15QAM	50	0	18.10	18.20	18.14	18.03	18.08				
10	15QAM	1	0	18.13	18.16	18.19	17.99	17.93				
10	15QAM	1	25	18.04	18.29	18.14	18.02	18.02				
10	15QAM	1	49	18.11	18.18	18.09	18.11	18.00				
10	15QAM	25	0	18.14	18.16	18.11	17.89	17.99				
10	15QAM	25	12	18.08	18.29	18.13	18.06	18.08				
10	15QAM	25	24	18.09	18.20	18.09	18.15	18.09				
10	15QAM	50	0	18.06	18.15	18.11	17.93	17.92				
10	25QAM	1	0	17.56	17.56	17.56	17.43	17.40				
10	25QAM	1	25	17.43	17.56	17.42	17.24	17.26				
10	25QAM	1	49	17.60	17.28	17.44	17.43	17.32				
10	25QAM	1	74	17.49	17.38	17.47	17.43	17.37				
10	25QAM	25	12	17.40	17.34	17.49	17.46	17.44				
10	25QAM	25	24	17.49	17.33	17.44	17.29	17.33				
10	25QAM	50	0	17.48	17.29	17.46	17.44	17.41				
Channel												
Frequency (MHz)				38975	40140	40620	41000	41565				
				245.0	245.0	245.0	245.0	245.0				
5	QPSK	1	12	18.04	18.12	18.11	18.06	17.82		19	0	
5	QPSK	1	24	18.05	18.14	18.10	18.03	17.80				
5	QPSK	12	0	18.11	18.28	18.20	18.09	18.02				
5	QPSK	12	7	18.05	18.15	17.99	18.17	17.96				
5	QPSK	25	0	18.08	18.18	18.15	18.06	18.03				
5	15QAM	1	0	18.10	18.23	18.00	18.14	18.03				
5	15QAM	1	12	18.13	18.12	18.09	18.11	17.99				
5	15QAM	1	24	18.03	18.31	18.18	18.01	18.10				
5	15QAM	1	37	18.08	18.16	18.02	18.09	17.97				
5	15QAM	12	7	18.13	18.10	18.13	17.92	17.92				
5	15QAM	12	13	18.12	18.31	18.17	18.05	18.10				
5	15QAM	1	0	18.08	18.18	18.15	18.01	18.00				
5	15QAM	1	12	18.10	18.19	18.18	18.05	18.10		18.6	0	
5	15QAM	1	24	18.08	18.20	18.19	18.11	18.03				
5	15QAM	12	0	18.13	18.06	18.17	17.92	17.95				
5	25QAM	1	0	17.43	17.56	17.42	17.24	17.20				
5	25QAM	1	12	17.62	17.49	17.42	17.30	17.32				
5	25QAM	1	24	17.59	17.34	17.63	17.48	17.36				
5	25QAM	12	0	17.47	17.37	17.47	17.42	17.35				
5	25QAM	12	7	17.40	17.31	17.48	17.42	17.52				
5	25QAM	12	13	17.48	17.30	17.46	17.31	17.42				

Band 7 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	20.56	20.68	20.58	21.2	0	
20	QPSK	1	49	20.54	20.61	20.60			
20	QPSK	1	99	20.57	20.63	20.60			
20	QPSK	50	0	20.54	20.64	20.57			
20	QPSK	50	24	20.62	20.61	20.57	21.2	0	
20	QPSK	50	50	20.63	20.61	20.54			
20	QPSK	100	0	20.62	20.63	20.54			
20	16QAM	1	0	20.58	20.62	20.61			
20	16QAM	1	49	20.63	20.60	20.55	21.2	0	
20	16QAM	1	99	20.59	20.62	20.58			
20	16QAM	50	0	20.63	20.59	20.57			
20	16QAM	50	24	20.61	20.57	20.56			
20	16QAM	50	50	20.62	20.59	20.62	21.2	0	
20	16QAM	100	0	20.61	20.58	20.58			
20	64QAM	1	0	20.61	20.56	20.55			
20	64QAM	1	49	20.59	20.60	20.60			
20	64QAM	1	99	20.54	20.59	20.55	21	0.2	
20	64QAM	50	0	20.53	20.57	20.54			
20	64QAM	50	24	20.54	20.60	20.57			
20	64QAM	50	50	20.57	20.59	20.59			
20	64QAM	100	0	20.61	20.57	20.57	19	2.2	
20	256QAM	1	0	18.15	18.19	18.07			
20	256QAM	1	49	18.04	18.08	18.00			
20	256QAM	1	99	18.07	18.00	18.12			
20	256QAM	50	0	17.82	17.93	17.88	19	2.2	
20	256QAM	50	24	17.74	17.83	17.66			
20	256QAM	50	50	17.78	17.84	17.82			
20	256QAM	100	0	17.93	17.92	17.81			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	20.48	20.61	20.47			
15	QPSK	1	37	20.43	20.52	20.53	21.2	0	
15	QPSK	1	74	20.43	20.50	20.51			
15	QPSK	36	0	20.40	20.49	20.45			
15	QPSK	36	20	20.48	20.53	20.45			
15	QPSK	36	39	20.51	20.50	20.44	21.2	0	
15	QPSK	75	0	20.49	20.54	20.44			
15	16QAM	1	0	20.51	20.54	20.52			
15	16QAM	1	37	20.56	20.52	20.44			
15	16QAM	1	74	20.47	20.53	20.44	21.2	0	
15	16QAM	36	0	20.53	20.48	20.44			
15	16QAM	36	20	20.50	20.49	20.42			
15	16QAM	36	39	20.53	20.52	20.48			
15	16QAM	75	0	20.49	20.52	20.48	21.2	0	
15	64QAM	1	0	20.50	20.42	20.40			
15	64QAM	1	37	20.51	20.45	20.54			
15	64QAM	1	74	20.39	20.50	20.49			
15	64QAM	36	0	20.41	20.44	20.47	21	0.2	
15	64QAM	36	20	20.45	20.46	20.47			
15	64QAM	36	39	20.50	20.52	20.45			
15	64QAM	75	0	20.52	20.43	20.48			
15	256QAM	1	0	18.02	18.11	18.01	19	2.2	
15	256QAM	1	37	17.93	18.03	17.93			
15	256QAM	1	74	17.96	17.91	18.03			
15	256QAM	36	0	17.75	17.83	17.77			
15	256QAM	36	20	17.59	17.73	17.52	19	2.2	
15	256QAM	36	39	17.68	17.79	17.72			
15	256QAM	75	0	17.86	17.77	17.73			
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	20.45	20.57	20.43			
10	QPSK	1	25	20.47	20.46	20.53	21.2	0	
10	QPSK	1	49	20.45	20.57	20.55			
10	QPSK	25	0	20.41	20.43	20.49			
10	QPSK	25	12	20.50	20.49	20.50			
10	QPSK	25	25	20.51	20.49	20.48	21.2	0	
10	QPSK	50	0	20.52	20.57	20.42			
10	16QAM	1	0	20.52	20.51	20.48			
10	16QAM	1	25	20.50	20.50	20.45			
10	16QAM	1	49	20.44	20.53	20.49	21.2	0	
10	16QAM	25	0	20.49	20.44	20.49			
10	16QAM	25	12	20.52	20.42	20.50			
10	16QAM	25	25	20.49	20.53	20.55			
10	16QAM	50	0	20.48	20.48	20.51	21.2	0	
10	64QAM	1	0	20.46	20.47	20.43			
10	64QAM	1	25	20.49	20.53	20.46			
10	64QAM	1	49	20.44	20.47	20.43			
10	64QAM	25	0	20.38	20.51	20.48	21	0.2	
10	64QAM	25	12	20.46	20.52	20.46			
10	64QAM	25	25	20.51	20.52	20.50			
10	64QAM	50	0	20.54	20.50	20.50			
10	256QAM	1	0	18.01	18.14	17.95	19	2.2	
10	256QAM	1	25	17.93	17.95	17.92			
10	256QAM	1	49	17.95	17.89	18.02			
10	256QAM	25	0	17.77	17.86	17.82			
10	256QAM	25	12	17.64	17.73	17.60	19	2.2	
10	256QAM	25	25	17.70	17.78	17.71			
10	256QAM	50	0	17.83	17.83	17.74			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	20.47	20.55	20.44			
5	QPSK	1	12	20.41	20.52	20.54	21.2	0	
5	QPSK	1	24	20.45	20.56	20.50			
5	QPSK	12	0	20.48	20.49	20.44			
5	QPSK	12	7	20.56	20.52	20.50			
5	QPSK	12	13	20.53	20.51	20.41	21.2	0	
5	QPSK	25	0	20.48	20.53	20.44			
5	16QAM	1	0	20.46	20.53	20.54			
5	16QAM	1	12	20.52	20.52	20.41			
5	16QAM	1	24	20.50	20.56	20.50	21.2	0	
5	16QAM	12	0	20.51	20.47	20.52			
5	16QAM	12	7	20.53	20.42	20.47			
5	16QAM	12	13	20.53	20.53	20.55			
5	16QAM	25	0	20.46	20.49	20.46	21.2	0	
5	64QAM	1	0	20.51	20.42	20.41			
5	64QAM	1	12	20.45	20.50	20.52			
5	64QAM	1	24	20.48	20.44	20.50			
5	64QAM	12	0	20.45	20.42	20.44	21	0.2	
5	64QAM	12	7	20.42	20.46	20.45			
5	64QAM	12	13	20.50	20.47	20.51			
5	64QAM	25	0	20.49	20.50	20.52			
5	256QAM	1	0	18.03	18.07	17.98	19	2.2	
5	256QAM	1	12	17.94	18.00	17.88			
5	256QAM	1	24	17.97	17.85	18.07			
5	256QAM	12	0	17.75	17.79	17.75			
5	256QAM	12	7	17.64	17.75	17.57	19	2.2	
5	256QAM	12	13	17.72	17.78	17.76			
5	256QAM	25	0	17.80	17.81	17.71			

Band 30 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	Channel
									Frequency (MHz)
									2310
10	QPSK	1	0		21.19		22.4	0	
10	QPSK	1	25		21.09				
10	QPSK	1	49		21.04				
10	QPSK	25	0		21.08		22.4	0	
10	QPSK	25	12		21.00				
10	QPSK	25	25		21.07				
10	QPSK	50	0		21.05		22.4	0	
10	16QAM	1	0		21.07				
10	16QAM	1	25		21.10				
10	16QAM	1	49		21.09		22	0.4	
10	16QAM	25	0		21.05				
10	16QAM	25	12		21.11				
10	16QAM	25	25		21.11		22	0.4	
10	16QAM	50	0		21.14				
10	64QAM	1	0		21.12				
10	64QAM	1	25		21.12		22	0.4	
10	64QAM	1	49		21.12				
10	64QAM	25	0		20.53				
10	64QAM	25	12		20.46		21	1.4	
10	64QAM	25	25		20.41				
10	64QAM	50	0		20.52				
10	256QAM	1	0		18.10		19	3.4	
10	256QAM	1	25		18.14				
10	256QAM	1	49		18.07				
10	256QAM	25	0		17.92		19	3.4	
10	256QAM	25	12		17.80				
10	256QAM	25	25		17.91				
10	256QAM	50	0		17.84				
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	0	21.06	21.08	21.05	22.4	0	
5	QPSK	1	12	20.99	21.04	20.96			
5	QPSK	1	24	20.96	20.96	20.90			
5	QPSK	12	0	21.02	20.96	20.98	22.4	0	
5	QPSK	12	7	20.88	20.94	20.89			
5	QPSK	12	13	21.00	21.01	20.93			
5	QPSK	25	0	20.99	20.91	20.98	22.4	0	
5	16QAM	1	0	20.98	20.98	20.93			
5	16QAM	1	12	20.90	21.04	21.02			
5	16QAM	1	24	20.95	20.97	20.90	22	0.4	
5	16QAM	12	0	20.90	20.91	20.96			
5	16QAM	12	7	20.96	21.02	21.03			
5	16QAM	12	13	21.01	21.05	20.98	22	0.4	
5	16QAM	25	0	21.02	21.00	21.06			
5	64QAM	1	0	20.97	21.03	21.07			
5	64QAM	1	12	21.07	21.06	21.06	22	0.4	
5	64QAM	1	24	21.04	21.07	21.01			
5	64QAM	12	0	20.96	20.98	20.92			
5	64QAM	12	7	20.95	20.97	21.00	21	1.4	
5	64QAM	12	13	20.95	20.96	20.98			
5	64QAM	25	0	20.96	20.95	20.59			
5	256QAM	1	0	17.96	17.99	18.00	19	3.4	
5	256QAM	1	12	17.99	18.09	18.06			
5	256QAM	1	24	17.94	17.97	17.93			
5	256QAM	12	0	17.83	17.79	17.81	19	3.4	
5	256QAM	12	7	17.66	17.75	17.71			
5	256QAM	12	13	17.77	17.81	17.83			
5	256QAM	25	0	17.75	17.70	17.75			



Band 38 Ant 2												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)				
Channel												
Frequency (MHz)				37850	38050	38150						
20	QPSK	1	0	21.35	21.40	21.43	21.9	0				
20	QPSK	1	49	21.35	21.39	21.40						
20	QPSK	1	89	21.35	21.38	21.42						
20	QPSK	50	0	21.23	21.40	21.30						
20	QPSK	50	24	21.37	21.31	21.38	21.9	0				
20	QPSK	50	49	21.18	21.38	21.27						
20	QPSK	100	0	21.07	21.21	21.04						
20	16QAM	1	0	21.15	21.21	21.24						
20	16QAM	1	99	21.11	21.38	21.08	21.9	0				
20	16QAM	50	0	20.47	20.50	20.38						
20	16QAM	50	24	20.39	20.47	20.37						
20	16QAM	50	50	20.28	20.42	20.34						
20	16QAM	100	0	20.44	20.49	20.35	21.9	0				
20	16QAM	100	1	20.55	20.52	20.77						
20	64QAM	1	49	20.58	20.71	20.76						
20	64QAM	1	99	20.52	20.58	20.70						
20	64QAM	50	0	19.49	19.53	19.45	21	0.9				
20	64QAM	50	24	19.34	19.48	19.35						
20	64QAM	50	50	19.41	19.53	19.35						
20	64QAM	100	0	19.35	19.45	19.27						
20	256QAM	1	0	17.87	17.85	17.70	19	2.9				
20	256QAM	1	49	17.35	17.79	17.48						
20	256QAM	1	99	17.65	17.58	17.62						
20	256QAM	50	0	17.42	17.44	17.37						
20	256QAM	50	24	17.38	17.33	17.24	19	2.9				
20	256QAM	50	50	17.35	17.44	17.32						
20	256QAM	100	0	17.47	17.48	17.33						
Channel												
Frequency (MHz)				37850	38050	38150			Tune-up limit (dBm)	MFR (dB)		
15	QPSK	1	0	21.23	21.39	21.30	21.9	0				
15	QPSK	1	37	21.29	21.38	21.20						
15	QPSK	1	74	21.29	21.33	21.29						
15	QPSK	36	0	21.17	21.34	21.29						
15	QPSK	36	20	21.29	21.20	21.20	21.9	0				
15	QPSK	36	38	21.21	21.29	21.22						
15	QPSK	75	0	21.03	21.16	21.06						
15	16QAM	1	0	21.05	21.16	21.17						
15	16QAM	1	37	21.09	21.12	21.11	21.9	0				
15	16QAM	1	74	21.04	21.08	21.03						
15	16QAM	36	0	20.40	20.42	20.27						
15	16QAM	36	20	20.32	20.39	20.31						
15	16QAM	36	39	20.26	20.33	20.31	21.9	0				
15	16QAM	75	0	20.44	20.40	20.27						
15	16QAM	75	0	19.38	19.50	19.36						
15	16QAM	1	37	20.54	20.74	20.66						
15	16QAM	1	37	20.54	20.69	20.69	21.9	0				
15	16QAM	74	20.51	20.62	20.66							
15	16QAM	36	0	19.38	19.50	19.36						
15	16QAM	36	39	20.26	20.49	20.35						
15	16QAM	36	39	20.26	20.49	20.35	21	0.9				
15	16QAM	75	0	19.35	19.52	19.15						
15	256QAM	1	0	17.57	17.61	17.66						
15	256QAM	1	37	17.58	17.58	17.58						
15	256QAM	1	74	17.57	17.49	17.50	19	2.9				
15	256QAM	36	0	17.38	17.38	17.25						
15	256QAM	36	20	17.42	17.32	17.42						
15	256QAM	36	39	17.34	17.36	17.23						
15	256QAM	75	0	17.40	17.41	17.28	Tune-up limit (dBm)	MFR (dB)				
Channel												
Frequency (MHz)				37850	38050	38150	Tune-up limit (dBm)	MFR (dB)				
10	QPSK	1	0	21.23	21.39	21.30	21.9	0				
10	QPSK	1	25	21.22	21.33	21.21						
10	QPSK	1	49	21.22	21.27	21.32						
10	QPSK	25	0	21.17	21.29	21.23						
10	QPSK	25	12	21.26	21.23	21.20	21.9	0				
10	QPSK	25	25	21.17	21.26	21.15						
10	HQAM	1	0	21.03	21.16	21.10						
10	HQAM	1	25	21.03	21.16	21.18						
10	HQAM	1	25	21.08	21.08	21.11	21.9	0				
10	HQAM	1	49	21.09	21.28	21.06						
10	HQAM	25	0	20.46	20.49	20.36						
10	HQAM	25	12	20.38	20.44	20.35						
10	HQAM	25	25	20.18	20.33	20.30	21.9	0				
10	HQAM	50	0	20.41	20.45	20.34						
10	HQAM	50	0	19.45	19.50	19.35						
10	HQAM	50	25	20.52	20.67	20.65						
10	HQAM	1	49	20.58	20.62	20.62	21.9	0				
10	HQAM	25	0	19.44	19.43	19.30						
10	HQAM	25	12	19.27	19.40	19.29						
10	HQAM	25	25	19.32	19.36	19.35						
10	HQAM	50	0	19.31	19.34	19.20	21	0.9				
10	HQAM	50	0	17.64	17.59	17.64						
10	HQAM	1	25	17.53	17.64	17.59						
10	HQAM	1	49	17.55	17.59	17.55						
10	HQAM	25	0	17.31	17.36	17.25	19	2.9				
10	HQAM	25	12	17.36	17.31	17.40						
10	HQAM	25	25	17.31	17.42	17.23						
10	HQAM	50	0	17.40	17.35	17.33						
Channel												
Frequency (MHz)				37775	38000	38225	Tune-up limit (dBm)	MFR (dB)				
5	QPSK	1	0	21.22	21.39	21.35	21.9	0				
5	QPSK	1	12	21.23	21.28	21.21						
5	QPSK	1	24	21.28	21.24	21.35						
5	QPSK	12	0	21.13	21.26	21.25						
5	QPSK	12	7	21.13	21.21	21.13	21.9	0				
5	QPSK	12	13	21.18	21.29	21.22						
5	QPSK	25	0	20.34	21.14	20.99						
5	16QAM	1	0	21.08	21.09	21.18						
5	16QAM	1	12	21.08	21.13	21.16	21.9	0				
5	16QAM	1	24	21.05	21.20	20.95						
5	16QAM	12	0	20.45	20.47	20.38						
5	16QAM	12	7	20.28	20.44	20.34						
5	16QAM	12	13	20.26	20.41	20.32	21.9	0				
5	16QAM	25	0	20.38	20.47	20.35						
5	16QAM	25	0	20.60	20.61	20.77						
5	16QAM	25	13	20.58	20.63	20.76						
5	16QAM	1	24	20.56	20.66	20.75	21	0.9				
5	16QAM	12	0	19.44	19.42	19.34						
5	16QAM	12	7	19.28	19.38	19.31						
5	16QAM	12	13	19.41	19.52	19.24						
5	256QAM	1	0	17.35	17.38	17.48	19	2.9				
5	256QAM	1	12	17.37	17.33	17.43						
5	256QAM	12	0	17.38	17.32	17.23						
5	256QAM	12	7	17.38	17.32	17.23						
5	256QAM	12	13	17.30	17.36	17.29	Tune-up limit (dBm)	MFR (dB)				
5	256QAM	25	0	17.47	17.47	17.32						



Band 42 FCC Part27Q Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPP (dB)		
Channel				42190	42660	42990	Turn-up time (dBm)	MPP (dB)		
Frequency (MHz)				3415.5	3600	3645				
20	QPSK	1	0	22.83	22.87	22.82	23.4	0		
20	QPSK	1	49	22.80	22.85	22.70				
20	QPSK	1	86	22.78	22.81	22.83				
20	QPSK	50	0	22.16	22.19	22.11				
20	QPSK	50	24	22.01	22.04	21.90	23	0.4		
20	QPSK	50	50	21.00	21.08	21.02				
20	QPSK	100	0	22.06	22.10	21.99				
20	16QAM	1	0	22.48	22.41	22.34				
20	16QAM	1	49	22.43	22.35	22.28	23	0.4		
20	16QAM	1	99	22.37	22.43	22.28				
20	16QAM	50	0	21.03	21.04	20.86				
20	16QAM	50	24	21.01	21.07	20.85				
20	16QAM	50	50	20.92	20.90	20.94	22	1.4		
20	16QAM	100	0	20.96	20.96	20.98				
20	64QAM	1	0	21.27	21.27	21.34				
20	64QAM	1	49	21.27	21.28	21.19				
20	64QAM	1	99	21.17	21.15	21.28	21	2.4		
20	64QAM	50	0	20.01	19.97	19.95				
20	64QAM	50	24	19.98	19.89	19.83				
20	64QAM	50	50	19.87	19.83	19.86				
20	64QAM	100	0	19.96	19.95	19.84	19	4.4		
20	256QAM	1	0	18.24	18.17	18.14				
20	256QAM	1	49	18.20	18.16	18.07				
20	256QAM	1	99	18.08	18.14	18.12				
20	256QAM	50	0	17.86	17.87	17.86	19	4.4		
20	256QAM	50	24	17.85	17.89	17.75				
20	256QAM	50	50	17.82	17.90	17.80				
20	256QAM	100	0	17.86	18.01	17.88				
Channel				42165	42665	43015	Turn-up time (dBm)	MPP (dB)		
Frequency (MHz)				3417.5	3600	3647.5				
15	QPSK	1	0	22.10	22.77	22.73	23.4	0		
15	QPSK	1	37	22.72	22.71	22.63				
15	QPSK	1	74	22.68	22.73	22.68				
15	QPSK	36	0	22.03	22.79	22.75				
15	QPSK	36	20	21.90	22.55	22.64	23	0.4		
15	QPSK	36	36	21.81	22.68	22.58				
15	QPSK	75	0	22.06	22.58	22.53				
15	16QAM	1	0	22.38	22.57	22.56				
15	16QAM	1	37	22.58	22.49	22.50	23	0.4		
15	16QAM	1	74	22.35	22.72	22.42				
15	16QAM	36	0	21.00	20.91	20.77				
15	16QAM	36	20	20.08	20.84	20.82				
15	16QAM	36	36	20.80	20.87	20.80	22	1.4		
15	16QAM	75	0	20.91	20.92	20.76				
15	64QAM	1	0	21.25	21.13	21.31				
15	64QAM	1	37	21.15	21.19	21.09				
15	64QAM	1	74	21.13	21.07	21.16	21	2.4		
15	64QAM	36	0	19.83	19.92	19.83				
15	64QAM	36	20	19.91	19.83	19.72				
15	64QAM	36	36	19.82	19.75	19.75				
15	64QAM	75	0	19.80	19.92	19.91	19	4.4		
15	256QAM	1	0	18.16	18.10	18.04				
15	256QAM	1	37	18.10	18.06	18.00				
15	256QAM	1	74	18.00	18.12	18.02				
15	256QAM	36	0	17.94	17.91	17.87	19	4.4		
15	256QAM	36	20	17.73	17.82	17.70				
15	256QAM	36	36	17.86	17.77	17.76				
15	256QAM	75	0	17.87	17.80	17.73				
Channel				42140	42660	43005	Turn-up time (dBm)	MPP (dB)		
Frequency (MHz)				3455	3600	3645				
10	QPSK	1	0	22.78	22.77	22.84	23.4	0		
10	QPSK	1	25	22.75	22.76	22.81				
10	QPSK	1	49	22.68	22.81	22.71				
10	QPSK	25	0	22.06	22.86	22.76				
10	QPSK	25	12	21.89	22.58	22.57	23	0.4		
10	QPSK	25	25	21.92	22.63	22.52				
10	QPSK	60	0	22.02	22.58	22.50				
10	16QAM	1	0	22.37	22.80	22.58				
10	16QAM	1	25	22.41	22.46	22.48	23	0.4		
10	16QAM	1	49	22.36	22.68	22.57				
10	16QAM	25	0	20.93	20.95	20.80				
10	16QAM	25	12	20.87	21.03	20.72				
10	16QAM	25	25	20.89	20.84	20.86	22	1.4		
10	16QAM	50	0	20.89	20.85	20.75				
10	64QAM	1	0	21.14	21.32	21.23				
10	64QAM	1	25	21.24	21.22	21.13				
10	64QAM	1	49	21.10	21.09	21.19	22	1.4		
10	64QAM	25	0	19.87	19.85	19.81				
10	64QAM	25	12	19.90	19.75	19.75				
10	64QAM	25	25	19.74	19.71	19.83				
10	64QAM	50	0	19.90	19.83	19.81	21	2.4		
10	256QAM	1	0	18.10	18.05	18.11				
10	256QAM	1	25	18.09	18.08	17.85				
10	256QAM	1	49	18.02	18.01	18.00				
10	256QAM	25	0	17.86	17.93	17.76	19	4.4		
10	256QAM	25	12	17.80	17.86	17.68				
10	256QAM	25	25	17.85	17.78	17.75				
10	256QAM	50	0	17.80	17.85	17.74				
Channel				42115	42660	43005	Turn-up time (dBm)	MPP (dB)		
Frequency (MHz)				3452.5	3600	3647.5				
5	QPSK	1	0	22.76	22.75	22.75	23.4	0		
5	QPSK	1	12	22.75	22.77	22.80				
5	QPSK	1	24	22.75	22.81	22.73				
5	QPSK	12	0	22.03	22.74	22.68				
5	QPSK	12	7	21.95	22.51	22.61	23	0.4		
5	QPSK	12	13	21.95	22.69	22.61				
5	QPSK	25	0	22.03	22.50	22.39				
5	16QAM	1	0	22.39	22.58	22.52				
5	16QAM	1	12	22.38	22.51	22.46	23	0.4		
5	16QAM	1	24	22.54	22.66	22.41				
5	16QAM	12	0	20.88	21.02	20.77				
5	16QAM	12	7	20.88	20.96	20.72				
5	16QAM	12	13	20.84	20.84	20.90	22	1.4		
5	16QAM	25	0	20.89	20.83	20.86				
5	64QAM	1	0	21.22	21.19	21.28				
5	64QAM	1	12	21.16	21.19	21.09				
5	64QAM	1	24	21.08	21.11	21.18	21	2.4		
5	64QAM	12	0	19.87	19.84	19.92				
5	64QAM	12	7	19.91	19.80	19.76				
5	64QAM	25	0	19.86	19.92	19.91				
5	256QAM	1	0	18.17	18.07	18.01	19	4.4		
5	256QAM	1	12	18.12	18.07	17.89				
5	256QAM	1	24	17.89	18.02	17.89				
5	256QAM	12	0	17.86	17.85	17.83				
5	256QAM	12	7	17.84	17.81	17.86	19	4.4		
5	256QAM	12	13	17.80	17.81	17.73				
5	256QAM	25	0	17.84	17.99	17.84				

Band 48_FCC Ant 2											
BW (MHz)	Modulation	RB Size	RB Offset	Power (Fwd/Ret)	Power (Fwd/Ret) Mid-Hi	Power (Fwd/Ret) High	Power (Fwd/Ret) High	Turn-up limit (dBm)	MPE (dB)		
Channel				56340	56890	56190	56640				
Frequency (MHz)				56340	56890	56190	56640				
20	QPSK	1	0	20.55	20.40	20.54	20.46	21.3	0		
20	QPSK	1	48	20.50	20.50	20.46	20.47				
20	QPSK	1	96	20.46	20.40	20.55	20.41				
20	QPSK	50	0	20.51	20.22	20.44	20.39				
20	QPSK	50	24	20.40	20.46	20.44	20.39	21.3	0		
20	QPSK	50	48	20.35	20.45	20.45	20.32				
20	QPSK	100	0	20.30	20.04	20.19	20.16				
20	HQAM	1	0	20.40	20.26	20.38	20.21				
20	HQAM	1	48	20.33	20.28	20.32	20.16	21.3	0		
20	HQAM	1	96	20.47	20.31	20.14	20.05				
20	HQAM	50	0	20.11	20.15	20.26	20.20				
20	HQAM	50	24	20.07	20.08	20.16	19.92				
20	HQAM	50	50	20.19	20.21	20.19	20.10	21.3	0		
20	HQAM	100	0	20.14	19.98	20.16	20.07				
20	HQAM	1	0	20.51	20.15	20.02	19.98				
20	HQAM	1	48	20.07	20.20	20.27	20.06				
20	HQAM	50	0	20.11	19.98	20.16	20.09	21	0.3		
20	HQAM	50	24	20.14	20.20	20.11	19.98				
20	HQAM	50	50	20.13	19.92	20.23	20.16				
20	HQAM	100	0	19.99	20.14	20.16	20.13				
20	25GQAM	1	0	18.88	18.84	18.88	18.77	19	2.3		
20	25GQAM	1	48	18.87	18.71	18.70	18.59				
20	25GQAM	1	96	18.81	18.62	18.76	18.72				
20	25GQAM	50	0	18.73	18.63	18.46	18.50				
20	25GQAM	50	24	18.57	18.47	18.42	18.30	19	2.3		
20	25GQAM	50	50	18.85	18.62	18.44	18.41				
20	25GQAM	100	0	18.65	18.63	18.57	18.51				
Channel				56315	56920	56160	56665				Turn-up limit (dBm)
Frequency (MHz)				56315	56920	56160	56665				
15	QPSK	1	0	20.12	20.32	20.41	20.35	21.3	0		
15	QPSK	1	37	20.35	20.38	20.40	20.38				
15	QPSK	1	74	20.43	20.26	20.40	20.31				
15	QPSK	36	0	20.46	20.07	20.40	20.33				
15	QPSK	36	20	20.27	20.37	20.36	20.31	21.3	0		
15	QPSK	36	36	20.23	20.41	20.31	20.25				
15	QPSK	75	0	20.20	19.65	20.00	20.06				
15	HQAM	1	0	20.36	20.18	20.13	20.16				
15	HQAM	1	37	20.38	20.18	20.17	20.03	21.3	0		
15	HQAM	1	74	20.39	20.22	20.07	19.90				
15	HQAM	36	0	20.03	20.05	20.22	20.11				
15	HQAM	36	20	19.95	19.88	20.02	19.79				
15	HQAM	36	36	20.06	20.10	20.06	20.05	21.3	0		
15	HQAM	75	0	20.04	19.60	20.13	19.92				
15	HQAM	1	0	20.15	20.11	19.91	19.74				
15	HQAM	1	37	20.01	20.08	20.19	19.90				
15	HQAM	1	74	20.04	20.03	20.10	20.01	21	0.3		
15	HQAM	36	0	20.06	19.81	20.05	19.97				
15	HQAM	36	20	19.99	20.16	20.01	19.86				
15	HQAM	36	36	20.02	19.70	20.11	19.95				
15	HQAM	75	0	19.91	20.00	20.00	20.00	19	2.3		
15	25GQAM	1	0	18.77	18.73	18.60	18.65				
15	25GQAM	1	37	18.90	18.64	18.57	18.46				
15	25GQAM	1	74	18.76	18.70	18.73	18.59				
15	25GQAM	36	0	18.65	18.42	18.43	18.47	19	2.3		
15	25GQAM	36	20	18.44	18.24	18.37	18.20				
15	25GQAM	36	36	18.67	18.47	18.42	18.36				
15	25GQAM	75	0	18.68	18.41	18.60	18.46				
Channel				56300	56915	56160	56675	Turn-up limit (dBm)	MPE (dB)		
Frequency (MHz)				56300	56915	56160	56675				
10	QPSK	1	0	20.60	20.28	20.41	20.40	21.3	0		
10	QPSK	1	25	20.45	20.41	20.34	20.35				
10	QPSK	1	49	20.42	20.34	20.44	20.37				
10	QPSK	36	0	20.37	20.17	20.35	20.34				
10	QPSK	25	12	20.27	20.40	20.34	20.24	21.3	0		
10	QPSK	25	25	20.22	20.33	20.41	20.17				
10	QPSK	50	0	20.22	19.82	20.07	20.03				
10	HQAM	1	0	20.29	20.13	20.13	20.08				
10	HQAM	1	25	20.19	20.19	20.27	20.00	21.3	0		
10	HQAM	1	49	20.36	20.22	20.06	19.96				
10	HQAM	25	0	19.99	19.98	20.22	20.19				
10	HQAM	25	12	19.92	20.03	20.02	19.81				
10	HQAM	25	25	20.08	20.12	20.08	19.95	21.3	0		
10	HQAM	50	0	19.98	19.63	20.09	19.94				
10	HQAM	1	0	20.05	20.00	19.98	19.91				
10	HQAM	1	25	19.94	20.14	20.16	19.98				
10	HQAM	1	49	20.12	20.07	20.19	20.01	21	0.3		
10	HQAM	25	0	20.06	19.84	20.02	19.85				
10	HQAM	25	12	20.08	20.09	19.90	19.91				
10	HQAM	25	25	19.98	19.84	20.08	20.06				
10	HQAM	50	0	19.88	20.00	20.10	20.01	19	2.3		
10	25GQAM	1	0	18.76	18.60	18.62	18.66				
10	25GQAM	1	25	18.75	18.61	18.59	18.53				
10	25GQAM	1	49	18.72	18.70	18.63	18.67				
10	25GQAM	25	0	18.70	18.50	18.44	18.40	19	2.3		
10	25GQAM	25	12	18.45	18.38	18.30	18.22				
10	25GQAM	25	25	18.54	18.42	18.30	18.27				
10	25GQAM	50	0	18.51	18.46	18.52	18.38				
Channel				56285	56910	56160	56675	Turn-up limit (dBm)	MPE (dB)		
Frequency (MHz)				56285	56910	56160	56675				
5	QPSK	1	0	20.60	20.25	20.47	20.50	21.3	0		
5	QPSK	1	12	20.36	20.34	20.35	20.32				
5	QPSK	1	24	20.45	20.38	20.48	20.30				
5	QPSK	12	0	20.39	20.00	20.39	20.24				
5	QPSK	12	7	20.32	20.40	20.35	20.29	21.3	0		
5	QPSK	12	13	20.28	20.37	20.36	20.16				
5	QPSK	25	0	20.20	19.84	20.09	20.12				
5	HQAM	1	0	20.39	20.12	20.20	20.13				
5	HQAM	1	12	20.28	20.13	20.23	20.01	21.3	0		
5	HQAM	1	24	20.33	20.23	19.99	19.91				
5	HQAM	12	0	20.01	20.00	20.12	20.14				
5	HQAM	12	7	19.99	19.63	20.02	19.86				
5	HQAM	12	13	20.03	20.09	20.08	19.95	21.3	0		
5	HQAM	25	0	20.10	19.82	20.02	19.86				
5	HQAM	1	0	20.08	20.06	19.97	19.74				
5	HQAM	1	12	20.02	20.13	20.11	19.95				
5	HQAM	1	24	20.07	20.08	20.20	20.03	21	0.3		
5	HQAM	12	0	20.00	19.84	20.09	20.03				
5	HQAM	12	7	20.10	20.12	19.97	19.84				
5	HQAM	12	13	20.04	19.81	20.12	20.06				
5	25GQAM	25	0	18.92	18.62	18.62	18.66	19	2.3		
5	25GQAM	1	0	18.74	18.60	18.63	18.73				
5	25GQAM	1	12	18.76	18.64	18.65	18.50				
5	25GQAM	1	24	18.73	18.77	18.71	18.62				
5	25GQAM	12	0	18.63	18.43	18.43	18.37	19	2.3		
5	25GQAM	12	7	18.63	18.35	18.35	18.23				
5	25GQAM	12	13	18.53	18.47	18.30	18.28				
5	25GQAM	12	13	18.62	18.43	18.44	18.43				

Band 42 FCC Part27Q Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Channel	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel					42190	42590	42990	14.8	0
Frequency (MHz)					3450	3500	3550		
20	QPSK	1	0		13.75	13.87	13.73	14.8	0
20	QPSK	1	49		13.71	13.74	13.61		
20	QPSK	1	99		13.70	13.74	13.64		
20	QPSK	50	0		13.71	13.73	13.71		
20	QPSK	50	24		13.49	13.61	13.66		
20	QPSK	50	50		13.55	13.58	13.62	14.8	0
20	QPSK	100	0		13.50	13.52	13.42		
20	16QAM	1	0		13.50	13.53	13.57		
20	16QAM	1	49		13.51	13.51	13.45		
20	16QAM	1	99		13.56	13.67	13.42		
20	16QAM	50	0		13.20	13.28	13.44	14.8	0
20	16QAM	50	24		13.25	13.23	13.32		
20	16QAM	50	50		13.43	13.46	13.43		
20	16QAM	100	0		13.27	13.28	13.35		
20	64QAM	1	0		13.42	13.40	13.25		
20	64QAM	1	49		13.29	13.32	13.49	14.8	0
20	64QAM	1	99		13.22	13.33	13.34		
20	64QAM	50	0		13.23	13.23	13.34		
20	64QAM	50	24		13.35	13.43	13.34		
20	64QAM	50	50		13.32	13.33	13.41		
20	64QAM	100	0		13.16	13.30	13.40	14.8	0
20	256QAM	1	0		13.37	13.41	13.42		
20	256QAM	1	49		13.33	13.41	13.36		
20	256QAM	1	99		13.19	13.25	13.45		
20	256QAM	50	0		13.26	13.26	13.39		
20	256QAM	50	24		13.25	13.24	13.40	14.8	0
20	256QAM	50	50		13.20	13.25	13.39		
20	256QAM	100	0		13.35	13.37	13.39		
Channel					42469	42590	42615	14.8	MPR (dB)
Frequency (MHz)					3457.5	3500	3542.5		
15	QPSK	1	0		13.63	13.71	13.62	14.8	0
15	QPSK	1	37		13.67	13.65	13.48		
15	QPSK	1	74		13.60	13.63	13.56		
15	QPSK	36	0		13.65	13.68	13.62		
15	QPSK	36	20		13.38	13.50	13.51		
15	QPSK	36	39		13.49	13.51	13.49	14.8	0
15	QPSK	75	0		13.41	13.39	13.37		
15	16QAM	1	0		13.37	13.38	13.45		
15	16QAM	1	37		13.43	13.47	13.40		
15	16QAM	1	74		13.48	13.58	13.35		
15	16QAM	36	0		13.12	13.24	13.39	14.8	0
15	16QAM	36	20		13.18	13.18	13.17		
15	16QAM	36	39		13.32	13.31	13.33		
15	16QAM	75	0		13.18	13.19	13.20		
15	64QAM	1	0		13.32	13.28	13.14		
15	64QAM	1	37		13.21	13.21	13.38	14.8	0
15	64QAM	1	74		13.14	13.27	13.28		
15	64QAM	36	0		13.13	13.09	13.25		
15	64QAM	36	20		13.24	13.34	13.23		
15	64QAM	36	39		13.20	13.21	13.27		
15	64QAM	75	0		13.10	13.16	13.34	14.8	0
15	256QAM	1	0		13.33	13.27	13.30		
15	256QAM	1	37		13.25	13.30	13.27		
15	256QAM	1	74		13.10	13.19	13.30		
15	256QAM	36	0		13.16	13.17	13.25		
15	256QAM	36	20		13.17	13.15	13.36	14.8	0
15	256QAM	36	39		13.14	13.12	13.25		
15	256QAM	75	0		13.25	13.23	13.29		
Channel					42140	42590	43040	14.8	MPR (dB)
Frequency (MHz)					3455	3500	3545		
10	QPSK	1	0		13.69	13.79	13.67	14.8	0
10	QPSK	1	25		13.59	13.61	13.50		
10	QPSK	1	49		13.64	13.60	13.57		
10	QPSK	25	0		13.56	13.66	13.64		
10	QPSK	25	12		13.39	13.55	13.52		
10	QPSK	25	25		13.43	13.53	13.55	14.8	0
10	QPSK	50	0		13.43	13.42	13.37		
10	16QAM	1	0		13.45	13.48	13.42		
10	16QAM	1	25		13.38	13.42	13.36		
10	16QAM	1	49		13.43	13.60	13.25		
10	16QAM	25	0		13.09	13.20	13.33	14.8	0
10	16QAM	25	12		13.10	13.10	13.24		
10	16QAM	25	25		13.33	13.35	13.37		
10	16QAM	50	0		13.23	13.16	13.27		
10	64QAM	1	0		13.32	13.30	13.16		
10	64QAM	1	25		13.20	13.26	13.39	14.8	0
10	64QAM	1	49		13.17	13.25	13.25		
10	64QAM	25	0		13.10	13.09	13.26		
10	64QAM	25	12		13.21	13.36	13.22		
10	64QAM	25	25		13.27	13.25	13.30		
10	64QAM	50	0		13.03	13.16	13.25	14.8	0
10	256QAM	1	0		13.30	13.28	13.30		
10	256QAM	1	25		13.23	13.29	13.21		
10	256QAM	1	49		13.09	13.20	13.31		
10	256QAM	25	0		13.19	13.18	13.32		
10	256QAM	25	12		13.14	13.09	13.34	14.8	0
10	256QAM	25	25		13.09	13.20	13.27		
10	256QAM	50	0		13.25	13.30	13.27		
Channel					42115	42590	43065	14.8	MPR (dB)
Frequency (MHz)					3452.5	3500	3547.5		
5	QPSK	1	0		13.67	13.62	13.61	14.8	0
5	QPSK	1	12		13.58	13.65	13.48		
5	QPSK	1	24		13.64	13.67	13.53		
5	QPSK	12	0		13.67	13.64	13.62		
5	QPSK	12	7		13.44	13.48	13.61		
5	QPSK	12	13		13.45	13.42	13.55	14.8	0
5	QPSK	25	0		13.40	13.41	13.33		
5	16QAM	1	0		13.45	13.41	13.45		
5	16QAM	1	12		13.43	13.46	13.43		
5	16QAM	1	24		13.42	13.63	13.32		
5	16QAM	12	0		13.06	13.17	13.39	14.8	0
5	16QAM	12	7		13.17	13.16	13.21		
5	16QAM	12	13		13.36	13.38	13.27		
5	16QAM	25	0		13.15	13.14	13.30		
5	64QAM	1	0		13.35	13.28	13.09		
5	64QAM	1	12		13.16	13.27	13.38	14.8	0
5	64QAM	1	24		13.16	13.24	13.23		
5	64QAM	12	0		13.15	13.13	13.28		
5	64QAM	12	7		13.25	13.31	13.28		
5	64QAM	12	13		13.16	13.25	13.32		
5	256QAM	25	0		13.04	13.23	13.36	14.8	0
5	256QAM	1	0		13.23	13.35	13.33		
5	256QAM	1	12		13.24	13.30	13.22		
5	256QAM	1	24		13.04	13.16	13.30		
5	256QAM	12	0		13.12	13.10	13.31		
5	256QAM	12	7		13.15	13.20	13.27	14.8	0
5	256QAM	12	13		13.13	13.20	13.31		
5	256QAM	25	0		13.22	13.29	13.27		

Band 48_FCC Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56680		
Frequency (MHz)				35570	36070	36442	36950		
20	QPSK	1	0	13.26	13.36	13.33	13.13	14.7	0
20	QPSK	1	49	13.32	13.30	13.19	13.16		
20	QPSK	1	99	13.23	13.32	13.19	13.15		
20	QPSK	50	0	13.84	13.31	13.20	13.15		
20	QPSK	50	24	13.20	13.07	13.24	13.11	14.7	0
20	QPSK	50	50	13.14	13.12	13.18	13.10		
20	QPSK	100	0	12.98	13.09	12.94	12.89		
20	16QAM	1	0	13.09	13.09	13.11	12.83		
20	16QAM	1	49	12.96	13.02	13.00	12.92	14.7	0
20	16QAM	1	99	12.95	13.18	12.92	12.80		
20	16QAM	50	0	13.01	12.82	13.02	12.96		
20	16QAM	50	24	12.86	12.75	12.85	12.73		
20	16QAM	50	50	12.93	12.95	13.01	12.81	14.7	0
20	16QAM	100	0	12.80	12.88	12.91	12.80		
20	64QAM	1	0	13.05	12.96	12.82	12.76		
20	64QAM	1	49	13.04	12.88	12.98	12.83		
20	64QAM	1	99	13.08	12.81	12.96	12.82	14.7	0
20	64QAM	50	0	12.76	12.80	12.92	12.82		
20	64QAM	50	24	13.06	12.95	12.92	12.70		
20	64QAM	50	50	12.83	12.87	12.95	12.82		
20	84QAM	1	0	12.89	12.76	12.96	12.80	14.7	0
20	256QAM	1	0	12.86	12.87	12.88	12.82		
20	256QAM	1	49	12.93	12.91	12.86	12.80		
20	256QAM	1	99	13.01	12.74	13.01	12.82		
20	256QAM	50	0	13.06	12.74	12.97	12.82	14.7	0
20	256QAM	50	24	12.98	12.84	12.93	12.88		
20	256QAM	50	50	12.92	12.78	12.91	12.73		
20	256QAM	100	0	12.92	12.92	13.00	12.82		
Channel				55315	55820	56160	56692	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.5	3608	36442	3695.5		
15	QPSK	1	0	13.14	13.23	13.22	13.06	14.7	0
15	QPSK	1	37	13.17	13.19	13.14	13.07		
15	QPSK	1	74	13.16	13.17	13.10	13.03		
15	QPSK	36	0	12.93	13.27	13.16	13.08		
15	QPSK	36	20	13.13	12.91	13.09	12.97	14.7	0
15	QPSK	36	39	13.04	13.00	13.04	12.98		
15	QPSK	75	0	12.87	12.97	12.82	12.80		
15	16QAM	1	0	13.00	13.04	13.09	12.84		
15	16QAM	1	37	12.86	12.88	12.94	12.84	14.7	0
15	16QAM	1	74	12.88	13.11	12.76	13.03		
15	16QAM	36	0	12.93	12.74	12.95	13.10		
15	16QAM	36	20	12.74	13.10	12.75	13.11		
15	16QAM	36	39	12.82	13.09	12.96	12.76	14.7	0
15	16QAM	75	0	12.76	13.06	12.84	12.74		
15	84QAM	1	0	12.82	12.85	12.78	13.04		
15	84QAM	1	37	12.94	12.80	12.96	13.14		
15	84QAM	1	74	12.94	12.71	12.85	13.08	14.7	0
15	84QAM	36	0	13.05	12.70	12.87	12.76		
15	84QAM	36	20	13.10	12.81	12.78	13.10		
15	84QAM	36	39	13.13	12.71	12.96	13.11		
15	84QAM	75	0	12.81	13.10	12.86	13.08	14.7	0
15	256QAM	1	0	12.73	13.12	12.80	12.74		
15	256QAM	1	37	12.84	13.14	12.72	13.04		
15	256QAM	1	74	12.84	13.06	12.96	13.09		
15	256QAM	36	0	13.01	13.12	12.85	13.09	14.7	0
15	256QAM	36	20	12.72	13.09	12.89	13.10		
15	256QAM	36	39	12.86	12.73	12.77	13.14		
15	256QAM	75	0	12.87	12.76	12.95	13.08		
Channel				55290	55815	56165	56690	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3655	3607.5	3644.5	3695		
10	QPSK	1	0	13.12	13.30	13.26	13.09	14.7	0
10	QPSK	1	25	13.17	13.17	13.03	13.05		
10	QPSK	1	49	13.16	13.27	13.09	13.08		
10	QPSK	25	0	12.89	13.17	13.12	13.11		
10	QPSK	25	12	13.12	12.98	13.17	12.98	14.7	0
10	QPSK	25	25	13.06	13.02	13.02	12.87		
10	QPSK	50	0	12.86	13.00	12.86	12.85		
10	16QAM	1	0	13.04	13.04	13.04	12.83		
10	16QAM	1	25	12.89	12.92	12.94	12.85	14.7	0
10	16QAM	1	49	12.80	13.06	12.78	13.03		
10	16QAM	25	0	12.85	12.77	12.95	13.06		
10	16QAM	25	12	12.75	13.11	12.70	13.11		
10	16QAM	25	25	12.78	13.14	12.89	12.72	14.7	0
10	16QAM	50	0	12.75	13.05	12.78	13.01		
10	84QAM	1	0	12.97	12.84	13.08	13.07		
10	84QAM	1	25	12.94	12.72	13.09	13.11		
10	84QAM	1	49	13.02	13.08	13.09	12.77	14.7	0
10	84QAM	25	0	13.10	13.05	12.84	12.70		
10	84QAM	25	12	13.09	13.06	12.96	13.02		
10	84QAM	25	25	13.05	12.73	12.89	13.14		
10	84QAM	50	0	12.85	13.05	12.93	13.15	14.7	0
10	256QAM	1	0	12.79	13.05	12.72	13.15		
10	256QAM	1	25	12.84	13.10	12.92	13.07		
10	256QAM	1	49	12.96	13.05	12.86	13.03		
10	256QAM	25	0	12.85	13.10	12.81	13.07	14.7	0
10	256QAM	25	12	12.83	13.12	12.80	13.02		
10	256QAM	25	25	12.84	13.06	12.76	13.04		
10	256QAM	50	0	12.83	13.06	12.88	13.07		
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	13.11	13.23	13.26	13.06	14.7	0
5	QPSK	1	12	13.26	13.25	13.05	13.05		
5	QPSK	1	24	13.07	13.20	13.13	13.06		
5	QPSK	12	0	12.80	13.21	13.05	13.06		
5	QPSK	12	7	13.12	12.93	13.13	12.89	14.7	0
5	QPSK	12	13	12.99	13.02	13.04	12.98		
5	QPSK	25	0	12.93	13.04	12.79	12.79		
5	16QAM	1	0	13.02	12.94	13.00	12.80		
5	16QAM	1	12	12.83	12.93	12.89	12.85	14.7	0
5	16QAM	1	24	12.85	13.06	12.79	13.04		
5	16QAM	12	0	12.95	12.78	12.93	13.15		
5	16QAM	12	7	12.78	13.10	12.71	13.09		
5	16QAM	12	13	12.84	13.09	12.95	13.01	14.7	0
5	16QAM	25	0	12.75	13.14	12.81	13.13		
5	84QAM	1	0	12.94	12.91	13.05	13.15		
5	84QAM	1	12	13.00	12.80	13.10	12.75		
5	84QAM	1	24	13.00	13.11	13.03	12.73	14.7	0
5	84QAM	12	0	13.01	13.11	12.77	13.06		
5	84QAM	12	7	13.14	13.10	12.79	13.12		
5	84QAM	12	13	13.12	12.81	12.83	13.05		
5	256QAM	25	0	12.78	13.06	12.89	13.09	14.7	0
5	256QAM	1	0	12.79	13.06	12.73	13.05		
5	256QAM	1	12	12.79	13.10	12.70	13.10		
5	256QAM	1	24	12.85	13.04	12.91	13.12		
5	256QAM	12	0	12.98	13.15	12.93	13.02	14.7	0
5	256QAM	12	7	12.76	13.14	12.92	13.12		
5	256QAM	12	13	12.87	12.71	12.84	13.13		
5	256QAM	25	0	12.81	12.87	12.84	13.06		

Band 42 FCC Part27Q Ant 6												
BW (MHz)	Modulation	RB Size	RB Offset	Channel	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)			
				Channel	42190	42590	42990					
				Frequency (MHz)	3400	3500	3540					
20	QPSK	1	0	18.27	18.26	18.21		19.8	0			
20	QPSK	1	49	18.21	18.18	18.05						
20	QPSK	1	99	18.20	18.24	18.23						
20	QPSK	50	0	18.20	18.22	18.17						
20	QPSK	50	24	18.19	18.07	18.11		19.8	0			
20	QPSK	50	50	18.12	18.09	18.12						
20	QPSK	100	0	17.94	18.00	17.87						
20	16QAM	1	0	17.86	18.05	18.01		19.8	0			
20	16QAM	1	49	17.97	17.98	17.98						
20	16QAM	1	99	17.85	18.20	17.89						
20	16QAM	50	0	18.06	17.81	17.98						
20	16QAM	50	24	17.84	17.86	17.91		19.8	0			
20	16QAM	50	50	17.99	18.00	18.02						
20	16QAM	100	0	17.93	17.84	18.01						
20	64QAM	1	0	18.03	18.05	17.89		19.8	0			
20	64QAM	1	49	18.08	17.85	18.00						
20	64QAM	1	99	18.07	17.94	17.95						
20	64QAM	50	0	17.85	17.83	17.98						
20	64QAM	50	24	18.03	18.02	17.88		19.8	0			
20	64QAM	50	50	17.86	17.93	17.93						
20	64QAM	100	0	17.98	17.88	18.01						
20	256QAM	1	0	16.93	16.95	17.00		18	1.8			
20	256QAM	1	49	16.82	16.90	16.79						
20	256QAM	1	99	16.95	16.84	16.91						
20	256QAM	50	0	16.72	16.83	16.84						
20	256QAM	50	24	16.57	16.71	16.48		18	1.8			
20	256QAM	50	50	16.67	16.74	16.53						
20	256QAM	100	0	16.76	16.71	16.62						
				Channel	42165	42590	43015					
				Frequency (MHz)	3427.5	3500	3542.5					
15	QPSK	1	0	18.06	18.17	18.10		19.8	0			
15	QPSK	1	37	18.15	18.07	17.98						
15	QPSK	1	74	18.05	18.09	18.17						
15	QPSK	36	0	17.92	18.13	18.12						
15	QPSK	36	20	18.03	17.95	17.97		19.8	0			
15	QPSK	36	39	17.94	18.03	18.05						
15	QPSK	75	0	17.82	18.00	17.91						
15	16QAM	1	0	17.96	18.02	18.00						
15	16QAM	1	37	17.95	17.98	17.94		19.8	0			
15	16QAM	1	74	17.85	18.26	17.92						
15	16QAM	36	0	18.05	17.85	18.00						
15	16QAM	36	20	17.88	17.83	17.95		19.8	0			
15	16QAM	36	39	17.95	17.98	18.05						
15	16QAM	75	0	17.95	17.80	17.99						
15	64QAM	1	0	18.00	18.09	17.90		19.8	0			
15	64QAM	1	37	18.04	17.87	18.02						
15	64QAM	1	74	18.11	17.92	17.98						
15	64QAM	36	0	17.83	17.86	18.00						
15	64QAM	36	20	18.07	18.00	17.88		19.8	0			
15	64QAM	36	39	17.89	17.92	17.87						
15	64QAM	75	0	18.03	17.84	18.00						
15	256QAM	1	0	16.90	16.95	16.98		18	1.8			
15	256QAM	1	37	16.80	16.88	16.79						
15	256QAM	1	74	16.87	16.83	16.90						
15	256QAM	36	0	16.61	16.78	16.63						
15	256QAM	36	20	16.47	16.70	16.45		18	1.8			
15	256QAM	36	39	16.63	16.66	16.45						
15	256QAM	75	0	16.69	16.69	16.55						
				Channel	42140	42590	43040					
				Frequency (MHz)	3455	3500	3545					
10	QPSK	1	0	18.05	18.06	18.01		19.8	0			
10	QPSK	1	25	17.84	17.97	17.83						
10	QPSK	1	49	17.91	18.08	18.03						
10	QPSK	25	0	17.86	17.97	18.01						
10	QPSK	25	12	17.95	17.83	17.92		19.8	0			
10	QPSK	25	25	17.85	17.85	17.88						
10	QPSK	50	0	17.98	17.95	17.89						
10	16QAM	1	0	17.98	18.04	18.04						
10	16QAM	1	25	17.93	18.04	17.99		19.8	0			
10	16QAM	1	49	17.81	18.23	17.90						
10	16QAM	25	0	18.07	17.87	17.90						
10	16QAM	25	12	17.89	17.91	17.92		19.8	0			
10	16QAM	25	25	18.01	18.01	18.01						
10	16QAM	50	0	17.89	17.87	17.97						
10	64QAM	1	0	18.01	18.03	17.85		19.8	0			
10	64QAM	1	25	18.11	17.90	18.00						
10	64QAM	1	49	18.09	17.97	17.90						
10	64QAM	25	0	17.84	17.88	18.02						
10	64QAM	25	12	18.03	18.06	17.91		19.8	0			
10	64QAM	25	25	17.87	17.91	17.94						
10	64QAM	50	0	17.92	17.90	18.00						
10	256QAM	1	0	16.87	16.90	16.97		18	1.8			
10	256QAM	1	25	16.76	16.82	16.71						
10	256QAM	1	49	16.92	16.79	16.83						
10	256QAM	25	0	16.84	16.80	16.53						
10	256QAM	25	12	16.53	16.68	16.48		18	1.8			
10	256QAM	25	25	16.60	16.71	16.48						
10	256QAM	50	0	16.75	16.61	16.59						
				Channel	42115	42590	43065					
				Frequency (MHz)	3452.5	3500	3547.5					
5	QPSK	1	0	18.03	18.14	18.02		19.8	0			
5	QPSK	1	12	17.94	18.02	17.87						
5	QPSK	1	24	17.95	18.06	18.02						
5	QPSK	12	0	17.85	18.02	17.97						
5	QPSK	12	7	17.88	17.89	17.95		19.8	0			
5	QPSK	12	13	17.86	17.93	17.95						
5	QPSK	25	0	17.89	17.97	17.82						
5	16QAM	1	0	17.99	18.10	18.05		19.8	0			
5	16QAM	1	12	18.02	18.03	17.95						
5	16QAM	1	24	17.86	18.17	17.94						
5	16QAM	12	0	18.05	17.87	18.01						
5	16QAM	12	7	17.80	17.89	17.93		19.8	0			
5	16QAM	12	13	17.99	18.04	18.05						
5	16QAM	25	0	17.88	17.89	18.02						
5	64QAM	1	0	17.99	18.00	17.92		19.8	0			
5	64QAM	1	12	18.10	17.82	17.97						
5	64QAM	1	24	18.11	17.89	17.98						
5	64QAM	12	0	17.81	17.88	17.96						
5	64QAM	12	7	18.06	18.06	17.93		19.8	0			
5	64QAM	12	13	17.91	17.93	17.89						
5	64QAM	25	0	17.82	17.84	17.90						
5	256QAM	1	0	16.92	16.94	16.92		18	1.8			
5	256QAM	1	12	16.71	16.82	16.69						
5	256QAM	1	24	16.89	16.77	16.90						
5	256QAM	12	0	16.70	16.76	16.55						
5	256QAM	12	7	16.53	16.68	16.39		18	1.8			
5	256QAM	12	13	16.84	16.64	16.50						
5	256QAM	25	0	16.68	16.70	16.52						

Band 48_FCC Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56680		
Frequency (MHz)				3500	3600	3643	3695		
20	QPSK	1	0	18.80	18.90	18.90	18.91	20	0
20	QPSK	1	49	18.77	18.87	18.90	18.84		
20	QPSK	1	99	18.80	18.90	18.91	18.90		
20	QPSK	50	0	18.84	18.70	18.94	18.85		
20	QPSK	50	24	18.86	18.85	18.71	18.77	20	0
20	QPSK	50	50	18.83	18.83	18.81	18.78		
20	QPSK	100	0	18.42	18.60	18.70	18.57		
20	16QAM	1	0	18.58	18.74	18.72	18.73		
20	16QAM	1	49	18.66	18.66	18.72	18.64	20	0
20	16QAM	1	99	18.66	18.62	18.80	18.59		
20	16QAM	50	0	18.58	18.71	18.48	18.57		
20	16QAM	50	24	18.42	18.51	18.39	18.47		
20	16QAM	50	50	18.58	18.59	18.63	18.59	20	0
20	16QAM	100	0	18.34	18.51	18.50	18.60		
20	64QAM	1	0	18.67	18.58	18.61	18.39		
20	64QAM	1	49	18.67	18.62	18.52	18.60		
20	64QAM	1	99	18.51	18.74	18.55	18.51	20	0
20	64QAM	50	0	18.63	18.63	18.69	18.49		
20	64QAM	50	24	18.46	18.51	18.56	18.46		
20	64QAM	50	50	18.54	18.54	18.46	18.43		
20	84QAM	100	0	18.50	18.57	18.59	18.47	18	2
20	256QAM	1	0	16.76	16.82	16.79	16.86		
20	256QAM	1	49	16.79	16.83	16.81	16.69		
20	256QAM	1	99	16.74	16.74	16.80	16.86		
20	256QAM	50	0	16.51	16.59	16.60	16.48	18	2
20	256QAM	50	24	16.47	16.50	16.57	16.39		
20	256QAM	50	50	16.54	16.52	16.58	16.48		
20	256QAM	100	0	16.55	16.53	16.63	16.51		
Channel				55315	55620	56160	56660	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.5	3600	3642	3695.5		
15	QPSK	1	0	18.70	18.82	18.98	18.82	20	0
15	QPSK	1	37	18.63	18.71	18.84	18.76		
15	QPSK	1	74	18.75	18.81	18.82	18.77		
15	QPSK	36	0	18.58	18.66	18.80	18.75		
15	QPSK	36	20	18.81	18.74	18.66	18.62	20	0
15	QPSK	36	39	18.77	18.78	18.69	18.67		
15	QPSK	75	0	18.34	18.51	18.57	18.49		
15	16QAM	1	0	18.43	18.60	18.56	18.68		
15	16QAM	1	37	18.58	18.52	18.57	18.56	20	0
15	16QAM	1	74	18.58	18.49	18.76	18.48		
15	16QAM	36	0	18.52	18.60	18.35	18.45		
15	16QAM	36	20	18.31	18.43	18.35	18.24		
15	16QAM	36	39	18.48	18.44	18.58	18.51	20	0
15	16QAM	75	0	18.21	18.44	18.42	18.46		
15	84QAM	1	0	18.52	18.45	18.47	18.34		
15	84QAM	1	37	18.42	18.49	18.41	18.45		
15	64QAM	1	74	18.43	18.60	18.50	18.38	20	0
15	64QAM	36	0	18.67	18.62	18.63	18.47		
15	64QAM	36	20	18.42	18.50	18.46	18.40		
15	64QAM	36	39	18.50	18.52	18.42	18.39		
15	64QAM	75	0	18.46	18.49	18.57	18.41	18	2
15	256QAM	1	0	16.67	16.81	16.67	16.81		
15	256QAM	1	37	16.76	16.72	16.73	16.61		
15	256QAM	1	74	16.83	16.73	16.78	16.77		
15	256QAM	36	0	16.41	16.57	16.50	16.42	18	2
15	256QAM	36	20	16.44	16.47	16.49	16.37		
15	256QAM	36	39	16.50	16.40	16.47	16.36		
15	256QAM	75	0	16.52	16.49	16.52	16.49		
Channel				55260	55815	56165	56660	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3655	3607.5	3642.5	3695		
10	QPSK	1	0	18.71	18.76	18.90	18.77	20	0
10	QPSK	1	25	18.61	18.76	18.76	18.73		
10	QPSK	1	49	18.65	18.76	18.80	18.83		
10	QPSK	25	0	18.53	18.63	18.82	18.70		
10	QPSK	25	12	18.72	18.74	18.64	18.71	20	0
10	QPSK	25	25	18.69	18.73	18.71	18.67		
10	QPSK	50	0	18.30	18.52	18.62	18.45		
10	16QAM	1	0	18.48	18.64	18.62	18.62		
10	16QAM	1	25	18.53	18.56	18.57	18.52	20	0
10	16QAM	1	49	18.58	18.53	18.65	18.47		
10	16QAM	25	0	18.46	18.57	18.38	18.51		
10	16QAM	25	12	18.35	18.44	18.24	18.33		
10	16QAM	25	25	18.42	18.47	18.49	18.54	20	0
10	16QAM	50	0	18.26	18.43	18.34	18.51		
10	84QAM	1	0	18.41	18.47	18.51	18.26		
10	84QAM	1	25	18.49	18.53	18.47	18.56		
10	64QAM	1	49	18.44	18.66	18.47	18.46	20	0
10	64QAM	25	0	18.52	18.58	18.67	18.43		
10	64QAM	25	12	18.45	18.46	18.48	18.42		
10	64QAM	25	25	18.51	18.51	18.45	18.34		
10	64QAM	50	0	18.48	18.52	18.57	18.37	18	2
10	256QAM	1	0	16.68	16.79	16.75	16.77		
10	256QAM	1	25	16.76	16.75	16.72	16.61		
10	256QAM	1	49	16.68	16.67	16.78	16.75		
10	256QAM	25	0	16.44	16.53	16.54	16.38	18	2
10	256QAM	25	12	16.38	16.40	16.48	16.28		
10	256QAM	25	25	16.50	16.47	16.50	16.43		
10	256QAM	50	0	16.45	16.44	16.56	16.48		
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3600	3643	3697.5		
5	QPSK	1	0	18.73	18.79	18.92	18.83	20	0
5	QPSK	1	12	18.61	18.80	18.85	18.69		
5	QPSK	1	24	18.73	18.80	18.83	18.74		
5	QPSK	12	0	18.66	18.56	18.79	18.80		
5	QPSK	12	7	18.73	18.70	18.57	18.65	20	0
5	QPSK	12	13	18.77	18.67	18.75	18.67		
5	QPSK	25	0	18.29	18.48	18.63	18.41		
5	16QAM	1	0	18.43	18.59	18.60	18.58		
5	16QAM	1	12	18.54	18.58	18.66	18.57	20	0
5	16QAM	1	24	18.56	18.49	18.69	18.47		
5	16QAM	12	0	18.44	18.59	18.42	18.47		
5	16QAM	12	7	18.28	18.41	18.29	18.42		
5	16QAM	12	13	18.48	18.51	18.54	18.50	20	0
5	16QAM	25	0	18.23	18.39	18.42	18.45		
5	84QAM	1	0	18.46	18.49	18.58	18.26		
5	84QAM	1	12	18.43	18.53	18.43	18.52		
5	84QAM	1	24	18.35	18.68	18.47	18.43	20	0
5	84QAM	12	0	18.39	18.54	18.61	18.42		
5	84QAM	12	7	18.42	18.51	18.48	18.44		
5	84QAM	12	13	18.49	18.51	18.37	18.40		
5	256QAM	25	0	16.64	16.82	16.72	16.85	18	2
5	256QAM	1	12	16.77	16.80	16.70	16.64		
5	256QAM	1	24	16.85	16.73	16.71	16.83		
5	256QAM	12	0	16.42	16.58	16.49	16.40		
5	256QAM	12	7	16.38	16.48	16.53	16.37	18	2
5	256QAM	12	13	16.51	16.45	16.53	16.40		
5	256QAM	25	0	16.48	16.43	16.57	16.50		

Band 42 FCC Part27Q Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					42190	42590	42990		
Frequency (MHz)					3400	3500	3550		
20	QPSK	1	0		16.89	16.72	16.61	17.9	0
20	QPSK	1	49		16.66	16.64	16.53		
20	QPSK	1	99		16.62	16.57	16.54		
20	QPSK	50	0		16.89	16.64	16.57		
20	QPSK	50	24		16.54	16.55	16.48	17.9	0
20	QPSK	50	50		16.44	16.51	16.48		
20	QPSK	100	0		16.40	16.41	16.31		
20	16QAM	1	0		16.29	16.33	16.31		
20	16QAM	1	49		16.27	16.34	16.42	17.9	0
20	16QAM	1	99		16.08	16.09	16.28		
20	16QAM	50	0		16.07	16.08	16.26		
20	16QAM	50	24		16.12	16.13	16.20		
20	16QAM	50	50		16.31	16.31	16.35	17.9	0
20	16QAM	100	0		16.17	16.21	16.31		
20	64QAM	1	0		16.28	16.34	16.12		
20	64QAM	1	49		16.13	16.24	16.29		
20	64QAM	1	99		16.19	16.25	16.28	17.9	0
20	64QAM	50	0		16.14	16.14	16.22		
20	64QAM	50	24		16.35	16.22	16.12		
20	64QAM	50	50		16.20	16.19	16.30		
20	64QAM	100	0		16.00	16.07	16.33	17.8	0.1
20	256QAM	1	0		16.21	16.19	16.30		
20	256QAM	1	49		16.36	16.20	16.24		
20	256QAM	1	99		16.06	16.04	16.31		
20	256QAM	1	74		16.05	16.18	16.29	17.8	0.1
20	256QAM	50	24		16.05	16.05	16.32		
20	256QAM	50	50		16.04	16.12	16.20		
20	256QAM	100	0		16.21	16.27	16.18		
Channel					42190	42590	42990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3457.5	3500	3542.5		
15	QPSK	1	0		16.49	16.44	16.58	17.9	0
15	QPSK	1	37		16.56	16.53	16.48		
15	QPSK	1	74		16.55	16.51	16.50		
15	QPSK	36	0		16.50	16.48	16.48		
15	QPSK	36	20		16.36	16.29	16.37	17.9	0
15	QPSK	36	39		16.28	16.35	16.47		
15	QPSK	75	0		16.35	16.33	16.17		
15	16QAM	1	0		16.19	16.35	16.15		
15	16QAM	1	37		16.27	16.35	16.29	17.9	0
15	16QAM	1	74		16.04	15.98	16.11		
15	16QAM	36	0		15.90	15.97	16.15		
15	16QAM	36	20		15.96	16.04	15.97		
15	16QAM	36	39		16.13	16.17	16.17	17.9	0
15	16QAM	75	0		16.13	16.07	16.20		
15	64QAM	1	0		16.17	16.21	16.03		
15	64QAM	1	37		16.00	16.01	16.18		
15	64QAM	1	74		16.22	16.12	16.04	17.9	0
15	64QAM	36	0		16.03	15.99	16.12		
15	64QAM	36	20		16.24	16.12	16.08		
15	64QAM	36	39		16.09	16.00	16.22		
15	64QAM	75	0		16.04	15.97	16.15	17.8	0.1
15	256QAM	1	0		16.15	16.17	16.11		
15	256QAM	1	37		16.21	16.10	16.07		
15	256QAM	1	74		15.88	16.04	16.17		
15	256QAM	36	0		15.93	16.05	16.25	17.8	0.1
15	256QAM	36	20		16.06	15.93	16.13		
15	256QAM	36	39		16.00	16.06	16.22		
15	256QAM	75	0		16.13	16.19	16.17		
Channel					42140	42590	43040	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3455	3500	3545		
10	QPSK	1	0		16.53	16.65	16.56	17.9	0
10	QPSK	1	25		16.57	16.54	16.42		
10	QPSK	1	49		16.51	16.45	16.48		
10	QPSK	25	0		16.54	16.54	16.44		
10	QPSK	25	12		16.39	16.38	16.42	17.9	0
10	QPSK	25	25		16.29	16.38	16.49		
10	QPSK	50	0		16.31	16.32	16.19		
10	16QAM	1	0		16.27	16.31	16.29		
10	16QAM	1	25		16.18	16.23	16.29	17.9	0
10	16QAM	1	49		15.96	16.00	16.16		
10	16QAM	25	0		16.00	15.91	16.27		
10	16QAM	25	12		15.90	15.97	16.02		
10	16QAM	25	25		16.14	16.24	16.22	17.9	0
10	16QAM	50	0		16.13	16.14	16.08		
10	64QAM	1	0		16.27	16.24	16.07		
10	64QAM	1	25		16.06	16.03	16.34		
10	64QAM	1	49		16.05	16.10	16.15	17.9	0
10	64QAM	25	0		16.13	16.03	16.16		
10	64QAM	25	12		16.18	16.22	16.12		
10	64QAM	25	25		16.17	16.08	16.15		
10	64QAM	50	0		15.86	15.90	16.26	17.8	0.1
10	256QAM	1	0		16.18	16.17	16.14		
10	256QAM	1	25		16.26	16.20	15.96		
10	256QAM	1	49		15.90	15.91	16.18		
10	256QAM	25	0		15.97	15.95	16.20	17.8	0.1
10	256QAM	25	12		15.91	16.04	16.22		
10	256QAM	25	25		15.97	16.08	16.11		
10	256QAM	50	0		16.10	16.21	16.07		
Channel					42115	42590	43065	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3452.5	3500	3547.5		
5	QPSK	1	0		16.50	16.54	16.63	17.9	0
5	QPSK	1	12		16.45	16.54	16.50		
5	QPSK	1	24		16.52	16.54	16.47		
5	QPSK	12	0		16.41	16.56	16.45		
5	QPSK	12	7		16.35	16.41	16.38	17.9	0
5	QPSK	12	13		16.30	16.46	16.42		
5	QPSK	25	0		16.32	16.29	16.25		
5	16QAM	1	0		16.31	16.23	16.21		
5	16QAM	1	12		16.32	16.26	16.29	17.9	0
5	16QAM	1	24		16.06	15.96	16.17		
5	16QAM	12	0		15.95	15.94	16.21		
5	16QAM	12	7		15.94	16.06	16.09		
5	16QAM	12	13		16.20	16.25	16.14	17.9	0
5	16QAM	25	0		16.17	16.05	16.07		
5	64QAM	1	0		16.14	16.20	15.99		
5	64QAM	1	12		16.11	16.10	16.19		
5	64QAM	1	24		16.19	16.09	16.12	17.9	0
5	64QAM	12	0		16.06	16.16	16.11		
5	64QAM	12	7		16.25	16.12	15.99		
5	64QAM	12	13		16.02	16.06	16.28		
5	256QAM	1	0		15.92	15.98	16.19	17.8	0.1
5	256QAM	1	12		16.15	16.17	16.17		
5	256QAM	1	24		15.94	15.97	16.19		
5	256QAM	12	0		15.98	15.98	16.28		
5	256QAM	12	7		15.92	15.97	16.14	17.8	0.1
5	256QAM	12	13		16.05	16.02	16.13		
5	256QAM	25	0		16.11	16.13	16.13		

Band 48_FCC Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3570	3609	3644	3684		
20	QPSK	1	0	16.43	16.32	16.11	16.22	17.7	0
20	QPSK	1	49	16.39	16.18	16.11	16.23		
20	QPSK	1	99	16.30	16.27	16.21	16.31		
20	QPSK	50	0	16.35	16.16	15.92	16.15		
20	QPSK	50	24	16.18	16.26	16.28	16.25	17.7	0
20	QPSK	50	50	16.16	16.08	16.20	16.22		
20	QPSK	100	0	16.06	15.84	15.82	15.95		
20	16QAM	1	0	16.02	16.05	15.99	16.17		
20	16QAM	1	49	16.07	16.06	16.09	16.12	17.7	0
20	16QAM	1	99	16.22	15.87	15.95	15.89		
20	16QAM	50	0	15.77	15.98	15.94	16.01		
20	16QAM	50	24	15.80	15.79	15.73	15.76		
20	16QAM	50	50	15.97	16.00	15.98	15.97	17.7	0
20	16QAM	100	0	15.85	15.99	15.75	15.79		
20	64QAM	1	0	16.01	15.86	15.92	16.00		
20	64QAM	1	49	15.87	16.02	15.95	16.07		
20	64QAM	1	99	15.90	15.85	15.95	16.11	17.7	0
20	64QAM	50	0	15.84	15.92	15.79	15.88		
20	64QAM	50	24	16.00	15.97	16.02	16.03		
20	64QAM	50	50	15.88	16.04	15.71	15.79		
20	64QAM	100	0	15.79	16.00	15.85	15.82	17.7	0
20	256QAM	1	0	15.87	15.88	15.77	15.72		
20	256QAM	1	49	16.07	15.88	15.97	15.96		
20	256QAM	1	99	15.75	16.02	15.94	16.01		
20	256QAM	50	0	15.73	15.93	15.97	16.04	17.7	0
20	256QAM	50	24	15.82	16.00	15.83	16.00		
20	256QAM	50	50	15.75	16.01	15.75	16.01		
20	256QAM	100	0	15.81	15.91	15.79	15.93		
Channel				35815	36305	36629	36950	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	16.26	16.29	16.11	16.08	17.7	0
15	QPSK	1	37	16.32	16.10	16.05	16.15		
15	QPSK	1	74	16.22	16.26	16.08	16.20		
15	QPSK	36	0	16.24	16.07	15.79	15.83		
15	QPSK	36	20	16.14	16.06	16.09	16.06	17.7	0
15	QPSK	36	39	16.10	16.06	16.07	16.20		
15	QPSK	75	0	15.88	15.72	15.71	15.74		
15	16QAM	1	0	15.93	15.99	15.93	16.06		
15	16QAM	1	37	15.99	15.99	16.02	15.97	17.7	0
15	16QAM	1	74	16.14	15.83	15.94	15.84		
15	16QAM	36	0	16.36	16.22	16.08	16.19		
15	16QAM	36	20	16.28	16.06	16.05	16.16		
15	16QAM	36	39	16.18	16.17	16.10	16.30	17.7	0
15	16QAM	75	0	16.28	16.04	15.81	16.13		
15	64QAM	1	0	16.15	16.15	16.23	16.20		
15	64QAM	1	37	16.05	16.01	16.11	16.16		
15	64QAM	1	74	15.95	15.76	15.81	15.84	17.7	0
15	64QAM	36	0	16.36	16.23	16.07	16.10		
15	64QAM	36	20	16.28	16.14	16.04	16.18		
15	64QAM	36	39	16.21	16.27	16.11	16.22		
15	64QAM	75	0	16.25	16.11	15.87	16.07	17.7	0
15	256QAM	1	0	16.35	16.31	15.99	16.13		
15	256QAM	1	37	16.28	16.06	16.08	16.13		
15	256QAM	1	74	16.21	16.21	16.16	16.31		
15	256QAM	36	0	16.27	16.14	15.82	16.11	17.7	0
15	256QAM	36	20	16.14	16.20	16.15	16.25		
15	256QAM	36	39	16.06	16.02	16.16	16.16		
15	256QAM	75	0	15.97	15.82	15.74	15.82		
Channel				35260	35815	36165	36690	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	16.29	16.30	16.02	16.08	17.7	0
10	QPSK	1	25	16.30	16.07	16.01	16.15		
10	QPSK	1	49	16.22	16.25	16.13	16.23		
10	QPSK	25	0	16.13	16.07	15.91	15.93		
10	QPSK	25	12	15.99	16.18	16.12	16.12	17.7	0
10	QPSK	25	25	16.07	16.02	16.17	16.20		
10	QPSK	50	0	15.90	15.80	15.72	15.85		
10	16QAM	1	0	16.00	15.96	15.79	16.04		
10	16QAM	1	25	15.97	15.97	15.94	15.98	17.7	0
10	16QAM	1	49	16.07	15.72	15.82	15.84		
10	16QAM	25	0	16.36	16.23	16.02	16.15		
10	16QAM	25	12	16.37	16.08	16.05	16.23		
10	16QAM	25	25	16.27	16.18	16.18	16.23	17.7	0
10	16QAM	50	0	16.27	16.12	15.80	16.10		
10	64QAM	1	0	16.11	16.18	16.23	16.19		
10	64QAM	1	25	16.15	16.03	16.12	16.11		
10	64QAM	1	49	15.87	15.76	15.78	15.83	17.7	0
10	64QAM	25	0	16.32	16.30	16.04	16.12		
10	64QAM	25	12	16.36	16.13	16.07	16.12		
10	64QAM	25	25	16.26	16.19	16.18	16.26		
10	64QAM	50	0	16.23	16.09	15.82	16.12	17.7	0
10	256QAM	1	0	16.34	16.23	16.09	16.20		
10	256QAM	1	25	16.36	16.06	16.01	16.23		
10	256QAM	1	49	16.22	16.18	16.19	16.27		
10	256QAM	25	0	16.25	16.10	15.82	16.11	17.7	0
10	256QAM	25	12	16.11	16.25	16.16	16.14		
10	256QAM	25	25	16.11	16.04	16.11	16.11		
10	256QAM	50	0	15.97	15.74	15.72	15.84		
Channel				55265	55810	56179	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	16.33	16.32	15.92	16.10	17.7	0
5	QPSK	1	12	16.23	16.04	16.09	16.26		
5	QPSK	1	24	16.23	16.14	16.03	16.13		
5	QPSK	12	0	16.22	16.08	15.82	15.99		
5	QPSK	12	7	16.11	16.14	16.16	16.16	17.7	0
5	QPSK	12	13	16.09	15.85	16.11	16.17		
5	QPSK	25	0	15.94	15.76	15.72	15.89		
5	16QAM	1	0	15.98	15.98	15.86	16.04		
5	16QAM	1	12	15.87	15.97	15.95	15.96	17.7	0
5	16QAM	1	24	16.07	15.71	15.85	15.77		
5	16QAM	12	0	16.32	16.26	16.11	16.16		
5	16QAM	12	7	16.37	16.10	16.01	16.15		
5	16QAM	12	13	16.25	16.26	16.12	16.21	17.7	0
5	16QAM	25	0	16.35	16.07	15.90	16.06		
5	64QAM	1	0	16.13	16.15	16.17	16.23		
5	64QAM	1	12	16.08	16.00	16.09	16.13		
5	64QAM	1	24	16.01	15.84	15.79	15.86	17.7	0
5	64QAM	12	0	16.40	16.23	16.02	16.19		
5	64QAM	12	7	16.36	16.11	16.11	16.16		
5	64QAM	12	13	16.18	16.17	16.10	16.24		
5	256QAM	1	0	16.32	16.14	15.89	16.09	17.7	0
5	256QAM	1	12	16.28	16.08	16.02	16.14		
5	256QAM	1	24	16.27	16.15	16.16	16.30		
5	256QAM	12	0	16.24	16.14	15.84	16.05		
5	256QAM	12	7	16.09	16.14	16.22	16.21	17.7	0
5	256QAM	12	13	16.05	16.04	16.16	16.15		
5	256QAM	25	0	16.01	15.81	15.75	15.95		



Band 38 Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)				37465	38050	38150			
20	QPSK	1	0	17.10	17.25	17.20		18	0
20	QPSK	1	49	17.17	17.11	16.98			
20	QPSK	1	89	17.12	17.15	17.00			
20	QPSK	50	0	16.96	17.17	17.05			
20	QPSK	50	24	17.10	16.98	17.06		18	0
20	QPSK	50	50	17.02	16.99	16.97			
20	QPSK	100	0	16.82	16.98	16.76			
20	16QAM	1	0	16.98	16.94	16.96		18	0
20	16QAM	1	49	16.90	16.91	16.90			
20	16QAM	1	99	16.79	17.08	16.83			
20	16QAM	50	24	16.73	16.75	16.74			
20	16QAM	50	50	16.89	16.89	16.79		18	0
20	16QAM	100	0	16.85	16.88	16.77			
20	64QAM	1	0	16.90	16.87	16.71			
20	64QAM	1	49	16.86	16.86	16.87		18	0
20	64QAM	1	99	16.86	16.70	16.84			
20	64QAM	50	0	16.72	16.72	16.65			
20	64QAM	50	24	16.83	16.83	16.71			
20	64QAM	50	50	16.70	16.75	16.76		18	0
20	64QAM	100	0	16.74	16.79	16.80			
20	256QAM	1	0	16.83	16.72	16.85			
20	256QAM	1	49	16.72	16.75	16.80		18	0
20	256QAM	1	99	16.78	16.69	16.82			
20	256QAM	50	0	16.85	16.85	16.84			
20	256QAM	50	24	16.78	16.84	16.78		18	0
20	256QAM	50	50	16.80	16.89	16.89			
20	256QAM	100	0	16.80	16.89	16.79			
Channel									
Frequency (MHz)				37425	38050	38175	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	17.12	17.25	17.12			
15	QPSK	1	37	17.07	16.98	16.92		18	0
15	QPSK	1	74	17.08	17.00	16.90			
15	QPSK	36	0	16.81	17.09	16.90			
15	QPSK	36	20	16.96	16.82	17.00		18	0
15	QPSK	36	36	16.85	16.75	16.81			
15	QPSK	75	0	16.79	16.83	16.64			
15	16QAM	1	0	16.88	16.79	16.90			
15	16QAM	1	37	16.81	16.89	16.86		18	0
15	16QAM	1	74	16.75	16.99	16.76			
15	16QAM	36	0	16.72	16.89	16.83			
15	16QAM	36	20	16.83	16.82	16.75		18	0
15	16QAM	36	36	16.82	16.75	16.71			
15	16QAM	75	0	16.58	16.62	16.44			
15	64QAM	1	0	16.85	16.75	16.81			
15	64QAM	1	37	16.78	16.84	16.77		18	0
15	64QAM	1	74	16.52	16.59	16.69			
15	64QAM	36	0	16.59	16.64	16.59			
15	64QAM	36	20	16.72	16.75	16.66		18	0
15	64QAM	36	36	16.68	16.65	16.59			
15	64QAM	75	0	16.53	16.59	16.72			
15	256QAM	1	0	16.63	16.61	16.77			
15	256QAM	1	37	16.58	16.60	16.59		18	0
15	256QAM	1	74	16.73	16.49	16.70			
15	256QAM	36	0	16.72	16.62	16.76			
15	256QAM	36	20	16.85	16.75	16.76		18	0
15	256QAM	36	36	16.80	16.56	16.76			
15	256QAM	75	0	16.60	16.61	16.74			
Channel									
Frequency (MHz)				25715	25715	25815	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	17.01	17.01	17.01			
5	QPSK	1	25	17.09	17.01	16.91		18	0
5	QPSK	1	49	17.06	17.06	17.01			
5	QPSK	12	0	16.85	16.85	16.85			
5	QPSK	25	12	16.96	16.85	16.91		18	0
5	QPSK	25	25	16.84	16.91	16.92			
5	QPSK	25	37	16.94	16.85	16.85			
5	16QAM	1	0	16.86	16.88	16.89			
5	16QAM	1	25	16.86	16.81	16.90		18	0
5	16QAM	1	49	16.84	16.88	16.77			
5	16QAM	25	0	16.80	16.86	16.79			
5	16QAM	25	12	16.81	16.89	16.72		18	0
5	16QAM	25	25	16.75	16.79	16.87			
5	16QAM	50	0	16.61	16.63	16.68			
5	64QAM	1	0	16.80	16.76	16.87		18	0
5	64QAM	1	49	16.86	16.82	16.76			
5	64QAM	25	0	16.66	16.65	16.66			
5	64QAM	25	12	16.70	16.75	16.76		18	0
5	64QAM	25	25	16.56	16.63	16.69			
5	64QAM	50	0	16.59	16.62	16.69			
5	256QAM	1	0	16.68	16.66	16.73		18	0
5	256QAM	1	25	16.76	16.66	16.69			
5	256QAM	1	49	16.65	16.59	16.77			
5	256QAM	25	0	16.79	16.55	16.80			
5	256QAM	25	12	16.74	16.63	16.70		18	0
5	256QAM	25	25	16.77	16.62	16.70			
5	256QAM	50	0	16.76	16.59	16.66			

Band 41 Ant 10											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490			
20	QPSK	1	0	17.23	16.93	17.20	17.20	17.06			
20	QPSK	1	49	17.20	16.88	16.97	17.07	16.95			
20	QPSK	1	99	17.11	16.97	17.11	16.97	16.99			
20	QPSK	50	0	17.13	16.83	17.04	16.99	16.92			
20	QPSK	50	24	17.02	16.99	17.00	17.03	16.97			
20	QPSK	50	50	17.00	16.85	16.95	16.79	16.93			0
20	QPSK	100	0	16.91	16.82	16.79	16.74	16.89			
20	16QAM	1	0	17.00	16.82	16.93	16.84	16.92			
20	16QAM	1	49	16.97	16.88	16.85	16.79	16.93			
20	16QAM	1	99	17.04	16.85	16.72	16.70	16.92			
20	16QAM	50	24	16.93	16.74	16.83	16.82	16.93			
20	16QAM	50	50	16.85	16.80	16.76	16.85	16.93			
20	16QAM	100	0	16.89	16.76	16.80	16.66	16.88			
20	64QAM	1	0	16.99	16.84	16.92	16.87	16.95			
20	64QAM	1	49	16.85	16.78	16.89	16.65	16.88			
20	64QAM	1	99	16.73	16.77	16.77	16.75	16.73			
20	64QAM	50	0	16.69	16.52	16.71	16.60	16.62			
20	64QAM	50	24	16.80	16.79	16.69	16.65	16.58			
20	64QAM	50	50	16.72	16.65	16.77	16.80	16.64			
20	64QAM	100	0	16.62	16.65	16.83	16.68	16.78			
20	256QAM	1	0	16.76	16.62	16.84	16.62	16.77			
20	256QAM	1	49	16.79	16.57	16.71	16.66	16.67			
20	256QAM	1	99	16.62	16.72	16.90	16.76	16.82			
20	256QAM	50	0	16.62	16.74	16.74	16.76	16.69			
20	256QAM	50	24	16.68	16.69	16.78	16.73	16.77			10
20	256QAM	50	50	16.64	16.68	16.79	16.61	16.76			
20	256QAM	100	0	16.70	16.65	16.87	16.73	16.72			
Channel											
Frequency (MHz)				39725	40173	40620	41058	41515			
15	QPSK	1	0	17.15	16.78	17.13	16.93	16.92			
15	QPSK	1	37	17.09	16.83	16.92	17.01	16.88			
15	QPSK	1	74	16.98	16.87	17.00	16.91	16.90			
15	QPSK	36	0	17.00	16.76	16.91	16.86	16.83			
15	QPSK	36	20	16.87	16.89	16.94	16.98	16.83			
15	QPSK	36	36	16.97	16.85	16.91	16.89	16.74			
15	QPSK	75	0	16.86	16.68	16.85	16.62	16.63			
15	16QAM	1	0	16.88	16.74	16.80	16.73	16.77			
15	16QAM	1	37	16.77	16.84	16.76	16.82	16.76			
15	16QAM	1	74	16.95	16.77	16.69	16.61	16.74			
15	16QAM	36	0	16.66	16.66	16.73	16.67	16.63			
15	16QAM	36	20	16.80	16.64	16.75	16.67	16.64			
15	16QAM	36	36	16.80	16.63	16.76	16.57	16.56			0
15	16QAM	75	0	16.51	16.51	16.79	16.57	16.59			
15	256QAM	1	0	16.68	16.64	16.72	16.68	16.66			
15	256QAM	1	37	16.63	16.60	16.63	16.63	16.63			
15	256QAM	1	74	16.49	16.64	16.86	16.63	16.73			
15	256QAM	36	0	16.57	16.69	16.65	16.65	16.61			
15	256QAM	36	20	16.60	16.58	16.65	16.65	16.60			
15	256QAM	36	36	16.58	16.56	16.67	16.66	16.61			0
15	256QAM	75	0	16.58	16.54	16.77	16.51	16.52			
Channel											
Frequency (MHz)				39700	40160	40620	41098	41540			
10	QPSK	1	0	17.11	16.78	17.10	16.92	16.90			
10	QPSK	1	25	17.05	16.83	16.92	17.04	16.89			
10	QPSK	1	50	16.96	16.86	16.94	16.90	16.90			10
10	QPSK	25	0	17.03	16.68	17.00	16.82	16.77			
10	QPSK	25	12	16.94	16.86	16.94	16.90	16.92			
10	QPSK	25	25	16.84	16.72	16.81	16.81	16.68			0
10	QPSK	50	0	16.87	16.55	16.65	16.64	16.80			
10	16QAM	1	0	16.92	16.71	16.83	16.76	16.84			
10	16QAM	1	25	16.79	16.72	16.80	16.74	16.72			
10	16QAM	1	49	16.98	16.70	16.61	16.61	16.69			
10	16QAM	25	0	16.57	16.64	16.76	16.72	16.62			
10	16QAM	25	12	16.63	16.48	16.63	16.48	16.55			
10	16QAM	25	25	16.70	16.69	16.74	16.78	16.60			
10	64QAM	1	0	16.87	16.49	16.62	16.72	16.58			
10	64QAM	1	0	16.68	16.67	16.52	16.49	16.40			
10	64QAM	1	25	16.53	16.66	16.77	16.58	16.73			
10	64QAM	1	49	16.60	16.64	16.60	16.60	16.59			
10	64QAM	25	0	16.63	16.39	16.58	16.53	16.47			
10	64QAM	25	12	16.64	16.65	16.64	16.54	16.44			
10	64QAM	25	25	16.68	16.48	16.67	16.67	16.51			
10	64QAM	50	0	16.48	16.60	16.76	16.60	16.67			
10	64QAM	50	0	16.49	16.47	16.73	16.60	16.67			
10	256QAM	1	25	16.71	16.74	16.60	16.61	16.57			
10	256QAM	1	49	16.62	16.66	16.78	16.70	16.71			
10	256QAM	25	0	16.48	16.67	16.83	16.63	16.64			
10	256QAM	25	12	16.40	16.87	16.63	16.63	16.66			
10	256QAM	25	25	16.50	16.60	16.64	16.47	16.68			
10	256QAM	50	0	16.66	16.52	16.65	16.52	16.58			
Channel											
Frequency (MHz)				39675	40140	40620	41090	41565			
5	QPSK	1	0	17.06	16.64	17.04	16.84	16.82			
5	QPSK	1	12	17.15	16.82	16.91	16.94	16.85			
5	QPSK	1	24	16.95	16.93	16.93	16.93	16.86			
5	QPSK	12	0	17.03	16.67	16.95	16.83	16.76			
5	QPSK	12	7	16.97	16.92	16.95	16.98	16.89			
5	QPSK	18	0	16.94	16.83	16.92	16.92	16.71			
5	QPSK	25	0	16.79	16.53	16.74	16.65	16.60			
5	16QAM	1	0	16.90	16.70	16.78	16.68	16.80			
5	16QAM	1	12	16.79	16.71	16.80	16.70	16.79			
5	16QAM	1	24	16.92	16.74	16.67	16.58	16.72			
5	16QAM	12	0	16.52	16.69	16.76	16.67	16.62			
5	16QAM	12	7	16.58	16.49	16.71	16.40	16.56			10
5	16QAM	12	13	16.60	16.70	16.74	16.68	16.60			
5	16QAM	25	0	16.53	16.47	16.63	16.53	16.51			
5	64QAM	1	0	16.70	16.61	16.66	16.47	16.61			
5	64QAM	1	12	16.51	16.62	16.78	16.60	16.81			
5	64QAM	1	24	16.62	16.60	16.67	16.57	16.60			
5	64QAM	12	0	16.65	16.42	16.59	16.55	16.58			
5	64QAM	12	7	16.62	16.59	16.63	16.49	16.51			
5	64QAM	12	13	16.66	16.42	16.73	16.63	16.61			0
5	256QAM	1	0	16.54	16.40	16.76	16.60	16.70			
5	256QAM	1	12	16.52	16.59	16.65	16.53	16.58			
5	256QAM	1	24	16.74	16.73	16.65	16.61	16.57			
5	256QAM	12	0	16.50	16.62	16.65	16.60	16.57			
5	256QAM	12	7	16.49	16.69	16.63	16.54	16.58			
5	256QAM	12	7	16.57	16.81	16.74	16.62	16.68			
5	256QAM	12	13	16.59	16.52	16.64	16.52	16.59			
5	256QAM	25	0	16.71	16.59	16.65	16.55	16.58			0

Band 2 Ant 0												
RF (MHz)	Modulation	RB Size	RB Offset	Power (Ch. 1)	Power (Ch. 2)	Power (Ch. 3)	Turn-on time (ms)	MPR (dB)				
Channel 1												
Frequency (MHz)												
30	QPSK	1	0	22	26	22.63	22.56					
30	QPSK	1	49	22.7	22.77	22.83	22.81	24	0			
30	QPSK	1	98	22.29	22.38	22.44	22.41					
30	QPSK	50	0	21.58	21.58	21.58	21.58	23	1			
30	QPSK	50	24	21.48	21.54	21.53	21.53					
30	QPSK	100	0	21.60	21.67	21.67	21.61					
30	16QAM	1	0	21.88	21.88	21.88	21.88	23	1			
30	16QAM	1	49	21.78	21.83	21.83	21.81					
30	16QAM	1	99	21.73	21.78	21.83	21.83					
30	16QAM	50	0	20.54	20.64	20.64	20.62	22	2			
30	16QAM	50	24	20.54	20.64	20.64	20.62					
30	16QAM	50	99	20.58	20.74	20.63	20.59					
30	16QAM	100	0	20.58	20.74	20.63	20.59	22	2			
30	16QAM	1	49	20.58	20.72	20.67	20.67					
30	16QAM	50	0	20.54	20.65	20.61	20.61					
30	16QAM	50	24	19.45	19.60	19.60	19.53	21	3			
30	16QAM	50	99	19.48	19.52	19.48	19.48					
30	16QAM	100	0	19.45	19.60	19.60	19.53					
30	16QAM	100	24	19.45	19.60	19.60	19.53					
30	16QAM	1	0	17.65	17.68	17.68	17.68	19	5			
30	16QAM	1	49	17.63	17.67	17.68	17.68					
30	16QAM	1	99	17.63	17.67	17.68	17.68					
30	16QAM	50	0	17.60	17.63	17.59	17.59					
30	16QAM	50	24	17.60	17.63	17.59	17.59					
30	16QAM	50	99	17.60	17.63	17.59	17.59					
30	16QAM	100	0	17.62	17.61	17.62	17.62	19	5			
30	16QAM	100	24	17.62	17.61	17.62	17.62					
30	16QAM	100	99	17.62	17.61	17.62	17.62					
Channel 2												
Frequency (MHz)												
30	QPSK	1	0	22	22	22.07	22.24					
30	QPSK	1	37	22.19	22.41	22.37	22.37	24	0			
30	QPSK	1	74	22.34	22.54	22.44	22.44					
30	QPSK	50	0	21.48	21.54	21.54	21.54	23	1			
30	QPSK	50	24	21.38	21.48	21.44	21.44					
30	QPSK	50	49	21.38	21.48	21.44	21.44					
30	QPSK	100	0	21.57	21.59	21.58	21.58					
30	16QAM	1	0	21.73	21.82	21.75	21.75	23	1			
30	16QAM	1	37	21.71	21.74	21.74	21.74					
30	16QAM	1	74	21.68	21.81	21.76	21.76					
30	16QAM	50	0	20.44	20.51	20.55	20.55	22	2			
30	16QAM	50	24	20.42	20.51	20.48	20.48					
30	16QAM	50	49	20.42	20.51	20.48	20.48					
30	16QAM	100	0	20.44	20.55	20.43	20.43					
30	16QAM	100	24	20.44	20.55	20.43	20.43					
30	16QAM	100	99	20.44	20.55	20.43	20.43					
30	16QAM	1	37	20.45	20.57	20.52	20.52	21	3			
30	16QAM	1	74	20.44	20.59	20.51	20.51					
30	16QAM	50	0	20.44	20.55	20.43	20.43					
30	16QAM	50	24	20.44	20.55	20.43	20.43					
30	16QAM	50	49	20.44	20.55	20.43	20.43					
30	16QAM	100	0	20.44	20.55	20.43	20.43					
30	16QAM	100	24	20.44	20.55	20.43	20.43					
30	16QAM	100	99	20.44	20.55	20.43	20.43					
30	16QAM	1	37	20.45	20.57	20.52	20.52	22	2			
30	16QAM	1	74	20.44	20.59	20.51	20.51					
30	16QAM	50	0	20.44	20.55	20.43	20.43					
30	16QAM	50	24	20.44	20.55	20.43	20.43					
30	16QAM	50	49	20.44	20.55	20.43	20.43					
30	16QAM	100	0	20.44	20.55	20.43	20.43					
30	16QAM	100	24	20.44	20.55	20.43	20.43					
30	16QAM	100	99	20.44	20.55	20.43	20.43					
30	16QAM	1	37	20.45	20.57	20.52	20.52	21	3			
30	16QAM	1	74	20.44	20.59	20.51	20.51					
30	16QAM	50	0	20.44	20.55	20.43	20.43					
30	16QAM	50	24	20.44	20.55	20.43	20.43					
30	16QAM	50	49	20.44	20.55	20.43	20.43					
30	16QAM	100	0	20.44	20.55	20.43	20.43					
30	16QAM	100	24	20.44	20.55	20.43	20.43					
30	16QAM	100	99	20.44	20.55	20.43	20.43					
30	16QAM	1	37	20.45	20.57	20.52	20.52	22	2			
30	16QAM	1	74	20.44	20.59	20.51	20.51					
30	16QAM	50	0	20.44	20.55	20.43	20.43					
30	16QAM	50	24	20.44	20.55	20.43	20.43					
30	16QAM	50	49	20.44	20.55	20.43	20.43					
30	16QAM	100	0	20.44	20.55	20.43	20.43					
30	16QAM	100	24	20.44	20.55	20.43	20.43					
30	16QAM	100	99	20.44	20.55	20.43	20.43					
30	16QAM	1	37	20.45	20.57	20.52	20.52	21	3			
30	16QAM	1	74	20.44	20.59	20.51	20.51					
30	16QAM	50	0	20.44	20.55	20.43	20.43					
30	16QAM	50	24	20.44	20.55	20.43	20.43					
30	16QAM	50	49	20.44	20.55	20.43	20.43					
30	16QAM	100	0	20.44	20.55	20.43	20.43					
30	16QAM	100	24	20.44	20.55	20.43	20.43					
30	16QAM	100	99	20.44	20.55	20.43	20.43					
30	16QAM	1	37	20.45	20.57	20.52	20.52	22	2			
30	16QAM	1	74	20.44	20.59	20.51	20.51					
30	16QAM	50	0	20.44	20.55	20.43	20.43					
30	16QAM	50	24	20.44	20.55	20.43	20.43					
30	16QAM	50	49	20.44	20.55	20.43	20.43					
30	16QAM	100	0	20.44	20.55	20.43	20.43					
30	16QAM	100	24	20.44	20.55	20.43	20.43					
30	16QAM	100	99	20.44	20.55	20.43	20.43					
30	16QAM	1	37	20.45	20.57	20.52	20.52	21	3			
30	16QAM	1	74	20.44	20.59	20.51	20.51					
30	16QAM	50	0	20.44	20.55	20.43	20.43					
30	16QAM	50	24	20.44	20.55	20.43	20.43					
30	16QAM	50	49	20.44	20.55	20.43	20.43					
30	16QAM	100	0	20.44	20.55	20.43	20.43					
30	16QAM	100	24	20.44	20.55	20.43	20.43					
30	16QAM	100	99	20.44	20.55	20.43	20.43					
30	16QAM	1	37	20.45	20.57	20.52	20.52	22	2			
30	16QAM	1	74	20.44	20.59	20.51	20.51					
30	16QAM	50	0	20.44	20.55	20.43	20.43					
30	16QAM	50	24	20.44	20.55	20.43	20.43					
30	16QAM	50	49	20.44	20.55	20.43	20.43					
30	16QAM	100	0	20.44	20.55	20.43	20.43					
30	16QAM	100	24	20.44	20.55	20.43	20.43					
30	16QAM	100	99	20.44	20.55	20.43	20.43					
30	16QAM	1	37	20.45	20.57	20.52	20.52	21	3			
30	16QAM	1	74	20.44	20.59	20.51	20.51					
30	16QAM	50	0	20.44	20.55	20.43	20.43					
30	16QAM	50	24	20.44	20.55	20.43	20.43					
30	16QAM	50	49	20.44	20.55	20.43	20.43					
30	16QAM	100	0	20.44	20.55	20.43	20.43					
30	16QAM	100	24	20.44	20.55	20.43	20.43					
30	16QAM	100	99	20.44	20.55	20.43	20.43					
30	16QAM	1	37	20.45	20.57	20.52	20.52	22	2			
30	16QAM	1	74	20.44	20.59	20.51	20.51					
30	16QAM	50	0	20.44	20.55	20.43	20.43					
30	16QAM	50	24	20.44	20.55	20.43	20.43					
30	16QAM	50	49	20.44	20.55	20.43	20.43					
30	16QAM	100	0	20.44	20.55	20.43	20.43					
30	16QAM	100	24	20.44	20.55	20.43	20.43					
30	16QAM	100	99	20.44	20.55	20.43	20.43					
30	16QAM	1	37	20.45	20.57	20.52	20.52	21	3			
30	16QAM	1	74	20.44	20.59	20.51	20.51					
30	16QAM	50	0	20.44	20.55	20.43	20.43					
30	16QAM	50	24	20.44	20.55	20.43	20.43					
30	16QAM	50	49	20.44	20.55	20.43	20.43					
30	16QAM	100	0	20.44	20.55	20.43	20.43					
30	16QAM	100	24	20.44	20.55	20.43	20.43					
30	16QAM	100	99	20.44	20.55	20.43	20.43					
30	16QAM	1	37	20.45	20.57	20.52	20.52	22	2			
30	16QAM	1	74	20.44	20.59	20.51	20.51					
30	16QAM	50	0	20.44	20.55	20.43	20.43					
30	16QAM	50	24	20.44	20.55	20.43	20.43					
30	16QAM	50	49	20.44	20.55	20.43	20.43					
30	16QAM	100	0	20.44	20.55	20.43	20.43					
30	16QAM	100	24	20.44	20.55	20.43	20.43					
30	16QAM	100	99	20.44	20.55	20.43	20.43					
30	16QAM	1	37	20.45	20.57	20.52	20.52	21	3			
30	16QAM	1	74	2								

Full & Default Power, Other I

Band 4 Ant 0											TWR & CDR	
SR (MHz)	Modulation	RS SS	RB Offset	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Turn-on time (ms)	MFR (dB)	
Channel 1												
20	QPSK	1	0	25	25.25	22.45	22.45	22.45	22.45	24	0	
20	QPSK	1	49	29.29	29.37	23.37	23.38	23.38	23.38			
20	QPSK	50	0	25.25	25.33	23.33	23.33	23.33	23.33			
20	QPSK	50	0	21.46	21.46	21.50	21.51	21.51	21.51			
20	QPSK	50	24	21.39	21.39	21.39	21.38	21.38	21.38			
20	QPSK	100	0	21.39	21.39	21.39	21.38	21.38	21.38	23	1	
20	QPSK	100	0	21.39	21.39	21.39	21.38	21.38	21.38			
20	QPSK	100	0	21.39	21.39	21.39	21.38	21.38	21.38			
20	QPSK	100	0	21.39	21.39	21.39	21.38	21.38	21.38			
20	QPSK	100	0	21.39	21.39	21.39	21.38	21.38	21.38			
20	QPSK	100	0	21.39	21.39	21.39	21.38	21.38	21.38	22	2	
20	QPSK	100	0	21.39	21.39	21.39	21.38	21.38	21.38			
20	QPSK	100	0	21.39	21.39	21.39	21.38	21.38	21.38			
20	QPSK	100	0	21.39	21.39	21.39	21.38	21.38	21.38			
20	QPSK	100	0	21.39	21.39	21.39	21.38	21.38	21.38			
20	QPSK	100	0	21.39	21.39	21.39	21.38	21.38	21.38	21	3	
20	QPSK	100	0	21.39	21.39	21.39	21.38	21.38	21.38			
20	QPSK	100	0	21.39	21.39	21.39	21.38	21.38	21.38			
20	QPSK	100	0	21.39	21.39	21.39	21.38	21.38	21.38			
20	QPSK	100	0	21.39	21.39	21.39	21.38	21.38	21.38			
Channel 2												
15	QPSK	1	0	22.30	22.32	22.32	22.30	22.30	22.30	24	0	
15	QPSK	1	37	22.19	22.24	22.24	22.18	22.18	22.18			
15	QPSK	1	37	21.23	21.23	21.23	21.23	21.23	21.23			
15	QPSK	1	0	21.35	21.36	21.36	21.35	21.35	21.35			
15	QPSK	1	0	21.33	21.33	21.33	21.33	21.33	21.33			
15	QPSK	1	0	21.28	21.28	21.28	21.28	21.28	21.28	23	1	
15	QPSK	1	0	21.25	21.27	21.27	21.25	21.25	21.25			
15	QPSK	1	0	21.55	21.59	21.59	21.54	21.54	21.54			
15	QPSK	1	0	21.55	21.59	21.59	21.54	21.54	21.54			
15	QPSK	1	0	21.55	21.59	21.59	21.54	21.54	21.54			
15	QPSK	1	74	21.44	21.41	21.41	21.41	21.41	21.41	22	2	
15	QPSK	1	36	20.35	20.39	20.39	20.35	20.35	20.35			
15	QPSK	1	36	20.35	20.39	20.39	20.35	20.35	20.35			
15	QPSK	1	36	20.35	20.39	20.39	20.35	20.35	20.35			
15	QPSK	1	36	20.35	20.39	20.39	20.35	20.35	20.35			
15	QPSK	1	36	20.35	20.39	20.39	20.35	20.35	20.35	21	3	
15	QPSK	1	36	20.35	20.39	20.39	20.35	20.35	20.35			
15	QPSK	1	36	20.35	20.39	20.39	20.35	20.35	20.35			
15	QPSK	1	36	20.35	20.39	20.39	20.35	20.35	20.35			
15	QPSK	1	36	20.35	20.39	20.39	20.35	20.35	20.35			
Channel 3												
15	QPSK	1	0	22.24	22.26	22.26	22.24	22.24	22.24	24	0	
15	QPSK	1	25	22.24	22.29	22.29	22.14	22.14	22.14			
15	QPSK	1	25	21.25	21.25	21.25	21.25	21.25	21.25			
15	QPSK	1	0	21.40	21.41	21.41	21.41	21.41	21.41			
15	QPSK	12	0	21.35	21.31	21.31	21.31	21.31	21.31			
15	QPSK	12	0	21.32	21.32	21.32	21.32	21.32	21.32	23	1	
15	QPSK	12	0	21.24	21.37	21.37	21.28	21.28	21.28			
15	QPSK	1	0	21.46	21.51	21.51	21.50	21.50	21.50			
15	QPSK	1	0	21.46	21.51	21.51	21.50	21.50	21.50			
15	QPSK	1	0	21.46	21.51	21.51	21.50	21.50	21.50			
15	QPSK	1	49	21.47	21.63	21.63	21.60	21.60	21.60	22	2	
15	QPSK	1	36	20.36	20.40	20.40	20.36	20.36	20.36			
15	QPSK	1	36	20.36	20.40	20.40	20.36	20.36	20.36			
15	QPSK	1	36	20.36	20.40	20.40	20.36	20.36	20.36			
15	QPSK	1	36	20.36	20.40	20.40	20.36	20.36	20.36			
15	QPSK	1	36	20.36	20.40	20.40	20.36	20.36	20.36	21	3	
15	QPSK	1	36	20.36	20.40	20.40	20.36	20.36	20.36			
15	QPSK	1	36	20.36	20.40	20.40	20.36	20.36	20.36			
15	QPSK	1	36	20.36	20.40	20.40	20.36	20.36	20.36			
15	QPSK	1	36	20.36	20.40	20.40	20.36	20.36	20.36			
Channel 4												
15	QPSK	1	0	22.24	22.26	22.26	22.24	22.24	22.24	24	0	
15	QPSK	1	25	22.24	22.29	22.29	22.14	22.14	22.14			
15	QPSK	1	25	21.25	21.25	21.25	21.25	21.25	21.25			
15	QPSK	1	0	21.40	21.41	21.41	21.41	21.41	21.41			
15	QPSK	12	0	21.35	21.31	21.31	21.31	21.31	21.31			
15	QPSK	12	0	21.32	21.32	21.32	21.32	21.32	21.32	23	1	
15	QPSK	12	0	21.24	21.37	21.37	21.28	21.28	21.28			
15	QPSK	1	0	21.46	21.51	21.51	21.50	21.50	21.50			
15	QPSK	1	0	21.46	21.51	21.51	21.50	21.50	21.50			
15	QPSK	1	0	21.46	21.51	21.51	21.50	21.50	21.50			
15	QPSK	1	49	21.47	21.63	21.63	21.60	21.60	21.60	22	2	
15	QPSK	1	36	20.36	20.40	20.40	20.36	20.36	20.36			
15	QPSK	1	36	20.36	20.40	20.40	20.36	20.36	20.36			
15	QPSK	1	36	20.36	20.40	20.40	20.36	20.36	20.36			
15	QPSK	1	36	20.36	20.40	20.40	20.36	20.36	20.36			
15	QPSK	1	36	20.36	20.40	20.40	20.36	20.36	20.36	21	3	
15	QPSK	1	36	20.36	20.40	20.40	20.36	20.36	20.36			
15	QPSK	1	36	20.36	20.40	20.40	20.36	20.36	20.36			
15	QPSK	1	36	20.36	20.40	20.40	20.36	20.36	20.36			
15	QPSK	1	36	20.36	20.40	20.40	20.36	20.36	20.36			
Channel 5												
15	QPSK	1	0	22.21	22.23	22.23	22.20	22.20	22.20	24	0	
15	QPSK	1	12	22.21	22.25	22.25	22.12	22.12	22.12			
15	QPSK	1	12	21.22	21.22	21.22	21.22	21.22	21.22			
15	QPSK	1	0	21.31	21.41	21.41	21.36	21.36	21.36			
15	QPSK	12	0	21.30	21.31	21.31	21.27	21.27	21.27			
15	QPSK	12	0	21.27	21.31	21.31	21.27	21.27	21.27	23	1	
15	QPSK	12	0	21.26	21.41	21.41	21.31	21.31	21.31			
15	QPSK	1	0	21.48	21.61	21.61	21.53	21.53	21.53			
15	QPSK	1	0	21.48	21.61	21.61	21.53	21.53	21.53			
15	QPSK	1	0	21.48	21.61	21.61	21.53	21.53	21.53			
15	QPSK	1	24	21.47	21.61	21.61	21.56	21.56	21.56	22	2	
15	QPSK	1	12	20.36	20.41	20.41	20.33	20.33	20.33			
15	QPSK	1	12	20.36	20.41	20.41	20.33	20.33	20.33			
15	QPSK	1	12	20.36	20.41	20.41	20.33	20.33	20.33			
15	QPSK	1	12	20.36	20.41	20.41	20.33	20.33	20.33			
15	QPSK	1	12	20.36	20.41	20.41	20.33	20.33	20.33	21	3	
15	QPSK	1	12	20.36	20.41	20.41	20.33	20.33	20.33			
15	QPSK	1	12	20.36	20.41	20.41	20.33	20.33	20.33			
15	QPSK	1	12	20.36	20.41	20.41	20.33	20.33	20.33			
15	QPSK	1	12	20.36	20.41	20.41	20.33	20.33	20.33			
Channel 6												
15	QPSK	1	0	22.21	22.23	22.23	22.20	22.20	22.20	24	0	
15	QPSK	1	8	22.18	22.24	22.24	22.18	22.18	22.18			
15	QPSK	1	8	21.24	21.23	21.23	21.23	21.23	21.23			
15	QPSK	8	0	21.41	21.45	21.45	21.39	21.39	21.39			
15	QPSK	8	0	21.26	21.33	21.33	21.19	21.19	21.19			
15	QPSK	1	0	21.49	21.51	21.51	21.51	21.51	21.51	23	1	
15	QPSK	1	0	21.25	21.39	21.39	21.26	21.26	21.26			
15	QPSK	1	0	21.51	21.59	21.59	21.55	21.55	21.55			
15	QPSK	1	0	21.51	21.59	21.59	21.55	21.55	21.55			
15	QPSK	1	0	21.51	21.59	21.59	21.55	21.55	21.55			
15	QPSK	1	14	21.41	21.51	21.51	21.41	21.41	21.41	22	2	
15	QPSK	8	0	20.39	20.33	20.33	20.30	20.30	20.30			
15	QPSK	8	0	20.39	20.33	20.33	20.30	20.30	20.30			
15	QPSK	8	0	20.39	20.33	20.33	20.30	20.30	20.30			
15	QPSK	8	0	20.39	20.33	20.33	20.30	20.30	20.30			
15	QPSK	8	0	20.39	20.33	20.33	20.30	20.30	20.30	21	3	
15	QPSK	8	0	20.39	20.33	20.33	20.30	20.30	20.30			
15	QPSK	8	0	20.39	20.33	20.33	20.30	20.30	20.30			
15	QPSK	8	0	20.39	20.33	20.33	20.30	20.30	20.30			
15	QPSK	8	0	20.39	20.33	20.33	20.30	20.30	20.30			
Channel 7												
15	QPSK	1	0	22.29	22.32	22.32	22.29	22.29	22.29	24	0	
15	QPSK	1	0	22.24	22.28	22.28	22.22	22.22	22.22			
15	QPSK	1	0	22.24	22.28	22.28	22.22	22.22	22.22			
15	QPSK	1	0	22.24	22.28	22.28	22.22	22.22	22.22			
15	QPSK	1	0	22.24	22.28	22.28	22.22	22.22	22.22			
15	QPSK	1	0	22.24	22.28	22.28	22.22	22.22	22.22	23	1	
15	QPSK	1	0	22.24	22.28	22.28	22.22	22.22				

Band 25 Ant 0												
Channel	Modulation	RB TSC	RB Offset	Power/Low Frequency (MHz)	Power/High Frequency (MHz)	Power/High Frequency (MHz)	Power/High Frequency (MHz)	Turn-on time (ms)	MPR (dB)			
Channel												
20	QPSK	1	0	22.59	22.59	22.60						
20	QPSK	1	40	22.64	22.64	22.65			24			
20	QPSK	1	80	22.69	22.69	22.70			24			
20	QPSK	50	0	21.53	21.53	21.52			0			
20	QPSK	50	24	21.37	21.48	21.43			23			
20	QPSK	50	48	21.21	21.36	21.31			23			
20	QPSK	100	0	21.53	21.64	21.51			0			
20	16QAM	1	0	21.69	21.63	21.78						
20	16QAM	1	40	21.74	21.68	21.73			24			
20	16QAM	1	80	21.77	21.65	21.68			24			
20	16QAM	50	0	20.37	20.51	20.33			0			
20	16QAM	50	24	20.37	20.45	20.37			23			
20	16QAM	50	48	20.30	20.35	20.33			23			
20	16QAM	100	0	20.35	20.41	20.34			0			
20	16QAM	100	24	20.35	20.42	20.34			23			
20	16QAM	100	48	20.35	20.41	20.34			23			
20	64QAM	1	40	20.59	20.78	20.66			22			
20	64QAM	1	80	20.53	20.62	20.63			22			
20	64QAM	50	0	19.63	19.67	19.63			0			
20	64QAM	50	24	19.36	19.35	19.28			21			
20	64QAM	50	48	19.39	19.38	19.34			21			
20	256QAM	1	40	17.68	17.68	17.74			19			
20	256QAM	1	80	17.52	17.59	17.54			19			
20	256QAM	50	0	17.34	17.44	17.33			0			
20	256QAM	50	24	17.35	17.37	17.19			23			
20	256QAM	50	48	17.31	17.31	17.19			23			
20	256QAM	100	0	17.40	17.47	17.34			0			
Channel												
Frequency (MHz)												
18	QPSK	1	0	22.62	22.60	22.60						
18	QPSK	1	37	22.66	22.64	22.64			24			
18	QPSK	1	75	22.71	22.69	22.69			24			
18	QPSK	36	0	21.40	21.53	21.43			0			
18	QPSK	36	20	21.27	21.44	21.31			23			
18	QPSK	36	40	21.14	21.31	21.17			23			
18	16QAM	1	0	21.66	21.79	21.61			0			
18	16QAM	1	37	21.71	21.63	21.63			23			
18	16QAM	1	74	21.68	21.72	21.64			23			
18	16QAM	36	0	20.28	20.40	20.29			0			
18	16QAM	36	20	20.38	20.40	20.27			22			
18	16QAM	36	40	20.17	20.24	20.24			22			
18	16QAM	75	0	20.27	20.30	20.27			0			
18	16QAM	75	37	20.27	20.32	20.27			22			
18	64QAM	1	37	20.50	20.69	20.51			22			
18	64QAM	1	74	20.42	20.47	20.53			22			
18	64QAM	36	0	19.21	19.26	19.21			0			
18	64QAM	36	20	19.23	19.21	19.19			21			
18	64QAM	36	40	19.21	19.23	19.17			21			
18	256QAM	1	37	17.29	17.31	17.22			19			
18	256QAM	1	75	17.28	17.31	17.22			19			
18	256QAM	36	0	17.05	17.28	17.02			0			
18	256QAM	36	20	17.16	17.15	17.09			23			
18	256QAM	36	40	17.13	17.13	17.02			23			
18	256QAM	75	0	17.30	17.41	17.30			0			
Channel												
Frequency (MHz)												
16	QPSK	1	0	22.60	22.63	22.63						
16	QPSK	1	23	22.68	22.67	22.67			24			
16	QPSK	1	47	22.76	22.74	22.74			24			
16	QPSK	26	0	21.38	21.48	21.33			0			
16	QPSK	26	12	21.28	21.43	21.33			23			
16	QPSK	26	24	21.18	21.33	21.23			23			
16	16QAM	1	0	21.68	21.83	21.61			0			
16	16QAM	1	23	21.67	21.79	21.62			23			
16	16QAM	1	47	21.67	21.78	21.67			23			
16	16QAM	26	0	20.22	20.45	20.18			0			
16	16QAM	26	12	20.27	20.38	20.18			22			
16	16QAM	26	24	20.17	20.21	20.18			22			
16	16QAM	50	0	20.27	20.38	20.18			0			
16	16QAM	50	26	20.27	20.39	20.21			22			
16	16QAM	50	50	20.20	20.26	20.18			22			
16	16QAM	100	0	20.27	20.32	20.27			0			
16	16QAM	100	26	20.27	20.34	20.27			22			
16	16QAM	100	50	20.27	20.32	20.27			22			
16	64QAM	1	49	20.47	20.52	20.47			22			
16	64QAM	1	98	20.47	20.52	20.47			22			
16	64QAM	26	0	19.23	19.24	19.26			0			
16	64QAM	26	12	19.25	19.22	19.26			21			
16	64QAM	26	24	19.20	19.22	19.20			21			
16	64QAM	50	0	19.33	19.34	19.29			0			
16	64QAM	50	26	19.31	19.36	19.27			21			
16	64QAM	50	50	19.29	19.32	19.26			21			
16	256QAM	1	0	17.59	17.54	17.62			0			
16	256QAM	1	25	17.59	17.54	17.62			0			
16	256QAM	1	50	17.59	17.54	17.62			0			
16	256QAM	26	0	17.24	17.37	17.25			0			
16	256QAM	26	12	17.26	17.30	17.14			19			
16	256QAM	26	24	17.27	17.31	17.14			19			
16	256QAM	50	0	17.41	17.40	17.19			0			
Channel												
Frequency (MHz)												
14	QPSK	1	0	22.65	22.66	22.66						
14	QPSK	1	12	22.68	22.68	22.68			24			
14	QPSK	1	24	22.71	22.71	22.71			24			
14	QPSK	12	0	21.39	21.51	21.46			0			
14	QPSK	12	6	21.29	21.44	21.29			23			
14	QPSK	12	12	21.19	21.34	21.18			23			
14	QPSK	24	0	21.63	21.72	21.61			0			
14	QPSK	24	6	21.53	21.68	21.58			23			
14	16QAM	1	0	21.68	21.83	21.61			0			
14	16QAM	1	12	21.67	21.79	21.62			23			
14	16QAM	1	24	21.67	21.78	21.67			23			
14	16QAM	12	0	20.23	20.41	20.26			0			
14	16QAM	12	6	20.18	20.40	20.26			22			
14	16QAM	12	12	20.17	20.28	20.19			22			
14	16QAM	24	0	20.20	20.29	20.18			0			
14	16QAM	24	6	20.20	20.33	20.18			22			
14	16QAM	24	12	20.20	20.27	20.18			22			
14	16QAM	1	24	20.42	20.45	20.38			22			
14	16QAM	12	24	20.42	20.45	20.38			22			
14	64QAM	1	12	19.29	19.33	19.18			0			
14	64QAM	12	6	19.29	19.30	19.18			21			
14	64QAM	12	12	19.32	19.29	19.18			21			
14	64QAM	24	0	19.31	19.32	19.24			0			
14	64QAM	24	6	19.31	19.32	19.24			21			
14	256QAM	1	0	17.49	17.58	17.60			0			
14	256QAM	1	12	17.41	17.53	17.41			19			
14	256QAM	1	24	17.41	17.41	17.41			19			
14	256QAM	12	0	17.27	17.38	17.22			0			
14	256QAM	12	6	17.23	17.29	17.04			19			
14	256QAM	12	12	17.23	17.29	17.04			19			
14	256QAM	24	0	17.30	17.31	17.18			0			
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.65	22.66	22.66						
3	QPSK	1	8	22.68	22.65	22.68			24			
3	QPSK	1	16	22.71	22.68	22.71			24			
3	QPSK	8	0	21.37	21.49	21.43			0			
3	QPSK	8	4	21.34	21.40	21.35			23			
3	QPSK	8	8	21.31	21.37	21.27			23			
3	QPSK	16	0	21.39	21.58	21.40			0			
3	16QAM	1	0	21.65	21.75	21.67			0			
3	16QAM	1	8	21.65	21.76	21.68			23			
3	16QAM	1	16	21.61	21.71	21.61			23			
3	16QAM	8	0	20.22	20.44	20.22			0			
3	16QAM	8	4	20.22	20.38	20.22			22			
3	16QAM	8	8	20.19	20.28	20.22			22			
3	16QAM	16	0	20.22	20.33	20.21			0			
3	16QAM	16	8	20.22	20.35	20.21			22			
3	16QAM	16	16	20.22	20.30	20.21			22			
3	64QAM	1	8	20.51	20.63	20.51			22			
3	64QAM	1	16	20.43	20.48	20.52			22			
3	64QAM	8	0	19.36	19.42	19.31			0			
3	64QAM	8	4	19.21	19.29	19.19			21			
3	64QAM	8	8	19.35	19.31	19.21			21			
3	64QAM	16	0	19.19	19.32	19.24			0			
3	64QAM	16	8	19.17	19.24	19.17			21			
3	256QAM	1	0	17.57	17.64	17.63			0			
3	256QAM	1	8	17.42	17.45	17.45			19			
3	256QAM	1	16	17.42	17.45	17.45			19			
3	256QAM	8	0	17.39	17.35	17.21			0			
3	256QAM	8	4	17.34	17.37	17.21			19			
3	256QAM	8	8	17.34	17.37	17.21			19			
3	256QAM	16	0	17.37	17.32	17.17			0			
3	256QAM	16	8	17.39	17.34	17.19			19			
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.63	22.67	22.63						
1.4	QPSK	1	3	22.64	22.63	22.63			24			
1.4	QPSK	1	6	22.67	22.67	22.67			24			
1.4	QPSK	3	0	22.42	22.38	22.23			0			
1.4	QPSK	3	1	22.19	22.16	22.08			23			
1.4	QPSK	3	2	22.15	22.11	22.04			23			
1.4	QPSK	6	0	21.64	21.57	21.41			23			
1.4	16QAM	1	0	21.62	21.72	21.63			0			
1.4	16QAM	1	3	21.52	21.6							

Band 66 Ant 0												
RW (MHz)	Modulation	RB Size	RB Offset	Power Level Power (dBm)	Power Level Power (dBm)	Power Level Power (dBm)	Turn-on Time (ms)	MFR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	23.25	23.22	23.22						
20	QPSK	1	49	23.20	22.93	22.93		24				
20	QPSK	50	0	23.20	23.22	23.22						
20	QPSK	50	0	21.30	21.40	21.40						
20	QPSK	50	24	21.21	21.26	21.27						
20	QPSK	50	24	21.21	21.26	21.27						
20	QPSK	100	0	21.37	21.43	21.34						
20	16QAM	1	0	21.64	21.67	21.59						
20	16QAM	1	49	21.59	21.62	21.53		23				
20	16QAM	1	99	21.64	21.67	21.59						
20	16QAM	50	0	20.29	20.34	20.22						
20	16QAM	50	0	20.29	20.36	20.22						
20	16QAM	50	50	20.05	20.18	20.24		22				
20	16QAM	100	0	20.26	20.29	20.16						
20	16QAM	100	0	20.26	20.32	20.13						
20	16QAM	1	49	20.38	20.40	20.26		22				
20	64QAM	1	99	20.44	20.52	20.47						
20	64QAM	50	0	19.22	19.32	19.22						
20	64QAM	50	24	19.13	19.28	19.07		21				
20	64QAM	50	50	19.25	19.10	19.19						
20	256QAM	1	99	17.48	17.78	17.78		19				
20	256QAM	50	0	17.48	17.78	17.78						
20	256QAM	50	0	17.17	17.33	17.22						
20	256QAM	50	0	17.14	17.14	17.14						
20	256QAM	50	24	17.28	17.19	17.19		19				
20	256QAM	100	0	17.20	17.28	17.22						
Channel												
Frequency (MHz)												
16	QPSK	1	0	22.19	22.22	22.22						
16	QPSK	1	37	22.19	22.22	22.13		24				
16	QPSK	1	74	22.19	22.21	22.13						
16	QPSK	50	0	21.26	21.29	21.31						
16	QPSK	50	20	21.12	21.19	21.09						
16	QPSK	50	20	21.12	21.19	21.11		23				
16	QPSK	75	0	21.33	21.31	21.29						
16	16QAM	1	0	21.68	21.71	21.65						
16	16QAM	1	37	21.62	21.61	21.48						
16	16QAM	1	74	21.33	21.61	21.50						
16	16QAM	50	0	20.19	20.26	20.09						
16	16QAM	50	20	20.11	20.31	20.17						
16	16QAM	50	36	20.11	20.08	20.12		22				
16	16QAM	75	0	20.15	20.19	20.07						
16	16QAM	75	0	20.15	20.29	20.17						
16	64QAM	1	37	20.33	20.49	20.47						
16	64QAM	1	74	20.27	20.40	20.38						
16	64QAM	50	0	19.27	19.22	19.22						
16	64QAM	50	20	19.03	19.12	19.06		21				
16	64QAM	50	36	19.11	19.13	19.12						
16	64QAM	75	0	19.11	19.05	19.12						
16	256QAM	1	0	17.34	17.40	17.37						
16	256QAM	1	37	17.31	17.31	17.22						
16	256QAM	1	74	17.28	17.52	17.42		19				
16	256QAM	50	0	17.08	17.27	17.12						
16	256QAM	50	20	17.07	17.07	17.07						
16	256QAM	50	36	17.17	17.17	17.16						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.27	22.28	22.27						
10	QPSK	1	25	22.18	22.16	22.12		24				
10	QPSK	1	49	22.27	22.24	22.16						
10	QPSK	50	0	21.22	21.31	21.22						
10	QPSK	50	12	21.09	21.16	21.06						
10	QPSK	50	12	21.09	21.16	21.07		23				
10	QPSK	50	0	21.22	21.32	21.21						
10	16QAM	1	0	21.68	21.81	21.43						
10	16QAM	1	25	21.43	21.60	21.37						
10	16QAM	1	49	21.33	21.61	21.43						
10	16QAM	50	0	20.34	20.21	20.07						
10	16QAM	50	12	20.29	20.29	20.12						
10	16QAM	50	26	20.00	20.04	20.15		22				
10	16QAM	50	0	20.14	20.13	20.09						
10	16QAM	50	0	20.14	20.18	20.09						
10	64QAM	1	25	20.33	20.48	20.47		22				
10	64QAM	1	49	20.31	20.42	20.34						
10	64QAM	50	0	19.08	19.18	19.08						
10	64QAM	50	12	19.11	19.18	19.04		21				
10	64QAM	50	25	19.12	19.04	19.12						
10	256QAM	1	0	17.26	17.35	17.35						
10	256QAM	1	25	17.28	17.24	17.16						
10	256QAM	1	49	17.21	17.27	17.26						
10	256QAM	50	0	17.07	17.24	17.17						
10	256QAM	50	12	17.01	17.06	17.07		19				
10	256QAM	50	25	17.01	17.06	17.02						
10	256QAM	50	0	17.11	17.21	17.09						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.26	22.29	22.26						
5	QPSK	1	12	22.19	22.21	22.11		24				
5	QPSK	1	25	22.27	22.24	22.16						
5	QPSK	12	0	21.24	21.30	21.31						
5	QPSK	12	7	21.13	21.22	21.02						
5	QPSK	12	19	21.10	21.19	21.03						
5	QPSK	50	0	21.30	21.32	21.18						
5	16QAM	1	0	21.68	21.71	21.43						
5	16QAM	1	12	21.62	21.62	21.43						
5	16QAM	1	24	21.30	21.67	21.52						
5	16QAM	12	0	20.23	20.23	20.15						
5	16QAM	12	7	20.20	20.21	20.08						
5	16QAM	12	19	20.01	20.03	20.11						
5	16QAM	50	0	20.17	20.23	20.08						
5	16QAM	50	0	20.17	20.23	20.12						
5	64QAM	1	12	20.31	20.46	20.48						
5	64QAM	1	24	20.30	20.43	20.32						
5	64QAM	12	0	19.08	19.18	19.08						
5	64QAM	12	7	19.03	19.14	19.06		21				
5	64QAM	12	19	19.12	19.11	19.10						
5	64QAM	50	0	19.05	19.16	19.04						
5	256QAM	1	0	17.28	17.37	17.34						
5	256QAM	1	12	17.28	17.29	17.21						
5	256QAM	1	24	17.21	17.28	17.29						
5	256QAM	12	0	17.08	17.25	17.08						
5	256QAM	12	7	17.08	17.08	17.02		19				
5	256QAM	12	19	17.18	17.18	17.08						
5	256QAM	50	0	17.08	17.12	17.15						
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.26	22.29	22.26						
3	QPSK	1	8	22.18	22.24	22.17		24				
3	QPSK	1	16	22.27	22.24	22.16						
3	QPSK	8	0	21.33	21.33	21.26						
3	QPSK	8	4	21.10	21.22	21.00						
3	QPSK	8	16	21.02	21.12	21.02		23				
3	QPSK	15	0	21.22	21.37	21.23						
3	16QAM	1	0	21.58	21.68	21.47						
3	16QAM	1	8	21.58	21.61	21.42						
3	16QAM	1	14	21.62	21.59	21.50						
3	16QAM	8	0	20.17	20.21	20.18						
3	16QAM	8	8	20.18	20.18	20.13		22				
3	16QAM	8	7	20.11	20.09	20.20						
3	16QAM	15	0	20.18	20.19	20.11						
3	64QAM	1	8	20.31	20.39	20.32						
3	64QAM	1	8	20.31	20.56	20.44		22				
3	64QAM	1	16	20.29	20.37	20.24						
3	64QAM	8	0	19.17	19.18	19.13						
3	64QAM	8	4	19.06	19.21	19.02		21				
3	64QAM	8	7	19.11	19.04	19.03						
3	256QAM	1	8	17.25	17.25	17.22						
3	256QAM	1	8	17.25	17.25	17.22						
3	256QAM	8	0	17.12	17.33	17.31		19				
3	256QAM	8	0	17.12	17.22	17.22						
3	256QAM	8	14	17.11	17.22	17.17						
3	256QAM	8	7	17.08	17.26	17.28		19				
3	256QAM	8	7	17.08	17.09	17.04						
3	256QAM	15	0	17.08	17.13	17.17						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.21	22.28	22.22						
1.4	QPSK	1	3	22.24	22.29	22.21		24				
1.4	QPSK	1	6	22.27	22.25	22.17						
1.4	QPSK	3	0	22.33	22.33	22.27						
1.4	QPSK	3	1	22.25	22.23	22.14						
1.4	QPSK	3	3	22.22	22.22	22.12						
1.4	QPSK	6	0	21.28	21.31	21.24		23				
1.4	16QAM	1	0	21.67	21.68	21.50						
1.4	16QAM	1	3	21.62	21.62	21.42						
1.4	16QAM	1	6	21.31	21.58	21.44		23				
1.4	16QAM	3	0	21.52	21.72	21.58						
1.4	16QAM	3	3	21.56	21.56	21.42						
1.4	16QAM	3	3	21.56	21.62	21.49						
1.4	16QAM	6	0	20.11	20.20	20.09		22				
1.4	16QAM	6	3	20.11	20.11	20.03						
1.4	64QAM	1	3	20.31	20.51	20.43						
1.4	64QAM	1	6	20.34	20.50	20.40						
1.4	64QAM	3	0	20.34	20.50	20.34		22				
1.4	64QAM	3	3	20.34	20.51	20.43						
1.4	256QAM	1	6	19.11	19.14	19.11		21				
1.4	256QAM	1	3	17.31	17.31	17.31						
1.4	256QAM	3	0	17.28	17.28	17.28						
1.4	256QAM	3	0	17.20	17.21	17.13						
1.4	256QAM	3	3	17.03	17.15	17.01		19				
1.4	256QAM	6	0	17.06	17.15	17.09						



Band 38 Ant 0												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Turn-up time (dBm)	MFR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.48	22.52	22.51	23	0				
20	QPSK	1	48	22.40	22.31	22.30						
20	QPSK	1	96	22.51	22.38	22.37						
20	QPSK	50	0	21.41	21.54	21.52	22	1				
20	QPSK	50	24	21.26	21.38	21.33						
20	QPSK	50	48	21.51	21.29	21.31						
20	HQAM	1	0	21.46	21.54	21.51	22	1				
20	HQAM	1	48	21.59	21.78	21.69						
20	HQAM	1	96	21.59	21.78	21.69						
20	HQAM	50	24	20.34	20.41	20.32	21	2				
20	HQAM	50	48	20.34	20.41	20.38						
20	HQAM	50	50	20.19	20.37	20.24						
20	HQAM	100	0	20.28	20.28	20.28	21	2				
20	HQAM	100	0	20.08	20.08	20.08						
20	HQAM	1	48	20.57	20.65	20.56						
20	HQAM	1	96	20.51	20.61	20.55	20	3				
20	HQAM	50	0	19.34	19.42	19.33						
20	HQAM	50	24	19.27	19.28	19.26						
20	HQAM	50	50	19.26	19.29	19.26	18	5				
20	HQAM	100	0	19.21	19.31	19.17						
20	HQAM	100	0	17.52	17.60	17.53						
20	HQAM	1	48	17.51	17.59	17.55	18	5				
20	HQAM	1	96	17.51	17.59	17.55						
20	HQAM	50	0	17.17	17.28	17.22						
20	HQAM	50	24	17.25	17.26	17.17	18	5				
20	HQAM	50	48	17.30	17.28	17.24						
20	HQAM	100	0	17.23	17.28	17.25						
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.13	22.42	22.18	23	0				
15	QPSK	1	37	22.28	22.18	22.18						
15	QPSK	1	74	22.59	22.33	22.12						
15	QPSK	36	0	21.34	21.42	21.37	22	1				
15	QPSK	36	20	21.14	21.24	21.17						
15	QPSK	36	38	21.28	21.38	21.30						
15	QPSK	75	0	21.38	21.39	21.35	22	1				
15	HQAM	1	0	21.55	21.66	21.61						
15	HQAM	1	37	21.55	21.67	21.64						
15	HQAM	1	74	21.54	21.72	21.61	21	2				
15	HQAM	36	0	20.24	20.36	20.19						
15	HQAM	36	20	20.22	20.26	20.15						
15	HQAM	36	38	20.09	20.29	20.16	21	2				
15	HQAM	75	0	20.26	20.26	20.22						
15	HQAM	75	0	19.23	19.37	19.26						
15	HQAM	1	37	20.52	20.69	20.51	21	2				
15	HQAM	1	74	20.44	20.47	20.39						
15	HQAM	36	0	19.23	19.37	19.26						
15	HQAM	36	20	19.15	19.17	19.20	20	3				
15	HQAM	36	38	19.24	19.27	19.26						
15	HQAM	75	0	19.05	19.21	19.11						
15	HQAM	1	0	17.50	17.52	17.43	18	5				
15	HQAM	1	37	17.42	17.46	17.43						
15	HQAM	1	74	17.42	17.46	17.43						
15	HQAM	36	0	17.15	17.33	17.18	18	5				
15	HQAM	36	20	17.14	17.17	17.05						
15	HQAM	36	38	17.25	17.13	17.20						
15	HQAM	75	0	17.26	17.21	17.19						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.13	22.42	22.18	23	0				
10	QPSK	1	25	22.31	22.22	22.23						
10	QPSK	1	48	22.13	22.31	22.20						
10	QPSK	25	0	21.31	21.45	21.40	22	1				
10	QPSK	25	12	21.19	21.24	21.19						
10	QPSK	25	25	21.19	21.14	21.26						
10	HQAM	1	0	21.87	21.78	21.63	22	1				
10	HQAM	1	25	21.32	21.62	21.44						
10	HQAM	1	48	21.47	21.67	21.59						
10	HQAM	25	0	20.28	20.28	20.21	21	2				
10	HQAM	25	0	20.22	20.41	20.12						
10	HQAM	25	0	20.07	20.31	20.14						
10	HQAM	50	0	20.38	20.25	20.22	21	2				
10	HQAM	50	0	20.30	20.37	20.30						
10	HQAM	1	0	20.50	20.57	20.53						
10	HQAM	1	25	20.49	20.58	20.50	21	2				
10	HQAM	1	48	20.49	20.58	20.50						
10	HQAM	25	0	19.21	19.33	19.21						
10	HQAM	25	12	19.22	19.20	19.14	20	3				
10	HQAM	25	25	19.20	19.25	19.11						
10	HQAM	50	0	19.15	19.25	19.09						
10	HQAM	50	0	17.51	17.46	17.42	18	5				
10	HQAM	1	25	17.41	17.46	17.40						
10	HQAM	1	48	17.38	17.43	17.35						
10	HQAM	25	0	17.22	17.28	17.20	18	5				
10	HQAM	25	12	17.14	17.15	17.07						
10	HQAM	25	25	17.22	17.15	17.22						
10	HQAM	50	0	17.24	17.22	17.22						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.33	22.47	22.37	23	0				
5	QPSK	1	12	22.30	22.25	22.15						
5	QPSK	1	24	22.09	22.24	22.13						
5	QPSK	12	0	21.28	21.46	21.47	22	1				
5	QPSK	12	7	21.16	21.27	21.19						
5	QPSK	12	13	21.20	21.22	21.11						
5	HQAM	1	0	21.62	21.69	21.63	22	1				
5	HQAM	1	12	21.48	21.59	21.52						
5	HQAM	1	24	21.46	21.64	21.61						
5	HQAM	12	0	20.24	20.31	20.20	21	2				
5	HQAM	12	7	20.25	20.35	20.14						
5	HQAM	12	13	20.35	20.31	20.14						
5	HQAM	25	0	20.25	20.26	20.18	21	2				
5	HQAM	1	0	20.32	20.62	20.49						
5	HQAM	12	0	20.47	20.58	20.43						
5	HQAM	1	24	20.37	20.47	20.47	20	3				
5	HQAM	12	0	19.26	19.37	19.21						
5	HQAM	12	7	19.18	19.14	19.12						
5	HQAM	25	0	17.14	17.37	17.04	18	5				
5	HQAM	12	13	19.23	19.22	19.19						
5	HQAM	25	0	17.45	17.45	17.45						
5	HQAM	1	0	17.45	17.45	17.45	18	5				
5	HQAM	1	12	17.39	17.40	17.39						
5	HQAM	1	24	17.37	17.42	17.43						
5	HQAM	12	0	17.15	17.33	17.17	18	5				
5	HQAM	12	7	17.09	17.18	17.06						
5	HQAM	12	13	17.21	17.13	17.09						
5	HQAM	25	0	17.30	17.20	17.26						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.33	22.47	22.37	23	0				
5	QPSK	1	12	22.30	22.25	22.15						
5	QPSK	1	24	22.09	22.24	22.13						
5	QPSK	12	0	21.28	21.46	21.47	22	1				
5	QPSK	12	7	21.16	21.27	21.19						
5	QPSK	12	13	21.20	21.22	21.11						
5	HQAM	1	0	21.62	21.69	21.63	22	1				
5	HQAM	1	12	21.48	21.59	21.52						
5	HQAM	1	24	21.46	21.64	21.61						
5	HQAM	12	0	20.24	20.31	20.20	21	2				
5	HQAM	12	7	20.25	20.35	20.14						
5	HQAM	12	13	20.35	20.31	20.14						
5	HQAM	25	0	20.25	20.26	20.18	21	2				
5	HQAM	1	0	20.32	20.62	20.49						
5	HQAM	12	0	20.47	20.58	20.43						
5	HQAM	1	24	20.37	20.47	20.47	20	3				
5	HQAM	12	0	19.26	19.37	19.21						
5	HQAM	12	7	19.18	19.14	19.12						
5	HQAM	25	0	17.14	17.37	17.04	18	5				
5	HQAM	12	13	19.23	19.22	19.19						
5	HQAM	25	0	17.45	17.45	17.45						
5	HQAM	1	0	17.45	17.45	17.45	18	5				
5	HQAM	1	12	17.39	17.40	17.39						
5	HQAM	1	24	17.37	17.42	17.43						
5	HQAM	12	0	17.15	17.33	17.17	18	5				
5	HQAM	12	7	17.09	17.18	17.06						
5	HQAM	12	13	17.21	17.13	17.09						
5	HQAM	25	0	17.30	17.20	17.26						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.33	22.47	22.37	23	0				
5	QPSK	1	12	22.30	22.25	22.15						
5	QPSK	1	24	22.09	22.24	22.13						
5	QPSK	12	0	21.28	21.46	21.47	22	1				
5	QPSK	12	7	21.16	21.27	21.19						
5	QPSK	12	13	21.20	21.22	21.11						
5	HQAM	1	0	21.62	21.69	21.63	22	1				
5	HQAM	1	12	21.48	21.59	21.52						
5	HQAM	1	24	21.46	21.64	21.61						
5	HQAM	12	0	20.24	20.31	20.20	21	2				
5	HQAM	12	7	20.25	20.35	20.14						
5	HQAM	12	13	20.35	20.31	20.14						
5	HQAM	25	0	20.25	20.26	20.18	21	2				
5	HQAM	1	0	20.32	20.62	20.49						
5	HQAM	12	0	20.47	20.58	20.43						
5	HQAM	1	24	20.37	20.47	20.47	20	3				
5	HQAM	12	0	19.26	19.37	19.21						
5	HQAM	12	7	19.18	19.14	19.12						
5	HQAM	25	0	17.14	17.37	17.04	18	5				
5	HQAM	12	13	19.23	19.22	19.19						
5	HQAM	25	0	17.45	17.45	17.45						
5	HQAM	1	0	17.45	17.45	17.45	18	5				
5	HQAM	1	12	17.39	17.40	17.39						
5	HQAM	1	24	17.37	17.42	17.43						
5	HQAM	12	0	17.15	17.33	17.17	18	5				
5	HQAM	12	7	17.09	17.18	17.06						
5	HQAM	12	13	17.21	17.13	17.09						
5	HQAM	25	0	17.30	17.20	17.26						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.33	22.47	22.37	23	0				
5	QPSK	1	12	22.30	22.25	22.15						
5	QPSK	1	24	22.09	22.24	22.13						
5	QPSK	12	0	21.28	21.46	21.47	22	1				
5	QPSK	12	7	21.16	21.27	21.19						
5	QPSK	12	13	21.20	21.22	21.11						



Band 2 Ant 1														
BW [MHz]	Modulation	RB Size	RB Offset	Power [mW]	Power [mW]	Power [mW]	Turn-up [dB]	MPR [dB]	T	R	M			
Channel							Time (sec)	MPR (dB)						
Frequency [MHz]														
Ch. 1 [Freq.] Ch. 2 [Freq.] Ch. 3 [Freq.]														
20	QPSK	1	0	22.29	22.27	22.28			24	0				
20	QPSK	1	8	22.25	22.24	22.24								
20	QPSK	50	0	21.27	21.42	21.27								
20	QPSK	50	24	21.09	21.26	21.21								
20	QPSK	50	60	21.08	21.28	21.18			23	1				
20	QPSK	100	0	21.24	21.40	21.19								
20	QPSK	100	8	21.64	21.79	21.62								
20	QPSK	1	99	21.48	21.61	21.49								
20	QPSK	1	49	21.55	21.63	21.50			23	1				
20	QPSK	50	0	20.20	20.20	20.14								
20	QPSK	50	24	20.21	20.34	20.06								
20	QPSK	50	50	20.08	20.26	20.16								
20	QPSK	100	0	20.09	20.21	20.32			22	2				
20	QPSK	1	0	20.38	20.52	20.42								
20	QPSK	1	49	20.37	20.45	20.42								
20	QPSK	50	0	19.25	19.25	19.16								
20	QPSK	50	24	19.15	19.16	19.21			21	3				
20	QPSK	50	50	19.15	19.16	19.12								
20	QPSK	100	0	19.13	19.14	19.27								
20	QPSK	1	49	17.43	17.42	17.31								
20	QPSK	1	99	17.37	17.42	17.43			19	5				
20	QPSK	50	0	17.37	17.27	17.36								
20	QPSK	50	24	17.21	17.17	17.23								
20	QPSK	50	50	17.17	17.14	17.25								
20	QPSK	100	0	17.19	17.20	17.25								
Channel														
Frequency [MHz]														
15	QPSK	1	0	22.15	22.23	22.18			24	0				
15	QPSK	1	8	22.17	22.07	22.11								
15	QPSK	1	74	22.05	22.16	22.05								
15	QPSK	36	0	21.10	21.41	21.20								
15	QPSK	36	24	21.08	21.20	21.10			23	1				
15	QPSK	36	99	21.03	21.15	21.05								
15	QPSK	75	0	21.21	21.22	21.20								
15	QPSK	75	0	21.42	21.55	21.41								
15	QPSK	1	37	21.34	21.59	21.37			23	1				
15	QPSK	1	99	21.42	21.43	21.46								
15	QPSK	36	0	20.13	20.23	20.04								
15	QPSK	36	20	20.02	20.21	20.01								
15	QPSK	36	50	20.02	20.21	20.01			22	2				
15	QPSK	75	0	20.11	20.13	20.15								
15	QPSK	1	0	20.31	20.43	20.47								
15	QPSK	1	49	20.20	20.21	20.38								
15	QPSK	1	74	20.23	20.34	20.32			21	3				
15	QPSK	36	0	19.13	19.12	19.05								
15	QPSK	36	20	19.08	19.08	19.08								
15	QPSK	36	50	19.10	19.05	19.01								
15	QPSK	75	0	19.08	19.06	19.06			19	5				
15	QPSK	75	0	17.38	17.32	17.34								
15	QPSK	1	37	17.32	17.36	17.13								
15	QPSK	1	74	17.36	17.29	17.31								
15	QPSK	36	0	17.34	17.32	17.36			19	5				
15	QPSK	36	20	17.20	17.17	17.15								
15	QPSK	36	50	17.04	17.05	17.07								
15	QPSK	75	0	17.04	17.14	17.08								
Channel														
Frequency [MHz]														
10	QPSK	1	0	22.15	22.23	22.18			24	0				
10	QPSK	1	8	22.15	22.09	22.10								
10	QPSK	1	49	22.03	22.07	22.07								
10	QPSK	25	12	21.05	21.26	21.10								
10	QPSK	25	25	21.03	21.05	21.10			23	1				
10	QPSK	50	0	21.00	21.00	21.00								
10	QPSK	1	0	21.50	21.52	21.42								
10	QPSK	1	25	21.42	21.48	21.43								
10	QPSK	1	25	21.44	21.46	21.46			22	2				
10	QPSK	25	12	20.05	20.18	20.18								
10	QPSK	25	25	20.02	20.07	20.04								
10	QPSK	50	0	20.14	20.11	20.21								
10	QPSK	1	0	20.38	20.38	20.48			22	2				
10	QPSK	1	49	20.25	20.17	20.34								
10	QPSK	1	49	20.14	20.30	20.35								
10	QPSK	25	0	19.12	19.12	19.08								
10	QPSK	25	12	19.08	19.15	19.08			21	3				
10	QPSK	25	25	19.11	19.04	19.11								
10	QPSK	50	0	19.11	19.08	19.09								
10	QPSK	50	12	17.27	17.28	17.40								
10	QPSK	1	25	17.32	17.37	17.33			19	5				
10	QPSK	1	49	17.37	17.38	17.36								
10	QPSK	25	12	17.20	17.22	17.36								
10	QPSK	25	25	17.10	17.06	17.09								
Channel														
Frequency [MHz]														
5	QPSK	1	0	22.20	22.24	22.22			24	0				
5	QPSK	1	8	22.08	22.12	22.04								
5	QPSK	1	24	22.07	22.12	22.00								
5	QPSK	12	7	21.16	21.17	21.05								
5	QPSK	12	13	21.06	21.14	21.11			23	1				
5	QPSK	25	12	21.14	21.25	21.10								
5	QPSK	1	0	21.48	21.63	21.41								
5	QPSK	1	12	21.45	21.58	21.37								
5	QPSK	1	14	21.41	21.50	21.47			23	1				
5	QPSK	12	6	20.07	20.24	20.05								
5	QPSK	12	7	20.03	20.23	20.25								
5	QPSK	25	12	20.03	20.10	20.08								
5	QPSK	25	25	20.02	20.13	20.14			22	2				
5	QPSK	50	0	20.02	20.15	20.14								
5	QPSK	1	0	20.27	20.46	20.38								
5	QPSK	1	24	20.24	20.39	20.38								
5	QPSK	1	12	20.24	20.35	20.38			22	2				
5	QPSK	1	24	20.20	20.26	20.34								
5	QPSK	12	0	19.12	19.21	19.08								
5	QPSK	12	13	19.08	19.15	19.08								
5	QPSK	25	12	19.13	19.07	19.00			21	3				
5	QPSK	25	25	19.11	19.01	19.15								
5	QPSK	50	0	17.38	17.28	17.40								
5	QPSK	1	12	17.32	17.37	17.33								
5	QPSK	1	24	17.30	17.31	17.26			19	5				
5	QPSK	12	6	17.20	17.22	17.36								
5	QPSK	12	7	17.08	17.02	17.06								
5	QPSK	12	13	17.06	17.15	17.03								
Channel														
Frequency [MHz]														
3	QPSK	1	0	22.23	22.31	22.24			24	0				
3	QPSK	1	8	22.19	22.06	22.09								
3	QPSK	1	24	22.07	22.12	22.00								
3	QPSK	8	4	21.11	21.23	21.09								
3	QPSK	8	4	21.02	21.10	21.02			23	1				
3	QPSK	16	0	21.13	21.30	21.17								
3	QPSK	1	0	21.44	21.46	21.43								
3	QPSK	1	8	21.41	21.45	21.43								
3	QPSK	8	4	20.08	20.22	20.09			23	1				
3	QPSK	8	4	20.02	20.21	20.21								
3	QPSK	16	0	20.04	20.21	20.16								
3	QPSK	1	19	20.02	20.12	20.03								
3	QPSK	1	19	20.02	20.12	20.03			22	2				
3	QPSK	8	4	20.25	20.30	20.34								
3	QPSK	1	14	20.13	20.25	20.26								
3	QPSK	8	4	19.15	19.16	19.18								
3	QPSK	8	4	19.05	19.08	19.11			21	3				
3	QPSK	16	0	19.02	19.03	19.03								
3	QPSK	1	19	19.05	19.03	19.08								
3	QPSK	1	14	17.37	17.36	17.39								
3	QPSK	1	14	17.32	17.34	17.38			19	5				
3	QPSK	8	4	17.27	17.27	17.31								
3	QPSK	8	4	17.06	17.11	17.08								
3	QPSK	16	0	17.06	17.06	17.06								
3	QPSK	8	7	17.07	17.03	17.10								
3	QPSK	16	0	17.68	17.10	17.02								
Channel														
Frequency [MHz]														
1.4	QPSK	1	0	22.15	22.25	22.22			24	0				
1.4	QPSK	1	8	22.15	22.09	22.10								
1.4	QPSK	1	49	22.05	22.16	22.05								
1.4	QPSK	3	0	21.13	21.28	21.02								
1.4	QPSK	3	0	21.03	21.03	21.03			23	1				
1.4	QPSK	3	8	21.11	21.23	21.09								
1.4	QPSK	3	8	21.02	21.10	21.02								
1.4	QPSK	16	0	21.13	21.30	21.17								
1.4	QPSK	1	0	21.44	21.46	21.43			23	1				
1.4	QPSK	1	8	21.41	21.45	21.43								
1.4	QPSK	3	8	20.08	20.22	20.09								
1.4	QPSK	3	8	20.02	20.21	20.21								
1.4	QPSK	3	8	20.04	20.21	20.16			22	2				
1.4	QPSK	16	0	20.02	20.12	20.03								
1.4	QPSK	1	19	20.02	20.12	20.03								
1.4	QPSK	1	19	20.02	20.12	20.03								
1.4	QPSK	3	8	20.25	20.30	20.34			22	2				
1.4	QPSK	1	14	20.13	20.25	20.26								
1.4	QPSK	3	8	19.15	19.16	19.18								
1.4	QPSK	3	8	19.05	19.08	19.11								
1.4	QPSK	16	0	19.02	19.03	19.03			21	3				
1.4	QPSK	1	19	19.05	19.03	19.08								
1.4	QPSK	1	14	17.37	17.36	17.39								
1.4	QPSK	1	14	17.32	17.34	17.38								
1.4	QPSK	3	8	17.27	17.27	17.31			19	5				
1.4	QPSK	3	8	17.06	17.11	17.08								
1.4	QPSK	16	0	17.06	17.06	1								



Band 38 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / [Freq]	Power Mid Ch / [Freq]	Power High Ch / [Freq]	Turn-up time (dBm)	MFR (dB)	
Channel									
Frequency (MHz)				37465	38050	38150			
20	QPSK	1	0	22.76	22.84	22.86			
20	QPSK	1	48	22.84	22.87	22.84	24	0	
20	QPSK	1	88	22.86	22.92	22.90			
20	QPSK	50	0	21.64	21.52	21.70			
20	QPSK	50	24	21.58	21.74	21.55	23	1	
20	QPSK	50	48	21.50	21.63	21.68			
20	QPSK	100	0	21.73	21.79	21.72			
20	HQAM	1	0	21.52	22.07	22.07	23	1	
20	HQAM	1	48	21.58	22.10	21.91			
20	HQAM	1	96	21.86	22.04	21.96			
20	HQAM	50	24	20.54	20.76	20.64	22	2	
20	HQAM	50	48	20.52	20.68	20.61			
20	HQAM	100	0	20.72	20.85	20.82			
20	BAGAM	1	0	20.57	20.55	20.52			
20	BAGAM	1	48	20.78	20.89	20.80	22	2	
20	BAGAM	1	96	20.71	20.85	20.76			
20	BAGAM	50	0	19.50	19.72	19.63			
20	BAGAM	50	24	19.53	19.65	19.52	21	3	
20	BAGAM	50	50	19.52	19.59	19.57			
20	BAGAM	100	0	19.58	19.65	19.55			
20	25QAM	1	0	17.79	17.85	17.83			
20	25QAM	1	48	17.84	17.89	17.75	19	5	
20	25QAM	1	96	17.77	17.83	17.78			
20	25QAM	50	0	17.57	17.73	17.68			
20	25QAM	50	24	17.52	17.58	17.40	19	5	
20	25QAM	50	50	17.40	17.55	17.51			
20	25QAM	100	0	17.50	17.55	17.50			
Channel									
Frequency (MHz)				37425	38050	38175	Turn-up time (dBm)	MFR (dB)	
15	QPSK	1	12	22.74	22.75	22.72			
15	QPSK	1	37	22.82	22.89	22.82	24	0	
15	QPSK	1	74	22.82	22.84	22.45			
15	QPSK	36	0	21.60	21.71	21.68			
15	QPSK	36	20	21.49	21.65	21.53	23	1	
15	QPSK	36	36	21.47	21.70	21.70			
15	QPSK	75	0	21.62	21.70	21.70			
15	HQAM	1	0	21.83	22.01	22.06			
15	HQAM	1	37	21.82	22.04	21.93	23	1	
15	HQAM	1	74	21.84	22.03	21.92			
15	HQAM	36	0	20.68	20.65	20.56			
15	HQAM	36	20	20.67	20.78	20.67	22	2	
15	HQAM	36	36	20.43	20.68	20.59			
15	HQAM	75	0	20.62	20.60	20.59			
15	HQAM	75	20	20.54	20.64	20.54			
15	BAGAM	1	0	20.70	20.97	20.88	22	2	
15	BAGAM	1	74	20.67	20.75	20.84			
15	BAGAM	36	0	19.50	19.65	19.54			
15	BAGAM	36	20	19.43	19.69	19.44	21	3	
15	BAGAM	36	36	19.50	19.55	19.45			
15	BAGAM	75	0	19.50	19.55	19.45			
15	25QAM	1	0	17.71	17.82	17.82			
15	25QAM	1	37	17.77	17.77	17.77	19	5	
15	25QAM	1	74	17.77	17.77	17.77			
15	25QAM	36	0	17.53	17.62	17.53			
15	25QAM	36	20	17.54	17.63	17.63	19	5	
15	25QAM	36	36	17.48	17.51	17.42			
15	25QAM	75	0	17.56	17.54	17.47			
Channel									
Frequency (MHz)				2471	2516	2517	Turn-up time (dBm)	MFR (dB)	
10	QPSK	1	0	22.67	22.70	22.69	24	0	
10	QPSK	1	25	22.56	22.57	22.42			
10	QPSK	1	48	22.40	22.40	22.40			
10	QPSK	1	88	22.57	22.59	22.57			
10	QPSK	25	12	21.47	21.73	21.46	23	1	
10	QPSK	25	25	21.60	21.52	21.38			
10	QPSK	50	0	21.83	21.86	22.00			
10	HQAM	1	0	21.88	21.86	22.00	23	1	
10	HQAM	1	25	21.86	22.03	21.81			
10	HQAM	1	48	21.85	21.89	21.84			
10	HQAM	25	0	20.65	20.69	20.55	22	2	
10	HQAM	25	12	20.44	20.74	20.48			
10	HQAM	25	25	20.42	20.56	20.50			
10	HQAM	50	0	20.61	20.55	20.59			
10	BAGAM	1	0	20.62	20.68	20.60			
10	BAGAM	1	25	20.76	20.58	20.83	22	2	
10	BAGAM	1	48	20.61	20.75	20.82			
10	BAGAM	25	0	19.53	19.64	19.60			
10	BAGAM	25	12	19.51	19.52	19.41	21	3	
10	BAGAM	25	25	19.51	19.54	19.53			
10	BAGAM	50	0	19.54	19.64	19.51			
10	25QAM	1	0	17.67	17.80	17.77			
10	25QAM	1	25	17.76	17.76	17.75	19	5	
10	25QAM	1	48	17.76	17.77	17.71			
10	25QAM	25	0	17.54	17.65	17.53			
10	25QAM	25	12	17.54	17.67	17.50	19	5	
10	25QAM	25	25	17.54	17.47	17.42			
10	25QAM	50	0	17.59	17.65	17.50			
Channel									
Frequency (MHz)				2517.5	2516	2517.5	Turn-up time (dBm)	MFR (dB)	
5	QPSK	1	0	22.65	22.75	22.68	24	0	
5	QPSK	1	12	22.54	22.57	22.51			
5	QPSK	1	24	22.42	22.55	22.47			
5	QPSK	12	0	21.60	21.76	21.75			
5	QPSK	12	7	21.52	21.67	21.68	23	1	
5	QPSK	12	13	21.56	21.57	21.43			
5	QPSK	25	0	21.86	21.73	21.67			
5	HQAM	1	0	21.88	22.03	22.04			
5	HQAM	1	12	21.80	22.05	21.82	23	1	
5	HQAM	1	24	21.76	21.96	21.86			
5	HQAM	12	0	20.64	20.71	20.55			
5	HQAM	12	7	20.47	20.65	20.44	22	2	
5	HQAM	12	13	20.52	20.65	20.56			
5	HQAM	25	0	20.66	20.68	20.55			
5	HQAM	25	1	20.63	20.80	20.81			
5	HQAM	25	12	20.69	20.81	20.83	22	2	
5	BAGAM	1	0	20.69	20.79	20.83			
5	BAGAM	1	12	19.66	19.66	19.44	21	3	
5	BAGAM	1	24	19.47	19.51	19.42			
5	BAGAM	12	0	19.50	19.58	19.50			
5	BAGAM	12	13	19.61	19.56	19.47			
5	BAGAM	25	0	19.50	19.58	19.50			
5	BAGAM	25	1	19.70	17.76	17.72			
5	25QAM	1	12	17.79	17.83	17.70	19	5	
5	25QAM	1	24	17.77	17.81	17.77			
5	25QAM	12	0	17.46	17.62	17.50			
5	25QAM	12	13	17.59	17.59	17.40	19	5	
5	25QAM	25	0	17.54	17.60	17.49			

Band 41 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / [Freq]	Power Mid Ch / [Freq]	Power High Ch / [Freq]	Power Low Ch / [Freq]	Power High Ch / [Freq]	
Channel									
Frequency (MHz)				39750	40185	40620	41055	41490	
20	QPSK	1	0	23.24	23.43	23.21	23.54	23.15	
20	QPSK	1	48	23.27	23.31	23.10	23.19	23.07	24
20	QPSK	1	96	23.13	23.37	23.30	23.11	23.09	
20	QPSK	50	0	22.28	22.30	22.19	22.30	22.28	
20	QPSK	50	24	22.16	22.31	22.63	22.14	22.10	23
20	QPSK	50	48	22.15	22.26	22.25	22.25	22.25	
20	QPSK	100	0	22.33	22.42	22.18	22.34	22.15	
20	16QAM	1	0	22.81	22.70	22.42	22.64	22.48	23
20	16QAM	1	48	22.86	22.81	22.59	22.59	22.45	
20	16QAM	1	96	22.47	22.81	22.46	22.57	22.44	
20	16QAM	50	24	21.19	21.30	21.11	21.16	21.10	22
20	16QAM	50	24	21.13	21.28	21.13	21.24	21.05	
20	16QAM	50	50	21.15	21.13	21.01	21.10	21.04	
20	16QAM	100	0	21.22	21.26	21.07	21.10	21.07	
20	64QAM	1	0	21.42	21.55	21.34	21.43	21.41	22
20	64QAM	1	48	21.40	21.47	21.33	21.43	21.38	
20	64QAM	1	96	21.32	21.40	21.28	21.31	21.43	22
20	64QAM	50	0	20.27	20.29	20.10	20.19	20.09	
20	64QAM	50	24	20.19	20.25	20.02	20.15	20.03	21
20	64QAM	50	50	20.10	20.11	20.08	20.04	19.99	
20	64QAM	100	0	20.12	20.23	20.07	20.08	19.97	
20	25QAM	1	0	18.46	18.46	18.31	18.37	18.33	19
20	25QAM	1	48	18.39	18.45	18.31	18.35	18.34	
20	25QAM	1	96	18.40	18.39	18.29	18.38	18.36	
20	25QAM	50	0	18.16	18.34	18.12	18.19	18.06	
20	25QAM	50	24	18.07	18.18	17.97	18.05	17.97	19
20	25QAM	50	50	18.15	18.20	18.09	18.04	18.02	
20	25QAM	100	0	18.20	18.15	18.01	18.15	18.04	
Channel									
Frequency (MHz)				39725	40173	40620	41055	41490	
20	QPSK	1	0	23.24	23.43	23.21	23.54	23.15	
20	QPSK	1	37	23.19	23.25	22.98	23.11	22.95	24
20	QPSK	1	74	23.08	23.34	22.90	22.98	23.01	
20	QPSK	50	0	22.28	22.30	22.19	22.30	22.28	
20	QPSK	50	24	22.16	22.31	22.63	22.14	22.10	23
20	QPSK	50	48	22.15	22.26	22.25	22.25	22.25	
20	QPSK	100	0	22.33	22.42	22.18	22.34	22.15	
20	QPSK	75	0	22.33	22.38	22.10	22.27	22.08	
20	16QAM	1	0	22.82	22.87	22.59	22.53	22.38	23
20	16QAM	1	48	22.87	22.81	22.59	22.59	22.45	
20	16QAM	1	74	22.38	22.88	22.42	22.50	22.31	
20	16QAM	50	0	21.10	21.27	21.05	21.06	21.10	
20	16QAM	50	24	21.08	21.14	21.01	21.09	21.02	22
20	16QAM	50	48	21.04	21.10	20.98	21.02	21.01	
20	16QAM	75	0	21.05	21.11	21.01	21.01	21.02	
20	16QAM	50	0	21.30	21.51	21.24	21.38	21.32	
20	64QAM	1	37	21.27	21.41	21.30	21.37	21.31	22
20	64QAM	1	74	21.33	21.51	21.21	21.37	21.31	
20	64QAM	50	0	20.20	20.21	20.03	20.04	19.95	
20	64QAM	50	24	20.12	20.16	19.95	20.07	19.94	21
20	64QAM	50	48	20.10	20.11	19.95	19.97	19.94	
20	64QAM	75	0	20.03	20.12	19.95	20.00	19.94	
20	25QAM	1	0	18.46	18.46	18.31	18.37	18.33	19
20	25QAM	1	37	18.36	18.42	18.17	18.22	18.15	19
20	25QAM	1	74	18.24	18.30	18.16	18.21	18.23	
20	25QAM	50	0	18.02	18.16	17.95	18.00	17.95	
20	25QAM	50	24	17.98	18.16	17.89	18.00	17.95	19
20	25QAM	50	48	18.07	18.17	18.05	17.96	17.97	19
20	25QAM	100	0	18.12	18.11	18.01	18.01	18.02	
Channel									
Frequency (MHz)				39700	40140	40620	41080	41460	
20	QPSK	1	0	23.24	23.43	23.21	23.54	23.15	
20	QPSK	1	25	23.24	23.24	23.07	23.20	22.95	24
20	QPSK	1	50	23.17	23.38	23.13	23.17	23.01	
20	QPSK	25	0	22.27	22.29	22.13	22.25	22.14	
20	QPSK	25	12	22.26	22.34	21.86	22.12	22.02	23
20	QPSK	25	25	22.13	22.15	22.00	22.08	21.98	
20	QPSK	50	0	22.30	22.29	22.14	22.23	22.08	
20	16QAM	1	0	22.84	22.83	22.58	22.56	22.38	23
20	16QAM	1	25	22.46	22.47	22.24	22.27	22.13	
20	16QAM	1	48	22.34	22.48	22.38	22.47	22.38	
20	16QAM	25	0	21.88	21.18	21.06	21.11	21.04	
20	16QAM	25	12	21.02	21.28	21.04	21.28	21.04	21
20	16QAM	25	25	21.08	21.10	20.90	21.00	20.92	
20	16QAM	50	0	21.12	21.06	20.90	21.02	21.02	
20	64QAM	1	0	21.34	21.45	21.28	21.38	21.27	
20	64QAM	1	25	21.35	21.43	21.31	21.37	21.29	22
20	64QAM	1	48	21.30	21.38	21.24	21.31	21.25	
20	64QAM	25	0	20.15	20.18	20.02	20.07	20.04	
20	64QAM	25	12	20.11	20.14	19.95	20.07	20.00	21
20	64QAM	25	25	20.11	20.14	19.95	20.07	19.99	
20	64QAM	50	0	20.03	20.19	19.98	19.99	19.92	
20	64QAM	50	25	19.97	19.43	19.77	19.94	19.79	22
20	25QAM	1	0	18.31	18.37	18.16	18.22	18.16	
20	25QAM	1	48	18.38	18.35	18.26	18.36	18.26	
20	25QAM	25	0	18.13	18.25	17.95	18.05	17.95	19
20	25QAM	25	12	17.96	18.10	17.83	18.06	17.90	19
20	25QAM	25	25	18.13	18.15	18.05	17.97	17.93	
20	25QAM	50	0	18.15	18.06	18.13	18.01	18.01	
Channel									
Frequency (MHz)				39675	40146	40620	41080	41460	
5	QPSK	1	0	23.26	23.38	23.13	23.46	23.12	
5	QPSK	1	12	23.18	23.22	23.02	23.14	22.95	24
5	QPSK	1	24	23.05	23.21	22.98	23.10	22.91	
5	QPSK	12	0	22.31	22.26	22.11	22.20	22.18	
5	QPSK	12	7	22.13	22.25	22.08	22.08	22.07	23
5	QPSK	12	14	22.03	22.14	22.02	22.08	22.08	
5	QPSK	25	0	22.26	22.37	22.11	22.24	22.06	
5	16QAM	1	0	22.87	22.83	22.53	22.56	22.39	23
5	16QAM	1	12	22.84	22.84	22.54	22.52	22.34	
5	16QAM	1	24	22.39	22.57	22.40	22.48	22.32	
5	16QAM	12	0	21.56	21.56	21.36	21.42	21.22	22
5	16QAM	12	7	21.06	21.19	21.06	21.18	21.03	
5	16QAM	12	13	21.08	21.07	20.87	21.05	20.91	
5	64QAM	1	0	21.16	21.14	21.04	21.12	21.08	
5	64QAM	1	5	21.33	21.47	21.31	21.38	21.36	22
5	64QAM	1	12	21.20	21.39	21.30	21.40	21.31	
5	64QAM	12	0	20.24	20.24	20.04	20.04	19.99	
5	64QAM	12	5	20.25	20.24	19.97	20.10	20.03	
5	64QAM	12	7	20.09	20.12	19.96	20.13	20.06	21
5	64QAM	12	13	20.09	20.14	19.95	20.07	19.98	
5	25QAM	1	0	20.03	20.21	20.01	20.04	19.91	
5	25QAM	1	5	18.41	18.36	18.27	18.34	18.23	19
5	25QAM	12	0	18.38	18.32	18.22	18.31	18.18	
5	25QAM	12	24	18.29	18.34	18.18	18.22	18.26	19
5	25QAM	12	13	18.35	18.35	18.21	18.21	18.21	
5	25QAM	12	7	17.94	18.15	17.89	17.97	17.85	19
5	25QAM	12	13	18.07	18.09	18.00	17.96	17.91	19



Band 38 Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)		
Channel										
Frequency (MHz)				37965	38050	38135				
20	QPSK	1	0	22.57	22.63	22.69	24	0		
20	QPSK	1	48	22.44	22.48	22.39				
20	QPSK	50	0	22.56	22.67	22.65				
20	QPSK	50	24	21.41	21.53	21.39				
20	HQAM	50	0	21.57	21.67	21.66	23	1		
20	HQAM	100	0	21.52	21.65	21.56				
20	HQAM	1	0	21.58	21.67	21.78				
20	HQAM	1	48	21.71	21.67	21.66				
20	HQAM	1	96	21.74	21.84	21.76	23	1		
20	HQAM	50	0	20.47	20.50	20.39				
20	HQAM	50	24	20.35	20.51	20.37				
20	HQAM	50	50	20.29	20.42	20.34				
20	HQAM	100	0	19.35	19.45	19.44	22	2		
20	256QAM	1	0	17.87	17.85	17.70				
20	256QAM	1	48	17.75	17.79	17.68				
20	256QAM	1	96	17.65	17.58	17.62				
20	256QAM	50	0	17.47	17.44	17.37	19	5		
20	256QAM	50	24	17.38	17.33	17.32				
20	256QAM	50	50	17.35	17.44	17.32				
20	256QAM	100	0	17.45	17.48	17.34				
Channel										
Frequency (MHz)				37925	38050	38175	Tune-up limit (dBm)	MFR (dB)		
15	QPSK	1	0	22.73	22.75	22.74	24	0		
15	QPSK	1	37	22.38	22.39	22.34				
15	QPSK	1	74	22.28	22.38	22.35				
15	QPSK	36	0	21.55	21.60	21.68				
15	QPSK	36	20	21.35	21.41	21.36	23	1		
15	QPSK	36	38	21.52	21.58	21.65				
15	QPSK	75	0	21.45	21.56	21.45				
15	HQAM	1	0	21.69	21.54	21.73				
15	HQAM	1	37	21.46	21.51	21.61	23	1		
15	HQAM	1	74	21.65	21.75	21.72				
15	HQAM	36	0	20.40	20.42	20.27				
15	HQAM	36	20	20.32	20.40	20.32				
15	HQAM	36	38	20.26	20.33	20.31	22	2		
15	HQAM	75	0	20.44	20.40	20.27				
15	HQAM	75	0	19.38	19.50	19.36				
15	HQAM	1	37	20.54	20.59	20.69				
15	HQAM	1	74	20.51	20.62	20.68	22	2		
15	HQAM	36	0	19.38	19.50	19.36				
15	HQAM	36	20	19.29	19.49	19.35				
15	HQAM	36	38	19.46	19.51	19.55				
15	HQAM	75	0	19.51	19.57	19.55	21	3		
15	256QAM	1	0	17.57	17.61	17.66				
15	256QAM	1	37	17.57	17.59	17.57				
15	256QAM	36	0	17.38	17.38	17.25				
15	256QAM	36	20	17.42	17.42	17.27	19	5		
15	256QAM	36	38	17.34	17.36	17.23				
15	256QAM	75	0	17.40	17.41	17.28				
Channel										
Frequency (MHz)				37900	38050	38200	Tune-up limit (dBm)	MFR (dB)		
10	QPSK	1	0	22.61	22.61	22.61	24	0		
10	QPSK	1	25	22.59	22.54	22.58				
10	QPSK	1	48	22.30	22.38	22.38				
10	QPSK	25	0	21.52	21.52	21.52				
10	QPSK	25	12	21.32	21.44	21.37	23	1		
10	QPSK	25	25	21.30	21.29	21.32				
10	HQAM	1	0	21.78	21.67	21.78				
10	HQAM	1	0	21.78	21.67	21.78				
10	HQAM	1	25	21.61	21.80	21.65	23	1		
10	HQAM	1	48	21.71	21.79	21.72				
10	HQAM	25	0	20.46	20.49	20.34				
10	HQAM	25	0	20.38	20.44	20.35				
10	HQAM	25	25	20.38	20.53	20.48	22	2		
10	HQAM	50	0	20.41	20.45	20.34				
10	HQAM	50	0	20.45	20.48	20.38				
10	HQAM	50	25	20.52	20.67	20.65				
10	HQAM	1	48	20.56	20.62	20.62	22	2		
10	HQAM	25	0	19.44	19.43	19.39				
10	HQAM	25	12	19.27	19.40	19.29				
10	HQAM	25	25	19.32	19.26	19.35				
10	HQAM	50	0	19.31	19.34	19.20	21	3		
10	256QAM	1	0	17.64	17.59	17.64				
10	256QAM	1	25	17.53	17.64	17.58				
10	256QAM	1	48	17.55	17.59	17.58				
10	256QAM	25	0	17.31	17.36	17.25	19	5		
10	256QAM	25	12	17.36	17.31	17.36				
10	256QAM	25	25	17.31	17.42	17.22				
10	256QAM	50	0	17.40	17.40	17.33				
10	256QAM	50	25	17.42	17.42	17.29				
Channel										
Frequency (MHz)				37975	38050	38225	Tune-up limit (dBm)	MFR (dB)		
5	QPSK	1	0	22.65	22.65	22.65	24	0		
5	QPSK	1	12	22.60	22.35	22.30				
5	QPSK	1	24	22.28	22.40	22.38				
5	QPSK	12	0	21.45	21.66	21.61				
5	QPSK	12	7	21.34	21.49	21.30	23	1		
5	QPSK	12	13	21.31	21.29	21.30				
5	HQAM	1	0	21.75	21.63	21.76				
5	HQAM	1	12	21.59	21.66	21.62				
5	HQAM	1	24	21.64	21.63	21.76	23	1		
5	HQAM	12	0	20.45	20.47	20.38				
5	HQAM	12	7	20.28	20.44	20.34				
5	HQAM	12	13	20.26	20.41	20.35				
5	HQAM	25	0	20.38	20.47	20.25	22	2		
5	HQAM	25	0	20.60	20.61	20.77				
5	HQAM	25	13	20.58	20.67	20.76				
5	HQAM	1	24	20.56	20.66	20.64				
5	HQAM	12	0	19.44	19.42	19.34	21	3		
5	HQAM	12	7	19.28	19.38	19.31				
5	HQAM	12	13	19.41	19.52	19.24				
5	HQAM	25	0	19.35	19.43	19.18				
5	256QAM	1	0	17.58	17.55	17.65	19	5		
5	256QAM	1	12	17.53	17.63	17.47				
5	256QAM	1	24	17.54	17.53	17.60				
5	256QAM	12	0	17.37	17.33	17.28				
5	256QAM	12	7	17.38	17.32	17.23	19	5		



Band 38 Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel									
Frequency (MHz)				37965	38050	38135			
20	QPSK	1	0	22.75	22.75	22.75		24	0
20	QPSK	1	48	22.81	22.86	22.94			
20	QPSK	50	0	22.46	22.51	22.57			
20	QPSK	50	0	21.71	21.79	21.77			
20	QPSK	50	24	21.54	21.71	21.54		23	1
20	QPSK	50	48	21.34	21.59	21.65			
20	QPSK	100	0	21.70	21.85	21.66			
20	QPSK	100	0	21.94	22.06	22.06		23	1
20	QPSK	100	24	20.57	20.76	20.87			
20	QPSK	50	24	20.57	20.58	20.59		22	2
20	QPSK	50	50	20.47	20.58	20.59			
20	QPSK	100	0	20.51	20.55	20.55			
20	QPSK	100	0	20.51	20.55	20.55			
20	QPSK	100	24	20.76	20.84	20.89		22	2
20	QPSK	100	48	20.75	20.89	20.88			
20	QPSK	50	0	19.54	19.54	19.53			
20	QPSK	50	24	19.51	19.57	19.51		21	3
20	QPSK	50	50	19.57	19.57	19.45			
20	QPSK	100	0	19.58	19.59	19.47			
20	QPSK	100	0	17.75	17.84	17.89			
20	QPSK	100	48	17.77	17.86	17.74		19	5
20	QPSK	100	0	17.79	17.77	17.85			
20	QPSK	50	0	17.57	17.62	17.62			
20	QPSK	50	24	17.50	17.57	17.57		19	5
20	QPSK	50	50	17.57	17.59	17.42			
20	QPSK	100	0	17.57	17.59	17.42			
Channel									
Frequency (MHz)				37925	38050	38175	Tune-up limit (dBm)	MFR (dB)	
15	QPSK	1	0	22.72	22.69	22.72			
15	QPSK	1	37	22.89	22.81	22.43		24	0
15	QPSK	1	74	22.36	22.86	22.46			
15	QPSK	36	0	21.61	21.69	21.61			
15	QPSK	36	20	21.43	21.69	21.45		23	1
15	QPSK	36	36	21.62	21.77	21.65			
15	QPSK	75	0	21.94	22.05	21.94			
15	QPSK	75	37	21.51	21.59	21.59		23	1
15	QPSK	75	74	21.51	21.58	21.58			
15	QPSK	36	0	20.58	20.71	20.46			
15	QPSK	36	20	20.53	20.58	20.58		22	2
15	QPSK	36	36	20.37	20.52	20.40			
15	QPSK	75	0	20.57	20.56	20.50			
15	QPSK	75	0	20.50	20.50	20.50			
15	QPSK	1	37	20.59	20.84	20.81		22	2
15	QPSK	74	24	20.51	20.84	20.81			
15	QPSK	36	0	19.54	19.59	19.54			
15	QPSK	36	20	19.50	19.54	19.41		21	3
15	QPSK	36	36	19.54	19.54	19.41			
15	QPSK	75	0	19.54	19.57	19.41			
15	QPSK	75	0	17.49	17.49	17.52			
15	QPSK	75	37	17.49	17.49	17.52		19	5
15	QPSK	75	74	17.49	17.49	17.52			
Channel									
Frequency (MHz)				2475	2475	2475	Tune-up limit (dBm)	MFR (dB)	
10	QPSK	1	0	22.58	22.58	22.58		24	0
10	QPSK	1	25	22.58	22.61	22.42			
10	QPSK	1	48	22.38	22.60	22.47			
10	QPSK	25	0	21.52	21.52	21.43		23	1
10	QPSK	25	12	21.52	21.56	21.43			
10	QPSK	25	25	21.60	21.58	21.56			
10	QPSK	25	37	21.51	21.52	21.54		23	1
10	QPSK	1	0	21.82	22.06	21.87			
10	QPSK	1	25	21.83	21.83	21.88			
10	QPSK	1	48	21.87	21.82	21.84		22	2
10	QPSK	25	0	20.51	20.67	20.50			
10	QPSK	25	12	20.50	20.52	20.46			
10	QPSK	25	25	20.50	20.58	20.44		22	2
10	QPSK	25	37	20.52	20.54	20.54			
10	QPSK	1	0	20.72	20.51	20.50		22	2
10	QPSK	1	48	20.72	20.79	20.76			
10	QPSK	25	0	19.56	19.63	19.52			
10	QPSK	25	12	19.46	19.46	19.40		21	3
10	QPSK	25	25	19.47	19.49	19.45			
10	QPSK	50	0	19.56	19.51	19.39			
10	QPSK	50	0	17.66	17.79	17.76			
10	QPSK	1	0	17.75	17.76	17.75		19	5
10	QPSK	1	48	17.73	17.66	17.73			
10	QPSK	25	0	17.48	17.51	17.41			
10	QPSK	25	12	17.46	17.54	17.36		19	5
10	QPSK	25	25	17.48	17.51	17.32			
10	QPSK	50	0	17.61	17.63	17.42			
Channel									
Frequency (MHz)				2517.5	2515	2517.5	Tune-up limit (dBm)	MFR (dB)	
5	QPSK	1	0	22.54	22.73	22.62		24	0
5	QPSK	1	12	22.50	22.58	22.51			
5	QPSK	1	24	22.34	22.59	22.39			
5	QPSK	12	0	21.68	21.68	21.71			
5	QPSK	12	7	21.52	21.66	21.52		23	1
5	QPSK	12	13	21.56	21.61	21.55			
5	QPSK	25	0	21.67	21.71	21.65			
5	QPSK	25	0	21.82	21.87	22.01		23	1
5	QPSK	1	12	21.88	21.88	21.83			
5	QPSK	1	24	21.85	22.01	21.82			
5	QPSK	12	0	20.60	20.76	20.54			
5	QPSK	12	7	20.49	20.57	20.50		22	2
5	QPSK	12	13	20.45	20.48	20.47			
5	QPSK	25	0	20.55	20.58	20.46			
5	QPSK	25	0	20.76	20.85	20.79			
5	QPSK	12	0	20.69	20.82	20.66		22	2
5	QPSK	1	24	20.67	20.82	20.87			
5	QPSK	12	0	19.56	19.56	19.43			
5	QPSK	12	7	19.45	19.56	19.45		21	3
5	QPSK	12	13	19.49	19.54	19.45			
5	QPSK	25	0	17.57	17.67	17.61			
5	QPSK	25	0	17.67	17.74	17.65		19	5
5	QPSK	1	12	17.76	17.77	17.69			
5	QPSK	1	24	17.73	17.76	17.61			
5	QPSK	12	0	17.36	17.36	17.47			
5	QPSK	12	7	17.48	17.56	17.35		19	5
5	QPSK	12	13	17.47	17.53	17.37			
5	QPSK	25	0	17.52	17.55	17.51			

Band 41 Ant 10											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel											
Frequency (MHz)				39790	40185	40620	41055	41490			
20	QPSK	1	0	23.34	23.29	23.21	23.24	23.14			
20	QPSK	1	48	23.18	23.14	23.05	23.13	23.06			0
20	QPSK	1	96	23.17	23.02	22.97	23.04	23.01			
20	QPSK	50	0	22.35	22.32	22.17	22.23	22.25			
20	QPSK	50	24	22.36	22.09	22.01	22.14	22.07			23
20	QPSK	50	48	22.13	22.05	22.01	22.08	22.08			1
20	QPSK	100	0	22.34	22.21	22.15	22.23	22.13			
20	16QAM	1	0	22.81	22.50	22.40	22.48	22.46			
20	16QAM	1	48	22.51	22.49	22.39	22.45	22.38			
20	16QAM	1	96	22.63	22.46	22.35	22.48	22.38			1
20	16QAM	50	0	21.25	21.13	21.13	21.26	21.01			
20	16QAM	50	24	21.23	21.13	20.96	21.10	21.01			
20	16QAM	50	50	21.14	21.08	20.89	20.97	21.05			2
20	16QAM	100	0	21.42	21.15	21.00	21.20	21.14			
20	16QAM	100	0	21.52	21.42	21.37	21.45	21.44			
20	16QAM	100	24	21.47	21.40	21.30	21.48	21.31			2
20	16QAM	100	48	21.35	21.43	21.31	21.35	21.33			
20	16QAM	50	0	20.23	20.08	20.09	20.08	20.05			
20	16QAM	50	24	20.12	20.04	19.95	19.99	19.88			21
20	16QAM	50	50	20.13	20.03	20.03	19.97	19.89			
20	16QAM	100	0	20.14	20.02	19.97	20.09	19.89			
20	256QAM	1	0	18.42	18.40	18.21	18.31	18.21			
20	256QAM	1	48	18.33	18.35	18.21	18.27	18.20			19
20	256QAM	1	96	18.31	18.30	18.18	18.23	18.25			
20	256QAM	50	0	18.30	18.09	18.02	18.08	17.99			
20	256QAM	50	24	18.14	17.91	18.01	17.98	17.89			19
20	256QAM	50	50	18.10	17.89	17.87	18.04	17.81			
20	256QAM	100	0	18.14	18.11	18.00	18.10	18.05			
Channel											
Frequency (MHz)				39725	40173	40620	41058	41515			
15	QPSK	1	0	23.29	23.13	23.03	23.06	23.02		Tune-up limit (dBm)	MFR (dB)
15	QPSK	1	37	23.03	23.09	23.01	23.01	22.88			
15	QPSK	1	74	23.12	22.97	22.85	22.84	22.86			
15	QPSK	36	0	22.28	22.21	22.07	22.23	22.10			
15	QPSK	36	20	22.15	22.03	21.89	22.03	22.03			23
15	QPSK	36	40	22.03	22.01	21.89	22.01	22.01			
15	QPSK	75	0	22.22	22.07	22.08	22.20	22.02			
15	16QAM	1	0	22.81	22.44	22.32	22.44	22.40			
15	16QAM	1	37	22.58	22.42	22.32	22.44	22.32			
15	16QAM	1	74	22.63	22.46	22.35	22.48	22.38			
15	16QAM	36	0	21.23	21.09	20.89	21.16	20.96			
15	16QAM	36	20	21.13	21.08	20.89	21.10	21.01			22
15	16QAM	36	36	21.03	20.97	20.80	20.95	21.01			
15	16QAM	75	0	21.47	21.31	21.31	21.51	21.38			
15	16QAM	1	37	21.38	21.27	21.06	21.37	21.28			22
15	16QAM	1	74	21.56	21.41	21.21	21.46	21.34			
15	16QAM	36	0	20.20	20.04	19.99	20.00	20.01			
15	16QAM	36	20	20.08	19.92	19.83	19.91	19.86			
15	16QAM	36	40	19.99	19.93	19.83	19.91	19.86			21
15	16QAM	75	0	20.02	19.88	19.87	20.01	19.81			
15	256QAM	1	0	18.31	18.30	18.17	18.25	18.20			
15	256QAM	1	48	18.24	18.24	18.09	18.21	18.14			19
15	256QAM	1	96	18.26	18.30	18.24	18.18	18.15			
15	256QAM	50	0	18.30	18.09	18.02	18.08	17.99			
15	256QAM	50	24	18.07	17.81	17.90	17.91	17.85			19
15	256QAM	50	50	18.07	17.83	17.89	17.84	17.89			
15	256QAM	100	0	18.06	17.91	17.88	18.00	17.83			
Channel											
Frequency (MHz)				39700	40148	40600	41048	41460			
5	QPSK	1	0	23.32	23.15	23.03	23.11	23.01		Tune-up limit (dBm)	MFR (dB)
5	QPSK	1	12	23.02	23.03	22.97	23.03	22.85			24
5	QPSK	1	24	23.14	22.92	22.86	22.95	22.86			
5	QPSK	12	0	22.30	22.18	22.07	22.21	22.14			
5	QPSK	12	12	22.17	21.98	21.89	22.07	22.00			23
5	QPSK	12	24	22.13	21.97	21.89	22.00	21.96			
5	QPSK	25	0	22.32	22.07	22.04	22.12	22.08			
5	16QAM	1	0	22.55	22.39	22.26	22.34	22.21			
5	16QAM	1	12	22.18	22.18	22.07	22.18	22.08			23
5	16QAM	1	24	22.60	22.33	22.24	22.43	22.28			
5	16QAM	12	0	21.17	21.07	21.01	21.17	21.07			
5	16QAM	12	12	21.13	21.07	20.98	21.13	21.07			22
5	16QAM	12	13	21.03	20.95	20.85	20.96	20.95			
5	16QAM	25	0	21.43	21.31	21.28	21.35	21.41			
5	16QAM	1	25	21.35	21.36	21.07	21.37	21.28			22
5	16QAM	1	24	21.54	21.37	21.07	21.57	21.34			
5	16QAM	25	0	20.19	20.04	20.03	19.95	20.02			
5	16QAM	25	12	20.09	19.94	19.87	19.98	19.84			21
5	16QAM	25	24	20.09	19.87	19.80	19.94	19.77			
5	16QAM	50	0	20.10	19.88	19.83	20.00	19.81			
5	256QAM	1	0	18.32	18.31	18.08	18.19	18.16			
5	256QAM	1	12	18.23	18.24	18.08	18.18	18.11			19
5	256QAM	1	48	18.18	18.24	18.20	18.13	18.22			
5	256QAM	50	0	18.30	18.09	18.02	18.08	17.99			
5	256QAM	25	12	18.04	17.87	17.93	17.95	17.87			19
5	256QAM	25	25	17.88	17.88	17.84	17.96	17.81			
5	256QAM	50	0	18.04	18.04	17.83	18.04	17.83			
Channel											
Frequency (MHz)				39678	40148	40600	41048	41460			
5	QPSK	1	0	23.32	23.15	23.03	23.11	23.01		Tune-up limit (dBm)	MFR (dB)
5	QPSK	1	12	23.02	23.03	22.97	23.03	22.85			24
5	QPSK	1	24	23.14	22.92	22.86	22.95	22.86			
5	QPSK	12	0	22.30	22.18	22.07	22.21	22.14			
5	QPSK	12	12	22.17	21.98	21.89	22.07	22.00			23
5	QPSK	12	24	22.13	21.97	21.89	22.00	21.96			
5	QPSK	25	0	22.32	22.07	22.04	22.12	22.08			
5	16QAM	1	0	22.55	22.39	22.26	22.34	22.21			
5	16QAM	1	12	22.18	22.18	22.07	22.18	22.08			23
5	16QAM	1	24	22.60	22.33	22.24	22.43	22.28			
5	16QAM	12	0	21.17	21.07	21.01	21.17	21.07			
5	16QAM	12	12	21.13	21.07	20.98	21.13	21.07			22
5	16QAM	12	13	21.03	20.95	20.85	20.96	20.95			
5	16QAM	25	0	21.46	21.37	21.30	21.37	21.36			
5	16QAM	1	25	21.32	21.32	21.16	21.39	21.28			22
5	16QAM	1	24	21.50	21.31	21.07	21.57	21.30			
5	16QAM	12	0	20.20	19.98	20.05	20.02	19.98			
5	16QAM	12	7	20.09	19.96	19.86	19.91	19.79			
5	16QAM	12	14	20.07	19.19	19.10	19.24	19.17			
5	16QAM	25	0	20.04	19.93	19.88	19.96	19.85			
5	256QAM	1	0	18.32	18.31	18.08	18.19	18.16			
5	256QAM	1	12	18.23	18.24	18.08	18.18	18.11			19
5	256QAM	1	48	18.22	18.31	18.25	18.18	18.17			
5	256QAM	50	0	18.30	18.09	18.02	18.08	17.99			
5	256QAM	25	7	18.08	17.84	17.98	17.97	17.83			19
5	256QAM	12	13	18.02	17.96	17.88	17.93	17.88			
5	256QAM	12	18	18.02	17.87	17.88	17.88	17.88			19



Reduced Power Mode for ECI2_Other

Band 2 Ant 0											
SR Band	Modulation	RB Size	RB Offset	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Turnup Time (s)	MPR (dB)		
Channel											
Frequency (MHz)											
20	QPSK	1	0	22.38	22.32	22.54					
20	QPSK	1	49	22.37	22.53	22.21		24	0		
20	QPSK	2	22	22.38	22.32	22.54					
20	QPSK	50	0	21.59	21.59	21.59					
20	QPSK	50	24	21.60	21.61	21.59		23	1		
20	QPSK	100	0	21.60	21.61	21.59					
20	QPSK	100	24	21.61	21.62	21.59		23	1		
20	QPSK	1	49	21.79	21.91	21.79		23	1		
20	QPSK	1	99	21.73	21.86	21.83					
20	QPSK	50	0	20.58	20.58	20.58		22	2		
20	QPSK	50	24	20.58	20.58	20.58					
20	QPSK	1	49	20.58	20.74	20.63		22	2		
20	QPSK	50	0	19.54	19.55	19.57					
20	QPSK	50	24	19.45	19.60	19.53		21	3		
20	QPSK	100	0	18.61	18.61	18.61					
20	QPSK	1	99	17.65	17.68	17.65		19			
20	QPSK	49	0	17.64	17.67	17.65					
20	QPSK	50	0	17.60	17.63	17.60					
20	QPSK	50	24	17.61	17.63	17.60					
20	QPSK	50	99	17.60	17.60	17.64		19			
20	QPSK	100	0	17.62	17.61	17.62		Turnup		MPR	
Channel											
Frequency (MHz)											
15	QPSK	1	0	18.17	18.08	18.05.5					
15	QPSK	1	49	22.32	22.37	22.44		24	0		
15	QPSK	1	23	22.13	22.41	22.37					
15	QPSK	1	74	22.24	22.54	22.35					
15	QPSK	25	0	21.46	21.64	21.35		23	1		
15	QPSK	25	24	21.36	21.50	21.54					
15	QPSK	36	0	21.34	21.56	21.54					
15	QPSK	75	0	21.37	21.68	21.54					
15	QPSK	1	99	21.73	21.85	21.73		23	1		
15	QPSK	1	37	21.81	21.78	21.71					
15	QPSK	1	74	21.88	21.81	21.70					
15	QPSK	25	0	20.41	20.51	20.51		22	2		
15	QPSK	36	0	20.40	20.42	20.39					
15	QPSK	75	0	20.44	20.45	20.45					
15	QPSK	1	99	20.62	20.69	20.57		22	2		
15	QPSK	1	49	20.67	20.67	20.67					
15	QPSK	1	74	20.64	20.59	20.57					
15	QPSK	36	0	19.43	19.58	19.52					
15	QPSK	75	0	19.44	19.48	19.48		21	3		
15	QPSK	36	24	19.33	19.42	19.42					
15	QPSK	75	0	19.43	19.53	19.48					
15	QPSK	1	99	17.50	17.52	17.47		10	5		
15	QPSK	1	37	17.50	17.50	17.47					
15	QPSK	1	74	17.53	17.57	17.48					
15	QPSK	25	0	17.48	17.48	17.48		10	5		
15	QPSK	36	0	17.47	17.47	17.48					
15	QPSK	36	24	17.44	17.54	17.47					
15	QPSK	50	0	17.48	17.54	17.44		Turnup		MPR	
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.31	22.53	22.48					
5	QPSK	1	12	22.34	22.53	22.48		24	0		
5	QPSK	1	24	22.22	22.43	22.35					
5	QPSK	1	48	22.13	22.48	22.48					
5	QPSK	14	7	21.38	21.44	21.42		23	1		
5	QPSK	13	33	21.33	21.43	21.43					
5	QPSK	25	0	21.42	21.58	21.49					
5	QPSK	1	0	21.74	21.86	21.77		23	1		
5	QPSK	1	12	21.63	21.82	21.75					
5	QPSK	1	24	21.60	21.79	21.76					
5	QPSK	12	0	20.42	20.58	20.54		22	2		
5	QPSK	12	13	20.33	20.58	20.54					
5	QPSK	12	33	20.41	20.44	20.52					
5	QPSK	25	0	20.48	20.52	20.45					
5	QPSK	1	0	20.58	20.65	20.58		22	2		
5	QPSK	1	12	20.48	20.62	20.59					
5	QPSK	1	24	20.44	20.59	20.61					
5	QPSK	1	48	20.35	20.55	20.55		21	3		
5	QPSK	14	7	19.35	19.33	19.38					
5	QPSK	1	12	19.35	19.36	19.43					
5	QPSK	1	48	19.32	19.35	19.43					
5	QPSK	1	0	17.60	17.64	17.54		19	5		
5	QPSK	1	12	17.59	17.64	17.53					
5	QPSK	1	48	17.56	17.61	17.51					
5	QPSK	12	0	17.52	17.58	17.46					
5	QPSK	12	14	17.52	17.48	17.44		19	5		
5	QPSK	12	33	17.56	17.48	17.43					
5	QPSK	25	0	17.47	17.57	17.48		Turnup		MPR	
Channel											
Frequency (MHz)											
3	QPSK	1	0	22.25	22.50	22.45					
3	QPSK	1	8	22.21	22.44	22.35		24	0		
3	QPSK	1	16	22.17	22.45	22.45					
3	QPSK	8	4	21.55	21.59	21.48		23	1		
3	QPSK	8	20	21.39	21.45	21.48					
3	QPSK	1	0	21.35	21.56	21.52					
3	QPSK	16	0	21.48	21.60	21.52					
3	QPSK	1	0	21.81	21.91	21.79		23	1		
3	QPSK	1	8	21.68	21.88	21.74					
3	QPSK	1	16	21.65	21.81	21.69					
3	QPSK	8	0	20.34	20.45	20.45		22	2		
3	QPSK	8	24	20.34	20.45	20.45					
3	QPSK	8	7	20.41	20.41	20.52					
3	QPSK	1	0	20.42	20.51	20.47					
3	QPSK	1	8	20.54	20.75	20.58					
3	QPSK	1	8	20.49	20.66	20.61		22	2		
3	QPSK	1	16	20.63	20.63	20.63					
3	QPSK	8	0	19.40	19.55	19.54					
3	QPSK	8	4	19.34	19.54	19.56		21	3		
3	QPSK	1	0	17.50	17.54	17.54					
3	QPSK	1	8	17.49	17.49	17.51		19	5		
3	QPSK	1	16	17.48	17.48	17.49					
3	QPSK	1	14	17.54	17.49	17.49					
3	QPSK	8	0	17.56	17.56	17.51					
3	QPSK	8	24	17.56	17.56	17.51		19	5		
3	QPSK	8	7	17.45	17.56	17.44					
3	QPSK	16	0	17.40	17.55	17.44		Turnup		MPR	
Channel											
Frequency (MHz)											
1.4	QPSK	1	0	18.67	18.60	18.69.5					
1.4	QPSK	1	8	22.21	22.57	22.44		24	0		
1.4	QPSK	1	16	22.17	22.49	22.48					
1.4	QPSK	8	4	21.55	21.55	21.46		23	1		
1.4	QPSK	8	20	21.39	21.45	21.46					
1.4	QPSK	1	0	21.35	21.52	21.52					
1.4	QPSK	16	0	21.48	21.60	21.52					
1.4	QPSK	1	0	21.81	21.91	21.79		23	1		
1.4	QPSK	1	8	21.68	21.80	21.63					
1.4	QPSK	1	16	21.59	21.77	21.69					
1.4	QPSK	8	0	20.35	20.46	20.46		22	2		
1.4	QPSK	8	24	20.35	20.46	20.46					
1.4	QPSK	8	7	20.43	20.47	20.58					
1.4	QPSK	1	0	20.50	20.64	20.55					
1.4	QPSK	1	8	20.58	20.68	20.62		22	2		
1.4	QPSK	1	16	20.52	20.64	20.42					
1.4	QPSK	8	0	19.52	19.55	19.51					
1.4	QPSK	8	4	19.40	19.60	19.64		21	3		
1.4	QPSK	1	0	17.50	17.54	17.54					
1.4	QPSK	1	8	17.49	17.49	17.51		19	5		
1.4	QPSK	1	16	17.51	17.53	17.57					
1.4	QPSK	1	14	17.56	17.49	17.49					
1.4	QPSK	8	0	17.50	17.48	17.43					
1.4	QPSK	8	24	17.42	17.48	17.43					

[illegible]

Band 25 Ant 0												
RF BWP	Modulation	RB Size	RB Config	Power [dBm]	Power [dBm]	Power [dBm]	Power [dBm]	Power [dBm]	Power [dBm]	Trans- mit Time [ms]	MFR [dB]	
Channel												
Frequency [MHz]												
20	QPSK	1	6	22.58	22.58	22.58	22.58	22.58	22.58			
20	QPSK	1	6	22.44	22.44	22.44	22.44	22.44	22.44			0
20	QPSK	16	24	21.53	21.53	21.53	21.53	21.53	21.53			
20	QPSK	16	24	21.31	21.31	21.31	21.31	21.31	21.31			
20	QPSK	100	0	21.53	21.53	21.53	21.53	21.53	21.53			
20	QPSK	100	0	21.31	21.31	21.31	21.31	21.31	21.31			
20	QPSK	16	24	21.53	21.53	21.53	21.53	21.53	21.53			23
20	QPSK	16	24	21.72	21.72	21.72	21.72	21.72	21.72			1
20	QPSK	50	24	20.31	20.31	20.31	20.31	20.31	20.31			22
20	QPSK	50	24	20.30	20.30	20.30	20.30	20.30	20.30			2
20	QPSK	16	0	20.64	20.64	20.78	20.78	20.78	20.78			
20	QPSK	16	0	20.69	20.69	20.78	20.78	20.78	20.78			22
20	QPSK	50	0	19.43	19.43	19.47	19.47	19.47	19.47			
20	QPSK	50	24	19.36	19.36	19.36	19.36	19.36	19.36			21
20	QPSK	100	5	19.33	19.43	19.43	19.43	19.43	19.43			
20	QPSK	16	0	17.65	17.69	17.70	17.70	17.70	17.70			19
20	QPSK	16	0	17.62	17.69	17.69	17.69	17.69	17.69			
20	QPSK	16	0	17.56	17.54	17.54	17.53	17.53	17.53			
20	QPSK	50	0	17.34	17.44	17.43	17.43	17.43	17.43			
20	QPSK	50	24	17.30	17.42	17.42	17.42	17.42	17.42			19
20	QPSK	50	24	17.37	17.34	17.34	17.34	17.34	17.34			
20	QPSK	100	0	17.46	17.47	17.47	17.47	17.47	17.47			
Channel												
Frequency [MHz]												
15	QPSK	1	6	18.17	18.17	18.80	18.80	18.80	18.80			
15	QPSK	1	6	22.52	22.52	22.52	22.52	22.52	22.52			24
15	QPSK	1	6	22.33	22.33	22.33	22.33	22.33	22.33			
15	QPSK	16	24	22.20	22.20	22.30	22.30	22.30	22.30			
15	QPSK	16	24	21.46	21.50	21.50	21.50	21.50	21.50			23
15	QPSK	16	24	21.27	21.48	21.48	21.48	21.48	21.48			
15	QPSK	36	24	21.25	21.28	21.28	21.28	21.28	21.28			
15	QPSK	75	0	21.40	21.39	21.47	21.47	21.47	21.47			23
15	QPSK	75	0	21.48	21.79	21.81	21.81	21.81	21.81			
15	QPSK	16	0	21.66	21.79	21.79	21.79	21.79	21.79			23
15	QPSK	16	0	21.66	21.79	21.79	21.79	21.79	21.79			
15	QPSK	36	20	20.18	20.48	20.48	20.27	20.27	20.27			22
15	QPSK	36	20	20.17	20.24	20.24	20.24	20.24	20.24			2
15	QPSK	75	0	20.27	20.25	20.25	20.25	20.25	20.25			
15	QPSK	16	0	20.58	20.58	20.58	20.58	20.58	20.58			22
15	QPSK	16	0	20.58	20.58	20.58	20.58	20.58	20.58			2
15	QPSK	16	0	20.58	20.58	20.58	20.58	20.58	20.58			
15	QPSK	16	24	20.42	20.47	20.47	20.47	20.47	20.47			22
15	QPSK	36	0	19.27	19.42	19.31	19.31	19.31	19.31			
15	QPSK	36	0	19.27	19.42	19.31	19.31	19.31	19.31			
15	QPSK	36	20	19.23	19.21	19.21	19.21	19.21	19.21			21
15	QPSK	75	0	19.21	19.33	19.17	19.17	19.17	19.17			
15	QPSK	75	0	19.21	19.33	19.17	19.17	19.17	19.17			
15	QPSK	36	20	17.38	17.51	17.42	17.42	17.42	17.42			19
15	QPSK	16	14	17.49	17.41	17.55	17.55	17.55	17.55			
15	QPSK	16	14	17.28	17.28	17.28	17.28	17.28	17.28			
15	QPSK	36	20	17.38	17.31	17.59	17.59	17.59	17.59			19
15	QPSK	36	20	17.31	17.23	17.22	17.22	17.22	17.22			
Channel												
Frequency [MHz]												
20	QPSK	1	6	22.58	22.58	22.58	22.58	22.58	22.58			
20	QPSK	1	6	22.44	22.44	22.44	22.44	22.44	22.44			24
20	QPSK	16	24	21.53	21.53	21.53	21.53	21.53	21.53			
20	QPSK	16	24	21.31	21.31	21.31	21.31	21.31	21.31			
20	QPSK	100	0	21.53	21.53	21.53	21.53	21.53	21.53			
20	QPSK	100	0	21.31	21.31	21.31	21.31	21.31	21.31			
20	QPSK	16	24	21.53	21.53	21.53	21.53	21.53	21.53			23
20	QPSK	16	24	21.72	21.72	21.72	21.72	21.72	21.72			1
20	QPSK	50	24	20.31	20.31	20.31	20.31	20.31	20.31			22
20	QPSK	50	24	20.30	20.30	20.30	20.30	20.30	20.30			2
20	QPSK	16	0	20.64	20.64	20.78	20.78	20.78	20.78			
20	QPSK	16	0	20.69	20.69	20.78	20.78	20.78	20.78			22
20	QPSK	50	0	19.43	19.43	19.47	19.47	19.47	19.47			
20	QPSK	50	24	19.36	19.36	19.36	19.36	19.36	19.36			21
20	QPSK	100	5	19.33	19.43	19.43	19.43	19.43	19.43			
20	QPSK	16	0	17.65	17.69	17.70	17.70	17.70	17.70			19
20	QPSK	16	0	17.62	17.69	17.69	17.69	17.69	17.69			
20	QPSK	16	0	17.56	17.54	17.54	17.53	17.53	17.53			
20	QPSK	50	0	17.34	17.44	17.43	17.43	17.43	17.43			
20	QPSK	50	24	17.30	17.42	17.42	17.42	17.42	17.42			19
20	QPSK	50	24	17.37	17.34	17.34	17.34	17.34	17.34			
20	QPSK	100	0	17.46	17.47	17.47	17.47	17.47	17.47			
Channel												
Frequency [MHz]												
15	QPSK	1	6	22.58	22.58	22.58	22.58	22.58	22.58			
15	QPSK	1	6	22.44	22.44	22.44	22.44	22.44	22.44			24
15	QPSK	16	24	21.53	21.53	21.53	21.53	21.53	21.53			
15	QPSK	16	24	21.31	21.31	21.31	21.31	21.31	21.31			
15	QPSK	100	0	21.53	21.53	21.53	21.53	21.53	21.53			
15	QPSK	100	0	21.31	21.31	21.31	21.31	21.31	21.31			
15	QPSK	16	24	21.53	21.53	21.53	21.53	21.53	21.53			23
15	QPSK	16	24	21.72	21.72	21.72	21.72	21.72	21.72			1
15	QPSK	50	24	20.31	20.31	20.31	20.31	20.31	20.31			22
15	QPSK	50	24	20.30	20.30	20.30	20.30	20.30	20.30			2
15	QPSK	16	0	20.64	20.64	20.78	20.78	20.78	20.78			
15	QPSK	16	0	20.69	20.69	20.78	20.78	20.78	20.78			22
15	QPSK	50	0	19.43	19.43	19.47	19.47	19.47	19.47			
15	QPSK	50	24	19.36	19.36	19.36	19.36	19.36	19.36			21
15	QPSK	100	5	19.33	19.43	19.43	19.43	19.43	19.43			
15	QPSK	16	0	17.65	17.69	17.70	17.70	17.70	17.70			19
15	QPSK	16	0	17.62	17.69	17.69	17.69	17.69	17.69			
15	QPSK	16	0	17.56	17.54	17.54	17.53	17.53	17.53			
15	QPSK	50	0	17.34	17.44	17.43	17.43	17.43	17.43			
15	QPSK	50	24	17.30	17.42	17.42	17.42	17.42	17.42			19
15	QPSK	50	24	17.37	17.34	17.34	17.34	17.34	17.34			
15	QPSK	100	0	17.46	17.47	17.47	17.47	17.47	17.47			
Channel												
Frequency [MHz]												
14	QPSK	1	6	22.52	22.52	22.52	22.52	22.52	22.52			
14	QPSK	1	6	22.33	22.33	22.33	22.33	22.33	22.33			24
14	QPSK	16	24	22.20	22.20	22.30	22.30	22.30	22.30			
14	QPSK	16	24	21.46	21.50	21.50	21.50	21.50	21.50			23
14	QPSK	16	24	21.27	21.48	21.48	21.48	21.48	21.48			
14	QPSK	36	24	21.25	21.28	21.28	21.28	21.28	21.28			
14	QPSK	75	0	21.40	21.39	21.47	21.47	21.47	21.47			23
14	QPSK	75	0	21.48	21.79	21.81	21.81	21.81	21.81			
14	QPSK	16	0	21.66	21.79	21.79	21.79	21.79	21.79			23
14	QPSK	16	0	21.66	21.79	21.79	21.79	21.79	21.79			
14	QPSK	36	20	20.18	20.48	20.48	20.27	20.27	20.27			22
14	QPSK	36	20	20.17	20.24	20.24	20.24	20.24	20.24			2
14	QPSK	75	0	20.27	20.25	20.25	20.25	20.25	20.25			
14	QPSK	16	0	20.58	20.58	20.58	20.58	20.58	20.58			22
14	QPSK	16	0	20.58	20.58	20.58	20.58	20.58	20.58			2
14	QPSK	16	0	20.58	20.58	20.58	20.58	20.58	20.58			
14	QPSK	16	24	20.42	20.47	20.47	20.47	20.47	20.47			22
14	QPSK	36	0	19.27	19.42	19.31	19.31	19.31	19.31			
14	QPSK	36	0	19.27	19.42	19.31	19.31	19.31	19.31			
14	QPSK	36	20	19.23	19.21	19.21	19.21	19.21	19.21			21
14	QPSK	75	0	19.21								

Band 66 Ant 0												
RF (MHz)	Modulation	RF SS (MHz)	RF Offset (MHz)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)
Channel				Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)
Frequency (MHz)				150077	150122	150122	150122	150122	150122	150122	150122	150122
20	QPSK	16	0	22.26	22.43	22.26	22.43	22.26	22.43	22.26	22.43	22.26
20	QPSK	16	49	22.20	22.33	22.22	22.32	22.20	22.33	22.22	22.32	22.20
20	QPSK	16	98	22.14	22.26	22.15	22.26	22.14	22.26	22.15	22.26	22.14
20	QPSK	16	147	21.92	22.14	21.94	22.14	21.92	22.14	21.94	22.14	21.92
20	QPSK	160	0	21.37	21.43	21.34	21.34	21.37	21.43	21.34	21.34	21.37
20	QPSK	160	49	21.30	21.36	21.27	21.27	21.30	21.36	21.27	21.27	21.30
20	QPSK	160	98	21.05	21.10	21.00	21.00	21.05	21.10	21.00	21.00	21.05
20	QPSK	160	147	20.79	20.89	20.70	20.70	20.79	20.89	20.70	20.70	20.79
20	QPSK	160	196	20.54	20.64	20.40	20.40	20.54	20.64	20.40	20.40	20.54
20	QPSK	160	245	20.28	20.38	20.10	20.10	20.28	20.38	20.10	20.10	20.28
20	QPSK	160	294	20.02	20.12	19.80	19.80	20.02	20.12	19.80	19.80	20.02
20	QPSK	160	343	19.76	19.86	19.50	19.50	19.76	19.86	19.50	19.50	19.76
20	QPSK	160	392	19.50	19.60	19.20	19.20	19.50	19.60	19.20	19.20	19.50
20	QPSK	160	441	19.24	19.34	18.90	18.90	19.24	19.34	18.90	18.90	19.24
20	QPSK	160	490	18.98	19.08	18.60	18.60	18.98	19.08	18.60	18.60	18.98
20	QPSK	160	539	18.72	18.82	18.30	18.30	18.72	18.82	18.30	18.30	18.72
20	QPSK	160	588	18.46	18.56	18.00	18.00	18.46	18.56	18.00	18.00	18.46
20	QPSK	160	637	18.20	18.30	17.70	17.70	18.20	18.30	17.70	17.70	18.20
20	QPSK	160	686	17.94	18.04	17.40	17.40	17.94	18.04	17.40	17.40	17.94
20	QPSK	160	735	17.68	17.78	17.10	17.10	17.68	17.78	17.10	17.10	17.68
20	QPSK	160	784	17.42	17.52	16.80	16.80	17.42	17.52	16.80	16.80	17.42
20	QPSK	160	833	17.16	17.26	16.50	16.50	17.16	17.26	16.50	16.50	17.16
20	QPSK	160	882	16.90	17.00	16.20	16.20	16.90	17.00	16.20	16.20	16.90
20	QPSK	160	931	16.64	16.74	16.00	16.00	16.64	16.74	16.00	16.00	16.64
20	QPSK	160	980	16.38	16.48	15.70	15.70	16.38	16.48	15.70	15.70	16.38
20	QPSK	160	1029	16.12	16.22	15.40	15.40	16.12	16.22	15.40	15.40	16.12
20	QPSK	160	1078	15.86	15.96	15.10	15.10	15.86	15.96	15.10	15.10	15.86
20	QPSK	160	1127	15.60	15.70	14.80	14.80	15.60	15.70	14.80	14.80	15.60
20	QPSK	160	1176	15.34	15.44	14.50	14.50	15.34	15.44	14.50	14.50	15.34
20	QPSK	160	1225	15.08	15.18	14.20	14.20	15.08	15.18	14.20	14.20	15.08
20	QPSK	160	1274	14.82	14.92	13.90	13.90	14.82	14.92	13.90	13.90	14.82
20	QPSK	160	1323	14.56	14.66	13.60	13.60	14.56	14.66	13.60	13.60	14.56
20	QPSK	160	1372	14.30	14.40	13.30	13.30	14.30	14.40	13.30	13.30	14.30
20	QPSK	160	1421	14.04	14.14	13.00	13.00	14.04	14.14	13.00	13.00	14.04
20	QPSK	160	1470	13.78	13.88	12.70	12.70	13.78	13.88	12.70	12.70	13.78
20	QPSK	160	1519	13.52	13.62	12.40	12.40	13.52	13.62	12.40	12.40	13.52
20	QPSK	160	1568	13.26	13.36	12.10	12.10	13.26	13.36	12.10	12.10	13.26
20	QPSK	160	1617	13.00	13.10	11.80	11.80	13.00	13.10	11.80	11.80	13.00
20	QPSK	160	1666	12.74	12.84	11.50	11.50	12.74	12.84	11.50	11.50	12.74
20	QPSK	160	1715	12.48	12.58	11.20	11.20	12.48	12.58	11.20	11.20	12.48
20	QPSK	160	1764	12.22	12.32	10.90	10.90	12.22	12.32	10.90	10.90	12.22
20	QPSK	160	1813	11.96	12.06	10.60	10.60	11.96	12.06	10.60	10.60	11.96
20	QPSK	160	1862	11.70	11.80	10.30	10.30	11.70	11.80	10.30	10.30	11.70
20	QPSK	160	1911	11.44	11.54	10.00	10.00	11.44	11.54	10.00	10.00	11.44
20	QPSK	160	1960	11.18	11.28	9.70	9.70	11.18	11.28	9.70	9.70	11.18
20	QPSK	160	2009	10.92	11.02	9.40	9.40	10.92	11.02	9.40	9.40	10.92
20	QPSK	160	2058	10.66	10.76	9.10	9.10	10.66	10.76	9.10	9.10	10.66
20	QPSK	160	2107	10.40	10.50	8.80	8.80	10.40	10.50	8.80	8.80	10.40
20	QPSK	160	2156	10.14	10.24	8.50	8.50	10.14	10.24	8.50	8.50	10.14
20	QPSK	160	2205	9.88	9.98	8.20	8.20	9.88	9.98	8.20	8.20	9.88
20	QPSK	160	2254	9.62	9.72	7.90	7.90	9.62	9.72	7.90	7.90	9.62
20	QPSK	160	2303	9.36	9.46	7.60	7.60	9.36	9.46	7.60	7.60	9.36
20	QPSK	160	2352	9.10	9.20	7.30	7.30	9.10	9.20	7.30	7.30	9.10
20	QPSK	160	2401	8.84	8.94	7.00	7.00	8.84	8.94	7.00	7.00	8.84
20	QPSK	160	2450	8.58	8.68	6.70	6.70	8.58	8.68	6.70	6.70	8.58
20	QPSK	160	2499	8.32	8.42	6.40	6.40	8.32	8.42	6.40	6.40	8.32
20	QPSK	160	2548	8.06	8.16	6.10	6.10	8.06	8.16	6.10	6.10	8.06
20	QPSK	160	2597	7.80	7.90	5.80	5.80	7.80	7.90	5.80	5.80	7.80
20	QPSK	160	2646	7.54	7.64	5.50	5.50	7.54	7.64	5.50	5.50	7.54
20	QPSK	160	2695	7.28	7.38	5.20	5.20	7.28	7.38	5.20	5.20	7.28
20	QPSK	160	2744	7.02	7.12	4.90	4.90	7.02	7.12	4.90	4.90	7.02
20	QPSK	160	2793	6.76	6.86	4.60	4.60	6.76	6.86	4.60	4.60	6.76
20	QPSK	160	2842	6.50	6.60	4.30	4.30	6.50	6.60	4.30	4.30	6.50
20	QPSK	160	2891	6.24	6.34	4.00	4.00	6.24	6.34	4.00	4.00	6.24
20	QPSK	160	2940	5.98	6.08	3.70	3.70	5.98	6.08	3.70	3.70	5.98
20	QPSK	160	2989	5.72	5.82	3.40	3.40	5.72	5.82	3.40	3.40	5.72
20	QPSK	160	3038	5.46	5.56	3.10	3.10	5.46	5.56	3.10	3.10	5.46
20	QPSK	160	3087	5.20	5.30	2.80	2.80	5.20	5.30	2.80	2.80	5.20
20	QPSK	160	3136	4.94	5.04	2.50	2.50	4.94	5.04	2.50	2.50	4.94
20	QPSK	160	3185	4.68	4.78	2.20	2.20	4.68	4.78	2.20	2.20	4.68
20	QPSK	160	3234	4.42	4.52	1.90	1.90	4.42	4.52	1.90	1.90	4.42
20	QPSK	160	3283	4.16	4.26	1.60	1.60	4.16	4.26	1.60	1.60	4.16
20	QPSK	160	3332	3.90	4.00	1.30	1.30	3.90	4.00	1.30	1.30	3.90
20	QPSK	160	3381	3.64	3.74	1.00	1.00	3.64	3.74	1.00	1.00	3.64
20	QPSK	160	3430	3.38	3.48	0.70	0.70	3.38	3.48	0.70	0.70	3.38
20	QPSK	160	3479	3.12	3.22	0.40	0.40	3.12	3.22	0.40	0.40	3.12
20	QPSK	160	3528	2.86	2.96	0.10	0.10	2.86	2.96	0.10	0.10	2.86
20	QPSK	160	3577	2.60	2.70	-0.20	-0.20	2.60	2.70	-0.20	-0.20	2.60
20	QPSK	160	3626	2.34	2.44	-0.50	-0.50	2.34	2.44	-0.50	-0.50	2.34
20	QPSK	160	3675	2.08	2.18	-0.80	-0.80	2.08	2.18	-0.80	-0.80	2.08
20	QPSK	160	3724	1.82	1.92	-1.10	-1.10	1.82	1.92	-1.10	-1.10	1.82
20	QPSK	160	3773	1.56	1.66	-1.40	-1.40	1.56	1.66	-1.40	-1.40	1.56
20	QPSK	160	3822	1.30	1.40	-1.70	-1.70	1.30	1.40	-1.70	-1.70	1.30
20	QPSK	160	3871	1.04	1.14	-2.00	-2.00	1.04	1.14	-2.00	-2.00	1.04
20	QPSK	160	3920	0.78	0.88	-2.30	-2.30	0.78	0.88	-2.30	-2.30	0.78
20	QPSK	160	3969	0.52	0.62	-2.60	-2.60	0.52	0.62	-2.60	-2.60	0.52
20	QPSK	160	4018	0.26	0.36	-2.90	-2.90	0.26	0.36	-2.90	-2.90	0.26
20	QPSK	160	4067	0.00	0.10	-3.20	-3.20	0.00	0.10	-3.20	-3.20	0.00
20	QPSK	160	4116	-0.26	-0.16	-3.50	-3.50	-0.26	-0.16	-3.50	-3.50	-0.26
20	QPSK	160	4165	-0.52	-0.42	-3.80	-3.80	-0.52	-0.42	-3.80	-3.80	-0.52
20	QPSK	160	4214	-0.78	-0.68	-4.10	-4.10	-0.78	-0.68	-4.10	-4.10	-0.78
20	QPSK	160	4263	-1.04	-0.94	-4.40	-4.40	-1.04	-0.94	-4.40	-4.40	-1.04
20	QPSK	160	4312	-1.30	-1.20	-4.70	-4.70	-1.30	-1.20	-4.70	-4.70	-1.30
20	QPSK	160	4361	-1.56	-1.46	-5.00	-5.00	-1.56	-1.46	-5.00	-5.00	-1.56
20	QPSK	160	4410	-1.82	-1.72	-5.30	-5.30	-1.82	-1.72	-5.30	-5.30	-1.82
20	QPSK	160	4459	-2.08	-1.98	-5.60	-5.60	-2.08	-1.98	-5.60	-5.60	-2.08
20	QPSK	160	4508	-2.34	-2.24	-5.90	-5.90	-2.34	-2.24	-5.90	-5.90	-2.34
20	QPSK	160	4557	-2.60	-2.50	-6.20	-6.20	-2.60	-2.50	-6.20	-6.20	-2.60
20	QPSK	160	4606	-2.86	-2.76	-6.50	-6.50	-2.86	-2.76	-6.50	-6.50	-2.86
20	QPSK	160	4655	-3.12	-3.02	-6.80	-6.80					



Band 38 Ant 0												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Turn-up time (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.48	22.50	22.47	24	0				
20	QPSK	1	48	22.40	22.31	22.30						
20	QPSK	1	88	22.51	22.38	22.37						
20	QPSK	50	0	21.41	21.54	21.52						
20	QPSK	50	24	21.26	21.38	21.33	23	1				
20	QPSK	50	48	21.51	21.75	21.59						
20	QPSK	100	0	21.46	21.54	21.51						
20	HQAM	1	0	21.69	21.78	21.69						
20	HQAM	1	0	21.69	21.78	21.69	23	1				
20	HQAM	1	99	21.59	21.73	21.66						
20	HQAM	50	0	20.34	20.41	20.32						
20	HQAM	50	24	20.34	20.41	20.32						
20	HQAM	50	50	20.19	20.37	20.24	22	2				
20	HQAM	100	0	20.28	20.38	20.33						
20	HQAM	100	1	20.58	20.57	20.55						
20	HQAM	1	48	20.57	20.65	20.56						
20	HQAM	1	99	20.51	20.61	20.55	22	2				
20	HQAM	50	0	19.34	19.42	19.33						
20	HQAM	50	24	19.27	19.28	19.26						
20	HQAM	50	50	19.28	19.29	19.26						
20	HQAM	100	0	19.21	19.31	19.17	21	3				
20	HQAM	100	1	17.52	17.60	17.53						
20	HQAM	1	48	17.51	17.59	17.55						
20	HQAM	50	0	17.17	17.27	17.20						
20	HQAM	50	24	17.25	17.25	17.17	19	5				
20	HQAM	50	48	17.30	17.28	17.24						
20	HQAM	50	50	17.23	17.25	17.24						
20	HQAM	100	0	17.17	17.28	17.20						
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.13	22.42	22.18	24	0				
15	QPSK	1	37	22.28	22.18	22.18						
15	QPSK	1	74	22.59	22.33	22.12						
15	QPSK	36	0	21.34	21.42	21.37						
15	QPSK	36	20	21.14	21.24	21.17	23	1				
15	QPSK	36	38	21.38	21.39	21.35						
15	QPSK	75	0	21.38	21.39	21.35						
15	HQAM	1	0	21.55	21.66	21.61						
15	HQAM	1	37	21.55	21.67	21.64	23	1				
15	HQAM	1	74	21.54	21.72	21.61						
15	HQAM	36	0	20.24	20.36	20.19						
15	HQAM	36	20	20.22	20.26	20.15						
15	HQAM	36	38	20.09	20.29	20.16	22	2				
15	HQAM	75	0	20.26	20.25	20.22						
15	HQAM	75	0	19.23	19.37	19.25						
15	HQAM	1	37	20.52	20.69	20.51						
15	HQAM	1	74	20.44	20.47	20.39	21	3				
15	HQAM	36	0	19.23	19.37	19.25						
15	HQAM	36	20	19.15	19.17	19.20						
15	HQAM	36	38	19.24	19.27	19.19						
15	HQAM	75	0	19.05	19.21	19.11	19	5				
15	HQAM	75	0	17.07	17.52	17.43						
15	HQAM	1	37	17.14	17.27	17.19						
15	HQAM	1	74	17.42	17.46	17.43						
15	HQAM	36	0	17.15	17.33	17.18	19	5				
15	HQAM	36	20	17.14	17.27	17.09						
15	HQAM	36	38	17.25	17.13	17.20						
15	HQAM	75	0	17.26	17.21	17.19						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.13	22.42	22.18	24	0				
10	QPSK	1	25	22.31	22.32	22.33						
10	QPSK	1	48	22.13	22.31	22.20						
10	QPSK	25	0	21.34	21.42	21.37						
10	QPSK	25	12	21.19	21.24	21.19	23	1				
10	QPSK	25	25	21.19	21.14	21.20						
10	QPSK	50	0	21.87	21.78	21.63						
10	HQAM	1	0	21.87	21.78	21.63						
10	HQAM	1	25	21.52	21.62	21.44	23	1				
10	HQAM	1	48	21.47	21.67	21.59						
10	HQAM	25	0	20.28	20.28	20.21						
10	HQAM	25	0	20.22	20.41	20.12						
10	HQAM	25	12	20.07	20.31	20.14	22	2				
10	HQAM	50	0	20.38	20.25	20.22						
10	HQAM	50	0	20.30	20.37	20.30						
10	HQAM	50	0	20.49	20.58	20.42						
10	HQAM	1	48	20.45	20.54	20.50	22	2				
10	HQAM	25	0	19.21	19.33	19.21						
10	HQAM	25	12	19.22	19.20	19.14						
10	HQAM	25	25	19.20	19.25	19.11						
10	HQAM	50	0	19.15	19.25	19.09	21	3				
10	HQAM	50	0	17.51	17.46	17.42						
10	HQAM	1	25	17.41	17.46	17.40						
10	HQAM	1	48	17.38	17.43	17.35						
10	HQAM	25	0	17.22	17.28	17.20	19	5				
10	HQAM	25	12	17.17	17.16	17.07						
10	HQAM	25	25	17.22	17.15	17.15						
10	HQAM	50	0	17.24	17.22	17.22						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.33	22.47	22.37	24	0				
5	QPSK	1	12	22.30	22.25	22.15						
5	QPSK	1	24	22.09	22.24	22.13						
5	QPSK	12	0	21.28	21.46	21.47						
5	QPSK	12	7	21.16	21.27	21.19	23	1				
5	QPSK	12	13	21.20	21.22	21.19						
5	QPSK	25	0	21.55	21.49	21.23						
5	HQAM	1	0	21.62	21.69	21.63						
5	HQAM	1	12	21.48	21.59	21.52	23	1				
5	HQAM	1	24	21.45	21.64	21.61						
5	HQAM	12	0	20.24	20.31	20.20						
5	HQAM	12	7	20.25	20.35	20.14						
5	HQAM	12	13	20.05	20.31	20.14	22	2				
5	HQAM	25	0	20.25	20.26	20.18						
5	HQAM	1	0	20.32	20.62	20.49						
5	HQAM	1	12	20.47	20.58	20.43						
5	HQAM	1	24	20.37	20.47	20.47	22	2				
5	HQAM	12	0	19.26	19.37	19.21						
5	HQAM	12	7	19.18	19.14	19.12						
5	HQAM	12	13	19.23	19.22	19.19						
5	HQAM	25	0	17.14	17.37	17.04	19	5				
5	HQAM	25	0	17.45	17.45	17.45						
5	HQAM	12	12	17.39	17.40	17.39						
5	HQAM	12	24	17.37	17.42	17.43						
5	HQAM	12	0	17.15	17.33	17.17	19	5				
5	HQAM	12	7	17.09	17.18	17.04						
5	HQAM	12	13	17.21	17.13	17.09						
5	HQAM	25	0	17.30	17.20	17.26						

Band 41 Ant 0													
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPR (dB)		
Channel													
Frequency (MHz)													
20	QPSK	1	0	21.86	21.71	21.58	21.70	21.84	21.82	23	0		
20	QPSK	1	48	21.70	21.60	21.63	21.63	21.73	21.61				
20	QPSK	1	88	21.68	21.62	21.61	21.62	21.68	21.68				
20	QPSK	50	0	20.80	20.81	20.87	20.87	20.98	20.98				
20	QPSK	50	24	20.75	20.66	20.76	20.87	20.79	20.87	22	1		
20	QPSK	50	48	20.65	20.65	20.62	20.62	20.68	20.68				
20	QPSK	100	0	20.80	20.78	20.82	20.82	20.90	20.90				
20	16QAM	1	0	21.12	21.06	21.13	21.19	21.16	21.12				
20	16QAM	1	48	21.06	21.01	21.07	21.13	21.12	21.12	22	1		
20	16QAM	1	88	21.01	21.03	21.04	21.10	21.05	21.05				
20	16QAM	50	0	19.75	19.64	19.77	19.80	19.77	19.80				
20	16QAM	50	24	19.70	19.56	19.79	19.76	19.79	19.76				
20	16QAM	100	0	19.75	19.62	19.76	19.76	19.74	19.76	21	2		
20	16QAM	100	1	19.65	19.56	19.68	19.68	19.65	19.68				
20	16QAM	50	48	19.64	19.68	19.62	19.77	19.66	19.66				
20	16QAM	50	0	19.75	19.63	19.78	19.87	19.73	19.83				
20	16QAM	50	24	19.64	19.50	19.72	19.76	19.65	19.75	20	3		
20	16QAM	50	48	19.61	19.52	19.63	19.65	19.61	19.61				
20	16QAM	100	0	19.60	19.50	19.71	19.86	19.70	19.74				
20	16QAM	100	1	19.52	19.43	19.57	19.68	19.52	19.63				
20	256QAM	1	0	19.82	19.83	19.87	17.03	17.24	17.24	18	5		
20	256QAM	1	48	19.74	19.73	19.73	19.76	19.76	19.76				
20	256QAM	1	88	19.60	19.59	19.56	19.60	19.63	19.63				
20	256QAM	50	24	19.55	19.50	19.72	16.65	16.85	19.63				
20	256QAM	50	48	19.63	19.56	19.73	19.75	19.67	19.68	18	5		
20	256QAM	100	0	19.60	19.58	19.74	19.75	19.71	19.68				
Channel													
Frequency (MHz)													
15	QPSK	1	0	21.84	21.73	21.63	21.79	21.92	21.92	23	0		
15	QPSK	1	37	21.65	21.51	21.75	21.75	21.65	21.77				
15	QPSK	1	74	21.48	21.48	21.53	21.70	21.60	21.60				
15	QPSK	38	20	20.72	20.61	20.72	20.82	20.68	20.78				
15	QPSK	38	58	20.52	20.44	20.52	20.62	20.59	20.59	22	1		
15	QPSK	76	0	20.79	20.76	20.78	20.85	20.80	20.80				
15	16QAM	1	0	21.04	21.03	21.10	21.11	21.08	21.08				
15	16QAM	1	37	20.88	21.01	21.02	21.12	21.05	21.05				
15	16QAM	1	74	21.09	20.93	20.91	21.16	21.02	21.02	21	2		
15	16QAM	38	0	19.67	19.57	19.71	19.77	19.63	19.63				
15	16QAM	38	38	19.71	19.53	19.73	19.76	19.70	19.70				
15	16QAM	38	76	19.55	19.59	19.51	19.64	19.59	19.59				
15	16QAM	76	0	19.70	19.69	19.67	19.67	19.67	19.67	20	3		
15	16QAM	76	38	19.56	19.67	20.03	20.07	20.00	20.00				
15	16QAM	1	37	19.86	19.87	19.90	20.00	20.01	20.01				
15	16QAM	1	74	19.86	19.82	19.82	19.89	19.85	19.85				
15	16QAM	38	0	19.83	19.89	19.70	19.74	19.64	19.64	20	3		
15	16QAM	38	38	19.50	19.37	19.62	19.68	19.56	19.56				
15	16QAM	38	76	19.54	19.42	19.42	19.48	19.48	19.48				
15	16QAM	76	0	19.83	19.38	19.68	19.79	19.62	19.62				
15	256QAM	1	0	19.86	19.86	19.86	19.86	19.86	19.86	18	5		
15	256QAM	1	37	19.89	19.83	19.78	19.86	19.85	19.85				
15	256QAM	1	74	19.75	19.80	19.84	19.87	19.78	19.78				
15	256QAM	38	0	19.63	19.66	19.66	19.66	19.66	19.66				
15	256QAM	38	20	19.50	19.38	19.66	19.63	19.57	19.57	18	5		
15	256QAM	38	58	19.56	19.44	19.65	19.65	19.62	19.62				
15	256QAM	100	0	19.55	19.48	19.71	19.77	19.58	19.58				
Channel													
Frequency (MHz)													
10	QPSK	1	0	21.41	21.16	21.03	21.24	21.49	21.49	23	0		
10	QPSK	1	25	21.61	21.52	21.75	21.80	21.72	21.72				
10	QPSK	1	50	21.54	21.54	21.54	21.75	21.60	21.60				
10	QPSK	26	0	20.81	20.67	20.81	20.86	20.69	20.69				
10	QPSK	26	12	20.64	20.61	20.62	20.78	20.70	20.70	22	1		
10	QPSK	26	25	20.62	20.51	20.62	20.70	20.64	20.64				
10	QPSK	50	0	20.80	20.70	20.79	20.81	20.72	20.72				
10	16QAM	1	0	20.68	20.56	21.11	21.05	21.10	21.10				
10	16QAM	1	25	20.99	20.90	21.00	21.04	21.09	21.09	21	2		
10	16QAM	1	49	21.04	20.94	20.94	21.07	20.99	20.99				
10	16QAM	1	74	19.89	19.90	19.96	19.94	19.74	19.74				
10	16QAM	26	12	19.76	19.47	19.67	19.76	19.47	19.47				
10	16QAM	26	25	19.58	19.65	19.56	19.72	19.63	19.63	20	3		
10	16QAM	50	0	19.61	19.40	19.61	19.67	19.47	19.47				
10	16QAM	1	0	20.03	19.83	19.99	20.05	20.05	20.05				
10	16QAM	1	25	19.97	19.79	19.84	20.03	19.98	19.98				
10	16QAM	1	49	19.86	19.56	19.73	19.73	19.63	19.63	20	3		
10	16QAM	26	12	19.82	19.40	19.60	19.71	19.63	19.63				
10	16QAM	26	25	19.49	19.42	19.42	19.48	19.48	19.48				
10	16QAM	50	0	19.56	19.43	19.64	19.64	19.61	19.61				
10	16QAM	50	25	19.67	19.56	19.56	19.56	19.54	19.54	18	5		
10	256QAM	1	25	19.83	19.67	19.88	19.87	19.70	19.70				
10	256QAM	1	49	19.68	19.85	19.82	19.81	19.82	19.82				
10	256QAM	26	12	19.65	19.52	19.52	19.52	19.52	19.52				
10	256QAM	26	25	19.54	19.46	19.64	19.64	19.63	19.63	18	5		
10	256QAM	26	49	19.50	19.47	19.66	19.66	19.61	19.61				
10	256QAM	50	0	19.55	19.55	19.55	19.55	19.55	19.55				
Channel													
Frequency (MHz)													
5	QPSK	1	0	21.84	21.68	21.65	21.80	21.93	21.93	23	0		
5	QPSK	1	12	21.67	21.54	21.77	21.70	21.64	21.64				
5	QPSK	1	24	21.58	21.52	21.61	21.77	21.61	21.61				
5	QPSK	12	0	20.82	20.78	20.84	20.96	20.81	20.81				
5	QPSK	12	7	20.83	20.62	20.65	20.83	20.75	20.75	22	1		
5	QPSK	24	0	20.80	20.52	20.52	20.71	20.63	20.63				
5	QPSK	26	0	20.77	20.75	20.78	20.88	20.80	20.80				
5	16QAM	1	0	21.05	20.96	20.99	21.08	21.13	21.13				
5	16QAM	1	12	21.08	20.98	21.02	21.04	21.04	21.04	21	2		
5	16QAM	1	24	21.06	20.93	20.92	21.08	20.93	20.93				
5	16QAM	12	0	19.81	19.61	19.61	19.67	19.71	19.71				
5	16QAM	12	7	19.70	19.49	19.65	19.75	19.68	19.68				
5	16QAM	12	13	19.63	19.64	19.63	19.69	19.61	19.61	20	3		
5	16QAM	26	0	19.61	19.53	19.62	19.62	19.68	19.68				
5	16QAM	1	0	20.00	19.87	20.02	20.01	20.13	20.13				
5	16QAM	1	12	19.90	19.81	19.84	19.95	19.86	19.86				
5	16QAM	1	24	19.78	19.72	19.72	19.72	19.77	19.77	20	3		
5	16QAM	12	13	19.51	19.47	19.67	19.68	19.53	19.53				
5	16QAM	26	0	19.59	19.45	19.69	19.68	19.58	19.58				
5	16QAM	26	13	19.51	19.41	19.69	19.63	19.59	19.59				
5	256QAM	1	12	19.81	19.63	19.81	19.86	19.78	19.78	18	5		
5	256QAM	1	24	19.77	19.79	19.85	19.86	19.83	19.83				
5	256QAM	12	0	19.42	19.48	19.69	19.69	19.64	19.64				
5	256QAM	12	7	19.51	19.45	19.69	19.61	19.60	19.60				
5	256QAM	12	13	19.50	19.44	19.64	19.67	19.59	19.59	18	5		
5	256QAM	26	0	19.58	19.47	19.66	19.66	19.62	19.62				
5	256QAM	26	13	19.48	19.48	19.48	19.48	19.48	19.48				
5	256QAM	26	26	19.48	19.48	19.48	19.48	19.48	19.48				



Band 2 Ant 1												
BW [MHz]	Modulation	RB Size	RB Offset	Power [mW]	Power [mW]	Power [mW]	Turnup [dB]	MPR [dB]				
Channel												
Frequency [MHz]												
20	QPSK	1	0	14.76	14.86	14.94			16.1	0		
20	QPSK	1	49	14.80	14.90	14.92						
20	QPSK	1	99	14.80	14.90	14.82			16.1	0		
20	QPSK	50	0	14.76	14.81	14.81						
20	QPSK	50	14	14.76	14.74	14.75			16.1	0		
20	QPSK	50	50	14.76	14.76	14.71						
20	QPSK	100	0	14.54	14.70	14.48			16.1	0		
20	QPSK	100	50	14.54	14.62	14.68						
20	15QAM	1	49	14.68	14.68	14.59			16.1	0		
20	15QAM	1	99	14.45	14.36	14.58						
20	15QAM	50	0	14.50	14.44	14.58			16.1	0		
20	15QAM	50	24	14.48	14.43	14.43						
20	15QAM	50	50	14.48	14.52	14.58			16.1	0		
20	15QAM	100	0	14.46	14.30	14.51						
20	64QAM	1	0	14.57	14.56	14.41			16.1	0		
20	64QAM	1	49	14.59	14.58	14.57						
20	64QAM	50	0	14.59	14.48	14.47			16.1	0		
20	64QAM	50	24	14.59	14.48	14.58						
20	64QAM	50	50	14.46	14.39	14.58			16.1	0		
20	256QAM	100	0	14.46	14.32	14.52						
20	256QAM	1	49	14.59	14.51	14.44			16.1	0		
20	256QAM	1	99	14.54	14.32	14.54						
20	256QAM	50	0	14.59	14.59	14.57			16.1	0		
20	256QAM	50	24	14.52	14.39	14.51						
20	256QAM	50	50	14.49	14.32	14.54			16.1	0		
20	256QAM	100	0	14.49	14.32	14.54						
Channel												
Frequency [MHz]												
15	QPSK	1	0	14.71	14.86	14.80			16.1	0		
15	QPSK	1	49	14.71	14.84	14.84						
15	QPSK	1	74	14.70	14.84	14.87			16.1	0		
15	QPSK	36	0	14.80	14.79	14.86						
15	QPSK	36	14	14.84	14.87	14.89			16.1	0		
15	QPSK	36	99	14.71	14.76	14.81						
15	15QAM	1	37	15.09	14.64	14.54			16.1	0		
15	15QAM	36	0	14.46	14.47	14.52						
15	15QAM	36	0	14.49	14.34	14.48			16.1	0		
15	15QAM	36	20	14.35	14.30	14.27						
15	15QAM	75	0	14.27	14.31	14.43			16.1	0		
15	64QAM	1	0	14.49	14.46	14.35						
15	64QAM	1	49	14.52	14.52	14.48			16.1	0		
15	64QAM	1	74	14.53	14.25	14.42						
15	64QAM	36	0	14.30	14.27	14.40			16.1	0		
15	64QAM	36	0	14.53	14.53	14.49						
15	64QAM	36	99	14.32	14.25	14.46			16.1	0		
15	64QAM	75	0	14.37	14.27	14.48						
15	256QAM	1	37	15.02	14.62	14.52			16.1	0		
15	256QAM	1	74	14.41	14.29	14.48						
15	256QAM	36	0	14.47	14.34	14.50			16.1	0		
15	256QAM	36	20	14.38	14.25	14.46						
15	256QAM	36	99	14.36	14.27	14.45			16.1	0		
15	256QAM	75	0	14.43	14.47	14.50						
Channel												
Frequency [MHz]												
10	QPSK	1	0	14.71	14.86	14.80			16.1	0		
10	QPSK	1	25	14.70	14.76	14.85						
10	QPSK	1	49	14.70	14.87	14.78			16.1	0		
10	QPSK	25	12	14.63	14.80	14.77						
10	QPSK	25	12	14.73	14.84	14.76			16.1	0		
10	QPSK	25	25	14.70	14.69	14.67						
10	15QAM	1	0	14.52	14.60	14.63			16.1	0		
10	15QAM	1	25	14.54	14.57	14.65						
10	15QAM	1	25	14.56	14.57	14.65			16.1	0		
10	15QAM	25	12	14.36	14.37	14.32						
10	15QAM	25	12	14.45	14.39	14.40			16.1	0		
10	15QAM	50	0	14.38	14.27	14.38						
10	64QAM	1	0	14.42	14.46	14.34			16.1	0		
10	64QAM	1	49	14.51	14.52	14.48						
10	64QAM	1	49	14.56	14.35	14.41			16.1	0		
10	64QAM	25	0	14.23	14.31	14.37						
10	64QAM	25	12	14.48	14.42	14.43			16.1	0		
10	64QAM	25	25	14.36	14.32	14.49						
10	64QAM	50	0	14.41	14.28	14.52			16.1	0		
10	256QAM	1	25	14.48	14.44	14.46						
10	256QAM	1	25	14.49	14.44	14.36			16.1	0		
10	256QAM	1	49	14.41	14.33	14.53						
10	256QAM	1	49	14.41	14.33	14.53			16.1	0		
10	256QAM	12	13	14.41	14.31	14.53						
10	256QAM	12	13	14.41	14.31	14.53			16.1	0		
10	256QAM	25	12	14.36	14.26	14.41						
10	256QAM	25	25	14.36	14.26	14.41			16.1	0		
10	256QAM	50	14	14.36	14.26	14.42						
Channel												
Frequency [MHz]												
5	QPSK	1	0	14.63	14.68	14.64			16.1	0		
5	QPSK	1	12	14.73	14.81	14.84						
5	QPSK	1	24	14.70	14.80	14.71			16.1	0		
5	QPSK	12	0	14.86	14.76	14.84						
5	QPSK	12	7	14.74	14.84	14.71			16.1	0		
5	QPSK	12	13	14.64	14.66	14.64						
5	15QAM	1	0	14.51	14.57	14.59			16.1	0		
5	15QAM	1	12	14.60	14.58	14.60						
5	15QAM	1	12	14.58	14.51	14.43			16.1	0		
5	15QAM	12	0	14.51	14.35	14.42						
5	15QAM	12	7	14.34	14.28	14.31			16.1	0		
5	15QAM	12	13	14.40	14.42	14.43						
5	15QAM	25	0	14.38	14.33	14.39			16.1	0		
5	64QAM	1	0	14.41	14.42	14.31						
5	64QAM	1	0	14.54	14.33	14.40			16.1	0		
5	64QAM	1	24	14.56	14.32	14.43						
5	64QAM	12	7	14.48	14.37	14.42			16.1	0		
5	64QAM	12	13	14.35	14.31	14.53						
5	64QAM	25	0	14.41	14.31	14.53			16.1	0		
5	256QAM	1	0	14.38	14.26	14.44					16.1	0
5	256QAM	1	12	14.54	14.43	14.29						
5	256QAM	1	24	14.47	14.36	14.41			16.1	0		
5	256QAM	12	0	14.51	14.29	14.44						
5	256QAM	12	7	14.39	14.34	14.37			16.1	0		
5	256QAM	12	13	14.36	14.26	14.41						
5	256QAM	25	0	14.42	14.40	14.37			16.1	0		
5	256QAM	25	12	14.40	14.30	14.48						
Channel												
Frequency [MHz]												
3	QPSK	1	0	14.61	14.67	14.62			16.1	0		
3	QPSK	1	8	14.68	14.61	14.68						
3	QPSK	1	14	14.72	14.61	14.67			16.1	0		
3	QPSK	8	4	14.67	14.64	14.69						
3	QPSK	8	7	14.68	14.60	14.65			16.1	0		
3	15QAM	1	0	14.45	14.58	14.59						
3	15QAM	1	8	14.59	14.58	14.54			16.1	0		
3	15QAM	1	14	14.64	14.54	14.64						
3	15QAM	14	30	14.36	14.28	14.53			16.1	0		
3	15QAM	8	0	14.52	14.52	14.52						
3	15QAM	8	7	14.34	14.33	14.34			16.1	0		
3	15QAM	8	7	14.49	14.36	14.53						
3	64QAM	1	0	14.52	14.52	14.48			16.1	0		
3	64QAM	1	14	14.54	14.26	14.49						
3	64QAM	1	14	14.59	14.35	14.44			16.1	0		
3	64QAM	8	0	14.30	14.27	14.42						
3	64QAM	8	4	14.51	14.30	14.33			16.1	0		
3	64QAM	8	7	14.34	14.33	14.34						
3	64QAM	8	7	14.38	14.31	14.49			16.1	0		
3	256QAM	1	0	14.40	14.31	14.49						
3	256QAM	1	8	14.54	14.38	14.45			16.1	0		
3	256QAM	1	14	14.45	14.16	14.41						
3	256QAM	8	0	14.45	14.27	14.47			16.1	0		
3	256QAM	8	7	14.36	14.26	14.44						
3	256QAM	8	7	14.37	14.24	14.38			16.1	0		
3	256QAM	15	0	14.42	14.38	14.40						
Channel												
Frequency [MHz]												
1.4	QPSK	1	0	14.67	14.63	14.68			16.1	0		
1.4	QPSK	1	8	14.72	14.62	14.63						
1.4	QPSK	1	16	14.70	14.81	14.72			16.1	0		
1.4	QPSK	3	0	14.83	14.68	14.75						
1.4	QPSK	3	8	14.74	14.67	14.67			16.1	0		
1.4	QPSK	3	16	14.72	14.67	14.65						
1.4	15QAM	1	0	14.52	14.57	14.63			16.1	0		
1.4	15QAM	1	8	14.60	14.55	14.60						
1.4	15QAM	1	16	14.59	14.54	14.59			16.1	0		
1.4	15QAM	15	0	14.46	14.36	14.45						
1.4	15QAM	15	8	14.53	14.53	14.47			16.1	0		
1.4	15QAM	15	16	14.53	14.27	14.45						
1.4	15QAM	3	0	14.42	14.36	14.43			16.1	0		
1.4	15QAM	3	8	14.44	14.36	14.43						
1.4	15QAM	3	16	14.44	14.35	14.44			16.1	0		
1.4	15QAM	15	0	14.43	14.35	14.43						
1.4	15QAM	15	8	14.43	14.35	14.43			16.1	0		
1.4	15QAM	15	16	14.43	14.35</							



Band 38 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / [Freq]	Power Mid Ch / [Freq]	Power High Ch / [Freq]	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37465	38050	38150			
20	QPSK	1	0	19.73	19.85	19.73	20.5	0	
20	QPSK	1	49	19.80	19.89	19.82			
20	QPSK	50	0	19.86	19.98	19.92	20.5	0	
20	QPSK	50	49	19.89	19.94	19.91			
20	QPSK	50	24	19.81	19.88	19.72	20.5	0	
20	HQAM	100	0	19.76	19.80	19.76			
20	QPSK	100	0	19.43	19.64	19.43	20.5	0	
20	16QAM	1	0	19.86	19.87	19.85			
20	16QAM	1	49	19.89	19.84	19.82	20.5	0	
20	16QAM	1	99	19.36	19.30	19.42			
20	16QAM	1	99	19.81	19.36	19.36	20.5	0	
20	16QAM	50	0	19.39	19.39	19.59			
20	16QAM	50	24	19.39	19.39	19.41	20.5	0	
20	16QAM	50	50	19.59	19.57	19.59			
20	16QAM	50	50	19.36	19.29	19.30	20.5	0	
20	BAGAM	100	0	19.41	19.28	19.32			
20	255QAM	1	0	17.79	17.85	17.83	19	1.5	
20	255QAM	1	49	17.81	17.89	17.75			
20	255QAM	1	99	17.77	17.83	17.78	19	1.5	
20	255QAM	1	99	17.77	17.83	17.78			
20	255QAM	50	0	17.52	17.56	17.40	19	1.5	
20	255QAM	50	24	17.52	17.56	17.40			
20	255QAM	50	50	17.60	17.55	17.51	19	1.5	
20	255QAM	50	50	17.60	17.55	17.51			
Channel									
Frequency (MHz)				37455	38050	38175	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	19.12	19.15	19.12	20.5	0	
15	QPSK	1	37	19.76	19.71	19.81			
15	QPSK	1	74	19.66	19.70	19.73	20.5	0	
15	QPSK	36	0	19.51	19.78	19.66			
15	QPSK	36	20	19.64	19.54	19.66	20.5	0	
15	QPSK	36	36	19.40	19.49	19.39			
15	HQAM	1	0	19.45	19.45	19.50	20.5	0	
15	HQAM	1	37	19.52	19.42	19.50			
15	HQAM	1	74	19.25	19.28	19.34	20.5	0	
15	HQAM	36	0	19.50	19.26	19.41			
15	HQAM	36	20	19.26	19.35	19.35	20.5	0	
15	HQAM	36	36	19.47	19.46	19.39			
15	HQAM	75	0	19.27	19.33	19.43	20.5	0	
15	HQAM	75	0	19.45	19.40	19.27			
15	BAGAM	1	0	19.45	19.45	19.45	20.5	0	
15	BAGAM	1	37	19.40	19.29	19.43			
15	BAGAM	1	74	19.50	19.35	19.42	20.5	0	
15	BAGAM	36	0	19.22	19.25	19.35			
15	BAGAM	36	20	19.51	19.39	19.34	20.5	0	
15	BAGAM	36	36	19.40	19.40	19.34			
15	255QAM	1	0	17.71	17.82	17.82	19	1.5	
15	255QAM	1	37	17.73	17.77	17.77			
15	255QAM	1	74	17.77	17.77	17.77	19	1.5	
15	255QAM	36	0	17.53	17.62	17.53			
15	255QAM	36	20	17.62	17.62	17.62	19	1.5	
15	255QAM	36	36	17.48	17.51	17.42			
15	255QAM	75	0	17.59	17.54	17.47	19	1.5	
15	255QAM	75	0	17.59	17.54	17.47			
Channel									
Frequency (MHz)				37465	38050	38225	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	19.52	19.52	20.17	20.5	0	
5	QPSK	1	12	19.73	19.87	19.74			
5	QPSK	1	24	19.87	19.89	19.85	20.5	0	
5	QPSK	12	0	19.48	19.61	19.73			
5	QPSK	12	7	19.60	19.55	19.61	20.5	0	
5	QPSK	12	13	19.59	19.52	19.54			
5	HQAM	25	0	19.42	19.55	19.33	20.5	0	
5	HQAM	25	0	19.55	19.48	19.47			
5	HQAM	1	12	19.53	19.51	19.52	20.5	0	
5	HQAM	1	24	19.30	19.33	19.40			
5	HQAM	12	0	19.48	19.21	19.41	20.5	0	
5	HQAM	12	7	19.31	19.22	19.32			
5	HQAM	12	13	19.45	19.37	19.46	20.5	0	
5	HQAM	12	13	19.45	19.37	19.46			
5	HQAM	25	0	19.29	19.24	19.34	20.5	0	
5	HQAM	25	0	19.43	19.43	19.25			
5	BAGAM	1	12	19.49	19.51	19.48	20.5	0	
5	BAGAM	1	24	19.46	19.25	19.34			
5	BAGAM	12	0	19.23	19.31	19.28	20.5	0	
5	BAGAM	12	7	19.40	19.35	19.27			
5	BAGAM	12	13	19.24	19.31	19.44	20.5	0	
5	BAGAM	12	13	19.24	19.31	19.44			
5	255QAM	1	12	17.79	17.78	17.72	19	1.5	
5	255QAM	1	24	17.77	17.81	17.77			
5	255QAM	12	0	17.46	17.71	17.55	19	1.5	
5	255QAM	12	7	17.46	17.62	17.52			
5	255QAM	12	13	17.59	17.59	17.40	19	1.5	
5	255QAM	12	13	17.54	17.60	17.49			

Band 41 Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch1 / [Freq]	Power Ch2 / [Freq]	Power Ch3 / [Freq]	Power Ch4 / [Freq]	Power Ch5 / [Freq]	Tune-up limit [dBm]	MPR [dB]
Channel										
Frequency [MHz]				39790	40185	40620	41005	41490		
20	QPSK	1	0	19.86	19.95	19.89	19.86	19.78	20.5	0
20	QPSK	1	49	19.93	19.94	19.96	19.87	19.86		
20	QPSK	50	0	19.90	19.86	19.88	19.82	19.86	20.5	0
20	QPSK	50	49	19.73	19.94	19.82	19.74	19.83		
20	QPSK	50	24	19.80	19.73	19.79	19.88	19.72	20.5	0
20	QPSK	50	50	19.80	19.73	19.83	19.85	19.80		
20	QPSK	100	0	19.59	19.70	19.51	19.51	19.46	20.5	0
20	15QAM	1	0	19.68	19.66	19.78	19.57	19.66		
20	15QAM	1	99	19.51	19.33	19.56	19.48	19.47	20.5	0
20	15QAM	50	0	19.45	19.45	19.45	19.39	19.43		
20	15QAM	50	24	19.67	19.64	19.60	19.50	19.55	20.5	0
20	15QAM	50	50	19.67	19.64	19.60	19.50	19.55		
20	64QAM	100	0	19.05	19.08	19.47	19.32	19.42	20.5	0
20	64QAM	1	99	19.73	19.51	19.52	19.43	19.45		
20	64QAM	50	24	19.66	19.58	19.45	19.41	19.43	20.5	0
20	64QAM	50	50	19.53	19.54	19.51	19.45	19.45		
20	64QAM	100	0	19.52	19.40	19.54	19.48	19.48	20.5	0
20	255QAM	1	0	18.46	18.46	18.31	18.37	18.33	19	1.5
20	255QAM	1	49	18.39	18.46	18.31	18.32	18.34		
20	255QAM	1	99	18.40	18.39	18.29	18.29	18.36	19	1.5
20	255QAM	1	99	18.34	18.34	18.24	18.24	18.31		
20	255QAM	50	24	18.07	18.18	17.07	17.05	17.07	19	1.5
20	255QAM	50	50	18.15	18.20	18.09	17.94	17.95		
20	255QAM	100	0	18.12	18.18	18.08	17.93	17.94	19	1.5
Channel				39720	40173	40620	41008	41512	Tune-up limit [dBm]	MPR [dB]
Frequency [MHz]				39720	40173	40620	41008	41512		
15	QPSK	1	0	19.81	19.90	19.85	19.78	19.68	21	0
15	QPSK	1	37	19.85	19.88	19.91	19.72	19.83		
15	QPSK	1	74	19.76	19.94	19.77	19.70	19.69	21	0
15	QPSK	50	0	19.87	19.79	19.87	19.82	19.74		
15	QPSK	36	20	19.74	19.65	19.76	19.67	19.62	20.5	0
15	QPSK	36	56	19.77	19.66	19.77	19.67	19.62		
15	QPSK	75	0	19.48	19.67	19.51	19.49	19.29	20.5	0
15	15QAM	1	0	19.62	19.48	19.58	19.43	19.49		
15	15QAM	1	99	19.44	19.26	19.47	19.39	19.43	20.5	0
15	15QAM	50	0	19.30	19.33	19.43	19.44	19.43		
15	15QAM	36	0	19.81	19.40	19.48	19.47	19.41	20.5	0
15	15QAM	36	56	19.38	19.45	19.45	19.39	19.38		
15	15QAM	36	36	19.50	19.57	19.46	19.43	19.47	20.5	0
15	64QAM	1	0	19.05	19.08	19.47	19.32	19.42		
15	64QAM	1	99	19.61	19.56	19.34	19.22	19.34	20.5	0
15	64QAM	1	37	19.52	19.42	19.59	19.38	19.48		
15	64QAM	50	0	19.47	19.47	19.47	19.41	19.41	20.5	0
15	64QAM	36	0	19.31	19.42	19.45	19.30	19.40		
15	64QAM	36	20	19.54	19.47	19.36	19.34	19.31	20.5	0
15	64QAM	36	56	19.38	19.38	19.43	19.29	19.38		
15	64QAM	75	0	19.44	19.38	19.51	19.32	19.38	20.5	0
15	255QAM	1	0	18.37	18.20	18.20	18.26	18.26		
15	255QAM	1	37	18.36	18.42	18.17	18.42	18.17	19	1.5
15	255QAM	1	74	18.34	18.30	18.18	18.21	18.23		
15	255QAM	50	0	17.95	18.05	17.05	17.05	17.05	19	1.5
15	255QAM	50	20	17.98	18.16	17.09	17.05	17.05		
15	255QAM	36	20	18.07	18.17	18.05	17.86	17.85	19	1.5
15	255QAM	36	56	18.11	18.18	18.07	17.87	17.83		
Channel				39670	40160	40620	41000	41488	Tune-up limit [dBm]	MPR [dB]
Frequency [MHz]				39670	40160	40620	41000	41488		
5	QPSK	1	0	19.73	19.14	19.63	19.71	19.71	21	0
5	QPSK	1	25	19.78	19.83	19.86	19.70	19.81		
5	QPSK	1	49	19.74	19.79	19.81	19.65	19.75	21	0
5	QPSK	50	0	19.87	19.85	19.87	19.67	19.87		
5	QPSK	25	12	19.70	19.64	19.79	19.62	19.69	20.5	0
5	QPSK	25	37	19.74	19.67	19.79	19.62	19.58		
5	QPSK	50	0	19.62	19.60	19.41	19.42	19.31	20.5	0
5	15QAM	1	0	19.67	19.51	19.58	19.48	19.59		
5	15QAM	1	49	19.43	19.53	19.43	19.47	19.45	20.5	0
5	15QAM	1	49	19.34	19.30	19.43	19.36	19.41		
5	15QAM	25	0	19.54	19.36	19.57	19.54	19.42	20.5	0
5	15QAM	25	12	19.44	19.38	19.47	19.47	19.30		
5	15QAM	25	37	19.50	19.54	19.50	19.30	19.42	20.5	0
5	15QAM	50	0	19.30	19.30	19.30	19.24	19.30		
5	64QAM	1	0	19.06	19.46	19.35	19.17	19.36	20.5	0
5	64QAM	1	25	19.58	19.35	19.50	19.40	19.47		
5	64QAM	1	49	19.08	19.42	19.43	19.43	19.28	20.5	0
5	64QAM	25	0	19.38	19.32	19.49	19.38	19.34		
5	64QAM	25	12	19.55	19.54	19.47	19.27	19.39	20.5	0
5	64QAM	25	37	19.30	19.43	19.47	19.43	19.27		
5	64QAM	50	0	19.40	19.37	19.46	19.43	19.41	20.5	0
5	255QAM	1	0	18.37	18.43	18.17	18.26	18.29		
5	255QAM	1	25	18.33	18.37	18.17	18.42	18.18	19	1.5
5	255QAM	1	49	18.38	18.35	18.26	18.26	18.26		
5	255QAM	50	0	17.95	18.05	17.05	17.05	17.05	19	1.5
5	255QAM	50	12	17.97	18.10	17.83	17.90	17.90		
5	255QAM	25	25	18.13	18.15	18.05	17.87	17.85	19	1.5
5	255QAM	25	37	18.15	18.16	18.01	17.87	17.83		
Channel				39670	40148	40620	41000	41468	Tune-up limit [dBm]	MPR [dB]
Frequency [MHz]				39670	40148	40620	41000	41468		
5	QPSK	1	0	19.78	19.18	19.63	19.71	19.71	21	0
5	QPSK	1	12	19.76	19.88	19.89	19.71	19.78		
5	QPSK	1	24	19.82	19.89	19.90	19.57	19.75	21	0
5	QPSK	50	0	19.78	19.83	19.80	19.63	19.75		
5	QPSK	12	7	19.73	19.71	19.72	19.61	19.64	20.5	0
5	QPSK	12	19	19.77	19.63	19.73	19.61	19.53		
5	QPSK	25	0	19.50	19.58	19.42	19.40	19.36	20.5	0
5	15QAM	1	0	19.65	19.48	19.57	19.46	19.56		
5	15QAM	1	12	19.67	19.55	19.47	19.47	19.27	20.5	0
5	15QAM	1	24	19.30	19.30	19.45	19.38	19.42		
5	15QAM	12	0	19.58	19.40	19.51	19.50	19.40	20.5	0
5	15QAM	12	12	19.38	19.30	19.45	19.45	19.27		
5	15QAM	12	13	19.50	19.57	19.58	19.37	19.37	20.5	0
5	64QAM	1	0	19.07	19.06	19.47	19.32	19.37		
5	64QAM	1	99	19.80	19.51	19.40	19.17	19.26	20.5	0
5	64QAM	1	12	19.50	19.33	19.54	19.48	19.45		
5	64QAM	25	0	19.03	19.44	19.45	19.45	19.28	20.5	0
5	64QAM	12	0	19.30	19.31	19.47	19.33	19.43		
5	64QAM	12	7	19.55	19.43	19.45	19.25	19.31	20.5	0
5	64QAM	12	19	19.39	19.48	19.48	19.29	19.39		
5	64QAM	25	0	19.46	19.36	19.52	19.32	19.39	20.5	0
5	255QAM	1	0	18.41	18.36	18.20	18.27	18.23		
5	255QAM	1	12	18.28	18.32	18.17	18.42	18.18	19	1.5
5	255QAM	1	24	18.29	18.34	18.18	18.22	18.28		
5	255QAM	50	0	17.98	18.01	17.05	17.05	17.05	19	1.5
5	255QAM	50	7	17.94	18.15	17.09	17.07	17.07		
5	255QAM	12	13	18.07	18.09	18.00	17.88	17.91	19	1.5
5	255QAM	12	19	18.17	18.08	18.01	17.81	17.83		



Band 38 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37850	38050	38150			
20	QPSK	1	0	22.57	22.63	22.63	24	0	
20	QPSK	1	48	22.44	22.46	22.39			
20	QPSK	50	0	22.56	22.67	22.67			
20	QPSK	50	24	21.41	21.53	21.39			
20	QPSK	50	48	21.71	21.67	21.66	23	1	
20	QPSK	100	0	21.52	21.65	21.56			
20	QPSK	100	0	21.80	21.67	21.78			
20	QPSK	100	1	21.71	21.67	21.66			
20	QPSK	100	1	21.71	21.67	21.66	23	1	
20	QPSK	100	1	21.71	21.67	21.66			
20	QPSK	100	1	21.71	21.67	21.66			
20	QPSK	100	1	21.71	21.67	21.66			
20	QPSK	100	1	21.71	21.67	21.66	22	2	
20	QPSK	100	1	21.71	21.67	21.66			
20	QPSK	100	1	21.71	21.67	21.66			
20	QPSK	100	1	21.71	21.67	21.66			
20	QPSK	100	1	21.71	21.67	21.66	22	2	
20	QPSK	100	1	21.71	21.67	21.66			
20	QPSK	100	1	21.71	21.67	21.66			
20	QPSK	100	1	21.71	21.67	21.66			
20	QPSK	100	1	21.71	21.67	21.66	21	3	
20	QPSK	100	1	21.71	21.67	21.66			
20	QPSK	100	1	21.71	21.67	21.66			
20	QPSK	100	1	21.71	21.67	21.66			
20	QPSK	100	1	21.71	21.67	21.66	19	5	
20	QPSK	100	1	21.71	21.67	21.66			
20	QPSK	100	1	21.71	21.67	21.66			
20	QPSK	100	1	21.71	21.67	21.66			
20	QPSK	100	1	21.71	21.67	21.66			
Channel									
Frequency (MHz)				37850	38050	38175	Turn-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	22.57	22.63	22.63	24	0	
15	QPSK	1	37	22.38	22.39	22.34			
15	QPSK	1	74	22.28	22.38	22.35			
15	QPSK	36	0	21.55	21.60	21.58			
15	QPSK	36	20	21.35	21.41	21.36	23	1	
15	QPSK	36	38	21.52	21.58	21.57			
15	QPSK	75	0	21.45	21.56	21.48			
15	QPSK	75	0	21.45	21.56	21.48			
15	QPSK	1	0	21.59	21.54	21.73	23	1	
15	QPSK	1	37	21.46	21.51	21.61			
15	QPSK	1	74	21.65	21.75	21.72			
15	QPSK	36	0	20.40	20.42	20.27			
15	QPSK	36	20	20.32	20.35	20.32	22	2	
15	QPSK	36	38	20.26	20.33	20.31			
15	QPSK	75	0	20.44	20.40	20.27			
15	QPSK	75	0	20.38	20.39	20.36			
15	QPSK	1	0	20.54	20.59	20.67	22	2	
15	QPSK	1	37	20.51	20.62	20.66			
15	QPSK	1	74	20.51	20.62	20.66			
15	QPSK	36	0	19.38	19.40	19.35			
15	QPSK	36	20	19.29	19.40	19.35	21	3	
15	QPSK	36	38	19.38	19.50	19.36			
15	QPSK	75	0	19.51	19.57	19.55			
15	QPSK	75	0	19.57	19.61	19.66			
15	QPSK	1	0	17.57	17.61	17.66	19	5	
15	QPSK	1	37	17.57	17.61	17.66			
15	QPSK	1	74	17.57	17.61	17.66			
15	QPSK	36	0	17.38	17.38	17.25			
15	QPSK	36	20	17.34	17.36	17.27	19	5	
15	QPSK	36	38	17.42	17.42	17.28			
15	QPSK	75	0	17.40	17.41	17.28			
15	QPSK	75	0	17.40	17.41	17.28			
Channel									
Frequency (MHz)				37850	38050	38050	Turn-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	22.61	22.66	22.66	24	0	
10	QPSK	1	25	22.59	22.54	22.58			
10	QPSK	1	48	22.30	22.34	22.38			
10	QPSK	50	0	21.52	21.64	21.52			
10	QPSK	50	24	21.32	21.44	21.37	23	1	
10	QPSK	50	48	21.50	21.59	21.52			
10	QPSK	100	0	21.50	21.78	21.57			
10	QPSK	100	0	21.50	21.78	21.57			
10	QPSK	100	1	21.78	21.67	21.66	23	1	
10	QPSK	100	1	21.78	21.67	21.66			
10	QPSK	100	1	21.78	21.67	21.66			
10	QPSK	100	1	21.78	21.67	21.66			
10	QPSK	100	1	21.78	21.67	21.66	22	2	
10	QPSK	100	1	21.78	21.67	21.66			
10	QPSK	100	1	21.78	21.67	21.66			
10	QPSK	100	1	21.78	21.67	21.66			
10	QPSK	100	1	21.78	21.67	21.66	21	3	
10	QPSK	100	1	21.78	21.67	21.66			
10	QPSK	100	1	21.78	21.67	21.66			
10	QPSK	100	1	21.78	21.67	21.66			
10	QPSK	100	1	21.78	21.67	21.66	19	5	
10	QPSK	100	1	21.78	21.67	21.66			
10	QPSK	100	1	21.78	21.67	21.66			
10	QPSK	100	1	21.78	21.67	21.66			
10	QPSK	100	1	21.78	21.67	21.66			
Channel									
Frequency (MHz)				2515	2545	2545	Turn-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	22.55	22.59	22.47	24	0	
5	QPSK	1	12	22.45	22.35	22.30			
5	QPSK	1	24	22.28	22.40	22.39			
5	QPSK	12	0	21.45	21.66	21.67			
5	QPSK	12	7	21.34	21.49	21.30	23	1	
5	QPSK	12	13	21.31	21.29	21.30			
5	QPSK	12	19	21.46	21.58	21.46			
5	QPSK	12	25	21.75	21.63	21.76			
5	QPSK	1	12	21.59	21.66	21.62	23	1	
5	QPSK	1	24	21.64	21.63	21.76			
5	QPSK	12	0	20.45	20.47	20.38			
5	QPSK	12	7	20.28	20.44	20.34			
5	QPSK	12	13	20.35	20.41	20.35	22	2	
5	QPSK	12	19	20.26	20.41	20.35			
5	QPSK	25	0	20.38	20.47	20.25			
5	QPSK	25	0	20.60	20.61	20.77			
5	QPSK	1	24	20.56	20.66	20.76	22	2	
5	QPSK	1	12	19.44	19.42	19.34			
5	QPSK	12	7	19.28	19.38	19.31			
5	QPSK	12	13	19.41	19.52	19.24			
5	QPSK	1	0	17.58	17.61	17.58	21	3	
5	QPSK	1	6	17.58	17.61	17.58			
5	QPSK	12	13	17.53	17.63	17.47			
5	QPSK	12	19	17.37	17.38	17.28			
5	QPSK	12	7	17.38	17.32	17.23	19	5	
5	QPSK	12	13	17.38	17.38	17.29			
5	QPSK	25	0	17.37	17.42	17.37			
5	QPSK	25	0	17.37	17.42	17.37			

Band 41 Ant 2											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)				36750	40188	40620	41058	41540			
15	QPSK	5	0	22.68	22.68	22.52	22.72	22.68			
15	QPSK	1	48	22.57	22.65	22.63	22.68	22.44			
15	QPSK	5	96	22.52	22.48	22.55	22.53	22.48			0
15	QPSK	5	50	21.88	21.81	21.81	21.79	21.88			
15	QPSK	50	24	21.60	21.56	21.72	21.66	21.44			
15	QPSK	5	144	21.67	21.63	21.63	21.61	21.66			3
15	QPSK	100	0	21.71	21.63	21.61	21.58	21.44			
15	16QAM	1	0	21.93	21.91	22.06	22.00	21.88			
15	16QAM	1	48	21.86	21.86	21.86	21.86	21.82			23
15	16QAM	1	96	21.97	21.82	22.10	21.95	21.88			
15	16QAM	50	0	20.82	20.86	20.71	20.85	20.82			
15	16QAM	50	24	20.83	20.80	20.86	20.79	20.81			
15	16QAM	50	50	20.50	20.50	20.57	20.53	20.51			2
15	16QAM	100	0	20.53	20.57	20.56	20.56	20.47			
15	16QAM	100	0	20.38	20.37	20.46	20.46	20.34			
15	16QAM	1	48	20.84	20.72	20.66	20.86	20.75			2
15	16QAM	1	96	20.78	20.76	20.78	20.78	20.72			
15	16QAM	50	0	19.58	19.65	19.71	19.54	19.46			
15	16QAM	50	24	19.47	19.55	19.67	19.42	19.38			
15	16QAM	50	50	19.48	19.52	19.68	19.54	19.34			21
15	16QAM	100	0	19.48	19.48	19.48	19.46	19.41			
15	256QAM	1	0	17.71	17.81	17.86	17.81	17.71			
15	256QAM	1	48	17.72	17.79	17.77	17.72	17.67			
15	256QAM	1	96	17.63	17.77	17.77	17.82	17.67			
15	256QAM	50	24	17.48	17.55	17.51	17.33	17.30			
15	256QAM	50	50	17.47	17.54	17.55	17.58	17.47			5
15	256QAM	100	0	17.58	17.56	17.57	17.67	17.58			
Channel				36720	40173	40620	41068	41515			
Frequency (MHz)				36750	40188	40620	41058	41540	Turn-up limit (dBm)	MPR (dB)	
15	QPSK	5	0	22.60	22.67	22.53	22.74	22.49			
15	QPSK	1	48	22.48	22.48	22.59	22.55	22.35			24
15	QPSK	1	72	22.48	22.47	22.51	22.43	22.31			
15	QPSK	5	96	21.55	21.48	21.51	21.48	21.45			
15	QPSK	36	20	21.53	21.53	21.68	21.42	21.33			
15	QPSK	36	20	21.63	21.63	21.63	21.63	21.48			23
15	QPSK	75	0	21.68	21.61	21.77	21.65	21.49			
15	16QAM	1	0	21.97	21.83	21.96	21.89	21.83			
15	16QAM	1	48	21.80	21.88	21.88	21.88	21.73			23
15	16QAM	1	72	21.92	21.89	22.00	21.91	21.74			
15	16QAM	36	0	20.51	20.49	20.58	20.42	20.44			
15	16QAM	36	20	20.50	20.52	20.60	20.48	20.38			
15	16QAM	36	36	20.47	20.40	20.55	20.50	20.45			2
15	16QAM	75	0	20.41	20.38	20.41	20.38	20.36			
15	16QAM	75	0	20.84	20.78	20.88	20.55	20.80			
15	16QAM	1	36	20.78	20.86	20.76	20.79	20.68			
15	16QAM	1	72	20.75	20.73	20.73	20.73	20.62			22
15	16QAM	36	0	19.47	19.52	19.60	19.52	19.38			
15	16QAM	36	20	19.38	19.50	19.47	19.29	19.34			
15	16QAM	36	36	19.38	19.39	19.47	19.47	19.34			21
15	16QAM	75	0	19.41	19.44	19.54	19.43	19.35			
15	256QAM	1	0	17.66	17.72	17.72	17.66	17.57			
15	256QAM	1	48	17.71	17.72	17.62	17.60	17.52			
15	256QAM	1	72	17.51	17.72	17.74	17.78	17.58			5
15	256QAM	50	24	17.46	17.53	17.45	17.46	17.46			
15	256QAM	50	50	17.41	17.53	17.45	17.34	17.34			
15	256QAM	36	36	17.47	17.47	17.48	17.42	17.31			19
15	256QAM	75	0	17.46	17.47	17.47	17.47	17.43			
Channel				36700	40160	40620	41068	41540	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				36750	40188	40620	41058	41540			
15	QPSK	5	0	22.61	22.61	22.51	22.68	22.46			
15	QPSK	1	24	22.49	22.52	22.52	22.50	22.41			0
15	QPSK	1	48	22.49	22.48	22.51	22.43	22.31			
15	QPSK	25	0	21.67	21.53	21.74	21.63	21.55			
15	QPSK	25	12	21.47	21.44	21.67	21.61	21.39			
15	QPSK	25	12	21.48	21.47	21.67	21.67	21.41			23
15	QPSK	50	0	21.62	21.58	21.71	21.65	21.54			
15	16QAM	1	0	21.83	21.86	21.88	21.82	21.80			
15	16QAM	1	48	21.84	21.87	21.84	21.84	21.69			
15	16QAM	1	48	21.94	21.74	22.04	21.90	21.70			
15	16QAM	25	0	20.59	20.52	20.64	20.44	20.37			
15	16QAM	25	12	20.52	20.48	20.57	20.44	20.37			
15	16QAM	25	12	20.47	20.42	20.53	20.48	20.42			
15	16QAM	50	0	20.67	20.60	20.65	20.55	20.37			
15	16QAM	1	0	20.80	20.76	20.84	20.85	20.80			
15	16QAM	1	24	20.73	20.67	20.75	20.73	20.62			22
15	16QAM	1	48	20.75	20.72	20.78	20.78	20.67			
15	16QAM	25	0	19.52	19.55	19.57	19.47	19.41			
15	16QAM	25	12	19.43	19.42	19.44	19.37	19.27			
15	16QAM	25	12	19.48	19.43	19.48	19.43	19.28			21
15	16QAM	50	0	19.40	19.45	19.61	19.35	19.32			
15	256QAM	1	0	17.57	17.70	17.63	17.68	17.68			
15	256QAM	1	24	17.68	17.76	17.67	17.67	17.61			
15	256QAM	1	48	17.59	17.65	17.74	17.77	17.68			
15	256QAM	25	12	17.43	17.48	17.48	17.43	17.37			
15	256QAM	25	12	17.36	17.43	17.38	17.37	17.18			19
15	256QAM	25	12	17.47	17.41	17.47	17.38	17.21			
15	256QAM	50	0	17.43	17.49	17.49	17.49	17.43			
Channel				36675	40148	40620	41068	41565	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				36750	40188	40620	41058	41540			
15	QPSK	5	0	22.66	22.66	22.71	22.66	22.46			
15	QPSK	1	12	22.48	22.56	22.57	22.48	22.33			24
15	QPSK	1	24	22.42	22.47	22.51	22.47	22.41			
15	QPSK	12	0	21.61	21.57	21.79	21.65	21.63			
15	QPSK	12	7	21.56	21.43	21.59	21.52	21.42			23
15	16QAM	1	12	21.82	21.48	21.84	21.82	21.41			
15	16QAM	1	24	21.58	21.54	21.69	21.54	21.49			
15	16QAM	1	0	21.90	21.84	21.86	21.88	21.71			
15	16QAM	1	12	21.82	21.81	21.84	21.84	21.71			
15	16QAM	1	24	21.86	21.89	22.08	21.86	21.72			
15	16QAM	12	7	20.62	20.46	20.62	20.41	20.37			22
15	16QAM	12	13	20.47	20.37	20.46	20.51	20.39			
15	16QAM	25	0	20.68	20.56	20.68	20.68	20.44			
15	16QAM	1	0	20.79	20.82	20.83	20.83	20.79			
15	16QAM	1	12	20.70	20.69	20.82	20.80	20.70			22
15	16QAM	1	24	20.69	20.70	20.84	20.79	20.63			
15	16QAM	12	0	19.56	19.59	19.62	19.44	19.42			
15	16QAM	12	7	19.39	19.39	19.48	19.35	19.35			
15	16QAM	12	13	19.48	19.49	19.43	19.41	19.28			21
15	16QAM	25	0	19.43	19.44	19.57	19.38	19.29			
15	256QAM	1	0	17.58	17.70	17.63	17.67	17.61			
15	256QAM	1	12	17.67	17.69	17.61	17.65	17.46			
15	256QAM	1	24	17.55	17.68	17.71	17.73	17.68			
15	256QAM	12	7	17.44	17.42	17.42	17.37	17.21			
15	256QAM	12	7	17.43	17.49	17.41	17.31	17.26			
15	256QAM	12	13	17.46	17.40	17.46	17.46	17.23			
15	256QAM	25	0	17.43	17.50	17.49	17.49	17.40			5



Band 38 Ant 10											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)		
Channel											
Frequency (MHz)											
20	QPSK	1	0	22.75	22.75	22.75	22.75	24	0		
20	QPSK	1	48	22.81	22.86	22.84	22.84				
20	QPSK	50	0	21.71	21.79	21.77	21.77	23	1		
20	QPSK	50	24	21.54	21.71	21.54	21.54				
20	QPSK	50	48	21.34	21.59	21.65	21.65	23	1		
20	QPSK	100	0	21.70	21.85	21.66	21.66				
20	HQAM	1	0	21.34	22.06	22.06	22.06	23	1		
20	HQAM	1	96	21.30	22.02	21.87	21.87				
20	HQAM	50	0	20.83	20.76	20.57	20.57	22	2		
20	HQAM	50	24	20.85	20.57	20.50	20.50				
20	HQAM	50	50	20.47	20.58	20.50	20.50	22	2		
20	HQAM	100	0	20.58	20.54	20.53	20.53				
20	HQAM	1	48	20.76	20.84	20.83	20.83	22	2		
20	HQAM	1	96	20.75	20.89	20.88	20.88				
20	HQAM	50	0	19.54	19.54	19.53	19.53	21	3		
20	HQAM	50	24	19.51	19.57	19.51	19.51				
20	HQAM	50	50	19.57	19.57	19.45	19.45	21	3		
20	HQAM	100	0	19.58	19.59	19.47	19.47				
20	25QAM	1	0	17.75	17.84	17.89	17.89	19	5		
20	25QAM	1	48	17.77	17.86	17.74	17.74				
20	25QAM	1	96	17.79	17.77	17.85	17.85	19	5		
20	25QAM	36	0	17.57	17.57	17.52	17.52				
20	25QAM	36	24	17.50	17.57	17.37	17.37	19	5		
20	25QAM	50	50	17.57	17.59	17.42	17.42				
20	25QAM	100	0	17.57	17.58	17.42	17.42	19	5		
20	25QAM	100	0	17.62	17.63	17.45	17.45				
Channel											
Frequency (MHz)											
16	QPSK	1	0	22.72	22.69	22.72	22.72	24	0		
16	QPSK	1	37	22.89	22.81	22.43	22.43				
16	QPSK	1	74	22.36	22.86	22.46	22.46	23	1		
16	QPSK	36	0	21.61	21.69	21.61	21.61				
16	QPSK	36	20	21.43	21.69	21.45	21.45	23	1		
16	QPSK	75	0	21.62	21.77	21.65	21.65				
16	HQAM	1	0	21.34	22.05	21.94	21.94	23	1		
16	HQAM	1	37	21.51	21.59	21.59	21.59				
16	HQAM	1	74	21.59	21.58	21.84	21.84	22	2		
16	HQAM	36	0	20.58	20.71	20.46	20.46				
16	HQAM	36	20	20.53	20.56	20.40	20.40	22	2		
16	HQAM	36	36	20.37	20.52	20.40	20.40				
16	HQAM	75	0	20.57	20.56	20.50	20.50	22	2		
16	HQAM	75	0	20.50	20.56	20.50	20.50				
16	HQAM	1	37	20.59	20.54	20.81	20.81	22	2		
16	HQAM	1	74	20.51	20.84	20.81	20.81				
16	HQAM	36	0	19.54	19.59	19.53	19.53	21	3		
16	HQAM	36	20	19.50	19.54	19.41	19.41				
16	HQAM	75	0	19.54	19.57	19.44	19.44	19	5		
16	25QAM	1	0	17.69	17.62	17.83	17.83				
16	25QAM	1	37	17.72	17.76	17.77	17.77	19	5		
16	25QAM	1	74	17.72	17.76	17.77	17.77				
16	25QAM	36	0	17.55	17.51	17.52	17.52	19	5		
16	25QAM	36	20	17.14	17.54	17.36	17.36				
16	25QAM	36	36	17.49	17.52	17.37	17.37	19	5		
16	25QAM	75	0	17.56	17.52	17.50	17.50				
Channel											
Frequency (MHz)											
10	QPSK	1	0	22.71	22.66	22.71	22.71	24	0		
10	QPSK	1	25	22.59	22.61	22.42	22.42				
10	QPSK	1	48	22.38	22.60	22.47	22.47	23	1		
10	QPSK	25	0	21.69	21.74	21.68	21.68				
10	QPSK	25	12	21.52	21.66	21.43	21.43	23	1		
10	QPSK	25	25	21.60	21.58	21.56	21.56				
10	HQAM	1	0	21.82	22.06	21.87	21.87	23	1		
10	HQAM	1	25	21.93	21.83	21.88	21.88				
10	HQAM	1	48	21.87	21.82	21.84	21.84	22	2		
10	HQAM	25	0	20.51	20.67	20.50	20.50				
10	HQAM	25	0	20.50	20.52	20.46	20.46	22	2		
10	HQAM	50	0	20.56	20.58	20.43	20.43				
10	HQAM	50	0	20.52	20.54	20.44	20.44	22	2		
10	HQAM	100	0	20.72	20.54	20.80	20.80				
10	HQAM	1	48	20.72	20.79	20.76	20.76	22	2		
10	HQAM	25	0	19.56	19.63	19.52	19.52				
10	HQAM	25	12	19.46	19.45	19.40	19.40	21	3		
10	HQAM	25	25	19.47	19.49	19.45	19.45				
10	HQAM	50	0	19.56	19.51	19.39	19.39	21	3		
10	25QAM	1	0	17.66	17.79	17.76	17.76				
10	25QAM	1	25	17.75	17.76	17.75	17.75	19	5		
10	25QAM	25	0	17.48	17.54	17.28	17.28				
10	25QAM	25	12	17.46	17.54	17.28	17.28	19	5		
10	25QAM	25	25	17.48	17.56	17.32	17.32				
10	25QAM	50	0	17.61	17.63	17.42	17.42	19	5		
10	25QAM	50	0	17.62	17.63	17.45	17.45				
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.54	22.73	22.62	22.62	24	0		
5	QPSK	1	12	22.50	22.58	22.53	22.53				
5	QPSK	1	24	22.34	22.59	22.39	22.39	23	1		
5	QPSK	12	0	21.68	21.68	21.71	21.71				
5	QPSK	12	7	21.52	21.66	21.43	21.43	23	1		
5	QPSK	12	13	21.56	21.61	21.55	21.55				
5	HQAM	1	0	21.82	21.87	21.91	21.91	23	1		
5	HQAM	1	12	21.88	21.88	21.83	21.83				
5	HQAM	1	24	21.85	22.01	21.82	21.82	23	1		
5	HQAM	12	0	20.60	20.76	20.54	20.54				
5	HQAM	12	7	20.46	20.57	20.50	20.50	22	2		
5	HQAM	12	13	20.45	20.48	20.47	20.47				
5	HQAM	25	0	20.55	20.58	20.46	20.46	22	2		
5	HQAM	25	0	20.76	20.85	20.79	20.79				
5	HQAM	12	0	20.69	20.82	20.86	20.86	22	2		
5	HQAM	1	24	20.67	20.82	20.87	20.87				
5	HQAM	12	0	19.56	19.53	19.43	19.43	19	5		
5	HQAM	12	7	19.45	19.56	19.45	19.45				
5	HQAM	12	13	19.49	19.54	19.45	19.45	19	5		
5	HQAM	25	0	19.57	19.67	19.47	19.47				
5	25QAM	1	0	17.67	17.74	17.85	17.85	19	5		
5	25QAM	1	12	17.76	17.77	17.89	17.89				
5	25QAM	1	24	17.73	17.76	17.81	17.81	19	5		
5	25QAM	12	0	17.36	17.36	17.47	17.47				
5	25QAM	12	7	17.48	17.56	17.35	17.35	19	5		
5	25QAM	12	13	17.51	17.53	17.37	17.37				
5	25QAM	25	0	17.52	17.55	17.51	17.51	19	5		
5	25QAM	25	0	17.52	17.55	17.51	17.51				

Band 41 Ant 10											
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.34	23.29	23.21	23.24	23.14	23.14	24	0
20	QPSK	1	48	23.16	23.14	23.05	23.13	23.06			
20	QPSK	50	0	23.17	23.02	22.97	23.04	23.00	23.00	23	1
20	QPSK	50	24	22.36	22.09	22.61	22.14	22.07			
20	QPSK	50	48	22.13	22.05	22.02	22.08	22.08			
20	QPSK	100	0	22.34	22.21	22.15	22.23	22.13			
20	16QAM	1	0	22.81	22.50	22.40	22.48	22.46			
20	16QAM	1	48	22.64	22.42	22.33	22.41	22.36			
20	16QAM	1	96	22.03	22.46	22.35	22.46	22.38			
20	16QAM	50	0	22.25	22.13	21.13	21.20	21.20			
20	16QAM	50	24	21.52	21.13	20.13	20.20	20.20			
20	16QAM	50	48	21.14	21.08	20.89	20.99	21.03			
20	16QAM	100	0	21.12	21.13	21.01	21.08	21.01			
20	16QAM	100	0	21.32	21.02	21.42	21.42	21.44			
20	64QAM	1	48	21.47	21.40	21.30	21.40	21.31			
20	64QAM	1	96	21.38	21.31	21.21	21.31	21.22			
20	64QAM	50	0	20.33	20.08	20.09	20.08	20.07			
20	64QAM	50	24	20.12	20.04	19.95	19.99	19.98			
20	64QAM	50	48	20.13	20.03	19.97	19.97	19.98			
20	64QAM	100	0	20.14	20.02	19.97	20.00	19.99			
20	256QAM	1	0	18.42	18.40	18.21	18.31	18.27			
20	256QAM	1	48	18.23	18.26	18.21	18.21	18.20			
20	256QAM	1	96	18.31	18.37	18.28	18.23	18.25			
20	256QAM	50	0	18.29	18.06	18.06	18.06	18.06			
20	256QAM	50	24	18.14	17.91	18.01	17.95	17.95			
20	256QAM	50	48	18.11	17.99	17.97	18.04	17.97			
Channel											
Frequency (MHz)											
15	QPSK	1	0	23.38	23.27	23.14	23.17	23.01	23.01	24	0
15	QPSK	1	37	23.03	23.09	23.01	23.01	22.88	22.84		
15	QPSK	1	74	23.12	22.97	22.86	22.96	22.86	22.86		
15	QPSK	50	0	22.28	22.28	22.21	22.27	22.17	22.17		
15	QPSK	50	24	22.15	22.03	21.89	22.03	22.03			
15	QPSK	50	48	22.03	21.97	21.89	21.97	21.89			
15	QPSK	75	0	22.22	22.07	22.08	22.20	22.00			
15	16QAM	1	0	22.58	22.44	22.32	22.44	22.42			
15	16QAM	1	37	22.51	22.37	22.28	22.37	22.28			
15	16QAM	1	74	22.58	22.36	22.22	22.42	22.27			
15	16QAM	50	0	21.23	21.09	20.99	21.16	20.90			
15	16QAM	50	24	21.13	21.08	20.90	21.06	20.92			
15	16QAM	50	48	21.03	20.97	20.80	20.92	20.91			
15	16QAM	75	0	21.27	21.01	21.02	21.02	21.02			
15	64QAM	1	0	21.47	21.31	21.31	21.31	21.38			
15	64QAM	1	37	21.38	21.27	21.06	21.37	21.21			
15	64QAM	1	74	21.35	21.21	21.06	21.31	21.20			
15	64QAM	50	0	20.20	20.04	19.99	20.00	20.01			
15	64QAM	50	24	20.06	19.92	19.83	19.91	19.86			
15	64QAM	50	48	20.11	19.94	19.87	19.91	19.87			
15	64QAM	75	0	20.02	19.88	19.97	20.00	19.81			
15	256QAM	1	0	18.24	18.24	18.11	18.22	18.05			
15	256QAM	1	37	18.24	18.24	18.11	18.22	18.05			
15	256QAM	1	74	18.28	18.30	18.24	18.15	18.15			
15	256QAM	50	0	18.02	17.85	17.85	17.85	17.85			
15	256QAM	50	24	18.07	17.81	17.90	17.91	17.79			
15	256QAM	50	48	18.00	17.93	17.89	17.94	17.87			
15	256QAM	75	0	18.02	17.81	17.89	17.89	17.80			
Channel											
Frequency (MHz)											
10	QPSK	1	0	23.30	23.22	23.13	23.16	23.04	23.04	24	0
10	QPSK	1	25	23.10	23.10	23.05	23.11	22.93			
10	QPSK	50	0	22.57	22.57	22.48	22.57	22.47			
10	QPSK	25	0	22.30	22.19	22.03	22.11	21.44			
10	QPSK	25	12	22.12	22.00	21.82	22.04	21.86			
10	QPSK	25	24	22.04	21.92	21.75	21.97	21.83			
10	QPSK	50	0	22.28	22.08	22.11	22.16	22.02			
10	16QAM	1	0	22.53	22.40	22.37	22.41	22.36			
10	16QAM	1	25	22.49	22.38	22.31	22.41	22.29			
10	16QAM	1	49	22.05	22.41	22.30	22.44	22.29			
10	16QAM	25	0	21.20	21.02	20.99	21.16	20.92			
10	16QAM	25	12	21.11	21.05	20.86	21.08	20.86			
10	16QAM	25	24	21.03	21.05	20.76	20.98	20.92			
10	64QAM	1	0	21.54	21.04	21.01	21.01	21.02			
10	64QAM	1	0	21.43	21.31	21.28	21.35	21.21			
10	64QAM	1	25	21.35	21.26	21.07	21.31	21.21			
10	64QAM	1	49	21.24	21.49	21.41	21.21	21.24			
10	64QAM	25	0	20.19	20.04	20.03	19.95	20.02			
10	64QAM	25	12	20.06	19.94	19.87	19.99	19.84			
10	64QAM	25	24	20.08	19.97	19.80	19.91	19.78			
10	64QAM	50	0	20.10	19.88	19.83	20.00	19.81			
10	256QAM	1	0	18.20	18.19	18.06	18.17	18.03			
10	256QAM	1	25	18.20	18.22	18.08	18.15	18.11			
10	256QAM	1	49	18.18	18.24	18.20	18.13	18.22			
10	256QAM	25	0	18.04	18.02	17.88	17.95	17.88			
10	256QAM	25	12	18.04	17.87	17.93	17.86	17.82			
10	256QAM	25	24	17.98	17.88	17.84	17.96	17.87			
10	256QAM	50	0	18.05	18.04	17.86	17.93	17.86			
Channel											
Frequency (MHz)											
5	QPSK	1	0	23.30	23.20	23.08	23.11	23.04	23.04	24	0
5	QPSK	1	12	23.02	23.03	22.97	23.03	22.85	22.84		
5	QPSK	12	0	22.14	22.14	22.06	22.12	21.94			
5	QPSK	12	7	22.38	22.24	22.07	22.12	22.14			
5	QPSK	12	7	22.17	21.98	21.89	22.07	21.88			
5	QPSK	25	0	22.32	22.07	22.04	22.12	22.06			
5	16QAM	1	0	22.59	22.59	22.48	22.54	22.41			
5	16QAM	1	12	22.58	22.48	22.31	22.48	22.30			
5	16QAM	1	24	22.07	22.33	22.24	22.43	22.26			
5	16QAM	12	0	21.17	21.07	20.85	21.07	20.87			
5	16QAM	12	7	21.13	21.07	20.85	21.07	20.81			
5	16QAM	12	13	21.03	20.95	20.85	20.90	20.80			
5	64QAM	1	0	21.03	21.02	20.92	21.00	20.86			
5	64QAM	1	0	21.46	21.37	21.30	21.37	21.36			
5	64QAM	1	12	21.41	21.32	21.16	21.30	21.28			
5	64QAM	1	24	21.30	21.49	21.41	21.21	21.30			
5	64QAM	12	0	20.20	19.98	20.05	20.02	19.96			
5	64QAM	12	7	20.09	19.93	19.99	19.91	19.76			
5	64QAM	12	13	20.07	19.90	20.01	19.98	19.77			
5	64QAM	25	0	20.04	19.93	19.85	19.99	19.85			
5	256QAM	1	0	18.27	18.26	18.12	18.20	18.16			
5	256QAM	12	7	18.08	17.84	17.98	17.87	17.83			
5	256QAM	12	13	18.02	17.86	17.85	17.85	17.85			
5	256QAM	25	0	18.02	17.87	17.85	17.87	17.81			



Band 2 Ant 0															
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 18970	Power Mid Ch. Freq. 19000	Power High Ch. Freq. 19030	Turn-up Time (sec)	MPR (dB)							
Channel															
Frequency (MHz)															
20	QPSK	1	0	18.13	18.27	18.26	19.1	0							
20	QPSK	1	49	18.25	18.19	18.15		0							
20	QPSK	1	99	18.19	18.22	18.18		0							
20	QPSK	50	0	18.13	18.20	18.12	19.1	0							
20	QPSK	50	24	18.15	18.03	18.14		0							
20	QPSK	50	50	18.16	18.09	18.13		0							
20	QPSK	100	0	17.84	17.97	17.89	19.1	0							
20	QPSK	1	0	17.84	17.86	17.89		0							
20	16QAM	1	49	18.12	18.02	17.99		0							
20	16QAM	50	0	17.92	17.86	17.80	19.1	0							
20	16QAM	50	24	17.97	17.73	17.68		0							
20	16QAM	50	50	17.92	17.79	17.86		0							
20	16QAM	100	0	17.83	17.69	17.94	19.1	0							
20	16QAM	1	0	17.83	17.67	17.85		0							
20	16QAM	1	49	17.80	17.63	17.65		0							
20	256QAM	1	49	17.53	17.67	17.56	19	0.1							
20	256QAM	1	99	17.58	17.62	17.62		0							
20	256QAM	50	0	17.60	17.63	17.69		0							
20	256QAM	50	24	17.50	17.53	17.56	19	0.1							
20	256QAM	50	50	17.60	17.62	17.54		0							
20	256QAM	100	0	17.52	17.61	17.64		0							
Channel															
18970 18990 19030 Turn-up Time (sec)															
MPR (dB)															
15	QPSK	1	0	18.07	18.21	18.20	19.1	0							
15	QPSK	1	37	18.10	18.03	18.03		0							
15	QPSK	1	74	18.08	18.14	18.20		0							
15	QPSK	50	0	17.87	18.11	18.03	19.1	0							
15	QPSK	36	20	18.09	17.65	17.99		0							
15	QPSK	36	39	18.09	17.68	18.02		0							
15	QPSK	100	0	17.79	18.02	17.83	19.1	0							
15	16QAM	1	0	17.92	17.84	17.89		0							
15	16QAM	1	37	18.05	17.83	17.85		0							
15	16QAM	50	0	17.71	17.82	17.73	19.1	0							
15	16QAM	50	0	17.86	17.69	17.85		0							
15	16QAM	36	20	17.78	17.60	17.77		0							
15	16QAM	36	39	17.78	17.62	17.87	19.1	0							
15	16QAM	75	0	17.68	17.72	17.77		0							
15	16QAM	75	0	17.88	17.62	17.89		0							
15	8QAM	1	74	17.91	17.69	17.82	19.1	0							
15	8QAM	36	20	17.73	17.61	17.87		0							
15	8QAM	36	39	17.74	17.61	17.87		0							
15	8QAM	75	0	17.71	17.62	17.68	19.1	0							
15	8QAM	75	0	17.94	17.62	17.68		0							
15	256QAM	1	37	17.50	17.62	17.48		19	0.1						
15	256QAM	1	99	17.50	17.60	17.52	0								
15	256QAM	50	0	17.57	17.58	17.55	0								
15	256QAM	36	20	17.37	17.51	17.42	19	0.1							
15	256QAM	36	39	17.36	17.50	17.42		0							
15	256QAM	75	0	17.47	17.57	17.49		0							
Channel															
18970 18990 19030 Turn-up Time (sec)															
MPR (dB)															
10	QPSK	1	0	18.04	18.26	18.15	19.1	0							
10	QPSK	1	25	18.14	18.13	18.10		0							
10	QPSK	1	49	18.10	18.13	18.20		0							
10	QPSK	50	0	17.88	18.09	17.97	19.1	0							
10	QPSK	25	12	18.11	17.67	18.09		0							
10	QPSK	25	26	18.11	17.84	18.00		0							
10	QPSK	100	0	17.73	17.82	17.78	19.1	0							
10	16QAM	1	0	17.92	17.86	17.94		0							
10	16QAM	1	25	18.01	17.82	17.91		0							
10	16QAM	50	0	17.69	17.84	17.73	19.1	0							
10	16QAM	25	0	17.81	17.62	17.81		0							
10	16QAM	25	12	17.89	17.66	17.73		0							
10	16QAM	50	0	17.79	17.63	17.73	19.1	0							
10	16QAM	50	0	17.85	17.63	17.62		0							
10	16QAM	50	0	17.70	17.63	17.73		0							
10	8QAM	1	25	17.82	17.68	17.82	19.1	0							
10	8QAM	1	49	17.89	17.69	17.77		0							
10	8QAM	25	12	17.84	17.62	17.75		0							
10	8QAM	25	12	17.93	17.68	17.65	19.1	0							
10	8QAM	25	25	17.77	17.68	17.78		0							
10	8QAM	50	0	17.69	17.62	17.68		0							
10	256QAM	1	0	17.52	17.52	17.51	19	0.1							
10	256QAM	1	25	17.42	17.48	17.53		0							
10	256QAM	25	0	17.55	17.49	17.48		0							
10	256QAM	25	12	17.40	17.41	17.44	19	0.1							
10	256QAM	25	12	17.38	17.34	17.41		0							
10	256QAM	50	0	17.45	17.44	17.44		0							
Channel															
18970 18990 19030 Turn-up Time (sec)															
MPR (dB)															
5	QPSK	1	0	18.08	18.09	18.11	19.1	0							
5	QPSK	1	12	18.17	18.04	18.06		0							
5	QPSK	1	24	18.13	18.16	18.21		0							
5	QPSK	12	0	17.86	18.01	17.97	19.1	0							
5	QPSK	12	7	18.11	17.63	18.03		0							
5	QPSK	12	13	18.14	17.64	17.94		0							
5	QPSK	25	0	17.68	17.69	17.74	19.1	0							
5	16QAM	1	0	17.94	17.84	17.85		0							
5	16QAM	1	12	17.99	17.80	17.82		0							
5	16QAM	1	24	17.86	17.69	17.73	19.1	0							
5	16QAM	12	0	17.84	17.66	17.85		0							
5	16QAM	12	7	17.78	17.70	17.79		0							
5	16QAM	12	13	17.84	17.69	17.88	19.1	0							
5	16QAM	25	0	17.71	17.60	17.78		0							
5	16QAM	25	0	17.83	17.76	17.86		0							
5	8QAM	1	12	17.79	17.60	17.88	19.1	0							
5	8QAM	1	24	17.84	17.62	17.81		0							
5	8QAM	12	0	17.68	17.65	17.80		0							
5	8QAM	12	7	17.80	17.63	17.68	19.1	0							
5	8QAM	12	13	17.84	17.69	17.88		0							
5	8QAM	25	0	17.71	17.60	17.78		0							
5	8QAM	25	0	17.83	17.76	17.86	0								
5	256QAM	1	12	17.50	17.63	17.49	19.1	0							
5	256QAM	1	13	17.79	17.72	17.63		0							
5	256QAM	1	17	17.87	17.76	17.65		0							
5	256QAM	1	0	17.60	17.58	17.54	19.1	0							
5	256QAM	1	24	17.74	17.59	17.53		0							
5	256QAM	1	24	17.65	17.51	17.49		0							
5	256QAM	12	0	17.52	17.55	17.56	19.1	0							
5	256QAM	12	7	17.40	17.41	17.44		0							
5	256QAM	12	13	17.39	17.38	17.44		0							
5	256QAM	25	0	17.47	17.51	17.48	19	0.1							
Channel															
18970 18990 19030 Turn-up Time (sec)															
MPR (dB)															
3	QPSK	1	0	18.02	18.21	18.11		19.1	0						
3	QPSK	1	8	18.21	18.08	18.04			0						
3	QPSK	1	16	18.18	18.09	18.09	0								
3	QPSK	8	0	17.86	18.03	17.93	19.1	0							
3	QPSK	8	8	18.07	17.78	17.85		0							
3	QPSK	8	16	18.07	17.87	18.03		0							
3	QPSK	16	0	17.74	18.03	17.76	19.1	0							
3	QPSK	8	8	17.95	17.69	17.83		0							
3	QPSK	8	16	17.95	17.67	17.81		0							
3	16QAM	1	14	17.89	17.65	17.69	19.1	0							
3	16QAM	8	0	17.86	17.61	17.67		0							
3	16QAM	8	8	17.87	17.72	17.76		0							
3	16QAM	8	16	17.88	17.69	17.81	19.1	0							
3	16QAM	8	8	17.85	17.78	17.84		0							
3	16QAM	8	16	17.85	17.67	17.81		0							
3	8QAM	1	14	17.73	17.70	17.85	19.1	0							
3	8QAM	8	0	17.87	17.67	17.71		0							
3	8QAM	8	8	17.86	17.66	17.76		0							
3	8QAM	16	0	17.70	17.63	17.81	19.1	0							
3	8QAM	16	0	17.76	17.64	17.74		0							
3	8QAM	16	8	17.76	17.68	17.78		0							
3	256QAM	1	0	17.58	17.54	17.54	19	0.1							
3	256QAM	1	16	17.49	17.49	17.50		0							
3	256QAM	1	14	17.57	17.49	17.59		0							
3	256QAM	8	0	17.59	17.50	17.51	19.1	0							
3	256QAM	8	8	17.58	17.51	17.55		0							
3	256QAM	8	16	17.58	17.50	17.55		0							
3	256QAM	16	0	17.50	17.51	17.52	19	0.1							
3	256QAM	16	8	17.49	17.49	17.50		0							
3	256QAM	16	14	17.49	17.49	17.53		0							
3	256QAM	1	0	17.52	17.54	17.44		0							
3	256QAM	1	16	17.43	17.43	17.48		0							
3	256QAM	1	14	17.46	17.46	17.48		0							



Band 38 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37965	38050	38165			
				23.75	23.75	23.75			
20	QPSK	1	0	18.55	18.53	18.52	20.1	0	
20	QPSK	1	49	18.60	18.63	18.67			
20	QPSK	50	0	18.62	18.73	18.86			
20	QPSK	50	24	18.58	18.61	18.60			
20	QPSK	50	49	18.38	18.39	18.40	20.1	0	
20	QPSK	100	0	18.35	18.47	18.33			
20	HQAM	1	0	18.46	18.53	18.43			
20	HQAM	1	99	18.29	18.39	18.31			
20	HQAM	50	24	18.26	18.35	18.34	20.1	0	
20	HQAM	50	49	18.27	18.38	18.29			
20	HQAM	100	0	18.23	18.20	18.36			
20	HQAM	100	0	18.38	18.31	18.14			
20	HQAM	1	49	18.40	18.39	18.42	20.1	0	
20	HQAM	50	0	18.21	18.19	18.32			
20	HQAM	50	24	18.40	18.31	18.25			
20	HQAM	50	50	18.25	18.22	18.29			
20	HQAM	100	0	18.25	18.16	18.36	20.1	0	
20	256QAM	1	0	17.52	17.60	17.53			
20	256QAM	1	49	17.48	17.56	17.46			
20	256QAM	1	99	17.51	17.56	17.55			
20	256QAM	50	0	17.47	17.58	17.49	19	1.1	
20	256QAM	50	24	17.25	17.26	17.17			
20	256QAM	50	50	17.30	17.28	17.24			
20	256QAM	100	0	17.24	17.28	17.28			
Channel									
Frequency (MHz)				37925	38050	38175	Turn-up time (dBm)	MPR (dB)	
				23.75	23.75	23.75			
15	QPSK	1	0	18.48	18.52	18.52	20.1	0	
15	QPSK	1	37	18.80	18.49	18.46			
15	QPSK	1	74	18.49	18.60	18.67			
15	QPSK	36	0	18.38	18.63	18.61			
15	QPSK	36	20	18.42	18.46	18.53	20.1	0	
15	QPSK	36	36	18.39	18.53	18.43			
15	QPSK	75	0	18.29	18.33	18.18			
15	HQAM	1	0	18.34	18.44	18.30			
15	HQAM	1	37	18.52	18.31	18.27	20.1	0	
15	HQAM	1	74	18.30	18.42	18.22			
15	HQAM	36	0	18.39	18.16	18.22			
15	HQAM	36	20	18.24	18.27	18.29			
15	HQAM	75	0	18.13	18.15	18.24	20.1	0	
15	HQAM	75	0	18.27	18.22	18.11			
15	HQAM	1	37	18.31	18.14	18.37			
15	HQAM	36	20	18.26	18.15	18.18			
15	HQAM	36	0	18.12	18.15	18.20	20.1	0	
15	HQAM	36	20	18.26	18.27	18.19			
15	HQAM	75	0	18.15	18.14	18.21			
15	HQAM	75	0	18.15	18.14	18.21			
15	256QAM	1	0	17.60	17.62	17.43	19	1.1	
15	256QAM	1	37	17.58	17.57	17.46			
15	256QAM	1	74	17.42	17.46	17.43			
15	256QAM	36	0	17.15	17.33	17.18			
15	256QAM	36	20	17.17	17.17	17.09	19	1.1	
15	256QAM	36	36	17.25	17.13	17.20			
15	256QAM	75	0	17.26	17.21	17.19			
15	256QAM	75	0	17.26	17.21	17.19			
Channel									
Frequency (MHz)				37965	38050	38050	Turn-up time (dBm)	MPR (dB)	
				23.75	23.75	23.75			
10	QPSK	1	0	18.45	18.47	18.57	20.1	0	
10	QPSK	1	25	18.52	18.46	18.50			
10	QPSK	1	49	18.51	18.65	18.67			
10	QPSK	25	0	18.34	18.62	18.61			
10	QPSK	25	12	18.41	18.39	18.50	20.1	0	
10	QPSK	25	25	18.51	18.43	18.41			
10	QPSK	50	0	18.38	18.39	18.32			
10	HQAM	1	0	18.38	18.39	18.32			
10	HQAM	1	25	18.24	18.26	18.38	20.1	0	
10	HQAM	1	49	18.15	18.48	18.24			
10	HQAM	25	0	18.29	18.15	18.21			
10	HQAM	25	12	18.25	18.23	18.23			
10	HQAM	50	0	18.13	18.11	18.22	20.1	0	
10	HQAM	50	0	18.28	18.25	18.15			
10	HQAM	25	25	18.26	18.23	18.13			
10	HQAM	25	0	18.34	18.10	18.31			
10	HQAM	1	49	18.35	18.17	18.22	20.1	0	
10	HQAM	25	0	18.17	18.14	18.18			
10	HQAM	25	12	18.25	18.16	18.18			
10	HQAM	25	25	18.40	18.46	18.12			
10	HQAM	50	0	18.13	18.36	18.15	20.1	0	
10	HQAM	50	0	18.19	18.25	18.16			
10	HQAM	1	25	18.24	18.39	18.28			
10	HQAM	1	49	18.23	18.38	18.17			
10	HQAM	25	12	18.20	18.31	18.17	20.1	0	
10	HQAM	25	25	18.40	18.12	18.20			
10	HQAM	50	0	18.15	18.15	18.24			
10	HQAM	50	0	17.98	17.98	18.02			
10	256QAM	1	0	18.06	17.94	18.01	19	1.1	
10	256QAM	1	25	18.06	18.04	18.13			
10	256QAM	25	0	17.85	17.74	17.79			
10	256QAM	25	12	17.72	17.66	17.76			
10	256QAM	25	25	17.72	17.64	17.74	19	1.1	
10	256QAM	50	0	17.88	17.71	17.82			
10	256QAM	50	0	17.88	17.71	17.82			
Channel									
Frequency (MHz)				37975	38050	38225	Turn-up time (dBm)	MPR (dB)	
				23.75	23.75	23.75			
5	QPSK	1	0	18.37	18.55	18.54	20	0	
5	QPSK	1	12	18.53	18.60	18.57			
5	QPSK	1	24	18.46	18.63	18.67			
5	QPSK	12	0	18.30	18.42	18.60			
5	QPSK	12	7	18.44	18.38	18.45	20.1	0	
5	QPSK	12	13	18.41	18.37	18.50			
5	QPSK	25	0	18.10	18.21	18.16			
5	HQAM	1	0	18.20	18.42	18.34			
5	HQAM	1	12	18.39	18.37	18.32	20.1	0	
5	HQAM	1	24	18.41	18.40	18.22			
5	HQAM	12	0	18.23	18.37	18.35			
5	HQAM	12	7	18.10	18.39	18.13			
5	HQAM	12	13	18.28	18.23	18.30	20.1	0	
5	HQAM	25	0	18.47	18.40	18.17			
5	HQAM	25	0	18.23	18.30	18.12			
5	HQAM	25	7	18.17	18.25	18.16			
5	HQAM	1	24	18.18	18.33	18.16	20.1	0	
5	HQAM	12	0	18.43	18.15	18.20			
5	HQAM	12	7	18.17	18.25	18.16			
5	HQAM	12	13	18.45	18.16	18.22			
5	HQAM	25	0	18.15	18.25	18.17	19	1.1	
5	HQAM	25	0	18.04	18.03	18.01			
5	256QAM	1	12	18.01	18.03	18.06			
5	256QAM	1	24	17.94	18.07	18.03			
5	256QAM	12	0	17.86	17.78	17.79	19	1.1	
5	256QAM	12	7	17.72	17.61	17.73			
5	256QAM	12	13	17.78	17.72	17.72			
5	256QAM	25	0	17.85	17.79	17.85			

Band 41 Ant 0												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch [Ch / Freq]	Power High Ch [Ch / Freq]	Power Low Ch [Ch / Freq]	Power High Ch [Ch / Freq]	Turn-up time (dBm)	MPR (dB)			
Channel												
Frequency (MHz)				39790	40185	40620	41055	41490				
20	QPSK	1	0	18.47	18.50	18.62	18.73	18.60	20.1	0		
20	QPSK	1	49	18.59	18.71	18.50	18.65	18.59				
20	QPSK	50	0	18.59	18.67	18.64	18.69	18.49				
20	QPSK	50	0	18.38	18.46	18.65	18.69	18.53				
20	QPSK	50	24	18.54	18.57	18.63	18.61	18.51	20.1	0		
20	QPSK	50	0	18.38	18.46	18.65	18.69	18.53				
20	QPSK	100	0	18.15	18.31	18.28	18.32	18.30				
20	16QAM	1	0	18.29	18.47	18.48	18.42	18.28				
20	16QAM	1	49	18.45	18.45	18.45	18.45	18.28	20.1	0		
20	16QAM	1	96	18.10	18.25	18.35	18.60	18.28				
20	16QAM	50	0	18.30	18.43	18.42	18.24	18.31				
20	16QAM	50	0	18.22	18.35	18.29	18.30	18.28				
20	16QAM	50	50	18.32	18.38	18.30	18.42	18.28	20.1	0		
20	16QAM	100	0	18.41	18.20	18.28	18.16	18.15				
20	16QAM	100	0	18.29	18.41	18.29	18.37	18.47				
20	16QAM	1	49	18.35	18.43	18.44	18.24	18.26				
20	16QAM	50	0	18.35	18.43	18.35	18.33	18.16	20.1	0		
20	16QAM	50	0	18.43	18.24	18.30	18.17	18.15				
20	16QAM	50	24	18.30	18.44	18.29	18.37	18.28				
20	16QAM	100	0	18.21	18.29	18.31	18.16	18.26				
20	256QAM	1	0	18.11	18.12	18.10	18.13	18.26	19.1	1		
20	256QAM	1	49	18.55	18.56	18.55	18.51	18.58				
20	256QAM	1	96	18.05	18.15	18.16	18.12	19.14				
20	256QAM	50	0	18.11	18.12	18.10	18.07	17.81				
20	256QAM	50	24	17.85	17.70	17.79	17.83	17.71	19.1	1		
20	256QAM	50	50	18.07	17.77	17.88	17.82	17.77				
20	256QAM	100	0	17.82	17.77	17.82	17.86	17.88				
Channel				39790	40173	40620	41060	41455			Turn-up time (dBm)	MPR (dB)
Frequency (MHz)				39790	39743	39793	39747	39793				
15	QPSK	1	0	18.47	18.49	18.47	18.47	18.47	20	0		
15	QPSK	1	37	18.55	18.61	18.43	18.58	18.43				
15	QPSK	1	74	18.40	18.52	18.50	18.60	18.36				
15	QPSK	36	0	18.51	18.31	18.51	18.63	18.46				
15	QPSK	36	20	18.41	18.51	18.38	18.39	18.44	20.1	0		
15	QPSK	36	50	18.53	18.46	18.53	18.31	18.36				
15	QPSK	75	0	18.46	18.19	18.22	18.47	18.18				
15	QPSK	75	37	18.25	18.41	18.35	18.36	18.17				
15	16QAM	1	0	18.34	18.34	18.35	18.35	18.27	20.1	0		
15	16QAM	1	74	18.40	18.12	18.27	18.47	18.13				
15	16QAM	36	0	18.22	18.32	18.26	18.16	18.15				
15	16QAM	36	50	18.11	18.11	18.13	18.38	18.38				
15	16QAM	36	36	18.21	18.33	18.20	18.35	18.23	20.1	0		
15	16QAM	75	0	18.35	18.33	18.34	18.32	18.33				
15	16QAM	75	37	18.26	18.33	18.35	18.38	18.20				
15	16QAM	75	74	18.29	18.29	18.29	18.29	18.29				
15	16QAM	36	0	18.38	18.11	18.17	18.47	18.46	20.1	0		
15	16QAM	36	20	18.16	18.29	18.15	18.31	18.44				
15	16QAM	36	50	18.27	18.47	18.25	18.35	18.35				
15	16QAM	75	0	18.43	18.17	18.22	18.42	18.21				
15	256QAM	1	0	18.02	17.99	18.03	17.99	18.10	19.1	1		
15	256QAM	1	49	17.95	17.97	18.01	17.95	17.94				
15	256QAM	1	74	17.86	18.06	18.04	18.06	18.01				
15	256QAM	50	0	17.77	17.77	17.77	17.77	17.74				
15	256QAM	36	20	18.00	17.52	17.74	17.70	17.51	19.1	1		
15	256QAM	36	50	17.79	17.73	17.77	17.85	17.86				
15	256QAM	100	0	17.72	17.82	17.82	17.86	17.88				
Channel				39790	40160	40620	41060	41460			Turn-up time (dBm)	MPR (dB)
Frequency (MHz)				39790	39743	39793	39747	39793				
15	QPSK	1	0	18.40	18.53	18.49	18.59	18.70	20	0		
15	QPSK	1	49	18.46	18.53	18.48	18.61	18.31				
15	QPSK	1	96	18.34	18.40	18.51	18.60	18.36				
15	QPSK	25	12	18.45	18.51	18.45	18.39	18.46				
15	QPSK	25	12	18.40	18.48	18.48	18.41	18.35	20.1	0		
15	QPSK	50	0	18.46	18.23	18.13	18.48	18.24				
15	16QAM	1	0	18.20	18.34	18.35	18.27	18.23				
15	16QAM	1	25	18.40	18.24	18.25	18.27	18.28				
15	16QAM	1	49	18.48	18.14	18.28	18.47	18.19	20.1	0		
15	16QAM	25	0	18.17	18.34	18.37	18.38	18.25				
15	16QAM	25	12	18.40	18.19	18.20	18.19	18.27				
15	16QAM	25	19	18.29	18.26	18.16	18.26	18.23				
15	16QAM	50	0	18.36	18.36	18.36	18.36	18.36	20.1	0		
15	16QAM	50	0	18.15	18.27	18.14	18.30	18.42				
15	16QAM	1	25	18.24	18.39	18.28	18.11	18.35				
15	16QAM	25	12	18.42	18.23	18.18	18.37	18.15				
15	16QAM	25	0	18.48	18.17	18.22	18.10	18.40	20.1	0		
15	16QAM	25	12	18.20	18.31	18.17	18.24	18.48				
15	16QAM	25	19	18.40	18.12	18.20	18.10	18.15				
15	16QAM	50	0	18.15	18.15	18.24	18.36	18.16				
15	256QAM	1	0	17.86	17.86	17.86	17.81	17.82	19.1	1		
15	256QAM	1	49	18.01	18.04	18.03	17.98	18.04				
15	256QAM	1	96	17.85	17.85	17.85	17.85	17.85				
15	256QAM	25	12	17.72	17.56	17.65	17.72	17.62				
15	256QAM	25	12	17.72	17.66	17.74	17.86	17.75	19.1	1		
15	256QAM	25	17	17.85	17.68	17.74	17.86	17.75				
Channel				39675	40166	40620	41060	41665			Turn-up time (dBm)	MPR (dB)
Frequency (MHz)				24613	24613	24613	24613	24613				
5	QPSK	1	12	18.43	18.60	18.43	18.51	18.48	20	0		
5	QPSK	1	24	18.40	18.60	18.60	18.60	18.48				
5	QPSK	12	5	18.38	18.42	18.60	18.60	18.43				
5	QPSK	12	7	18.43	18.48	18.46	18.45	18.39				
5	QPSK	12	13	18.41	18.41	18.41	18.41	18.41	20.1	0		
5	QPSK	25	0	18.10	18.21	18.16	18.45	18.24				
5	16QAM	1	0	18.20	18.42	18.34	18.30	18.20				
5	16QAM	1	12	18.39	18.37	18.33	18.33	18.17				
5	16QAM	1	24	18.41	18.45	18.22	18.54	18.22	20.1	0		
5	16QAM	12	0	18.23	18.37	18.35	18.19	18.22				
5	16QAM	12	13	18.40	18.19	18.19	18.19	18.42				
5	16QAM	12	13	18.28	18.23	18.20	18.42	18.32				
5	16QAM	25	0	18.36	18.47	18.26	18.36	18.42	20.1	0		
5	16QAM	25	0	18.23	18.30	18.12	18.23	18.45				
5	16QAM	1	12	18.25	18.37	18.33	18.11	18.13				
5	16QAM	24	18	18.24	18.18	18.22	18.13	18.14				
5	16QAM	12	5	18.43	18.13	18.20	18.44	18.45	20.1	0		
5	16QAM	12	7	18.17	18.29	18.15	18.33	18.40				
5	16QAM	12	13	18.40	18.18	18.20	18.17	18.24				
5	16QAM	25	0	18.15	18.25	18.17	18.39	18.20				
5	256QAM	1	0	18.04	18.03	18.01	18.02	18.15	19.1	1		
5	256QAM	1	49	18.01	18.01	18.01	17.98	18.04				
5	256QAM	1	96	17.86	18.07	18.03	18.00	18.10				
5	256QAM	12	5	17.72	17.86	17.86	17.86	17.77				
5	256QAM	12	7	17.72	17.81	17.73	17.70	17.68	19.1	1		
5	256QAM	12	13	17.76	17.72	17.72	17.79	17.67				
5	256QAM	25	12	17.85	17.72	17.80	17.85	17.85				



Band 38 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37465	38050	38150			
20	QPSK	1	0	20.38	20.50	20.15	21.5	0	
20	QPSK	1	49	20.27	20.29	20.12			
20	QPSK	1	99	20.15	20.21	20.07			
20	QPSK	50	0	20.25	20.30	20.03			
20	QPSK	50	24	20.17	20.19	19.91			
20	QPSK	50	50	19.98	20.07	19.98	21.5	0	
20	QPSK	100	0	20.25	20.37	20.06			
20	QPSK	100	1	20.13	20.18	20.05			
20	HQAM	1	49	20.07	20.17	19.95			
20	HQAM	1	99	20.19	20.39	20.11			
20	HQAM	50	0	20.17	20.19	19.97	21.5	0	
20	HQAM	50	50	19.99	20.23	19.99			
20	HQAM	50	50	20.19	20.24	20.09			
20	HQAM	100	0	20.25	20.37	19.95			
20	HQAM	100	1	20.05	20.12	19.93			
20	HQAM	1	49	20.08	20.29	20.11	21.5	0	
20	HQAM	1	99	20.17	20.21	19.93			
20	HQAM	50	0	20.09	20.17	19.95			
20	HQAM	50	24	20.10	20.31	19.99			
20	HQAM	50	50	20.02	20.10	20.00			
20	HQAM	100	0	20.01	20.16	19.85	21.2	0.3	
20	HQAM	100	1	19.81	20.16	19.85			
20	25QAM	1	0	18.47	18.44	18.29			
20	25QAM	1	49	18.39	18.51	18.29			
20	25QAM	1	99	18.39	18.44	18.35			
20	25QAM	50	0	18.32	18.32	18.07	19	2.5	
20	25QAM	50	24	18.07	18.14	18.11			
20	25QAM	50	50	18.10	18.24	18.03			
20	25QAM	100	0	18.25	18.30	18.05			
20	25QAM	100	1	18.05	18.25	18.05			
Channel									
Frequency (MHz)				37455	38050	38175	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	20.13	20.20	20.15	21.5	0	
15	QPSK	1	37	20.19	20.18	20.00			
15	QPSK	1	74	19.99	20.10	19.87			
15	QPSK	36	0	20.22	20.32	19.97			
15	QPSK	36	20	20.14	20.16	19.88			
15	QPSK	75	0	20.17	20.25	20.01	21.5	0	
15	HQAM	1	0	20.07	20.09	19.98			
15	HQAM	1	37	20.04	20.11	19.95			
15	HQAM	1	74	20.17	20.34	19.98			
15	HQAM	36	0	20.09	20.10	19.93			
15	HQAM	36	20	19.93	20.02	19.95	21.5	0	
15	HQAM	36	39	20.06	20.18	20.00			
15	HQAM	75	0	20.07	20.11	19.91			
15	HQAM	75	19	19.92	20.00	19.95			
15	HQAM	1	37	20.23	20.21	20.05			
15	HQAM	1	74	20.12	20.20	19.95	21.2	0.3	
15	HQAM	1	37	20.07	20.07	19.84			
15	HQAM	36	20	19.92	20.07	19.88			
15	HQAM	36	39	20.06	20.17	19.88			
15	HQAM	75	0	19.99	20.05	19.85			
15	25QAM	1	0	18.37	18.39	18.24	19	2.5	
15	25QAM	1	37	18.32	18.39	18.24			
15	25QAM	1	74	18.38	18.38	18.30			
15	25QAM	36	0	18.15	18.23	18.12			
15	25QAM	36	39	18.32	18.32	18.12			
15	25QAM	75	0	18.24	18.36	18.22	19	2.5	
15	25QAM	75	19	18.24	18.36	18.22			
15	25QAM	1	37	18.32	18.36	18.22			
15	25QAM	1	74	18.38	18.38	18.30			
15	25QAM	36	0	18.15	18.23	18.12			
Channel									
Frequency (MHz)				37460	38050	38200	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	20.23	20.24	20.08	21.5	0	
10	QPSK	1	25	20.23	20.24	20.08			
10	QPSK	1	49	20.08	20.14	19.95			
10	QPSK	25	0	20.17	20.27	19.95			
10	QPSK	25	12	20.07	20.09	19.86			
10	QPSK	25	25	19.87	20.17	19.85	21.5	0	
10	HQAM	1	0	20.04	20.04	19.88			
10	HQAM	1	0	20.04	20.08	19.94			
10	HQAM	1	25	20.03	20.06	19.87			
10	HQAM	1	49	20.06	20.32	20.01			
10	HQAM	25	0	20.14	20.14	19.95	21.5	0	
10	HQAM	25	12	19.95	20.10	19.86			
10	HQAM	25	25	19.95	20.32	20.06			
10	HQAM	50	0	20.08	20.16	19.93			
10	HQAM	50	0	20.08	20.20	20.00			
10	HQAM	1	49	20.09	20.14	19.88	21.2	0.3	
10	HQAM	25	0	20.05	20.07	19.86			
10	HQAM	25	12	20.03	20.28	19.92			
10	HQAM	25	25	19.93	20.08	20.03			
10	HQAM	50	0	19.93	20.05	19.77			
10	25QAM	1	0	18.42	18.41	18.21	19	2.5	
10	25QAM	1	25	18.23	18.42	18.16			
10	25QAM	1	49	18.28	18.40	18.33			
10	25QAM	25	0	18.32	18.39	18.15			
10	25QAM	25	12	18.32	18.33	18.17			
10	25QAM	25	25	18.25	18.35	18.15	19	2.5	
10	25QAM	25	25	18.25	18.35	18.15			
10	25QAM	50	0	18.28	18.36	18.13			
10	25QAM	50	0	18.28	18.36	18.13			
10	25QAM	50	0	18.28	18.36	18.13			
Channel									
Frequency (MHz)				37475	38060	38225	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	20.31	20.35	20.08	21.5	0	
5	QPSK	1	12	20.14	20.27	20.01			
5	QPSK	1	24	20.02	20.29	19.98			
5	QPSK	12	0	20.13	20.27	19.91			
5	QPSK	12	7	20.10	20.14	19.92			
5	QPSK	12	13	19.97	20.20	19.80	21.5	0	
5	QPSK	25	0	20.24	20.34	19.95			
5	HQAM	1	0	20.01	20.14	20.00			
5	HQAM	1	12	19.98	20.12	19.88			
5	HQAM	1	24	20.15	20.33	20.04			
5	HQAM	12	0	20.15	20.07	19.87	21.5	0	
5	HQAM	12	7	19.99	20.14	19.82			
5	HQAM	12	13	19.98	20.12	20.00			
5	HQAM	25	0	20.05	20.17	19.85			
5	HQAM	25	0	20.05	20.14	19.74			
5	HQAM	1	0	18.40	18.41	18.24	21.2	0.3	
5	HQAM	1	12	18.23	18.49	18.20			
5	HQAM	1	24	18.23	18.40	18.20			
5	HQAM	12	0	18.34	18.36	18.28			
5	HQAM	12	7	18.25	18.26	18.13			
5	25QAM	1	0	18.30	18.31	18.15	19	2.5	
5	25QAM	1	12	18.30	18.31	18.15			
5	25QAM	1	24	18.23	18.40	18.20			
5	25QAM	12	0	18.34	18.36	18.28			
5	25QAM	12	7	18.25	18.26	18.13			

Band 41 Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Ch / Freq	Power Peak Ch / Freq	Power Peak Ch / Freq	Turn-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40200	41005	41400		
15	QPSK	1	0	20.26	20.42	20.20	20.33	20.07	21.5	0
15	QPSK	1	49	20.29	20.27	20.15	20.17	20.02		
15	QPSK	1	99	20.15	20.31	19.98	20.12	19.91		
15	QPSK	50	0	20.20	20.30	20.04	20.21	19.97		
15	QPSK	50	24	20.12	20.20	19.93	20.06	19.93		
15	QPSK	50	50	20.02	20.22	19.93	19.93	19.90	21.5	0
15	QPSK	100	0	20.23	20.33	20.09	20.21	20.01		
15	15QAM	1	0	20.10	20.22	20.04	20.02	19.90	21.5	0
15	15QAM	1	49	20.23	20.17	20.08	20.02	19.80		
15	15QAM	1	99	20.10	20.26	20.11	20.24	19.96		
15	15QAM	50	0	20.10	20.19	19.98	19.98	19.90		
15	15QAM	50	24	20.10	20.23	19.99	20.20	19.92		
15	15QAM	50	50	20.18	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	0	20.20	20.19	19.98	19.98	19.90		
15	15QAM	100	24	20.19	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	24	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	50	20.10	20.26	20.11	20.24	19.96	21.5	0
15	15QAM	100	0	20.10	20.26	20.11	20.24	19.96		
15	15QAM	100	24	20.10	20.26	20.11	20			



Band 38 Ant 2												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.57	22.63	22.61	23.8	0				
20	QPSK	1	48	22.44	22.46	22.39						
20	QPSK	1	88	22.35	22.47	22.36						
20	QPSK	50	0	21.57	21.58	21.61						
20	QPSK	50	24	21.41	21.53	21.39	23	0.8				
20	QPSK	50	50	21.38	21.43	21.36						
20	QPSK	100	0	21.52	21.55	21.56						
20	HQAM	1	0	21.80	21.87	21.78						
20	HQAM	1	48	20.95	20.97	20.95	23	0.8				
20	HQAM	1	96	21.74	21.84	21.76						
20	HQAM	50	24	20.25	20.37	20.28						
20	HQAM	50	50	20.21	20.29	20.29						
20	HQAM	100	0	20.58	20.57	20.57	22	1.8				
20	HQAM	100	1	20.58	20.57	20.57						
20	HQAM	1	48	20.43	20.65	20.62						
20	HQAM	1	96	20.55	20.53	20.56						
20	HQAM	50	0	19.40	19.47	19.35	21	2.8				
20	HQAM	50	24	19.25	19.41	19.22						
20	HQAM	50	50	19.31	19.19	19.22						
20	HQAM	100	0	19.29	19.39	19.13						
20	256QAM	1	0	17.81	17.82	17.58	19	4.8				
20	256QAM	1	48	17.78	17.85	17.56						
20	256QAM	1	96	17.53	17.47	17.56						
20	256QAM	50	0	17.53	17.58	17.27						
20	256QAM	50	24	17.24	17.27	17.12	19	4.8				
20	256QAM	50	50	17.25	17.31	17.23						
20	256QAM	100	0	17.35	17.39	17.25						
20	256QAM	100	1	17.35	17.42	17.34						
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.57	22.55	22.41	23.8	0				
15	QPSK	1	37	22.31	22.38	22.32						
15	QPSK	1	74	22.30	22.40	22.25						
15	QPSK	36	0	21.49	21.54	21.61						
15	QPSK	36	20	21.27	21.42	21.26	23	0.8				
15	QPSK	36	36	21.38	21.50	21.37						
15	QPSK	75	0	21.39	21.52	21.45						
15	HQAM	1	0	21.71	21.83	21.69						
15	HQAM	1	37	21.56	21.79	21.61	23	0.8				
15	HQAM	1	74	21.61	21.71	21.66						
15	HQAM	36	0	20.23	20.31	20.18						
15	HQAM	36	20	20.21	20.29	20.25						
15	HQAM	36	36	20.07	20.22	20.13	22	1.8				
15	HQAM	75	0	20.21	20.29	20.18						
15	HQAM	75	0	19.31	19.33	19.25						
15	HQAM	1	37	20.34	20.52	20.48						
15	HQAM	74	20	20.46	20.53	20.54	21	2.8				
15	HQAM	36	0	19.31	19.33	19.25						
15	HQAM	36	20	20.15	19.31	19.12						
15	HQAM	36	0	19.21	19.45	19.47						
15	256QAM	1	0	17.46	17.45	17.47	19	4.8				
15	256QAM	1	37	17.43	17.46	17.43						
15	256QAM	36	0	17.19	17.25	17.17						
15	256QAM	36	20	17.17	17.18	17.16						
15	256QAM	75	0	17.26	17.19	17.28						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.57	22.55	22.41	23.8	0				
10	QPSK	1	25	22.37	22.36	22.25						
10	QPSK	1	48	22.23	22.35	22.25						
10	QPSK	1	88	22.16	22.15	22.06						
10	QPSK	25	12	21.29	21.47	21.25	23	0.8				
10	QPSK	25	25	21.31	21.26	21.25						
10	QPSK	50	0	21.45	21.52	21.42						
10	HQAM	1	0	21.87	21.82	21.65						
10	HQAM	1	25	21.66	21.82	21.65	23	0.8				
10	HQAM	1	49	21.66	21.78	21.64						
10	HQAM	25	0	20.22	20.32	20.21						
10	HQAM	25	12	20.13	20.25	20.25						
10	HQAM	50	0	20.25	20.17	20.21	22	1.8				
10	HQAM	50	0	20.32	20.25	20.21						
10	HQAM	25	0	19.35	19.39	19.23						
10	HQAM	25	12	19.19	19.34	19.10						
10	HQAM	25	25	19.16	19.06	19.16	21	2.8				
10	HQAM	50	0	19.17	19.25	19.01						
10	256QAM	1	0	17.52	17.57	17.46						
10	256QAM	1	25	17.48	17.48	17.22						
10	256QAM	1	49	17.46	17.57	17.46	19	4.8				
10	256QAM	25	0	17.23	17.29	17.15						
10	256QAM	25	12	17.15	17.17	17.02						
10	256QAM	25	25	17.11	17.17	17.17						
10	256QAM	50	0	17.18	17.18	17.24						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.52	22.49	22.35	23.8	0				
5	QPSK	1	12	22.37	22.35	22.20						
5	QPSK	1	24	22.22	22.42	22.25						
5	QPSK	12	0	21.47	21.56	21.54						
5	QPSK	12	7	21.38	21.46	21.37	23	0.8				
5	QPSK	12	13	21.27	21.27	21.26						
5	QPSK	25	0	21.46	21.59	21.44						
5	HQAM	1	0	21.74	21.87	21.70						
5	HQAM	1	12	21.63	21.74	21.60	23	0.8				
5	HQAM	1	24	21.66	21.71	21.66						
5	HQAM	12	0	20.25	20.31	20.21						
5	HQAM	12	7	20.13	20.27	20.22						
5	HQAM	12	13	20.10	20.21	20.10	22	1.8				
5	HQAM	25	0	20.18	20.28	20.21						
5	HQAM	25	1	20.41	20.61	20.56						
5	HQAM	12	13	20.29	20.50	20.55						
5	HQAM	1	24	20.49	20.58	20.51	22	1.8				
5	HQAM	12	0	19.27	19.39	19.29						
5	HQAM	12	7	19.12	19.27	19.13						
5	HQAM	12	13	19.20	19.59	19.13						
5	HQAM	25	0	17.52	17.59	17.45	19	4.8				
5	256QAM	1	0	17.52	17.59	17.45						
5	256QAM	1	12	17.50	17.43	17.20						
5	256QAM	1	24	17.42	17.37	17.42						
5	256QAM	12	0	17.19	17.26	17.18	19	4.8				
5	256QAM	12	7	17.14	17.19	17.02						
5	256QAM	12	13	17.15	17.24	17.09						
5	256QAM	25	0	17.26	17.24	17.20						

Band 41 Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.28	22.30	22.32	22.30	22.30	23.8	0
20	QPSK	1	48	22.30	22.38	22.30	22.33	22.38		
20	QPSK	1	88	22.30	22.38	22.28	22.33	22.38		
20	QPSK	50	0	22.28	22.28	22.30	22.33	22.30		
20	QPSK	50	24	22.27	22.29	22.31	22.29	22.38	23	0.8
20	QPSK	50	50	22.31	22.34	22.35	22.33	22.38		
20	QPSK	100	0	22.27	22.27	22.30	22.33	22.27		
20	QPSK	100	1	22.32	22.30	22.32	22.34	22.32		
20	16QAM	1	0	22.32	22.30	22.32	22.34	22.32	23	0.8
20	16QAM	1	48	22.31	22.31	22.33	22.34	22.33		
20	16QAM	1	96	22.29	22.29	22.34	22.35	22.29		
20	16QAM	50	24	20.97	20.95	20.91	20.94	20.93		
20	16QAM	50	50	20.94	20.96	20.96	20.97	20.98	22	1.8
20	16QAM	100	0	20.99	20.97	20.95	20.94	20.93		
20	16QAM	100	1	20.97	20.98	20.96	20.97	20.98		
20	16QAM	1	48	20.98	20.97	20.95	20.94	20.94		
20	16QAM	1	48	20.98	20.96	20.97	20.99	20.94	22	1.8
20	16QAM	50	24	20.97	20.95	20.91	20.94	20.93		
20	16QAM	50	50	20.94	20.96	20.96	20.97	20.98		
20	16QAM	100	0	20.99	20.97	20.95	20.94	20.93		
20	16QAM	100	1	20.97	20.98	20.96	20.97	20.98	21	2.8
20	16QAM	1	48	20.98	20.97	20.95	20.94	20.94		
20	16QAM	50	24	20.97	20.95	20.91	20.94	20.93		
20	16QAM	50	50	20.94	20.96	20.96	20.97	20.98		
20	16QAM	100	0	20.99	20.97	20.95	20.94	20.93	21	2.8
20	16QAM	100	1	20.97	20.98	20.96	20.97	20.98		
20	16QAM	1	48	20.98	20.97	20.95	20.94	20.94		
20	16QAM	50	24	20.97	20.95	20.91	20.94	20.93		
20	16QAM	50	50	20.94	20.96	20.96	20.97	20.98	21	2.8
20	16QAM	100	0	20.99	20.97	20.95	20.94	20.93		
20	16QAM	100	1	20.97	20.98	20.96	20.97	20.98		
20	16QAM	1	48	20.98	20.97	20.95	20.94	20.94		
20	256QAM	1	0	17.68	17.72	17.78	17.75	17.67	19	4.8
20	256QAM	1	24	17.67	17.65	17.68	17.76	17.72		
20	256QAM	1	56	17.68	17.66	17.69	17.73	17.62		
20	256QAM	1	88	17.67	17.65	17.68	17.76	17.72		
20	256QAM	50	24	17.40	17.41	17.37	17.34	17.20	19	4.8
20	256QAM	50	50	17.36	17.44	17.46	17.38	17.22		
20	256QAM	100	0	17.42	17.50	17.52	17.44	17.30		
20	256QAM	100	1	17.40	17.47	17.49	17.41	17.32		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.19	22.18	22.24	22.19	22.19	24	0
15	QPSK	1	37	22.18	22.24	22.25	22.24	22.24		
15	QPSK	1	74	22.18	22.23	22.20	22.20	22.23		
15	QPSK	1	111	22.19	22.23	22.23	22.23	22.23		
15	QPSK	36	20	22.13	22.23	22.22	22.22	22.23	23	0.8
15	QPSK	36	56	22.18	22.21	22.21	22.21	22.28		
15	QPSK	78	0	22.17	22.17	22.20	22.21	22.16		
15	QPSK	78	1	22.20	22.19	22.18	22.21	22.18		
15	16QAM	1	0	22.20	22.19	22.18	22.21	22.17	23	0.8
15	16QAM	1	37	22.19	22.23	22.21	22.21	22.21		
15	16QAM	1	74	22.18	22.19	22.21	22.27	22.21		
15	16QAM	36	0	20.99	20.99	20.90	20.94	20.91		
15	16QAM	36	10	20.97	20.97	20.90	20.94	20.92	22	1.8
15	16QAM	36	30	20.99	20.91	20.90	20.90	20.90		
15	16QAM	36	50	20.98	20.91	20.90	20.90	20.90		
15	16QAM	36	70	20.99	20.91	20.90	20.90	20.90		
15	16QAM	78	0	20.71	20.62	20.76	20.79	20.68	22	1.8
15	16QAM	1	37	20.67	20.57	20.67	20.71	20.65		
15	16QAM	1	74	20.67	20.61	20.67	20.70	20.65		
15	16QAM	36	0	19.30	19.44	19.45	19.25	19.27		
15	16QAM	36	20	19.23	19.33	19.33	19.19	19.26	21	2.8
15	16QAM	36	50	19.30	19.34	19.33	19.19	19.26		
15	16QAM	36	70	19.30	19.34	19.33	19.19	19.26		
15	16QAM	78	0	19.25	19.26	19.48	19.17	19.16		
15	256QAM	1	0	17.67	17.67	17.67	17.67	17.67	19	4.8
15	256QAM	1	37	17.60	17.57	17.47	17.54	17.59		
15	256QAM	1	74	17.44	17.58	17.58	17.58	17.44		
15	256QAM	36	0	17.34	17.44	17.47	17.34	17.38		
15	256QAM	36	20	17.33	17.34	17.35	17.34	17.32	19	4.8
15	256QAM	36	50	17.36	17.33	17.35	17.30	17.31		
15	256QAM	36	70	17.36	17.33	17.35	17.30	17.31		
15	256QAM	78	0	17.46	17.46	17.46	17.46	17.46		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.11	22.10	22.13	22.11	22.11	24	0
10	QPSK	1	25	22.11	22.25	22.24	22.24	22.23		
10	QPSK	1	50	22.12	22.25	22.23	22.21	22.25		
10	QPSK	28	0	22.22	22.15	22.25	22.28	22.28		
10	QPSK	28	12	22.22	22.14	22.23	22.29	22.26	23	0.8
10	QPSK	28	25	22.22	22.20	22.20	22.21	22.24		
10	QPSK	50	0	22.22	22.12	22.24	22.21	22.12		
10	QPSK	50	1	22.23	22.23	22.18	22.28	22.23		
10	16QAM	1	0	22.23	22.23	22.18	22.28	22.23	23	0.8
10	16QAM	1	25	22.28	22.25	22.25	22.28	22.23		
10	16QAM	1	48	22.16	22.22	22.28	22.26	22.23		
10	16QAM	28	0	20.47	20.29	20.47	20.37	20.26		
10	16QAM	28	12	20.48	20.40	20.47	20.37	20.26	22	1.8
10	16QAM	28	25	20.52	20.27	20.40	20.30	20.37		
10	16QAM	50	0	20.52	20.41	20.40	20.40	20.30		
10	16QAM	1	48	20.58	20.60	20.79	20.80	20.67		
10	16QAM	1	25	20.62	20.60	20.71	20.71	20.60	22	1.8
10	16QAM	1	48	20.63	20.62	20.70	20.70	20.63		
10	16QAM	28	0	19.30	19.33	19.51	19.27	19.30		
10	16QAM	28	12	19.29	19.30	19.30	19.12	19.22		
10	16QAM	28	25	19.34	19.43	19.43	19.24	19.20	21	2.8
10	16QAM	50	0	19.21	19.25	19.47	19.24	19.25		
10	16QAM	50	1	19.25	19.27	19.47	19.27	19.48		
10	256QAM	1	25	17.66	17.53	17.54	17.52	17.42		
10	256QAM	1	48	17.48	17.57	17.61	17.63	17.47	19	4.8
10	256QAM	28	0	17.36	17.37	17.31	17.26	17.38		
10	256QAM	28	12	17.30	17.29	17.31	17.26	17.14		
10	256QAM	25	20	17.22	17.38	17.39	17.33	17.12		
10	256QAM	50	0	17.31	17.31	17.31	17.31	17.31	19	4.8
10	256QAM	50	1	17.31	17.31	17.31	17.31	17.31		
10	256QAM	1	48	17.31	17.31	17.31	17.31	17.31		
10	256QAM	28	12	17.26	17.27	17.22	17.18	17.14		
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.22	22.19	22.22	22.21	22.19	24	0
5	QPSK	1	12	22.18	22.26	22.25	22.24	22.25		
5	QPSK	1	24	22.19	22.28	22.27	22.26	22.28		
5	QPSK	12	0	22.22	22.17	22.20	22.22	22.25		
5	QPSK	12	7	22.14	22.20	22.25	22.26	22.21	23	0.8
5	QPSK	12	14	22.15	22.21	22.26	22.27	22.23		
5	QPSK	28	0	22.13	22.17	22.21	22.25	22.14		
5	QPSK	28	0	22.24	22.23	22.18	22.27	22.24		
5	16QAM	1	0	22.23	22.18	22.23	22.26	22.20	23	0.8
5	16QAM	1	12	22.20	22.18	22.23	22.26	22.20		
5	16QAM	1	24	22.19	22.18	22.27	22.29	22.16		
5	16QAM	28	0	20.46	20.38	20.46	20.38	20.27		
5	16QAM	12	7	20.46	20.49	20.46	20.29	20.23	22	1.8
5	16QAM	12	13	20.45	20.53	20.42	20.39	20.33		
5	16QAM	28	0	20.67	20.63	20.63	20.64	20.67		
5	16QAM	1	0	20.80	20.83	20.75	20.78	20.68		
5	16QAM	1	12	20.83	20.84	20.87	20.88	20.80	22	1.8
5	16QAM	1	24	20.83	20.84	20.87	20.88	20.81		
5	16QAM	12	0	19.36	19.50	19.47	19.26	19.25		
5	16QAM	12	7	19.23	19.31	19.31	19.13	19.17		
5	16QAM	28	0	19.37	19.43	19.43	19.18	19.16	21	2.8
5	16QAM	28	0	19.27	19.31	19.52	19.26	19.28		
5	16QAM	28	0	17.43	17.56	17.56	17.47	17.43		
5	256QAM	1	12	17.60	17.52	17.45	17.56	17.37		
5	256QAM	1	24	17.52	17.56	17.57	17.58	17.52	19	4.8
5	256QAM	12	0	17.31	17.37	17.42	17.42	17.36		
5	256QAM	12	7	17.26	17.27	17.22	17.18	17.14		
5	256QAM	12	13	17.27	17.37	17.40	17.26	17.26		



Band 38 Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel									
Frequency (MHz)				37950	38050	38150			
				251.5	251.5	251.5			
20	QPSK	1	0	18.39	18.53	18.44		19.5	0
20	QPSK	1	49	18.47	18.49	18.53			
20	QPSK	1	99	18.43	18.53	18.55			
20	QPSK	50	0	18.44	18.54	18.52			
20	QPSK	50	24	18.50	18.48	18.53		19.5	0
20	QPSK	100	0	18.46	18.52	18.49			
20	QPSK	100	1	18.36	18.43	18.41			
20	16QAM	1	0	18.44	18.41	18.52		19.5	0
20	16QAM	1	49	18.53	18.57	18.47			
20	16QAM	1	99	18.43	18.52	18.35			
20	16QAM	50	0	18.40	18.51	18.52			
20	16QAM	50	24	18.42	18.35	18.50		19.5	0
20	16QAM	50	50	18.35	18.51	18.55			
20	16QAM	100	0	18.45	18.43	18.40			
20	16QAM	100	1	18.36	18.35	18.35			
20	16QAM	1	0	18.48	18.50	18.53		19.5	0
20	16QAM	1	99	18.36	18.39	18.44			
20	64QAM	1	49	18.43	18.50	18.63			
20	64QAM	1	99	18.43	18.50	18.44			
20	64QAM	50	0	18.48	18.41	18.37			
20	64QAM	50	24	18.35	18.47	18.43		19.5	0
20	64QAM	50	50	18.35	18.47	18.43			
20	64QAM	100	0	18.40	18.49	18.42			
20	256QAM	1	0	17.75	17.84	17.89			
20	256QAM	1	49	17.77	17.86	17.74		19.5	0
20	256QAM	1	99	17.79	17.77	17.85			
20	256QAM	50	0	17.57	17.62	17.52			
20	256QAM	50	24	17.50	17.57	17.57		19.5	0
20	256QAM	50	50	17.57	17.59	17.52			
20	256QAM	100	0	17.59	17.58	17.59			
Channel									
Frequency (MHz)				37955	38055	38155	Tune-up limit (dBm)	MFR (dB)	
				251.5	251.5	251.5			
15	QPSK	1	0	18.33	18.43	18.44		19.5	0
15	QPSK	1	37	18.18	18.37	18.36			
15	QPSK	1	74	18.16	18.19	18.24			
15	QPSK	36	0	18.23	18.33	18.41			
15	QPSK	36	20	18.26	18.23	18.25		19.5	0
15	QPSK	75	0	18.16	18.15	18.31			
15	16QAM	1	0	18.24	18.29	18.37		19.5	0
15	16QAM	1	37	18.26	18.36	18.26			
15	16QAM	1	74	18.28	18.35	18.05			
15	16QAM	36	0	18.17	18.10	18.18			
15	16QAM	36	20	18.25	18.27	18.26		19.5	0
15	16QAM	36	36	18.11	18.24	18.22			
15	16QAM	75	0	18.21	18.22	18.13			
15	16QAM	75	0	18.23	18.27	18.08			
15	64QAM	1	37	18.22	18.49	18.33		19.5	0
15	64QAM	1	74	18.26	18.31	18.10			
15	64QAM	36	0	18.17	18.27	18.16			
15	64QAM	36	20	18.14	18.21	18.18		19.5	0
15	64QAM	36	36	18.37	18.27	18.16			
15	64QAM	75	0	18.12	18.27	18.15			
15	256QAM	1	0	17.63	17.68	17.77		19.5	0
15	256QAM	1	37	17.65	17.65	17.68			
15	256QAM	1	74	17.55	17.50	17.61			
15	256QAM	36	0	17.58	17.58	17.55		19.5	0
15	256QAM	36	20	17.57	17.58	17.52			
15	256QAM	36	36	17.57	17.59	17.52			
15	256QAM	75	0	17.57	17.54	17.59			
Channel									
Frequency (MHz)				37960	38060	38160	Tune-up limit (dBm)	MFR (dB)	
				251.5	251.5	251.5			
10	QPSK	1	0	18.34	18.43	18.44		19.5	0
10	QPSK	1	25	18.24	18.34	18.35			
10	QPSK	1	49	18.15	18.17	18.26			
10	QPSK	25	0	18.15	18.48	18.34			
10	QPSK	25	12	18.35	18.35	18.23		19.5	0
10	QPSK	25	25	18.10	18.27	18.30			
10	HQAM	1	0	18.35	18.29	18.34		19.5	0
10	HQAM	1	0	18.16	18.29	18.34			
10	HQAM	1	25	18.43	18.25	18.22			
10	HQAM	1	49	18.14	18.24	18.17			
10	HQAM	25	0	18.14	18.23	18.10			
10	HQAM	25	12	18.26	18.22	18.21		19.5	0
10	HQAM	25	25	18.35	18.33	18.40			
10	HQAM	50	0	18.23	18.20	18.12			
10	HQAM	50	0	18.26	18.25	18.21			
10	HQAM	1	0	18.26	18.25	18.21		19.5	0
10	HQAM	1	25	18.21	18.21	18.31			
10	HQAM	1	49	18.14	18.14	18.14			
10	HQAM	25	0	18.14	18.23	18.10			
10	HQAM	25	12	18.26	18.22	18.21		19.5	0
10	HQAM	25	25	18.35	18.33	18.40			
10	HQAM	50	0	18.23	18.20	18.12			
10	HQAM	50	0	18.26	18.25	18.21			
10	HQAM	1	0	18.26	18.25	18.21		19.5	0
10	HQAM	1	25	18.21	18.21	18.31			
10	HQAM	1	49	18.14	18.14	18.14			
10	HQAM	25	0	18.14	18.23	18.10			
10	HQAM	25	12	18.26	18.22	18.21		19.5	0
10	HQAM	25	25	18.35	18.33	18.40			
10	HQAM	50	0	18.23	18.20	18.12			
10	HQAM	50	0	18.26	18.25	18.21			
10	HQAM	1	0	18.26	18.25	18.21		19.5	0
10	HQAM	1	25	18.21	18.21	18.31			
10	HQAM	1	49	18.14	18.14	18.14			
10	HQAM	25	0	18.14	18.23	18.10			
10	HQAM	25	12	18.26	18.22	18.21		19.5	0
10	HQAM	25	25	18.35	18.33	18.40			
10	HQAM	50	0	18.23	18.20	18.12			
10	HQAM	50	0	18.26	18.25	18.21			
10	HQAM	1	0	18.26	18.25	18.21		19.5	0
10	HQAM	1	25	18.21	18.21	18.31			
10	HQAM	1	49	18.14	18.14	18.14			
10	HQAM	25	0	18.14	18.23	18.10			
10	HQAM	25	12	18.26	18.22	18.21		19.5	0
10	HQAM	25	25	18.35	18.33	18.40			
10	HQAM	50	0	18.23	18.20	18.12			
10	HQAM	50	0	18.26	18.25	18.21			
10	HQAM	1	0	18.26	18.25	18.21		19.5	0
10	HQAM	1	25	18.21	18.21	18.31			
10	HQAM	1	49	18.14	18.14	18.14			
10	HQAM	25	0	18.14	18.23	18.10			
10	HQAM	25	12	18.26	18.22	18.21		19.5	0
10	HQAM	25	25	18.35	18.33	18.40			
10	HQAM	50	0	18.23	18.20	18.12			
10	HQAM	50	0	18.26	18.25	18.21			
10	HQAM	1	0	18.26	18.25	18.21		19.5	0
10	HQAM	1	25	18.21	18.21	18.31			
10	HQAM	1	49	18.14	18.14	18.14			
10	HQAM	25	0	18.14	18.23	18.10			
10	HQAM	25	12	18.26	18.22	18.21		19.5	0
10	HQAM	25	25	18.35	18.33	18.40			
10	HQAM	50	0	18.23	18.20	18.12			
10	HQAM	50	0	18.26	18.25	18.21			
10	HQAM	1	0	18.26	18.25	18.21		19.5	0
10	HQAM	1	25	18.21	18.21	18.31			
10	HQAM	1	49	18.14	18.14	18.14			
10	HQAM	25	0	18.14	18.23	18.10			
10	HQAM	25	12	18.26	18.22	18.21		19.5	0
10	HQAM	25	25	18.35	18.33	18.40			
10	HQAM	50	0	18.23	18.20	18.12			
10	HQAM	50	0	18.26	18.25	18.21			
10	HQAM	1	0	18.26	18.25	18.21		19.5	0
10	HQAM	1	25	18.21	18.21	18.31			
10	HQAM	1	49	18.14	18.14	18.14			
10	HQAM	25	0	18.14	18.23	18.10			
10	HQAM	25	12	18.26	18.22	18.21		19.5	0
10	HQAM	25	25	18.35	18.33	18.40			
10	HQAM	50	0	18.23	18.20	18.12			
10	HQAM	50	0	18.26	18.25	18.21			
10	HQAM	1	0	18.26	18.25	18.21		19.5	0
10	HQAM	1	25	18.21	18.21	18.31			
10	HQAM	1	49	18.14	18.14	18.14			
10	HQAM	25	0	18.14	18.23	18.10			
10	HQAM	25	12	18.26	18.22	18.21		19.5	0
10	HQAM	25	25	18.35	18.33	18.40			
10	HQAM	50	0	18.23	18.20	18.12			
10	HQAM	50	0	18.26	18.25	18.21			
10	HQAM	1	0	18.26	18.25	18.21		19.5	0
10	HQAM	1	25	18.21	18.21	18.31			
10	HQAM	1	49	18.14	18.14	18.14			
10	HQAM	25	0	18.14	18.23	18.10			
10	HQAM	25	12	18.26	18.22	18.21		19.5	0
10	HQAM	25	25	18.35	18.33	18.40			
10	HQAM	50	0	18.23	18.20	18.12			
10	HQAM	50	0	18.26	18.25	18.21			
10	HQAM	1	0	18.26	18.25	18.21		19.5	0
10	HQAM	1	25	18.21	18.21	18.31			



Reduced Power Mode for ECH_Other PA

Band 2 Ant 0																
RF Band	Modulation	RB Size	RB Offset	Power Low Ch 1 18970	Power Middle Ch 2 19000	Power High Ch 3 19100	Turnup lim (dB)	MPR (dB)								
Channel																
Frequency (MHz)	Channel	18970	18990	19100												
20	QPSK	1	0	22.28	22.63	22.56	24	0								
20	QPSK	1	49	22.27	22.63	22.61										
20	QPSK	1	99	22.29	22.56	22.43										
20	QPSK	50	24	21.58	21.68	21.59										
20	QPSK	50	50	21.48	21.64	21.53		23	1							
20	QPSK	100	0	21.47	21.61	21.51										
20	16QAM	1	0	21.86	21.87	21.81										
20	16QAM	1	49	21.79	21.61	21.75										
20	16QAM	1	99	21.72	21.58	21.63		23	1							
20	16QAM	50	0	20.54	20.64	20.62										
20	16QAM	50	24	20.48	20.51	20.49										
20	64QAM	1	0	20.66	20.78	20.69		22	2							
20	64QAM	1	49	20.58	20.74	20.63										
20	64QAM	1	99	20.58	20.72	20.67										
20	64QAM	50	0	19.94	19.86	19.97										
20	64QAM	50	24	19.45	19.80	19.53										
20	256QAM	1	0	17.65	17.68	17.65		21	3							
20	256QAM	1	49	17.53	17.57	17.56										
20	256QAM	1	99	17.58	17.62	17.58										
20	256QAM	50	0	17.40	17.63	17.49		19	5							
20	256QAM	50	24	17.50	17.53	17.56										
20	256QAM	100	0	17.52	17.61	17.62										
Channel																
Frequency (MHz)	Channel	18970	18990	19100	Turnup lim (dB)	MPR (dB)										
15	QPSK	1	0	22.32	22.57	22.44		24	0							
15	QPSK	1	37	22.19	22.41	22.37										
15	QPSK	1	74	22.24	22.54	22.30										
15	QPSK	36	20	21.46	21.64	21.55				23	1					
15	QPSK	36	20	21.38	21.46	21.44										
15	QPSK	36	59	21.34	21.56	21.54										
15	QPSK	1	0	21.57	21.59	21.56										
15	16QAM	1	0	21.73	21.82	21.75	23		1							
15	16QAM	1	37	21.71	21.78	21.71										
15	16QAM	1	74	21.68	21.81	21.70										
15	16QAM	36	0	20.44	20.51	20.55										
15	16QAM	36	20	20.31	20.46	20.48	22		2							
15	16QAM	36	59	20.35	20.49	20.45										
15	16QAM	75	0	20.44	20.55	20.43										
15	64QAM	1	0	20.52	20.69	20.57	22		2							
15	64QAM	1	37	20.45	20.67	20.56										
15	64QAM	1	74	20.54	20.59	20.61										
15	64QAM	36	20	19.43	19.59	19.52	21		3							
15	64QAM	36	59	19.38	19.58	19.46										
15	64QAM	75	0	19.33	19.42	19.42										
15	256QAM	1	0	17.54	17.63	17.58	19		5							
15	256QAM	1	37	17.50	17.56	17.47										
15	256QAM	1	74	17.53	17.57	17.58										
15	256QAM	36	20	17.37	17.51	17.42	19		5							
15	256QAM	36	59	17.37	17.51	17.42										
15	256QAM	75	0	17.47	17.54	17.49										
Channel																
Frequency (MHz)	Channel	18990	18995	19100	Turnup lim (dB)	MPR (dB)										
10	QPSK	1	0	22.23	22.51	22.49	24	0								
10	QPSK	1	25	22.14	22.50	22.48										
10	QPSK	1	49	22.17	22.51	22.35										
10	QPSK	25	12	21.56	21.62	21.62		23	1							
10	QPSK	25	12	21.37	21.41	21.48										
10	QPSK	25	25	21.38	21.50	21.46										
10	16QAM	1	0	21.82	21.81	21.73		23	1							
10	16QAM	1	25	21.71	21.86	21.71										
10	16QAM	1	49	21.67	21.80	21.74										
10	16QAM	25	12	20.30	20.48	20.45		22	2							
10	16QAM	25	12	20.37	20.49	20.46										
10	16QAM	50	0	20.49	20.53	20.41										
10	64QAM	1	0	20.63	20.68	20.67		22	2							
10	64QAM	1	25	20.50	20.68	20.57										
10	64QAM	1	49	20.45	20.61	20.61										
10	64QAM	25	12	19.53	19.48	19.47		21	3							
10	64QAM	25	25	19.35	19.48	19.35										
10	64QAM	50	0	19.43	19.52	19.43										
10	256QAM	1	0	17.56	17.62	17.53		19	5							
10	256QAM	1	25	17.42	17.48	17.53										
10	256QAM	1	49	17.55	17.61	17.48										
10	256QAM	25	12	17.40	17.41	17.44		19	5							
10	256QAM	25	25	17.54	17.54	17.47										
10	256QAM	50	0	17.48	17.54	17.44										
Channel																
Frequency (MHz)	Channel	18995	19000	19175	Turnup lim (dB)	MPR (dB)										
5	QPSK	1	0	22.31	22.63	22.48		24	0							
5	QPSK	1	12	22.24	22.46	22.48										
5	QPSK	1	24	22.33	22.43	22.43	23		1							
5	QPSK	12	0	21.48	21.65	21.48										
5	QPSK	12	7	21.38	21.44	21.42										
5	QPSK	12	14	21.33	21.52	21.42	23		1							
5	QPSK	25	0	21.49	21.59	21.48										
5	16QAM	1	0	21.74	21.80	21.77	23		1							
5	16QAM	1	12	21.68	21.82	21.72										
5	16QAM	1	24	20.60	21.79	21.76	22		2							
5	16QAM	12	0	20.42	20.58	20.54										
5	16QAM	12	12	20.33	20.33	20.33										
5	16QAM	12	13	20.41	20.44	20.52	22		2							
5	16QAM	25	0	20.48	20.52	20.40										
5	16QAM	25	12	20.55	20.75	20.47										
5	16QAM	1	12	20.46	20.62	20.59	22		2							
5	64QAM	1	0	20.44	20.59	20.51										
5	64QAM	1	12	19.42	19.35	19.35	21		3							
5	64QAM	12	7	19.35	19.33	19.46										
5	64QAM	12	13	19.38	19.36	19.43	21		3							
5	64QAM	12	14	19.46	19.46	19.44										
5	64QAM	1	0	17.56	17.56	17.54										
5	256QAM	1	12	17.39	17.44	17.53	19	5								
5	256QAM	1	24	17.48	17.48	17.46										
5	256QAM	12	0	17.52	17.52	17.50										
5	256QAM	12	14	17.41	17.46	17.42	19	5								
5	256QAM	12	15	17.39	17.56	17.43										
5	256QAM	25	0	17.47	17.57	17.48										
Channel																
Frequency (MHz)	Channel	18970	18990	19000	Turnup lim (dB)	MPR (dB)										
1	QPSK	1	0	22.21	22.57	22.44	24	0								
1	QPSK	1	25	22.14	22.50	22.48										
1	QPSK	1	50	22.23	22.42	22.42		23	1							
1	QPSK	1	25	21.55	21.59	21.46										
1	QPSK	8	0	21.39	21.45	21.46										
1	QPSK	8	4	21.35	21.56	21.46		23	1							
1	QPSK	16	0	21.48	21.62	21.52										
1	QPSK	16	8	21.81	21.91	21.79										
1	16QAM	1	0	21.68	21.84	21.78		23	1							
1	16QAM	1	14	21.65	21.81	21.69										
1	16QAM	1	28	20.43	20.54	20.59										
1	16QAM	8	0	20.34	20.45	20.39		22	2							
1	16QAM	8	7	20.41	20.41	20.52										
1	16QAM	16	0	20.42	20.53	20.49										
1	64QAM	1	0	20.54	20.70	20.59		22	2							
1	64QAM	1	8	20.49	20.66	20.61										
1	64QAM	1	16	20.63	20.63	20.63										
1	64QAM	8	0	19.49	19.59	19.54		21	3							
1	64QAM	8	4	19.34	19.54	19.39										
1	64QAM	16	0	19.40	19.46	19.46										
1	256QAM	1	0	17.56	17.54	17.54	19	5								
1	256QAM	1	8	17.58	17.48	17.51										
1	256QAM	1	14	17.54	17.46	17.59										
1	256QAM	8	0	17.56	17.56	17.51	19	5								
1	256QAM	8	7	17.52	17.56	17.42										
1	256QAM	8	7	17.45	17.54	17.43										
Channel																
Frequency (MHz)	Channel	18970	18990	19000	Turnup lim (dB)	MPR (dB)										
1	QPSK	1	0	22.31	22.57	22.44	24	0								
1	QPSK	1	12	22.24	22.46	22.48										
1	QPSK	1	24	22.33	22.43	22.43		23	1							
1	QPSK	12	0	21.48	21.65	21.48										
1	QPSK	12	7	21.38	21.44	21.42										
1	QPSK	12	14	21.33	21.52	21.42		23	1							
1	QPSK	25	0	21.49	21.59	21.48										
1	16QAM	1	0	21.74	21.80	21.77		23	1							
1	16QAM	1	12	21.68	21.82	21.72										
1	16QAM	1	24	20.60	21.79	21.76		22	2							
1	16QAM	12	0	20.42	20.58	20.54										
1	16QAM	12	12	20.33	20.33	20.33										
1	16QAM	12	13	20.41	20.44	20.52		22	2							
1	16QAM	25	0	20.48	20.52	20.40										
1	16QAM	25	12	20.55	20.75	20.47										
1	16QAM	1	12	20.46	20.62	20.59		22	2							
1	64QAM	1	0	20.44	20.59	20.51										
1	64QAM	1	12	19.42	19.35	19.35		21	3							
1	64QAM	12	7	19.35	19.33	19.46										
1	64QAM	12	13	19.38	19.36	19.43		21	3							
1	64QAM	12	14	19.46	19.46	19.44										
1	64QAM	1	0	17.56	17.56	17.54										
1	256QAM	1	12	17.39	17.44	17.53	19	5								
1	256QAM	1	24	17.48	17.48	17.46										
1	256QAM	12	0	17.52	17.52	17.50										
1	256QAM	12	14	17.41	17.46	17.42	19	5								
1	256QAM	12	15	17.39	17.56	17.43										
1	256QAM	25	0	17.47	17.57	17.48										



Band 38 Ant 0												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Turn-up time (dBm)	MFR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.48	22.52	22.51	23	0				
20	QPSK	1	48	22.40	22.31	22.30						
20	QPSK	1	88	22.51	22.38	22.37						
20	QPSK	50	0	21.41	21.54	21.52	22	1				
20	QPSK	50	24	21.26	21.38	21.33						
20	QPSK	50	48	21.51	21.29	21.31						
20	HQAM	1	0	21.46	21.54	21.54	22	1				
20	HQAM	1	0	21.69	21.78	21.69						
20	HQAM	1	48	21.34	21.78	21.68						
20	HQAM	1	96	21.59	21.78	21.66	21	2				
20	HQAM	50	0	20.34	20.41	20.32						
20	HQAM	50	24	20.37	20.38	20.35						
20	HQAM	50	50	20.19	20.37	20.24	21	2				
20	HQAM	100	0	20.28	20.28	20.25						
20	HQAM	100	0	20.58	20.58	20.55						
20	HQAM	1	48	20.57	20.65	20.56	21	2				
20	HQAM	1	96	20.51	20.61	20.55						
20	HQAM	50	0	19.34	19.42	19.33						
20	HQAM	50	24	19.27	19.28	19.26	20	3				
20	HQAM	50	50	19.28	19.29	19.26						
20	HQAM	100	0	19.21	19.31	19.17						
20	256QAM	1	0	17.52	17.60	17.53	18	5				
20	256QAM	1	48	17.51	17.59	17.55						
20	256QAM	1	96	17.51	17.56	17.55						
20	256QAM	50	0	17.27	17.28	17.26	18	5				
20	256QAM	50	24	17.25	17.25	17.17						
20	256QAM	50	50	17.30	17.28	17.24						
20	256QAM	100	0	17.27	17.28	17.24	18	5				
20	256QAM	100	0	17.52	17.53	17.51						
20	256QAM	100	0	17.77	17.78	17.76						
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.13	22.42	22.28	23	0				
15	QPSK	1	37	22.28	22.18	22.18						
15	QPSK	1	74	22.59	22.33	22.12						
15	QPSK	36	0	21.34	21.42	21.37	22	1				
15	QPSK	36	20	21.14	21.24	21.17						
15	QPSK	36	38	21.38	21.38	21.35						
15	QPSK	75	0	21.38	21.39	21.35	22	1				
15	HQAM	1	0	21.55	21.66	21.61						
15	HQAM	1	37	21.55	21.67	21.64						
15	HQAM	1	74	21.54	21.72	21.61	21	2				
15	HQAM	36	0	20.24	20.36	20.19						
15	HQAM	36	20	20.22	20.26	20.15						
15	HQAM	36	38	20.09	20.29	20.18	21	2				
15	HQAM	75	0	20.26	20.26	20.22						
15	HQAM	75	0	20.45	20.58	20.45						
15	HQAM	1	37	20.52	20.69	20.51	21	2				
15	HQAM	74	20	20.14	20.47	20.39						
15	HQAM	36	0	19.23	19.37	19.25						
15	HQAM	36	20	19.15	19.17	19.20	20	3				
15	HQAM	36	38	19.19	19.19	19.14						
15	HQAM	75	0	19.05	19.22	19.11						
15	256QAM	1	0	17.52	17.52	17.43	18	5				
15	256QAM	1	37	17.39	17.47	17.47						
15	256QAM	1	74	17.42	17.46	17.43						
15	256QAM	36	0	17.15	17.33	17.18	18	5				
15	256QAM	36	20	17.14	17.17	17.05						
15	256QAM	36	38	17.25	17.13	17.20						
15	256QAM	75	0	17.26	17.21	17.19	23	0				
15	256QAM	75	0	17.26	17.21	17.19						
15	256QAM	75	0	17.26	17.21	17.19						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.13	22.42	22.28	23	0				
10	QPSK	1	25	22.31	22.22	22.23						
10	QPSK	1	48	22.13	22.31	22.20						
10	QPSK	25	0	21.31	21.45	21.40	22	1				
10	QPSK	25	12	21.19	21.24	21.19						
10	QPSK	25	25	21.19	21.14	21.26						
10	HQAM	1	0	21.87	21.78	21.63	22	1				
10	HQAM	1	25	21.82	21.62	21.53						
10	HQAM	1	48	21.47	21.67	21.59						
10	HQAM	25	0	20.28	20.28	20.21	21	2				
10	HQAM	25	12	20.22	20.41	20.12						
10	HQAM	25	25	20.07	20.31	20.14						
10	HQAM	50	0	20.38	20.25	20.22	21	2				
10	HQAM	50	0	20.50	20.37	20.33						
10	HQAM	50	0	20.49	20.58	20.42						
10	HQAM	1	48	20.45	20.54	20.50	20	3				
10	HQAM	25	0	19.21	19.33	19.21						
10	HQAM	25	12	19.22	19.20	19.14						
10	HQAM	25	25	19.20	19.25	19.11	20	3				
10	HQAM	50	0	19.15	19.25	19.05						
10	256QAM	1	0	17.51	17.46	17.42						
10	256QAM	1	25	17.41	17.46	17.40	18	5				
10	256QAM	1	48	17.38	17.43	17.35						
10	256QAM	25	0	17.22	17.28	17.20						
10	256QAM	25	12	17.17	17.16	17.07	18	5				
10	256QAM	25	25	17.22	17.15	17.15						
10	256QAM	50	0	17.24	17.27	17.22						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.33	22.47	22.40	23	0				
5	QPSK	1	12	22.30	22.25	22.15						
5	QPSK	1	24	22.09	22.24	22.13						
5	QPSK	12	0	21.28	21.46	21.47	22	1				
5	QPSK	12	7	21.16	21.27	21.25						
5	QPSK	12	13	21.20	21.22	21.19						
5	HQAM	1	0	21.62	21.69	21.63	22	1				
5	HQAM	1	12	21.48	21.59	21.52						
5	HQAM	1	24	21.46	21.64	21.61						
5	HQAM	12	0	20.24	20.31	20.26	21	2				
5	HQAM	12	7	20.25	20.35	20.14						
5	HQAM	12	13	20.05	20.31	20.14						
5	HQAM	25	0	20.25	20.28	20.18	21	2				
5	HQAM	1	0	20.32	20.62	20.49						
5	HQAM	12	0	20.47	20.58	20.43						
5	HQAM	1	24	20.37	20.47	20.47	20	3				
5	HQAM	12	0	19.26	19.37	19.21						
5	HQAM	12	7	19.18	19.14	19.12						
5	HQAM	25	0	17.14	17.37	17.04	18	5				
5	HQAM	12	13	19.23	19.22	19.19						
5	HQAM	25	0	17.45	17.45	17.45						
5	256QAM	1	0	17.45	17.45	17.45	18	5				
5	256QAM	1	12	17.39	17.40	17.39						
5	256QAM	1	24	17.37	17.42	17.43						
5	256QAM	12	0	17.15	17.33	17.17	18	5				
5	256QAM	12	7	17.09	17.18	17.06						
5	256QAM	12	13	17.21	17.13	17.09						
5	256QAM	25	0	17.30	17.20	17.24	18	5				
5	256QAM	25	0	17.30	17.20	17.24						
5	256QAM	25	0	17.30	17.20	17.24						

Band 41 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MFR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.86	21.71	21.58	21.84	23	0
20	QPSK	1	48	21.70	21.60	21.63	21.83		
20	QPSK	1	96	21.69	21.62	21.60	21.82		
20	QPSK	5	20	21.78	21.68	21.78	21.82	23	0
20	QPSK	5	24	21.75	21.66	21.76	21.81		
20	QPSK	5	28	21.72	21.63	21.73	21.79		
20	QPSK	10	0	21.85	21.75	21.65	21.80	22	1
20	QPSK	10	4	21.82	21.72	21.62	21.79		
20	QPSK	10	8	21.79	21.69	21.69	21.76		
20	16QAM	1	0	21.12	21.06	21.13	21.18	21	1
20	16QAM	1	48	21.06	21.01	21.08	21.12		
20	16QAM	1	96	21.11	21.03	21.04	21.10		
20	16QAM	5	0	21.75	21.64	21.77	21.80	21	2
20	16QAM	5	24	21.79	21.68	21.76	21.79		
20	16QAM	5	28	21.74	21.64	21.72	21.76		
20	16QAM	10	0	21.70	21.62	21.76	21.78	21	2
20	16QAM	10	4	21.68	21.59	21.66	21.74		
20	16QAM	10	8	21.65	21.56	21.62	21.70		
20	64QAM	1	48	20.90	19.92	19.93	20.96	21	2
20	64QAM	1	96	19.88	19.90	19.92	20.95		
20	64QAM	5	0	19.75	18.63	18.78	19.73		
20	64QAM	5	24	19.84	18.50	18.72	19.70	20	3
20	64QAM	5	28	19.83	18.52	18.74	19.68		
20	64QAM	10	0	19.69	18.50	18.71	19.76		
20	64QAM	10	4	19.64	18.33	18.97	17.73	18	5
20	256QAM	1	0	19.92	19.93	19.97	17.02		
20	256QAM	1	48	19.93	19.94	19.96	17.00		
20	256QAM	5	0	18.60	16.89	16.96	18.60	18	5
20	256QAM	5	24	18.72	16.96	16.97	18.70		
20	256QAM	5	28	18.69	16.90	16.92	18.68		
20	256QAM	10	0	18.50	16.50	16.72	18.65	18	5
20	256QAM	10	4	18.63	16.48	16.73	18.70		
20	256QAM	10	8	18.60	16.48	16.74	18.68		
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.84	21.73	21.60	21.88	23	0
20	QPSK	1	37	21.65	21.61	21.75	21.79		
20	QPSK	1	74	21.60	21.48	21.53	21.76		
20	QPSK	5	20	21.78	21.68	21.78	21.82	23	0
20	QPSK	5	24	21.75	21.66	21.76	21.81		
20	QPSK	5	28	21.72	21.63	21.73	21.79		
20	QPSK	10	0	21.85	21.75	21.65	21.80	22	1
20	QPSK	10	4	21.82	21.72	21.62	21.79		
20	QPSK	10	8	21.79	21.70	21.78	21.80		
20	16QAM	1	0	21.04	21.03	21.10	21.11	22	1
20	16QAM	1	48	21.08	21.03	21.12	21.15		
20	16QAM	1	96	21.09	21.03	21.01	21.10		
20	16QAM	5	0	21.67	21.57	21.71	21.77	21	2
20	16QAM	5	24	21.71	21.63	21.72	21.76		
20	16QAM	5	28	21.66	21.59	21.64	21.70		
20	16QAM	10	0	21.75	21.69	21.61	21.64	21	2
20	16QAM	10	4	21.72	21.66	21.67	21.70		
20	16QAM	10	8	21.69	21.62	21.65	21.69		
20	64QAM	1	37	19.98	19.87	20.03	20.07	20	0
20	64QAM	1	74	19.86	19.87	19.90	20.00		
20	64QAM	1	111	19.86	19.82	19.90	20.01		
20	64QAM	5	0	18.63	18.59	18.70	18.74	20	3
20	64QAM	5	24	18.50	18.37	18.62	18.66		
20	64QAM	5	28	18.54	18.42	18.58	18.64		
20	64QAM	10	0	18.43	18.38	18.68	18.70	18	5
20	256QAM	1	0	18.60	16.63	16.79	18.60		
20	256QAM	1	37	18.75	16.80	16.84	18.87		
20	256QAM	5	0	18.63	16.66	16.81	18.67	18	5
20	256QAM	5	24	18.50	16.39	16.66	18.55		
20	256QAM	5	28	18.56	16.48	16.66	18.62		
20	256QAM	10	0	18.52	16.48	16.71	18.58	18	5
20	256QAM	10	4	18.59	16.47	16.66	18.61		
20	256QAM	10	8	18.56	16.48	16.67	18.59		
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.84	21.68	21.65	21.96	23	0
20	QPSK	1	25	21.61	21.52	21.75	21.80		
20	QPSK	1	49	21.59	21.48	21.61	21.81		
20	QPSK	5	20	21.69	21.67	21.61	21.69	23	0
20	QPSK	5	24	21.66	21.60	21.62	21.69		
20	QPSK	5	28	21.63	21.57	21.60	21.64		
20	QPSK	10	0	21.86	21.70	21.79	21.81	22	1
20	QPSK	10	4	21.83	21.68	21.78	21.80		
20	QPSK	10	8	21.80	21.60	21.70	21.80		
20	16QAM	1	0	21.08	21.06	21.11	21.05	22	1
20	16QAM	1	48	21.09	21.06	21.12	21.10		
20	16QAM	1	96	21.10	21.04	21.14	21.09		
20	16QAM	5	0	21.64	21.54	21.67	21.69	21	2
20	16QAM	5	24	21.68	21.56	21.66	21.74		
20	16QAM	5	28	21.63	21.53	21.64	21.70		
20	16QAM	10	0	21.75	21.64	21.77	21.78	21	2
20	16QAM	10	4	21.72	21.62	21.74	21.76		
20	16QAM	10	8	21.69	21.59	21.70	21.74		
20	64QAM	1	0	20.03	19.83	19.99	20.05	20	0
20	64QAM	1	25	19.97	19.79	19.84	20.03		
20	64QAM	1	49	19.88	19.90	19.92	20.01		
20	64QAM	5	0	18.71	18.56	18.73	18.73	20	3
20	64QAM	5	24	18.42	18.40	18.67	18.63		
20	64QAM	5	28	18.49	18.42	18.62	18.52		
20	64QAM	10	0	18.36	18.43	18.64	18.64	18	5
20	256QAM	1	0	18.47	16.46	16.61	18.54		
20	256QAM	1	25	18.63	16.57	16.68	18.70		
20	256QAM	5	0	18.65	16.85	16.82	18.61	18	5
20	256QAM	5	24	18.48	16.66	16.66	18.63		
20	256QAM	5	28	18.54	16.46	16.64	18.52		
20	256QAM	10	0	18.59	16.47	16.66	18.66	18	5
20	256QAM	10	4	18.58	16.51	16.67	18.62		
20	256QAM	10	8	18.55	16.48	16.66	18.60		
Channel									
Frequency (MHz)									
20	QPSK	1	12	21.67	21.54	21.77	21.70	23	0
20	QPSK	1	24	21.64	21.56	21.69	21.73		
20	QPSK	1	36	21.61	21.52	21.65	21.69		
20	QPSK	12	0	20.82	20.78	20.84	20.86	23	0
20	QPSK	12	7	20.83	20.62	20.65	20.83		
20	QPSK	12	14	20.80	20.52	20.71	20.83		
20	16QAM	1	0	20.77	20.75	20.78	20.80	22	1
20	16QAM	1	7	20.80	20.68	20.79	21.13		
20	16QAM	1	13	20.82	20.68	21.04	21.14		
20	16QAM	12	0	20.77	20.63	20.92	21.09	21	2
20	16QAM	12	7	20.79	20.49	20.95	21.09		
20	16QAM	12	14	20.76	20.49	20.95	21.06		
20	64QAM	1	12	19.63	19.64	19.63	19.68	20	3
20	64QAM	1	24	19.61	19.52	19.62	19.68		
20	64QAM	1	36	19.60	19.51	19.61	19.66		
20	64QAM	12	0	19.59	19.48	19.69	19.68	18	5
20	64QAM	12	7	19.67	19.60	19.70	19.78		
20	64QAM	12	14	19.64	19.61	19.68	19.76		
20	256QAM	1	12	18.67	16.66	16.79	18.66	18	5
20	256QAM	1	24	18.69	16.68	16.79	18.68		
20	256QAM	1	36	18.68	16.69	16.81	18.69		
20	256QAM	12	0	18.61	16.63	16.81	18.66	18	5
20	256QAM	12	7	18.67	16.65	16.86	18.70		
20	256QAM	12	14	18.64	16.67	16.85	18.68		
20	256QAM	1	24	18.77	16.79	16.85	18.85	18	5
20	256QAM	1	36	18.82	16.82	16.88	18.82		
20	256QAM	1	48	18.86	16.86	16.92	18.84		
20	256QAM	12	7	18.81	16.83	16.91	18.86	18	5
20	256QAM	12	14	18.84	16.85	16.93	18.87		
20	256QAM	12	21	18.87	16.86	16.94	18.88		
20	256QAM	1	36	18.69	16.68	16.81	18.67	18	5
20	256QAM	1	48	18.72	16.70	16.82	18.71		
20	256QAM	1	60	18.75	16.73	16.85	18.74		
20	256QAM	12	13	18.80	16.81	16.89	18.83	18	5
20	256QAM	12	21	18.83	16.84	16.92	18.86		
20	256QAM	12	28	18.86	16.86	16.94	18.89		
20	256QAM	1	48	18.69	16.68	16.81	18.67	18	5
20	256QAM	1	60	18.72	16.70	16.82	18.71		
20	256QAM	1	72	18.75	16.73	16.85	18.74		
20	256QAM	12	13	18.80	16.81	16.89	18.83	18	5
20	256QAM	12	21	18.83	16.84	16.92	18.86		
20	256QAM	12	28	18.86	16.86	16.94	18.89		
20	256QAM	1	48	18.69	16.68	16.81	18.67	18	5
20	256QAM	1	60	18.72	16.70	16.82	18.71		
20	256QAM	1	72	18.75	16.73	16.85	18.74		
20	256QAM	12	13	18.80	16.81	16.89	18.83	18	5
20	256QAM	12	21	18.83	16.84	16.92	18.86		
20	256QAM	12	28	18.86	16.86	16.94	18.89		
20	256QAM	1	48	18.69	16.68	16.81	18.67	18	5
20	256QAM	1	60	18.72	16.70	16.82	18.71		
20	256QAM	1	72	18.75	16.73	16.85	18.74		
20	256QAM	12	13	18.80	16.81	16.89	18.83	18	5
20	256QAM	12	21	18.83	16.84	16.92	18.86		
20	256QAM	12	28	18.86	16.86	16.			



Band 2 Ant 1											
BW (MHz)	Modulation	RB Size	RB Offset	Power (mW)	Power (mW)	Power (mW)	Power (mW)	Turn-up (dB)	MRR (dB)		
Channel	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.
1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
20	QPSK	1	0	22.25	22.27	22.28			24	0	
20	QPSK	1	49	22.25	22.24	22.27					
20	QPSK	1	99	22.08	22.08	22.19			23	1	
20	QPSK	50	0	21.27	21.42	21.27					
20	QPSK	1	21.08	21.08	21.08	21.08			23	1	
20	QPSK	50	21.08	21.08	21.08	21.08					
20	QPSK	100	0	21.24	21.40	21.21			23	1	
20	QPSK	1	49	21.54	21.70	21.52					
20	QPSK	1	99	21.48	21.61	21.49			22	2	
20	QPSK	50	0	20.20	20.20	20.14					
20	QPSK	50	24	20.21	20.34	20.06			21	3	
20	QPSK	50	50	20.08	20.08	20.16					
20	QPSK	100	0	20.09	20.21	20.32			22	2	
20	QPSK	1	0	20.38	20.52	20.52					
20	QPSK	1	49	20.37	20.45	20.42			21	3	
20	QPSK	1	99	20.25	20.29	20.40					
20	QPSK	50	0	19.15	19.15	19.21			21	3	
20	QPSK	50	24	19.15	19.16	19.21					
20	QPSK	50	50	19.15	19.16	19.12			22	2	
20	QPSK	100	0	19.13	19.14	19.27					
20	QPSK	1	49	17.43	17.42	17.40			19	5	
20	QPSK	1	99	17.37	17.42	17.43					
20	QPSK	50	0	17.36	17.37	17.36			19	5	
20	QPSK	50	24	17.21	17.17	17.23					
20	QPSK	50	50	17.17	17.14	17.25			19	5	
20	QPSK	100	0	17.20	17.20	17.20					
1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
15	QPSK	1	0	22.15	22.23	22.18			24	0	
15	QPSK	1	8	22.17	22.07	22.11					
15	QPSK	1	74	22.05	22.16	22.05			23	1	
15	QPSK	36	0	21.10	21.41	21.20					
15	QPSK	36	24	21.08	21.20	21.10			23	1	
15	QPSK	36	99	21.03	21.15	21.05					
15	QPSK	75	0	21.21	21.22	21.20			23	1	
15	QPSK	75	0	21.42	21.55	21.41					
15	QPSK	1	37	21.34	21.59	21.37			23	1	
15	QPSK	1	99	21.27	21.43	21.40					
15	QPSK	36	0	20.13	20.23	20.16			22	2	
15	QPSK	36	20	20.02	20.21	20.01					
15	QPSK	36	50	20.02	20.03	20.02			22	2	
15	QPSK	75	0	20.11	20.13	20.15					
15	QPSK	1	0	20.31	20.43	20.47			21	3	
15	QPSK	1	99	20.22	20.27	20.38					
15	QPSK	1	74	20.23	20.34	20.32			21	3	
15	QPSK	36	0	19.13	19.12	19.05					
15	QPSK	36	99	19.08	19.08	19.08			19	5	
15	QPSK	36	20	19.10	19.05	19.01					
15	QPSK	75	0	19.08	19.06	19.08			19	5	
15	QPSK	75	0	17.38	17.38	17.34					
15	QPSK	1	37	17.32	17.36	17.13			19	5	
15	QPSK	1	74	17.36	17.29	17.31					
15	QPSK	36	0	17.34	17.32	17.36			19	5	
15	QPSK	36	20	17.33	17.30	17.15					
15	QPSK	36	99	17.64	17.65	17.67			19	5	
15	QPSK	75	0	17.64	17.64	17.68					
1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
10	QPSK	1	0	22.15	22.23	22.18			24	0	
10	QPSK	1	8	22.15	22.09	22.10					
10	QPSK	1	49	22.03	22.07	22.07			23	1	
10	QPSK	25	0	21.05	21.26	21.10					
10	QPSK	25	12	21.05	21.26	21.10			23	1	
10	QPSK	25	25	21.03	21.05	21.10					
10	QPSK	1	0	21.50	21.52	21.42			23	1	
10	QPSK	1	25	21.42	21.48	21.43					
10	QPSK	1	25	21.44	21.46	21.45			22	2	
10	QPSK	25	0	20.11	20.21	20.10					
10	QPSK	25	12	20.05	20.18	20.18			22	2	
10	QPSK	25	25	20.02	20.07	20.04					
10	QPSK	50	0	20.14	20.11	20.21			22	2	
10	QPSK	50	0	20.38	20.38	20.48					
10	QPSK	1	49	20.25	20.37	20.47			21	3	
10	QPSK	1	49	20.14	20.30	20.35					
10	QPSK	25	0	19.12	19.12	19.08			21	3	
10	QPSK	25	0	19.08	19.15	19.15					
10	QPSK	50	0	19.11	19.04	19.11			19	5	
10	QPSK	50	0	19.04	19.08	19.09					
10	QPSK	25	0	17.37	17.38	17.40			19	5	
10	QPSK	25	12	17.32	17.37	17.32					
10	QPSK	25	49	17.34	17.36	17.34			19	5	
10	QPSK	25	12	17.22	17.20	17.11					
10	QPSK	25	12	17.14	17.15	17.06			19	5	
10	QPSK	25	25	17.12	17.26	17.09					
10	QPSK	50	0	17.60	17.61	17.63			19	5	
10	QPSK	50	0	17.60	17.61	17.63					
1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
5	QPSK	1	0	22.15	22.23	22.18			24	0	
5	QPSK	1	12	22.05	22.12	22.10					
5	QPSK	1	24	22.07	22.12	22.00			23	1	
5	QPSK	1	14	21.14	21.41	21.25					
5	QPSK	12	7	21.16	21.17	21.11			23	1	
5	QPSK	12	13	21.06	21.14	21.11					
5	QPSK	1	0	21.48	21.63	21.41			23	1	
5	QPSK	1	12	21.45	21.58	21.37					
5	QPSK	1	14	21.41	21.55	21.41			22	2	
5	QPSK	12	7	20.07	20.24	20.05					
5	QPSK	12	7	20.03	20.23	20.25			22	2	
5	QPSK	12	13	20.02	20.10	20.08					
5	QPSK	25	0	20.02	20.15	20.14			21	3	
5	QPSK	25	0	20.27	20.46	20.38					
5	QPSK	1	0	20.24	20.39	20.38			22	2	
5	QPSK	1	24	20.20	20.26	20.34					
5	QPSK	12	0	19.12	19.21	19.08			21	3	
5	QPSK	12	0	19.08	19.15	19.15					
5	QPSK	12	13	19.03	19.07	19.00			19	5	
5	QPSK	25	0	18.11	18.01	18.15					
5	QPSK	25	0	17.38	17.38	17.40			19	5	
5	QPSK	25	12	17.32	17.37	17.32					
5	QPSK	1	24	17.30	17.31	17.26			19	5	
5	QPSK	12	0	17.11	17.14	17.00					
5	QPSK	12	7	17.08	17.02	17.08			19	5	
5	QPSK	12	13	17.06	17.09	17.00					
5	QPSK	25	0	17.60	17.61	17.60			19	5	
5	QPSK	25	0	17.60	17.61	17.63					
1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
3	QPSK	1	0	22.21	22.21	22.24			24	0	
3	QPSK	1	8	22.10	22.06	22.20					
3	QPSK	1	3	22.07	22.11	22.05			23	1	
3	QPSK	8	0	21.12	21.32	21.27					
3	QPSK	8	0	21.11	21.23	21.20			23	1	
3	QPSK	16	0	21.02	21.08	21.03					
3	QPSK	16	0	21.13	21.32	21.17			23	1	
3	QPSK	1	0	21.44	21.46	21.43					
3	QPSK	8	0	20.11	20.21	20.10			23	1	
3	QPSK	8	0	20.08	20.22	20.09					
3	QPSK	16	0	20.03	20.13	20.01			22	2	
3	QPSK	16	0	20.04	20.21	20.03					
3	QPSK	16	0	20.02	20.12	20.03			21	3	
3	QPSK	16	0	20.04	20.14	20.07					
3	QPSK	1	8	20.25	20.30	20.34			22	2	
3	QPSK	1	14	20.13	20.21	20.26					
3	QPSK	8	0	19.18	19.18	19.18			21	3	
3	QPSK	8	0	19.05	19.08	19.11					
3	QPSK	16	0	19.03	19.03	19.03			19	5	
3	QPSK	16	0	19.05	19.05	19.03					
3	QPSK	1	0	17.37	17.36	17.39			19	5	
3	QPSK	1	14	17.27	17.24	17.30					
3	QPSK	8	0	17.32	17.32	17.32			19	5	
3	QPSK	8	0	17.06	17.11	17.08					
3	QPSK	16	0	17.06	17.06	17.06			19	5	
3	QPSK	16	0	17.07	17.07	17.07					
3	QPSK	16	0	17.08	17.08	17.08					
1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
1.4	QPSK	1	0	22.15	22.23	22.23			24	0	
1.4	QPSK	1	8	22.09	22.20	22.20					



Band 38 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MFR (dB)	
Channel									
Frequency (MHz)				37850	38050	38150			
20	QPSK	1	0	22.76	22.84	22.86			
20	QPSK	1	48	22.84	22.87	22.84	24	0	
20	QPSK	1	88	22.86	22.92	22.90			
20	QPSK	50	0	21.64	21.52	21.70			
20	QPSK	50	24	21.58	21.74	21.59	23	1	
20	QPSK	50	48	21.50	21.63	21.68			
20	QPSK	100	0	21.73	21.79	21.72			
20	HQAM	1	0	21.56	22.07	22.07	23	1	
20	HQAM	1	48	21.58	22.10	21.91			
20	HQAM	1	96	21.86	22.04	21.96			
20	HQAM	50	24	20.54	20.76	20.64			
20	HQAM	50	48	20.52	20.68	20.61	22	2	
20	HQAM	100	0	20.67	20.85	20.82			
20	HQAM	1	0	20.57	20.55	20.52			
20	HQAM	1	48	20.78	20.89	20.80	22	2	
20	HQAM	1	96	20.71	20.85	20.74			
20	HQAM	50	0	19.50	19.72	19.63			
20	HQAM	50	24	19.53	19.65	19.52	21	3	
20	HQAM	50	50	19.52	19.59	19.57			
20	HQAM	100	0	19.59	19.65	19.65			
20	25QAM	1	0	17.79	17.85	17.83			
20	25QAM	1	48	17.84	17.89	17.75	19	5	
20	25QAM	1	96	17.77	17.83	17.78			
20	25QAM	50	0	17.57	17.73	17.68			
20	25QAM	50	24	17.52	17.58	17.40	19	5	
20	25QAM	50	50	17.40	17.55	17.51			
20	25QAM	100	0	17.50	17.55	17.50			
Channel									
Frequency (MHz)				37825	38025	38175	Turn-up time (dBm)	MFR (dB)	
15	QPSK	1	12	22.74	22.75	22.72			
15	QPSK	1	37	22.82	22.89	22.82	24	0	
15	QPSK	1	74	22.82	22.84	22.45			
15	QPSK	36	0	21.60	21.71	21.68			
15	QPSK	36	20	21.49	21.65	21.53	23	1	
15	QPSK	36	36	21.47	21.70	21.70			
15	QPSK	75	0	21.62	21.70	21.70			
15	HQAM	1	0	21.83	22.01	22.06			
15	HQAM	1	37	21.82	22.04	21.93	23	1	
15	HQAM	1	74	21.84	22.03	21.91			
15	HQAM	36	0	20.68	20.65	20.56			
15	HQAM	36	20	20.67	20.68	20.55	22	2	
15	HQAM	36	36	20.43	20.68	20.59			
15	HQAM	75	0	20.62	20.60	20.59			
15	HQAM	75	20	20.54	20.64	20.58			
15	HQAM	1	37	20.75	20.97	20.88	22	2	
15	HQAM	74	24	20.67	20.75	20.84			
15	HQAM	36	0	19.50	19.65	19.51	21	3	
15	HQAM	36	20	19.43	19.60	19.44			
15	HQAM	36	36	19.51	19.61	19.54			
15	HQAM	75	0	19.50	19.55	19.45			
15	25QAM	1	0	17.71	17.82	17.82			
15	25QAM	1	37	17.77	17.77	17.77	19	5	
15	25QAM	1	74	17.77	17.77	17.77			
15	25QAM	36	0	17.53	17.62	17.53			
15	25QAM	36	20	17.54	17.63	17.65	19	5	
15	25QAM	36	36	17.48	17.51	17.42			
15	25QAM	75	0	17.56	17.54	17.47			
Channel									
Frequency (MHz)				2471	2476	2478	Turn-up time (dBm)	MFR (dB)	
10	QPSK	1	0	22.67	22.70	22.67	24	0	
10	QPSK	1	25	22.56	22.57	22.42			
10	QPSK	1	48	22.40	22.40	22.40			
10	QPSK	1	87	22.37	22.35	22.35	23	1	
10	QPSK	25	12	21.47	21.73	21.46			
10	QPSK	25	25	21.60	21.52	21.38			
10	QPSK	50	0	21.85	21.85	22.00			
10	HQAM	1	0	21.88	21.86	22.00	23	1	
10	HQAM	1	25	21.86	22.03	21.81			
10	HQAM	1	48	21.85	21.89	21.84			
10	HQAM	25	0	20.65	20.69	20.45	22	2	
10	HQAM	25	12	20.44	20.74	20.48			
10	HQAM	25	25	20.42	20.56	20.59			
10	HQAM	50	0	20.61	20.55	20.59			
10	HQAM	50	12	20.62	20.68	20.60			
10	HQAM	50	25	20.76	20.58	20.83	22	2	
10	HQAM	1	48	20.61	20.75	20.82			
10	HQAM	25	0	19.53	19.64	19.60	21	3	
10	HQAM	25	12	19.51	19.52	19.41			
10	HQAM	25	25	19.51	19.54	19.53			
10	HQAM	50	0	19.54	19.64	19.51			
10	25QAM	1	0	17.67	17.80	17.77			
10	25QAM	1	25	17.79	17.76	17.75	19	5	
10	25QAM	1	48	17.76	17.77	17.71			
10	25QAM	25	0	17.54	17.65	17.53			
10	25QAM	25	12	17.54	17.67	17.50	19	5	
10	25QAM	25	25	17.54	17.47	17.42			
10	25QAM	50	0	17.59	17.65	17.50			
Channel									
Frequency (MHz)				2517.5	2516	2517.5	Turn-up time (dBm)	MFR (dB)	
5	QPSK	1	0	22.65	22.75	22.68	24	0	
5	QPSK	1	12	22.54	22.57	22.51			
5	QPSK	1	24	22.42	22.55	22.47			
5	QPSK	12	0	21.60	21.76	21.75	23	1	
5	QPSK	12	7	21.52	21.67	21.68			
5	QPSK	12	13	21.56	21.57	21.43			
5	QPSK	25	0	21.86	21.73	21.67			
5	HQAM	1	0	21.88	22.03	22.04	23	1	
5	HQAM	1	12	21.80	22.05	21.82			
5	HQAM	1	24	21.76	21.96	21.86			
5	HQAM	12	0	20.64	20.71	20.55	22	2	
5	HQAM	12	7	20.47	20.65	20.44			
5	HQAM	12	13	20.52	20.65	20.56			
5	HQAM	25	0	20.66	20.68	20.55			
5	HQAM	1	0	20.63	20.80	20.81	22	2	
5	HQAM	1	12	20.69	20.81	20.83			
5	HQAM	1	24	20.69	20.79	20.83			
5	HQAM	12	0	19.48	19.56	19.42	21	3	
5	HQAM	12	7	19.47	19.51	19.42			
5	HQAM	12	13	19.61	19.56	19.47			
5	HQAM	25	0	19.56	19.58	19.50			
5	HQAM	25	12	19.70	19.76	19.72			
5	25QAM	1	12	17.79	17.83	17.70	19	5	
5	25QAM	1	24	17.77	17.81	17.77			
5	25QAM	12	0	17.46	17.62	17.51			
5	25QAM	12	13	17.59	17.59	17.40	19	5	
5	25QAM	25	0	17.54	17.60	17.49			

Band 41 Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Turn-up time (dBm)	MFR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
20	QPSK	1	0	23.34	23.43	23.31	23.34	23.15		
20	QPSK	1	48	23.27	23.31	23.10	23.10	23.07	24	0
20	QPSK	1	96	23.13	23.37	23.30	23.11	23.09		
20	QPSK	50	0	22.28	22.30	22.19	22.30	22.28		
20	QPSK	50	24	22.16	22.31	22.63	22.14	22.10	23	1
20	QPSK	50	48	22.15	22.26	22.26	22.15	22.13		
20	QPSK	100	0	22.33	22.42	22.18	22.34	22.32		
20	16QAM	1	0	22.81	22.70	22.42	22.64	22.48	23	1
20	16QAM	1	48	22.80	22.61	22.39	22.54	22.45		
20	16QAM	1	96	22.47	22.81	22.46	22.57	22.44		
20	16QAM	50	0	21.19	21.30	21.11	21.16	21.10		
20	16QAM	50	24	21.13	21.28	21.13	21.24	21.09	22	2
20	16QAM	50	50	21.15	21.13	21.01	21.10	21.04		
20	16QAM	100	0	21.22	21.26	21.07	21.16	21.07		
20	16QAM	100	0	21.42	21.55	21.34	21.43	21.41		
20	16QAM	1	48	21.40	21.47	21.33	21.43	21.38	22	2
20	16QAM	1	96	21.32	21.40	21.28	21.31	21.43		
20	16QAM	50	0	20.27	20.29	20.10	20.10	20.09		
20	16QAM	50	24	20.19	20.25	20.02	20.15	20.03	21	3
20	16QAM	50	50	20.10	20.11	20.08	20.04	19.99		
20	16QAM	100	0	20.12	20.23	20.07	20.08	19.97		
20	25QAM	1	0	18.46	18.46	18.31	18.37	18.33		
20	25QAM	1	48	18.39	18.46	18.31	18.35	18.34	19	5
20	25QAM	1	96	18.40	18.39	18.29	18.38	18.36		
20	25QAM	50	0	18.16	18.34	18.12	18.19	18.06		
20	25QAM	50	24	18.07	18.18	17.97	18.05	17.97	19	5
20	25QAM	50	50	18.15	18.20	18.09	18.04	18.02		
20	25QAM	100	0	18.20	18.15	18.01	18.15	18.01		
Channel										
Frequency (MHz)				39725	40173	40620	41058	41515	Turn-up time (dBm)	MFR (dB)
15	QPSK	1	0	23.25	23.3	23.1	23.24	23.01		
15	QPSK	1	37	23.19	23.25	22.88	23.11	22.95	24	0
15	QPSK	1	74	23.08	23.24	22.80	22.96	22.81		
15	QPSK	25	0	22.27	22.33	22.12	22.33	22.20		
15	QPSK	25	12	22.03	22.23	21.80	22.01	21.60	23	1
15	QPSK	25	39	22.03	22.23	21.80	22.01	21.60		
15	QPSK	75	0	22.23	22.38	22.10	22.37	22.08		
15	16QAM	1	0	22.52	22.67	22.39	22.53	22.38		
15	16QAM	1	48	22.54	22.51	22.43	22.49	22.38	23	1
15	16QAM	1	74	22.38	22.58	22.42	22.56	22.31		
15	16QAM	25	0	21.10	21.27	21.05	21.06	21.10		
15	16QAM	25	12	21.06	21.15	21.03	21.10	21.03	22	2
15	16QAM	25	39	21.04	21.10	20.98	21.02	21.01		
15	16QAM	75	0	21.10	21.15	21.03	21.10	21.03		
15	16QAM	75	0	21.30	21.51	21.24	21.39	21.32		
15	16QAM	1	37	21.21	21.41	21.30	21.37	21.33	22	2
15	16QAM	1	74	21.33	21.31	21.23	21.31	21.31		
15	16QAM	25	0	20.20	20.21	20.03	20.14	19.95		
15	16QAM	25	12	20.12	20.16	19.95	20.07	19.90	21	3
15	16QAM	25	39	20.08	20.03	19.90	19.97	19.89		
15	16QAM	75	0	20.03	20.12	19.95	20.03	19.94		
15	25QAM	1	0	18.42	18.42	18.27	18.32	18.25		
15	25QAM	1	37	18.36	18.42	18.17	18.22	18.15	19	5
15	25QAM	1	74	18.34	18.30	18.18	18.21	18.23		
15	25QAM	25	0	17.92	18.05	17.86	17.98	17.86		
15	25QAM	25	12	17.98	18.16	17.89	18.03	17.95	19	5
15	25QAM	25	39	18.07	18.17	18.05	17.96	17.97		
15	25QAM	75	0	18.12	18.11	18.01	18.01	17.93		
Channel										
Frequency (MHz)				39750	40185	40620	41058	41565	Turn-up time (dBm)	MFR (dB)
10	QPSK	1	0	23.33	23.47	23.31	23.31	23.12		
10	QPSK	1	25	23.24	23.24	23.07	23.07	22.95	24	0
10	QPSK	1	50	23.09	23.29	23.19	23.19	23.04		
10	QPSK	25	0	22.27	22.29	22.13	22.29	22.14		
10	QPSK	25	12	22.08	22.24	21.86	22.12	22.02	23	1
10	QPSK	25	39	22.13	22.29	21.86	22.02	21.96		
10	QPSK	50	0	22.30	22.29	22.14	22.23	22.08		
10	16QAM	1	0	22.54	22.63	22.38	22.56	22.38		
10	16QAM	1	25	22.46	22.47	22.44	22.49	22.33	23	1
10	16QAM	1	49	22.34	22.49	22.38	22.47	22.38		
10	16QAM	25	0	21.08	21.18	21.06	21.11	21.05		
10	16QAM	25	12	21.02	21.28	21.03	21.24	21.04	22	2
10	16QAM	25	25	21.18	21.10	20.90	21.01	20.82		
10	16QAM	50	0	21.23	21.06	20.90	21.02	21.02		
10	16QAM	1	0	21.34	21.45	21.28	21.38	21.27		
10	16QAM	1	25	21.35	21.43	21.31	21.37	21.29	22	2
10	16QAM	1	49	21.30	21.38	21.21	21.31	21.23		
10	16QAM	25	0	20.15	20.18	20.02	20.07	20.04		
10	16QAM	25	12	20.11	20.14	19.95	20.07	19.94	21	3
10	16QAM	25	25	20.11	20.04	19.91	19.98	19.91		
10	16QAM	50	0	20.03	20.19	19.98	19.98	19.92		
10	25QAM	1	0	18.37	18.43	18.17	18.22	18.09		
10	25QAM	1	25	18.33	18.37	18.26	18.20	18.16	19	5
10	25QAM	1	49	18.38	18.35	18.26	18.26	18.16		
10	25QAM	25	0	17.93	18.02	17.85	17.96	17.85		
10	25QAM	25	12	17.95	18.10	17.83	18.06	17.90	19	5
10	25QAM	25	25	18.13	18.15	18.05	17.97	17.93		
10	25QAM	50	0	18.20	18.08	17.91	18.01	17.91		
Channel										
Frequency (MHz)				39675	40146	40620	41058	41565	Turn-up time (dBm)	MFR (dB)
5	QPSK	1	0	23.36	23.58	23.13	23.24	23.12		
5	QPSK	1	12	23.18	23.22	23.02	23.14	22.95	24	0
5	QPSK	1	24	23.06	23.22	22.98	23.07	22.87		
5	QPSK	12	0	22.21	22.26	22.11	22.20	22.10		
5	QPSK	12	7	22.13	22.25	22.08	22.08	22.03	23	1
5	QPSK	25	0	22.26	22.27	22.11	22.24	22.09		
5	16QAM	1	0	22.57	22.63	22.33	22.59	22.39		
5	16QAM	1	12	22.43	22.47	22.44	22.49	22.33	23	1
5	16QAM	1	24	22.39	22.57	22.40	22.49	22.32		
5	16QAM	12	0	21.06	21.14	21.06	21.11	21.02		
5	16QAM	12	7	21.06	21.09	21.06	21.18	21.01	22	2
5	16QAM	12	13	21.08	21.07	20.87	21.08	20.91		
5	16QAM	25	0	21.18	21.14	21.03	21.13	21.08		
5	16QAM	1	0	21.30	21.47	21.31	21.36	21.26		
5	16QAM	1	12	21.20	21.39	21.30	21.40	21.31	21	3
5	16QAM	1	24	21.39	21.37	21.21	21.31	21.36		
5	16QAM	12	0	20.25	20.24	19.97	20.19	20.03		
5	16QAM	12	7	20.09	20.12	19.99	20.11	20.06	21	3
5	16QAM	12	13	20.09	20.08	19.91	20.09	19.97		
5	16QAM	25	0	20.03	20.21	20.01	20.04	19.91		
5	25QAM	1	0	18.41	18.46	18.17	18.23	18.13		
5	25QAM	1	12	18.38	18.32	18.22	18.31	18.18	19	5
5	25QAM	1	24	18.29	18.34	18.18	18.22	18.16		
5	25QAM	12	0	18.09	18.15	18.01	18.01	17.91		
5	25QAM	12	7	17.94	18.15	17.89	17.97	17.85	19	5
5	25QAM	12	13	18.07	18.09	18.00	17.96	17.91		
5	25QAM	25	0	18.17	18.08	17.91	18.01	17.91		



Band 38 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)				37850	38050	38150			
20	QPSK	1	0	22.57	22.63	22.61	24	0	
20	QPSK	1	48	22.44	22.48	22.39			
20	QPSK	1	96	22.36	22.47	22.38			
20	QPSK	50	0	21.57	21.58	21.61	23	1	
20	QPSK	50	24	21.41	21.53	21.39			
20	QPSK	50	48	21.71	21.67	21.66			
20	HQAM	100	0	21.52	21.55	21.56	23	1	
20	HQAM	1	0	21.58	21.67	21.78			
20	HQAM	1	48	21.71	21.67	21.66			
20	HQAM	1	96	21.74	21.84	21.76	22	2	
20	HQAM	50	0	20.47	20.50	20.38			
20	HQAM	50	24	20.35	20.51	20.37			
20	HQAM	50	50	20.28	20.42	20.34	22	2	
20	HQAM	100	0	20.44	20.49	20.50			
20	HQAM	1	0	20.55	20.52	20.52			
20	HQAM	1	48	20.58	20.71	20.76	22	2	
20	HQAM	1	96	20.52	20.58	20.70			
20	HQAM	50	0	19.48	19.53	19.45			
20	HQAM	50	24	19.34	19.48	19.35	21	3	
20	HQAM	50	50	19.41	19.33	19.35			
20	HQAM	100	0	19.35	19.45	19.27			
20	256QAM	1	0	17.87	17.85	17.70	19	5	
20	256QAM	1	48	17.75	17.79	17.68			
20	256QAM	1	96	17.65	17.58	17.62			
20	256QAM	50	0	17.42	17.44	17.41	19	5	
20	256QAM	50	24	17.38	17.33	17.32			
20	256QAM	50	50	17.35	17.44	17.32			
Channel									
Frequency (MHz)				37850	38050	38175	Tune-up limit (dBm)	MFR (dB)	
15	QPSK	1	0	22.73	22.74	22.73	24	0	
15	QPSK	1	37	22.38	22.39	22.34			
15	QPSK	1	74	22.28	22.38	22.35			
15	QPSK	36	0	21.55	21.60	21.58	23	1	
15	QPSK	36	20	21.35	21.41	21.36			
15	QPSK	36	36	21.45	21.56	21.47			
15	HQAM	1	0	21.59	21.54	21.48	23	1	
15	HQAM	1	37	21.46	21.51	21.61			
15	HQAM	1	74	21.65	21.75	21.72			
15	HQAM	36	0	20.40	20.42	20.27	22	2	
15	HQAM	36	20	20.32	20.35	20.25			
15	HQAM	36	36	20.26	20.33	20.31			
15	HQAM	75	0	20.44	20.40	20.27	22	2	
15	HQAM	75	0	19.38	19.50	19.35			
15	HQAM	1	37	20.54	20.59	20.69			
15	HQAM	1	74	20.51	20.62	20.66	21	3	
15	HQAM	36	0	19.38	19.50	19.35			
15	HQAM	36	20	19.29	19.49	19.35			
15	HQAM	75	0	19.51	19.57	19.55	19	5	
15	256QAM	1	0	17.57	17.61	17.66			
15	256QAM	1	37	17.52	17.59	17.57			
15	256QAM	1	74	17.57	17.49	17.50	19	5	
15	256QAM	36	0	17.38	17.38	17.25			
15	256QAM	36	20	17.42	17.34	17.27			
15	256QAM	36	36	17.34	17.36	17.23	19	5	
15	256QAM	75	0	17.40	17.41	17.28			
Channel									
Frequency (MHz)				37850	38050	38050	Tune-up limit (dBm)	MFR (dB)	
10	QPSK	1	0	22.61	22.61	22.61	24	0	
10	QPSK	1	25	22.29	22.34	22.38			
10	QPSK	1	48	22.30	22.45	22.28			
10	QPSK	25	0	21.52	21.61	21.52	23	1	
10	QPSK	25	12	21.32	21.44	21.37			
10	QPSK	25	25	21.30	21.29	21.32			
10	HQAM	1	0	21.78	21.67	21.70	23	1	
10	HQAM	1	25	21.41	21.60	21.65			
10	HQAM	1	48	21.71	21.79	21.73			
10	HQAM	25	0	20.46	20.49	20.34	22	2	
10	HQAM	25	12	20.38	20.44	20.35			
10	HQAM	25	25	20.38	20.33	20.38			
10	HQAM	50	0	20.41	20.45	20.34	22	2	
10	HQAM	50	0	19.45	19.45	19.35			
10	HQAM	50	25	20.52	20.67	20.66			
10	HQAM	1	48	20.58	20.62	20.62	21	3	
10	HQAM	25	0	19.44	19.43	19.30			
10	HQAM	25	12	19.27	19.40	19.29			
10	HQAM	25	25	19.32	19.26	19.35	19	5	
10	HQAM	50	0	19.31	19.34	19.20			
10	HQAM	50	17	17.64	17.59	17.64			
10	256QAM	1	0	17.53	17.64	17.39	19	5	
10	256QAM	1	48	17.55	17.59	17.55			
10	256QAM	25	0	17.31	17.36	17.25			
10	256QAM	25	12	17.35	17.31	17.19	19	5	
10	256QAM	25	25	17.31	17.42	17.23			
10	256QAM	50	0	17.40	17.35	17.33			
Channel									
Frequency (MHz)				37775	38050	38225	Tune-up limit (dBm)	MFR (dB)	
5	QPSK	1	0	22.65	22.68	22.63	24	0	
5	QPSK	1	12	22.45	22.35	22.37			
5	QPSK	1	24	22.28	22.49	22.39			
5	QPSK	12	0	21.45	21.66	21.67	23	1	
5	QPSK	12	7	21.34	21.49	21.30			
5	QPSK	12	13	21.31	21.29	21.30			
5	HQAM	1	0	21.75	21.63	21.76	23	1	
5	HQAM	1	12	21.59	21.86	21.62			
5	HQAM	1	24	21.64	21.63	21.76			
5	HQAM	12	0	20.45	20.47	20.38	22	2	
5	HQAM	12	7	20.28	20.44	20.34			
5	HQAM	12	13	20.26	20.41	20.32			
5	HQAM	25	0	20.38	20.47	20.25	22	2	
5	HQAM	25	0	20.60	20.61	20.77			
5	HQAM	25	7	20.50	20.67	20.76			
5	HQAM	1	24	20.56	20.66	20.64	21	3	
5	HQAM	12	0	19.44	19.42	19.34			
5	HQAM	12	7	19.28	19.38	19.31			
5	HQAM	12	13	19.41	19.52	19.24	19	5	
5	HQAM	25	0	19.35	19.43	19.18			
5	HQAM	25	7	17.58	17.65	17.58			
5	256QAM	1	0	17.53	17.63	17.47	19	5	
5	256QAM	1	24	17.54	17.63	17.60			
5	256QAM	12	0	17.37	17.33	17.28			
5	256QAM	12	7	17.38	17.32	17.23	19	5	
5	256QAM	12	13	17.37	17.38	17.29			
5	256QAM	25	0	17.37	17.42	17.37			

Band 41 Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Turn-up limit (dBm)	MFR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
15	QPSK	1	0	22.68	22.68	22.53	22.72	22.58	24	0
15	QPSK	1	48	22.57	22.45	22.63	22.60	22.44		
15	QPSK	1	96	22.50	22.40	22.55	22.73	22.49		
15	QPSK	50	0	21.68	21.61	21.61	21.75	21.65	23	1
15	QPSK	50	24	21.60	21.56	21.72	21.58	21.44		
15	QPSK	50	48	21.57	21.53	21.57	21.60	21.52		
15	QPSK	100	0	21.71	21.63	21.61	21.68	21.60	23	1
15	16QAM	1	0	21.93	21.91	22.08	22.00	21.88		
15	16QAM	1	48	21.91	21.80	21.97	21.85	21.82		
15	16QAM	1	96	21.97	21.82	22.10	21.95	21.80	22	2
15	16QAM	50	24	20.62	20.56	20.71	20.55	20.47		
15	16QAM	50	24	20.63	20.60	20.70	20.52	20.41		
15	16QAM	50	50	20.50	20.50	20.57	20.50	20.51	22	2
15	16QAM	100	0	20.52	20.57	20.56	20.60	20.47		
15	16QAM	1	0	20.95	20.87	21.04	20.96	20.88	21	3
15	16QAM	1	48	20.94	20.72	20.86	20.88	20.75		
15	16QAM	1	96	20.78	20.76	20.93	20.83	20.72		
15	16QAM	50	50	19.58	19.55	19.71	19.54	19.46	21	3
15	16QAM	50	24	19.47	19.55	19.67	19.42	19.38		
15	16QAM	50	24	19.49	19.62	19.68	19.39	19.34		
15	16QAM	100	0	19.48	19.47	19.66	19.46	19.41	20	5
15	256QAM	1	0	17.71	17.81	17.86	17.81	17.71		
15	256QAM	1	48	17.74	17.79	17.77	17.72	17.67		
15	256QAM	1	96	17.63	17.77	17.77	17.80	17.70	19	5
15	256QAM	50	24	17.52	17.64	17.61	17.58	17.47		
15	256QAM	50	24	17.48	17.55	17.51	17.33	17.30		
15	256QAM	50	50	17.47	17.54	17.55	17.58	17.47	19	5
15	256QAM	100	0	17.56	17.58	17.67	17.60	17.43		
Channel				39720	40173	40620	41058	41515		
Frequency (MHz)				39720 <th>40173<th>40620<th>41058<th>41515<th>Turn-up limit (dBm)</th><th>MFR (dB)</th></th></th></th></th>	40173 <th>40620<th>41058<th>41515<th>Turn-up limit (dBm)</th><th>MFR (dB)</th></th></th></th>	40620 <th>41058<th>41515<th>Turn-up limit (dBm)</th><th>MFR (dB)</th></th></th>	41058 <th>41515<th>Turn-up limit (dBm)</th><th>MFR (dB)</th></th>	41515 <th>Turn-up limit (dBm)</th> <th>MFR (dB)</th>	Turn-up limit (dBm)	MFR (dB)
15	QPSK	1	0	22.60	22.67	22.53	22.74	22.49	24	0
15	QPSK	1	48	22.49	22.48	22.59	22.55	22.35		
15	QPSK	1	96	22.48	22.40	22.51	22.43	22.31		
15	QPSK	50	0	21.55	21.48	21.61	21.68	21.65	23	1
15	QPSK	50	24	21.53	21.53	21.68	21.42	21.33		
15	QPSK	50	48	21.53	21.53	21.57	21.44	21.38		
15	QPSK	75	0	21.68	21.61	21.77	21.65	21.49	23	1
15	16QAM	1	0	21.97	21.83	21.98	21.89	21.83		
15	16QAM	1	48	21.80	21.68	21.87	21.79	21.74		
15	16QAM	1	96	21.92	21.69	22.00	21.91	21.74	22	2
15	16QAM	50	24	20.51	20.40	20.58	20.42	20.44		
15	16QAM	50	24	20.50	20.52	20.60	20.48	20.38		
15	16QAM	50	50	20.49	20.40	20.55	20.50	20.45	22	2
15	16QAM	100	0	20.51	20.56	20.55	20.60	20.38		
15	16QAM	1	0	20.84	20.78	20.88	20.95	20.80		
15	16QAM	1	37	20.78	20.66	20.76	20.70	20.68	22	2
15	16QAM	1	74	20.75	20.73	20.83	20.73	20.62		
15	16QAM	36	0	19.87	19.82	19.90	19.92	19.80		
15	16QAM	36	20	19.38	19.50	19.47	19.29	19.34	21	3
15	16QAM	36	39	19.38	19.50	19.47	19.29	19.34		
15	16QAM	36	58	19.41	19.44	19.54	19.34	19.35		
15	256QAM	1	0	17.71	17.72	17.62	17.60	17.52	19	5
15	256QAM	1	48	17.61	17.72	17.74	17.78	17.68		
15	256QAM	1	96	17.46	17.53	17.45	17.46	17.36		
15	256QAM	50	20	17.41	17.53	17.45	17.34	17.24	19	5
15	256QAM	50	39	17.34	17.47	17.48	17.42	17.31		
15	256QAM	50	58	17.46	17.47	17.57	17.47	17.34		
Channel				39700	40160	40620	41058	41540	Turn-up limit (dBm)	MFR (dB)
Frequency (MHz)				39700	40160	40620	41058	41540		
15	QPSK	1	0	22.61	22.61	22.48	22.68	22.46	24	0
15	QPSK	1	25	22.49	22.52	22.52	22.50	22.41		
15	QPSK	1	48	22.49	22.44	22.51	22.43	22.35		
15	QPSK	25	0	21.62	21.53	21.74	21.63	21.59	23	1
15	QPSK	25	12	21.47	21.44	21.67	21.61	21.39		
15	QPSK	25	25	21.48	21.52	21.57	21.48	21.41		
15	QPSK	50	0	21.62	21.58	21.71	21.65	21.54	23	1
15	16QAM	1	0	21.83	21.86	21.88	21.82	21.80		
15	16QAM	1	25	21.84	21.87	21.88	21.86	21.69		
15	16QAM	1	48	21.94	21.74	22.04	21.90	21.70	22	2
15	16QAM	25	0	20.59	20.52	20.64	20.44	20.37		
15	16QAM	25	12	20.52	20.48	20.57	20.44	20.37		
15	16QAM	25	25	20.47	20.42	20.53	20.48	20.42	22	2
15	16QAM	50	0	20.52	20.50	20.55	20.50	20.37		
15	16QAM	1	0	20.80	20.76	20.84	20.86	20.80		
15	16QAM	1	25	20.73	20.67	20.75	20.73	20.72	22	2
15	16QAM	1	48	20.75	20.72	20.82	20.74	20.71		
15	16QAM	25	0	19.52	19.55	19.57	19.47	19.41		
15	16QAM	25	12	19.43	19.42	19.44	19.37	19.27	21	3
15	16QAM	25	25	19.48	19.53	19.48	19.44	19.28		
15	16QAM	50	0	19.40	19.45	19.61	19.35	19.32		
15	256QAM	1	0	17.57	17.70	17.63	17.68	17.68	19	5
15	256QAM	1	25	17.68	17.76	17.67	17.67	17.61		
15	256QAM	1	48	17.59	17.65	17.74	17.77	17.68		
15	256QAM	25	12	17.46	17.43	17.48	17.37	17.18	19	5
15	256QAM	25	25	17.47	17.41	17.47	17.38	17.23		
15	256QAM	50	0	17.43	17.49	17.49	17.46	17.41		
Channel				39675 <th>40148</th> <th>40620</th> <th>41058</th> <th>41565</th> <th>Turn-up limit (dBm)</th> <th>MFR (dB)</th>	40148	40620	41058	41565	Turn-up limit (dBm)	MFR (dB)
Frequency (MHz)				39675	40148	40620	41058	41565		
15	QPSK	1	0	22.66	22.66	22.71	22.66	22.46	24	0
15	QPSK	1	12	22.48	22.56	22.57	22.48	22.33		
15	QPSK	1	24	22.42	22.37	22.57	22.41	22.29		
15	QPSK	12	0	21.61	21.57	21.79	21.65	21.63	23	1
15	QPSK	12	7	21.56	21.43	21.59	21.52	21.42		
15	QPSK	12	13	21.53	21.48	21.64	21.47	21.41		
15	QPSK	25	0	21.58	21.54	21.69	21.54	21.49	23	1
15	16QAM	1	0	21.80	21.84	21.88	21.88	21.71		
15	16QAM	1	12	21.82	21.81	21.84	21.83	21.71		
15	16QAM	1	24	21.86	21.89	22.08	21.86	21.72	22	2
15	16QAM	25	0	20.52	20.46	20.62	20.41	20.37		
15	16QAM	12	13	20.47	20.37	20.46	20.51	20.39		
15	16QAM	25	0	20.68	20.56	20.68	20.60	20.44	22	2
15	16QAM	25	7	20.79	20.82	20.83	20.83	20.79		
15	16QAM	1	12	20.70	20.69	20.82	20.80	20.70		
15	16QAM	25	0	19.59	19.59	19.62	19.48	19.43	21	3
15	16QAM	25	7	19.59	19.59	19.59	19.58	19.35		
15	16QAM	25	13	19.49	19.49	19.43	19.41	19.28		
15	16QAM	25	0	19.43	19.44	19.57	19.38	19.29	21	3
15	256QAM	1	0	17.58	17.70	17.63	17.67	17.61		
15	256QAM	1	12	17.67	17.69	17.61	17.65	17.48		
15	256QAM	1	24	17.55	17.68	17.71	17.73	17.68	19	5
15	256QAM	12	13	17.44	17.42	17.47	17.37	17.27		
15	256QAM	12	7	17.43	17.49	17.41	17.31	17.26		
15	256QAM	12	13	17.46	17.40	17.46	17.46	17.23	19	5
15	256QAM	12	7	17.43	17.50	17.49	17.46	17.40		
15	256QAM	12	7	17.43	17.49	17.41	17.31	17.26		



Band 38 Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel									
Frequency (MHz)				37965	38050	38135			
20	QPSK	1	0	22.75	22.75	22.75		24	0
20	QPSK	1	48	22.81	22.86	22.84			
20	QPSK	1	88	22.46	22.51	22.47			
20	QPSK	50	0	21.71	21.79	21.77		23	1
20	QPSK	50	24	21.54	21.71	21.54			
20	QPSK	50	48	21.34	21.59	21.65		23	1
20	QPSK	100	0	21.70	21.85	21.66			
20	16QAM	1	0	21.94	22.06	22.06		22	2
20	16QAM	1	48	21.90	22.06	22.06			
20	16QAM	1	96	21.90	22.02	21.87			
20	16QAM	50	24	20.57	20.76	20.67		21	3
20	16QAM	50	48	20.57	20.59	20.59			
20	16QAM	100	0	20.56	20.67	20.59			
20	16QAM	100	24	20.51	20.55	20.55			
20	16QAM	1	48	20.76	20.84	20.86		22	2
20	16QAM	1	96	20.75	20.89	20.86			
20	16QAM	50	0	19.54	19.64	19.53			
20	16QAM	50	24	19.51	19.57	19.51		21	3
20	16QAM	50	50	19.57	19.57	19.45			
20	16QAM	100	0	19.58	19.59	19.47			
20	256QAM	1	0	17.75	17.84	17.89		19	5
20	256QAM	1	48	17.77	17.86	17.74			
20	256QAM	1	96	17.79	17.77	17.85			
20	256QAM	50	0	17.57	17.62	17.52			
20	256QAM	50	24	17.50	17.57	17.37		19	5
20	256QAM	50	50	17.57	17.59	17.42			
20	256QAM	100	0	17.58	17.59	17.45			
Channel									
Frequency (MHz)				37925	38005	38175	Tune-up limit (dBm)	MFR (dB)	
15	QPSK	1	0	22.72	22.69	22.72		24	0
15	QPSK	1	37	22.89	22.81	22.43			
15	QPSK	1	74	22.36	22.86	22.46			
15	QPSK	36	0	21.61	21.69	21.65		23	1
15	QPSK	36	20	21.43	21.69	21.45			
15	QPSK	36	38	21.67	21.67	21.65		23	1
15	QPSK	75	0	21.62	21.77	21.65			
15	16QAM	1	0	21.94	22.05	21.94		23	1
15	16QAM	1	37	21.91	21.99	21.92			
15	16QAM	1	74	21.91	21.98	21.84			
15	16QAM	36	0	20.58	20.71	20.46		22	2
15	16QAM	36	20	20.53	20.56	20.50			
15	16QAM	36	39	20.37	20.52	20.40			
15	16QAM	75	0	20.57	20.56	20.50		22	2
15	16QAM	75	0	20.50	20.50	20.50			
15	16QAM	1	37	20.59	20.54	20.51			
15	16QAM	74	24	20.51	20.84	20.81			
15	16QAM	36	0	19.54	19.59	19.54		21	3
15	16QAM	36	20	19.50	19.54	19.41			
15	16QAM	75	0	19.54	19.57	19.44			
15	256QAM	1	0	17.69	17.62	17.83		19	5
15	256QAM	1	37	17.72	17.76	17.77			
15	256QAM	1	74	17.72	17.76	17.77			
15	256QAM	36	0	17.55	17.51	17.52			
15	256QAM	36	20	17.44	17.54	17.43		19	5
15	256QAM	36	39	17.49	17.52	17.53			
15	256QAM	75	0	17.56	17.52	17.50			
Channel									
Frequency (MHz)				25175	25255	25315	Tune-up limit (dBm)	MFR (dB)	
10	QPSK	1	0	22.58	22.61	22.42		24	0
10	QPSK	1	48	22.38	22.60	22.47			
10	QPSK	1	88	22.36	22.59	22.45			
10	QPSK	25	12	21.52	21.66	21.43		23	1
10	QPSK	25	25	21.60	21.58	21.56			
10	16QAM	1	0	21.82	22.05	21.87		23	1
10	16QAM	1	25	21.93	21.83	21.88			
10	16QAM	1	48	21.87	21.82	21.84			
10	16QAM	25	0	20.51	20.67	20.50		22	2
10	16QAM	25	12	20.50	20.52	20.44			
10	16QAM	25	25	20.50	20.58	20.44			
10	16QAM	50	0	20.46	20.58	20.43		22	2
10	16QAM	50	12	20.52	20.54	20.46			
10	16QAM	1	25	20.72	20.61	20.80			
10	16QAM	1	48	20.72	20.79	20.76		21	3
10	16QAM	25	0	19.56	19.63	19.52			
10	16QAM	25	12	19.46	19.45	19.40			
10	16QAM	25	25	19.47	19.49	19.45			
10	16QAM	50	0	19.56	19.51	19.59		19	5
10	16QAM	50	12	17.66	17.79	17.76			
10	256QAM	1	0	17.66	17.76	17.75			
10	256QAM	1	48	17.73	17.66	17.73			
10	256QAM	25	0	17.48	17.51	17.41		19	5
10	256QAM	25	12	17.46	17.54	17.36			
10	256QAM	25	25	17.48	17.55	17.32			
10	256QAM	50	0	17.61	17.63	17.42			

Band 41 Ant 10											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel											
Frequency (MHz)				39795	40185	40620	41055	41490			
20	QPSK	1	0	23.34	23.29	23.21	23.24	23.14	23.24	24	0
20	QPSK	1	48	23.18	23.14	23.05	23.13	23.06			
20	QPSK	1	88	23.17	23.02	22.97	23.04	23.01			
20	QPSK	50	0	22.35	22.32	22.17	22.23	22.25	23	1	
20	QPSK	50	24	22.36	22.09	22.61	22.14	22.07			
20	QPSK	50	48	22.13	22.05	22.02	22.08	22.18	23	1	
20	QPSK	100	0	22.34	22.21	22.15	22.23	22.13			
20	16QAM	1	0	22.81	22.50	22.40	22.48	22.46	23	1	
20	16QAM	1	48	22.51	22.49	22.39	22.45	22.38			
20	16QAM	1	96	22.63	22.46	22.35	22.48	22.38			
20	16QAM	50	0	21.25	21.13	21.13	21.26	21.02	22	2	
20	16QAM	50	24	21.23	21.15	20.96	21.10	21.01			
20	16QAM	50	50	21.14	21.08	20.89	20.97	21.05			
20	16QAM	100	0	21.02	21.15	21.00	21.09	21.05			
20	16QAM	100	24	21.22	21.42	21.57	21.35	21.44	22	2	
20	16QAM	100	48	21.47	21.40	21.20	21.48	21.31			
20	16QAM	1	96	21.35	21.43	21.31	21.35	21.33			
20	16QAM	50	0	20.23	20.08	20.09	20.08	20.05	21	3	
20	16QAM	50	24	20.12	20.04	19.95	19.99	19.88			
20	16QAM	50	50	20.13	20.03	20.03	19.97	19.89			
20	16QAM	100	0	20.14	20.02	19.97	20.00	19.89			
20	256QAM	1	0	18.42	18.40	18.21	18.31	18.27	19	5	
20	256QAM	1	48	18.33	18.30	18.21	18.27	18.20			
20	256QAM	1	96	18.31	18.30	18.18	18.23	18.25			
20	256QAM	50	0	18.30	18.09	18.02	18.08	17.97			
20	256QAM	50	24	18.14	17.91	18.01	17.98	17.89			
20	256QAM	50	50	18.10	17.89	17.87	18.04	17.81			
20	256QAM	100	0	18.14	18.11	18.00	18.05	17.95			
Channel											
Frequency (MHz)				39725	40173	40620	41058	41515			
15	QPSK	1	0	23.29	23.13	23.13	23.16	23.12	24	0	
15	QPSK	1	37	23.03	23.08	23.01	23.01	22.88			
15	QPSK	1	74	23.12	22.97	22.85	22.84	22.86			
15	QPSK	36	0	22.28	22.21	22.07	22.08	22.07	23	1	
15	QPSK	36	20	22.15	22.03	21.89	22.03	22.03			
15	QPSK	36	38	22.03	22.03	21.88	22.03	22.03			
15	QPSK	75	0	22.22	22.07	22.08	22.20	22.09	23	1	
15	16QAM	1	0	22.58	22.44	22.32	22.44	22.42	23	1	
15	16QAM	1	37	22.51	22.44	22.28	22.35	22.38			
15	16QAM	1	74	22.58	22.36	22.22	22.42	22.47			
15	16QAM	36	0	21.23	21.09	20.99	21.16	20.95	22	2	
15	16QAM	36	20	21.13	21.01	20.85	21.05	20.92			
15	16QAM	36	39	21.03	20.97	20.80	20.92	21.00			
15	16QAM	75	0	20.88	21.00	20.95	21.00	21.01			
15	16QAM	75	0	21.47	21.31	21.31	21.32	21.38	22	2	
15	16QAM	1	37	21.38	21.27	21.06	21.27	21.28			
15	16QAM	74	24	21.35	21.40	21.17	21.16	21.20			
15	16QAM	36	0	20.26	20.54	20.50	20.50	20.51	21	3	
15	16QAM	36	20	20.36	19.92	19.83	19.81	19.86			
15	16QAM	75	0	20.27	20.58	20.57	20.51	20.51			
15	256QAM	1	0	18.31	18.30	18.17	18.25	18.25	19	5	
15	256QAM	1	37	18.34	18.04	18.11	18.22	18.16			
15	256QAM	1	74	18.28	18.30	18.24	18.15	18.15			
15	256QAM	36	0	18.16	18.07	17.89	18.00	17.93			
15	256QAM	36	20	18.07	17.81	17.90	17.91	17.79			
15	256QAM	36	39	18.00	17.83	17.89	17.94	17.89	19	5	
15	256QAM	75	0	18.08	18.01	17.87	18.00	17.84			
Channel											
Frequency (MHz)				39700	40160	40620	41058	41540			
10	QPSK	1	0	23.11	23.03	23.03	23.11	23.03	24	0	
10	QPSK	1	25	23.10	23.10	22.95	23.11	22.93			
10	QPSK	1	49	23.09	23.09	22.94	23.09	22.94			
10	QPSK	25	0	22.30	22.29	22.03	22.11	22.03	23	1	
10	QPSK	25	12	22.31	22.20	21.92	22.04	21.96			
10	QPSK	25	36	22.04	22.04	21.87	22.04	21.93			
10	QPSK	50	0	22.28	22.08	22.11	22.18	22.02	23	1	
10	16QAM	1	0	22.53	22.44	22.32	22.41	22.36	23	1	
10	16QAM	1	25	22.49	22.38	22.23	22.38	22.30			
10	16QAM	1	49	22.60	22.41	22.30	22.44	22.29			
10	16QAM	25	0	21.20	21.02	20.99	21.16	20.92	22	2	
10	16QAM	25	12	21.11	21.05	20.88	21.03	20.96			
10	16QAM	25	36	21.03	21.05	20.76	20.88	20.89			
10	16QAM	50	0	21.04	21.04	20.87	21.00	20.92			
10	16QAM	1	0	21.43	21.31	21.28	21.35	21.21	22	2	
10	16QAM	1	25	21.35	21.36	21.07	21.37	21.21			
10	16QAM	1	49	21.34	21.31	21.07	21.34	21.21			
10	16QAM	25	0	20.19	20.04	20.03	19.95	20.02	21	3	
10	16QAM	25	12	20.08	19.94	19.87	19.99	19.84			
10	16QAM	25	36	20.08	19.97	19.80	19.91	19.78			
10	16QAM	50	0	20.10	19.98	19.83	20.00	19.81			
10	16QAM	50	0	20.52	20.36	20.31	20.48	20.33			
10	256QAM	1	25	18.20	18.22	18.08	18.15	18.11	19	5	
10	256QAM	1	49	18.18	18.24	18.09	18.13	18.22			
10	256QAM	25	0	18.16	18.08	17.87	18.00	17.88			
10	256QAM	25	12	18.04	17.87	17.83	17.88	17.82			
10	256QAM	25	36	17.88	17.88	17.84	17.96	17.79			
10	256QAM	50	0	18.05	18.04	17.89	18.02	17.86			
Channel											
Frequency (MHz)				39675	40140	40620	41058	41565			
5	QPSK	1	0	23.24	23.20	23.03	23.11	23.03	24	0	
5	QPSK	1	12	23.02	23.03	22.87	23.03	22.85			
5	QPSK	1	24	23.01	23.01	22.86	23.01	22.86			
5	QPSK	12	0	22.28	22.24	22.07	22.12	22.14	23	1	
5	QPSK	12	7	22.27	22.19	21.89	22.07	22.01			
5	QPSK	24	0	22.06	22.06	21.91	22.06	21.96			
5	QPSK	24	0	22.32	22.07	22.04	22.12	22.01			
5	16QAM	1	0	22.59	22.39	22.28	22.34	22.25	23	1	
5	16QAM	1	12	22.58	22.41	22.23	22.38	22.30			
5	16QAM	1	24	22.60	22.33	22.24	22.43	22.28			
5	16QAM	12	0	21.27	21.07	20.97	21.17	20.97	22	2	
5	16QAM	12	7	21.13	21.07	20.85	21.07	20.93			
5	16QAM	12	13	21.03	20.96	20.85	20.99	20.86			
5	16QAM	24	0	21.03	21.00	20.82	21.00	20.86			
5	16QAM	1	0	21.46	21.37	21.30	21.37	21.36	22	2	
5	16QAM	1	12	21.45	21.32	21.16	21.29	21.28			
5	16QAM	1	24	21.29	21.34	21.10	21.34	21.21			
5	16QAM	12	0	20.20	19.98	20.05	20.02	19.96	21	3	
5	16QAM	12	7	20.09	19.91	19.78	19.91	19.75			
5	16QAM	12	13	20.09	19.97	19.80	19.94	19.77			
5	16QAM	24	0	20.04	19.93	19.86	19.95	19.85			
5	256QAM	1	0	18.37	18.35	18.17	18.28	18.23	19	5	
5	256QAM	1	12	18.33	18.14	18.08	18.16	18.17			
5	256QAM	1	24	18.22	18.31	18.25	18.12	18.17			
5	256QAM	12	0	18.14	18.08	17.87	18.00	17.92			
5	256QAM	12	7	18.08	17.84	17.88	17.87	17.83			
5	256QAM	12	13	18.02	17.86	17.85	17.91	17.85			
5	256QAM	24	0	18.05	18.07	17.92	18.06	17.88			



Reduced Power Mode for EIRL Other PA

Band 2 Ant 0											
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch./Frac.	Power Ch./Frac.	Power Ch./Frac.	Turn-on (dB)	MFR (dB)			
Channel Frequency (MHz)											
20	QPSK	1	0	21.21	21.20	21.20					
20	QPSK	1	69	21.23	21.24	21.23	22.3	0			
20	QPSK	1	8	21.15	21.26	21.21					
20	QPSK	50	0	21.07	21.20	21.17					
20	QPSK	50	24	21.16	21.11	21.12	22.3	0			
20	QPSK	100	0	20.94	21.03	20.99					
20	QPSK	1	69	20.94	21.02	20.99	22.3	0			
20	QPSK	1	99	20.83	21.19	20.88					
20	QPSK	50	0	20.45	20.56	20.50					
20	QPSK	50	24	20.43	20.52	20.49					
20	QPSK	50	50	20.48	20.51	20.55	22	0.3			
20	QPSK	1	0	20.45	20.56	20.50					
20	QPSK	1	0	20.68	20.79	20.69					
20	QPSK	1	69	20.58	20.74	20.63	22	0.3			
20	QPSK	1	6	20.59	20.67	20.62					
20	QPSK	50	0	19.94	19.95	19.97					
20	QPSK	50	24	19.45	19.60	19.53					
20	QPSK	50	8	19.45	19.60	19.54	21	1.3			
20	QPSK	100	0	19.51	19.63	19.54					
20	QPSK	1	0	17.65	17.68	17.65					
20	QPSK	1	6	17.59	17.67	17.56	19	3			
20	QPSK	1	99	17.58	17.62	17.62					
20	QPSK	50	0	17.60	17.63	17.59					
20	QPSK	50	8	17.62	17.63	17.63	19	3			
20	QPSK	50	60	17.50	17.60	17.54					
20	QPSK	100	0	17.62	17.61	17.52					
Channel Frequency (MHz)											
15	QPSK	1	0	21.07	21.16	21.11					
15	QPSK	1	69	21.14	21.12	21.23	22.3	0			
15	QPSK	1	74	21.06	21.11	21.11					
15	QPSK	36	0	21.02	21.06	21.04					
15	QPSK	36	6	21.02	21.06	21.07	22.3	0			
15	QPSK	36	99	21.01	21.01	20.93					
15	QPSK	75	0	20.89	20.96	20.75					
15	QPSK	1	6	20.87	20.99	20.88	22.3	0			
15	QPSK	1	37	20.81	20.92	20.89					
15	QPSK	1	74	20.79	21.06	20.78					
15	QPSK	36	0	20.87	20.99	20.88					
15	QPSK	36	20	20.42	20.42	20.36	22	0.3			
15	QPSK	36	99	20.33	20.40	20.49					
15	QPSK	75	0	19.43	19.63	19.46					
15	QPSK	1	0	17.54	17.62	17.58					
15	QPSK	1	69	17.59	17.69	17.61	19	3			
15	QPSK	1	74	17.63	17.67	17.58					
15	QPSK	36	0	17.57	17.68	17.59					
15	QPSK	36	6	17.57	17.61	17.61	19	3			
15	QPSK	36	99	17.44	17.64	17.49					
15	QPSK	75	0	17.47	17.62	17.49					
Channel Frequency (MHz)											
10	QPSK	1	0	21.08	21.21	21.22					
10	QPSK	1	69	21.13	21.19	21.26	22.3	0			
10	QPSK	1	49	21.05	21.19	21.10					
10	QPSK	25	0	20.96	21.07	21.06					
10	QPSK	25	6	21.08	20.98	21.07	22.3	0			
10	QPSK	25	25	21.02	21.03	20.96					
10	QPSK	50	0	20.79	20.94	20.84					
10	QPSK	1	6	20.87	20.99	20.88	22.3	0			
10	QPSK	1	25	20.84	20.93	20.87					
10	QPSK	1	49	20.73	21.15	20.80					
10	QPSK	1	37	20.52	20.31	20.48	22	0.3			
10	QPSK	25	12	20.30	20.46	20.45					
10	QPSK	25	25	20.37	20.49	20.46					
10	QPSK	50	0	19.40	19.53	19.41					
10	QPSK	1	0	20.63	20.66	20.57	22	0.3			
10	QPSK	1	25	20.50	20.68	20.57					
10	QPSK	1	49	20.45	20.61	20.57					
10	QPSK	25	0	19.51	19.62	19.43					
10	QPSK	25	12	19.35	19.46	19.47	21	1.3			
10	QPSK	25	25	19.36	19.43	19.35					
10	QPSK	50	0	19.43	19.66	19.46					
10	QPSK	1	0	17.56	17.62	17.53					
10	QPSK	1	69	17.42	17.68	17.43	19	3			
10	QPSK	1	49	17.56	17.66	17.57					
10	QPSK	25	0	17.40	17.60	17.49					
10	QPSK	25	12	17.40	17.41	17.40	19	3			
10	QPSK	25	25	17.39	17.44	17.47					
10	QPSK	50	0	17.47	17.54	17.44					
10	QPSK	50	24	17.47	17.57	17.48					
Channel Frequency (MHz)											
5	QPSK	1	0	21.09	21.24	21.14					
5	QPSK	1	14	21.10	21.12	21.08	22.3	0			
5	QPSK	1	24	21.10	21.16	21.10					
5	QPSK	12	0	20.98	21.12	21.08					
5	QPSK	12	6	21.11	20.98	20.97	22.3	0			
5	QPSK	12	13	21.08	21.01	20.99					
5	QPSK	25	0	20.93	20.89	20.84					
5	QPSK	25	6	20.94	20.91	20.92	22.3	0			
5	QPSK	1	12	20.88	20.87	20.92					
5	QPSK	1	24	20.68	21.11	20.71					
5	QPSK	12	0	20.42	20.59	20.54	22	0.3			
5	QPSK	12	7	20.33	20.53	20.49					
5	QPSK	12	13	20.41	20.44	20.52					
5	QPSK	25	0	20.48	20.52	20.49					
5	QPSK	25	6	20.50	20.75	20.58	22	0.3			
5	QPSK	1	12	20.49	20.62	20.59					
5	QPSK	1	24	20.44	20.59	20.41	22	0.3			
5	QPSK	12	0	19.42	19.55	19.55					
5	QPSK	12	6	19.35	19.53	19.46	21	1.3			
5	QPSK	12	13	19.36	19.58	19.43					
5	QPSK	25	0	19.40	19.52	19.44					
5	QPSK	25	6	19.39	19.58	19.43	19	3			
5	QPSK	1	12	17.39	17.44	17.53					
5	QPSK	1	24	17.56	17.61	17.58					
5	QPSK	12	0	17.42	17.68	17.44	19	3			
5	QPSK	12	7	17.42	17.48	17.47					
5	QPSK	25	0	17.39	17.56	17.45					
5	QPSK	25	24	17.47	17.57	17.48					
Channel Frequency (MHz)											
3	QPSK	1	0	21.11	21.20	21.20					
3	QPSK	1	8	21.14	21.16	21.25	22.3	0			
3	QPSK	1	10	21.07	21.21	21.12					
3	QPSK	8	0	21.01	21.05	21.02					
3	QPSK	8	4	21.09	21.02	21.01	22.3	0			
3	QPSK	16	0	20.93	20.96	20.91					
3	QPSK	1	0	20.88	20.94	20.89					
3	QPSK	1	8	20.87	20.93	20.85	22.3	0			
3	QPSK	1	14	20.75	21.04	20.72					
3	QPSK	1	8	20.43	20.54	20.49					
3	QPSK	1	10	20.34	20.45	20.41	22	0.3			
3	QPSK	8	0	20.41	20.41	20.32					
3	QPSK	16	0	20.42	20.53	20.46					
3	QPSK	1	0	19.94	20.39	19.92					
3	QPSK	1	8	19.93	20.38	19.91	22	0.3			
3	QPSK	1	14	19.89	19.93	19.94					
3	QPSK	8	0	19.34	19.54	19.39					
3	QPSK	8	7	19.35	19.48	19.46	21	1.3			
3	QPSK	16	0	19.45	19.57	19.49					
3	QPSK	1	0	17.56	17.64	17.54					
3	QPSK	1	8	17.51	17.61	17.52	19	3			
3	QPSK	1	14	17.54	17.48	17.59					
3	QPSK	8	0	17.66	17.56	17.51					
3	QPSK	16	0	17.62	17.52	17.53					
3	QPSK	1	0	17.47	17.58	17.48	19	3			
3	QPSK	8	7	17.45	17.54	17.43					
3	QPSK	16	0	17.42	17.63	17.45					
Channel Frequency (MHz)											
1.5	QPSK	1	0	21.16	21.21	21.20					
1.5	QPSK	1	1	21.12	21.11	21.07					
1.5	QPSK	1	2	21.07	21.15	21.09	22.3	0			
1.5	QPSK	3	0	20.97	21.06	21.01					
1.5	QPSK	3	1	21.06	20.94	20.99					
1.5	QPSK	1	0	21.05	21.06	21.00					
1.5	QPSK	3	0	20.79	20.93	20.84	22.3	0			
1.5	QPSK	1	0	20.62	20.69	20.64					
1.5	QPSK	1	3	20.85	20.85	20.80					
1.5	QPSK	1	5	20.72	21.04	20.72	22.3	0			
1.5	QPSK	3	0	20.61	20.71	20.66					
1.5	QPSK	3	1	20.77	21.04	20.80					
1.5	QPSK	1	0	20.63	20.68	20.64	22	0.3			
1.5	QPSK	3	0	20.63	20.71	20.69					
1.5	QPSK	1	0	20.52	20.64	20.42	22	0.3			
1.5	QPSK	3	0	20.40	20.97	20.36					
1.5	QPSK	3	0	20.32	20.31	20.21					
1.5	QPSK	6	0	19.40	19.60	19.44	21	1.8			
1.5	QPSK	1	0	17.69	17.81	17.67					
1.5	QPSK	1	3	17.62	17.48	17.62					
1.5	QPSK	3	0	17.63	17.63	17.67	19	3			
1.5	QPSK	3	0	17.63	17.61	17.65					
1.5	QPSK	3	0	17.45	17.47	17.49					
1.5	QPSK	3	0	17.42	17.48	17.43					



Band 38 Ant 0												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Turn-up time (dBm)	MFR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.48	22.50	22.52	24	0				
20	QPSK	1	48	22.40	22.31	22.30						
20	QPSK	1	88	22.51	22.38	22.37						
20	QPSK	50	0	21.41	21.54	21.52						
20	QPSK	50	24	21.26	21.38	21.33						
20	QPSK	50	48	21.51	21.78	21.81	23	1				
20	HQAM	1	0	21.46	21.54	21.53						
20	HQAM	1	48	21.69	21.78	21.69						
20	HQAM	1	96	21.34	20.45	20.38						
20	HQAM	50	24	20.34	20.45	20.32						
20	HQAM	50	48	20.34	20.45	20.32	22	2				
20	HQAM	100	0	20.28	20.28	20.05						
20	HQAM	100	0	20.58	20.58	20.58						
20	HQAM	1	48	20.57	20.65	20.66						
20	HQAM	1	96	20.55	20.61	20.55						
20	HQAM	50	0	19.34	19.42	19.33	21	3				
20	HQAM	50	24	19.27	19.28	19.26						
20	HQAM	50	50	19.28	19.29	19.26						
20	HQAM	100	0	19.21	19.31	19.17						
20	HQAM	100	0	19.21	19.31	19.17						
20	25QAM	1	0	17.52	17.60	17.53	19	5				
20	25QAM	1	48	17.51	17.59	17.46						
20	25QAM	1	96	17.51	17.59	17.55						
20	25QAM	50	24	17.25	17.25	17.17						
20	25QAM	50	50	17.30	17.28	17.24						
20	25QAM	100	0	17.27	17.28	17.24						
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.13	22.42	22.38	24	0				
15	QPSK	1	37	22.28	22.18	22.18						
15	QPSK	1	74	22.50	22.33	22.12						
15	QPSK	36	0	21.34	21.42	21.37						
15	QPSK	36	20	21.14	21.24	21.17						
15	QPSK	36	38	21.38	21.39	21.35	23	1				
15	QPSK	75	0	21.38	21.39	21.35						
15	HQAM	1	0	21.55	21.66	21.61						
15	HQAM	1	37	21.55	21.67	21.64						
15	HQAM	1	74	21.54	21.72	21.81						
15	HQAM	36	0	20.24	20.36	20.19	22	2				
15	HQAM	36	20	20.22	20.26	20.15						
15	HQAM	36	38	20.09	20.29	20.18						
15	HQAM	75	0	20.26	20.26	20.22						
15	HQAM	75	0	20.40	20.55	20.45						
15	HQAM	1	37	20.52	20.69	20.51	22	2				
15	HQAM	1	74	20.44	20.47	20.39						
15	HQAM	36	0	19.23	19.37	19.25						
15	HQAM	36	20	19.15	19.17	19.20						
15	HQAM	36	38	19.23	19.37	19.26						
15	25QAM	1	0	17.52	17.52	17.43	19	5				
15	25QAM	1	37	17.52	17.52	17.43						
15	25QAM	1	74	17.42	17.46	17.43						
15	25QAM	36	0	17.15	17.33	17.18						
15	25QAM	36	20	17.14	17.17	17.05						
15	25QAM	36	38	17.25	17.13	17.20	19	5				
15	25QAM	75	0	17.26	17.21	17.19						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.13	22.42	22.38	24	0				
10	QPSK	1	25	22.31	22.32	22.33						
10	QPSK	1	48	22.13	22.31	22.20						
10	QPSK	25	0	21.31	21.45	21.47						
10	QPSK	25	12	21.19	21.24	21.19						
10	QPSK	25	25	21.19	21.14	21.26	23	1				
10	QPSK	25	38	21.14	21.07	21.09						
10	HQAM	1	0	21.87	21.78	21.83						
10	HQAM	1	25	21.82	21.82	21.44						
10	HQAM	1	48	21.47	21.67	21.59						
10	HQAM	25	0	20.28	20.28	20.21	22	2				
10	HQAM	25	12	20.22	20.41	20.12						
10	HQAM	25	25	20.07	20.31	20.14						
10	HQAM	50	0	20.38	20.25	20.22						
10	HQAM	50	0	20.30	20.37	20.30						
10	HQAM	1	0	20.50	20.57	20.53	22	2				
10	HQAM	1	25	20.49	20.56	20.42						
10	HQAM	25	0	19.20	19.32	19.20						
10	HQAM	25	12	19.22	19.20	19.14						
10	HQAM	25	25	19.20	19.25	19.11						
10	HQAM	50	0	19.15	19.25	19.03	19	5				
10	25QAM	1	0	17.51	17.46	17.42						
10	25QAM	1	25	17.41	17.46	17.40						
10	25QAM	1	48	17.38	17.43	17.39						
10	25QAM	25	0	17.22	17.28	17.20						
10	25QAM	25	12	17.17	17.16	17.07	19	5				
10	25QAM	25	25	17.22	17.15	17.15						
10	25QAM	50	0	17.24	17.22	17.22						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.33	22.47	22.37	24	0				
5	QPSK	1	12	22.30	22.25	22.15						
5	QPSK	1	24	22.09	22.24	22.13						
5	QPSK	12	0	21.28	21.46	21.47						
5	QPSK	12	7	21.16	21.27	21.25						
5	QPSK	12	13	21.20	21.22	21.15	23	1				
5	QPSK	25	0	21.16	21.49	21.23						
5	HQAM	1	0	21.62	21.69	21.63						
5	HQAM	1	12	21.48	21.59	21.52						
5	HQAM	1	24	21.46	21.64	21.61						
5	HQAM	12	0	20.24	20.31	20.26	22	2				
5	HQAM	12	7	20.25	20.35	20.14						
5	HQAM	12	13	20.05	20.31	20.14						
5	HQAM	25	0	20.25	20.28	20.18						
5	HQAM	1	0	20.32	20.62	20.49						
5	HQAM	1	12	20.47	20.58	20.43	22	2				
5	HQAM	1	24	20.37	20.47	20.47						
5	HQAM	12	0	19.26	19.37	19.21						
5	HQAM	12	7	19.18	19.14	19.12						
5	HQAM	12	13	19.24	19.37	19.04						
5	25QAM	1	0	17.45	17.45	17.35	19	5				
5	25QAM	1	12	17.39	17.40	17.39						
5	25QAM	1	24	17.37	17.42	17.43						
5	25QAM	12	0	17.15	17.33	17.17						
5	25QAM	12	7	17.09	17.18	17.06						
5	25QAM	12	13	17.21	17.13	17.09	19	5				
5	25QAM	25	0	17.30	17.20	17.24						

Band 41 Ant 0													
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MFR (dB)		
Channel													
Frequency (MHz)													
20	QPSK	1	0	21.86	21.71	21.58	21.73	21.84	21.82	23	0		
20	QPSK	1	48	21.70	21.60	21.63	21.63	21.73	21.81				
20	QPSK	1	96	21.69	21.62	21.68	21.62	21.69	21.80				
20	QPSK	50	0	20.80	20.81	20.87	20.87	20.88	20.98				
20	QPSK	50	24	20.75	20.66	20.76	20.87	20.79	20.87				
20	QPSK	50	48	20.85	20.86	20.82	20.82	20.87	20.96	22	1		
20	QPSK	100	0	20.80	20.78	20.82	20.80	20.82	20.86				
20	16QAM	1	0	21.12	21.06	21.13	21.19	21.16	21.22				
20	16QAM	1	48	21.06	21.00	21.15	21.12	21.12	21.12				
20	16QAM	1	96	21.11	21.03	21.04	21.10	21.08	21.05	22	1		
20	16QAM	50	0	19.75	19.64	19.77	19.80	19.77	19.86				
20	16QAM	50	24	19.74	19.56	19.79	19.76	19.79	19.87				
20	16QAM	50	48	19.64	19.68	19.62	19.77	19.66	19.78				
20	16QAM	100	0	19.75	19.62	19.76	19.76	19.74	19.81				
20	16QAM	100	0	20.00	19.98	19.96	20.00	20.00	20.00	21	2		
20	16QAM	50	24	19.64	19.68	19.62	19.77	19.66	19.78				
20	16QAM	100	0	19.75	19.62	19.76	19.76	19.74	19.81				
20	16QAM	100	0	20.00	19.98	19.96	20.00	20.00	20.00				
20	64QAM	1	48	20.00	19.92	19.93	20.00	20.00	20.05	21	2		
20	64QAM	1	96	19.96	19.96	19.96	20.00	20.00	20.05				
20	64QAM	50	0	19.75	19.63	19.78	19.87	19.73	19.83				
20	64QAM	50	24	19.64	19.50	19.72	19.76	19.65	19.83				
20	64QAM	50	48	19.61	19.52	19.63	19.65	19.61	19.81	20	3		
20	64QAM	100	0	19.60	19.60	19.71	19.78	19.70	19.82				
20	64QAM	100	0	19.82	19.83	19.87	19.87	19.84	19.90				
20	64QAM	100	0	19.82	19.80	19.87	19.87	19.84	19.90				
20	256QAM	1	0	19.82	19.83	19.87	19.87	19.84	19.90	18	5		
20	256QAM	1	48	19.74	19.63	19.83	19.87	19.78	19.87				
20	256QAM	1	96	19.74	19.63	19.83	19.87	19.78	19.87				
20	256QAM	1	56	19.80	19.80	19.86	19.86	19.80	19.93				
20	256QAM	1	64	19.80	19.80	19.86	19.86	19.80	19.93	18	5		
20	256QAM	1	112	19.72	19.62	19.80	19.86	19.72	19.86				
20	256QAM	50	24	19.55	19.50	19.72	19.65	19.68	19.83				
20	256QAM	50	48	19.63	19.56	19.73	19.75	19.67	19.83				
20	256QAM	100	0	19.60	19.58	19.73	19.75	19.67	19.83	18	5		
20	256QAM	100	0	19.60	19.58	19.73	19.75	19.67	19.83				
Channel													
Frequency (MHz)													
30	QPSK	1	0	21.84	21.73	21.63	21.79	21.88	21.82	23	0		
30	QPSK	1	24	21.68	21.58	21.65	21.75	21.85	21.77				
30	QPSK	1	37	21.65	21.51	21.75	21.79	21.65	21.73				
30	QPSK	1	76	21.60	21.48	21.53	21.70	21.60	21.60				
30	QPSK	1	115	21.58	21.48	21.55	21.66	21.58	21.66				
30	QPSK	38	20	20.72	20.61	20.72	20.82	20.68	20.86	22	1		
30	QPSK	38	58	20.62	20.54	20.67	20.77	20.69	20.79				
30	QPSK	76	0	20.79	20.76	20.78	20.85	20.80	20.88				
30	QPSK	76	0	20.79	20.76	20.78	20.85	20.80	20.88				
30	16QAM	1	0	21.24	21.03	21.10	21.11	21.01	21.08	22	1		
30	16QAM	1	37	21.08	21.04	21.05	21.12	21.05	21.08				
30	16QAM	1	74	21.09	20.93	20.91	21.11	21.02	21.02				
30	16QAM	38	0	19.67	19.57	19.71	19.77	19.63	19.78				
30	16QAM	38	38	19.71	19.53	19.73	19.78	19.58	19.79				
30	16QAM	38	76	19.55	19.59	19.51	19.64	19.59	19.69	21	2		
30	16QAM	38	115	19.70	19.49	19.67	19.67	19.62	19.75				
30	16QAM	76	0	19.96	19.87	20.03	20.07	20.00	20.09				
30	16QAM	76	0	19.96	19.87	19.90	20.00	20.01	20.11				
30	64QAM	1	74	19.60	19.52	19.62	19.68	19.56	19.65	21	2		
30	64QAM	38	0	19.63	19.59	19.70	19.74	19.64	19.76				
30	64QAM	38	38	19.50	19.37	19.62	19.68	19.56	19.65				
30	64QAM	38	76	19.54	19.42	19.58	19.64	19.48	19.58				
30	64QAM	76	0	19.63	19.38	19.68	19.79	19.62	19.72	20	3		
30	64QAM	76	38	19.50	19.37	19.62	19.68	19.56	19.65				
30	64QAM	76	76	19.54	19.42	19.58	19.64	19.48	19.58				
30	64QAM	76	115	19.63	19.38	19.68	19.79	19.62	19.72				
30	256QAM	1	0	19.63	19.38	19.68	19.79	19.62	19.72	18	5		
30	256QAM	1	37	19.59	19.63	19.78	19.86	19.65	19.85				
30	256QAM	1	74	19.75	19.80	19.84	19.87	19.78	19.87				
30	256QAM	1	115	19.62	19.66	19.82	19.84	19.70	19.84				
30	256QAM	38	20	19.50	19.38	19.66	19.63	19.52	19.67	18	5		
30	256QAM	38	58	19.56	19.44	19.65	19.65	19.57	19.67				
30	256QAM	38	96	19.55	19.48	19.67	19.71	19.58	19.68				
Channel													
Frequency (MHz)													
40	QPSK	1	0	21.41	21.16	21.03	21.24	21.34	21.26	23	0		
40	QPSK	1	25	21.61	21.52	21.75	21.80	21.72	21.73				
40	QPSK	1	50	21.57	21.48	21.61	21.75	21.66	21.75				
40	QPSK	25	0	20.81	20.67	20.81	20.86	20.69	20.81				
40	QPSK	25	12	20.64	20.61	20.62	20.78	20.70	20.81				
40	QPSK	25	37	20.62	20.51	20.62	20.78	20.70	20.84	22	1		
40	QPSK	50	0	20.80	20.70	20.79	20.81	20.72	20.81				
40	16QAM	1	0	20.68	20.56	21.11	21.08	21.10	21.10				
40	16QAM	1	50	20.69	20.59	21.09	21.06	21.09	21.09				
40	16QAM	1	48	21.04	20.94	20.94	21.07	20.99	21.07	21	2		
40	16QAM	25	0	19.80	19.60	19.86	19.84	19.74	19.87				
40	16QAM	25	12	19.76	19.47	19.67	19.78	19.47	19.87				
40	16QAM	25	37	19.68	19.65	19.66	19.72	19.63	19.73				
40	16QAM	25	50	19.61	19.40	19.61	19.67	19.41	19.71	20	3		
40	16QAM	50	0	20.03	19.83	19.99	20.00	20.05	20.08				
40	16QAM	50	12	19.87	19.79	19.84	20.03	19.98	20.01				
40	16QAM	50	37	19.86	19.56	19.86	19.92	19.61	19.92				
40	16QAM	25	0	19.71	19.86	19.73	19.73	19.65	19.86	20	3		
40	16QAM	25	12	19.62	19.40	19.60	19.71	19.63	19.72				
40	16QAM	25	37	19.49	19.42	19.49	19.60	19.52	19.62				
40	16QAM	25	50	19.56	19.43	19.64	19.64	19.61	19.71				
40	64QAM	1	0	19.67	19.56	19.67	19.67	19.54	19.64	18	5		
40	64QAM	1	25	19.83	19.67	19.88	19.87	19.70	19.85				
40	256QAM	1	49	19.68	19.65	19.82	19.81	19.62	19.82				
40	256QAM	1	50	19.68	19.65	19.82	19.81	19.62	19.82				
40	256QAM	25	12	19.54	19.46	19.64	19.64	19.53	19.63	18	5		
40	256QAM	25	37	19.50	19.47	19.66	19.66	19.61	19.61				
40	256QAM	25	50	19.55	19.46	19.66	19.66	19.61	19.61				
Channel													
Frequency (MHz)													
50	QPSK	1	0	21.84	21.68	21.65	21.80	21.84	21.84	23	0		
50	QPSK	1	12	21.67	21.54	21.77	21.70	21.64	21.73				
50	QPSK	1	24	21.58	21.48	21.61	21.77	21.61	21.77				
50	QPSK	12	0	20.82	20.78	20.84	20.96	20.81	20.96				
50	QPSK	12	0	20.83	20.62	20.65	20.83	20.75	20.83				
50	QPSK	25	0	20.80	20.52	20.52	21.00	20.83	21.00	22	1		
50	QPSK	25	0	20.77	20.75	20.78	20.88	20.80	21.00				
50	16QAM	1	0	21.00	20.96	20.99	21.08	21.13	21.04				
50	16QAM	1	12	21.00	20.96	21.00	21.04	21.04	21.04				
50	16QAM	1	24	21.06	20.93	20.92	21.08	20.93	21.08	21	2		
50	16QAM	1	37	21.06	20.93	20.92	21.08	20.93	21.08				
50	16QAM	12	7	19.70	19.49	19.65	19.75	19.68	19.81				
50	16QAM	12	13	19.60	19.64	19.63	19.69	19.68	19.68				
50	16QAM	25	0	19.63	19.53	19.63	19.63	19.58	19.68	20	3		
50	16QAM	25	0	20.00	19.87	20.02	20.01	20.13	20.13				
50	16QAM	1	12	19.60	19.61	19.64	19.65	19.59	19.67				
50	16QAM	1	24	19.78	19.72	19.72	19.72	19.67	19.77				
50	16QAM	12	13	19.61	19.47	19.67	19.68	19.63	19.71	20	3		
50	64QAM	1	0	19.59	19.45	19.69	19.68	19.58	19.68				
50	64QAM	1	12	19.61	19.45	19.69	19.68	19.58	19.68				
50	64QAM	1	24	19.61	19.45	19.69	19.68	19.58	19.68				
50	256QAM	1	12	19.61	19.63	19.61	19.66	19.56	19.75	18	5		
50	256QAM	1	24	19.67	19.79	19.65	19.86	19.68	19.82				
50	256QAM	12	13	19.42	19.48	19.60	19.60	19.42	19.59				
50	256QAM	12	7	19.51	19.45	19.60	19.61	19.60	19.60				
50	256QAM	12	13	19.50	19.44	19.64	19.67	19.50	19.67	18	5		
50	256QAM	12	13	19.50	19.44	19							