

Full & Default Power Mode

GSM850 Ant 4 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM11 Tx slot	31.97	32.04	31.89	33.50	22.97	23.04	22.99	24.50
GPRS 1 Tx slot	31.93	32.06	31.94	33.50	22.93	23.06	22.94	24.50
GPRS 2 Tx slots	31.10	31.22	31.14	31.50	25.10	25.22	25.14	25.50
GPRS 3 Tx slots	29.23	29.36	29.33	29.50	24.97	25.10	25.07	25.24
GPRS 4 Tx slots	28.04	28.17	28.15	28.50	25.04	25.17	25.15	25.50
EDGE 1 Tx slot	26.01	26.12	26.05	28.00	17.01	17.12	17.05	19.00
EDGE 2 Tx slots	24.79	24.83	24.81	26.00	18.79	18.83	18.81	20.00
EDGE 3 Tx slots	22.47	22.51	22.49	24.00	18.21	18.25	18.23	19.74
EDGE 4 Tx slots	21.13	21.17	21.14	22.00	18.13	18.17	18.14	19.00

GSM1900 Ant 4 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1860	1909.8		1850.2	1860	1909.8	
GSM11 Tx slot	28.82	28.18	29.20	30.50	18.82	20.18	20.20	21.50
GPRS 1 Tx slot	28.78	29.20	29.13	30.50	19.78	20.20	20.13	21.50
GPRS 2 Tx slots	27.99	28.36	28.36	28.50	21.99	22.36	22.36	22.50
GPRS 3 Tx slots	26.16	26.50	26.55	27.50	21.90	22.24	22.29	23.24
GPRS 4 Tx slots	25.21	25.42	25.36	26.50	22.21	22.42	22.36	23.50
EDGE 1 Tx slot	25.26	25.11	25.13	27.00	16.26	16.11	16.13	18.00
EDGE 2 Tx slots	24.13	23.95	23.84	25.00	18.13	17.95	17.84	19.00
EDGE 3 Tx slots	21.97	21.74	21.68	23.00	17.71	17.48	17.42	18.74
EDGE 4 Tx slots	20.74	20.34	20.27	21.00	17.74	17.34	17.27	18.00

Band TX Channel	WCDMA II Ant 4			Tune-up Limit (dBm)	WCDMA IV Ant 4			Tune-up Limit (dBm)	WCDMA V Ant 4			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1824.4	1830	1877.6		1724	1727.5	1732.8		2304	2304	2406	
3GPP Rel 99 AMR 12.2Kbps	23.33	23.41	23.34	24.50	23.21	23.30	23.25	24.50	23.30	23.33	23.31	24.50
3GPP Rel 99 RMC 12.2Kbps	23.40	23.44	23.38	24.50	23.25	23.33	23.29	24.50	23.36	23.40	23.38	24.50
3GPP Rel 6 HSDPA Subtest-1	22.38	22.36	22.36	23.50	22.38	22.35	22.36	23.50	22.40	22.40	22.41	23.50
3GPP Rel 6 HSDPA Subtest-2	22.28	22.44	22.40	23.50	22.37	22.50	22.46	23.50	22.33	22.43	22.44	23.50
3GPP Rel 6 HSDPA Subtest-3	21.79	21.85	22.00	23.00	21.94	21.97	21.89	23.00	21.92	21.89	21.86	23.00
3GPP Rel 6 HSDPA Subtest-4	21.94	22.03	21.95	23.00	21.81	22.04	21.86	23.00	21.95	22.04	21.92	23.00
3GPP Rel 6 DCHSDPA Subtest-1	22.35	22.43	22.36	23.50	22.40	22.44	22.45	23.50	22.49	22.53	22.37	23.50
3GPP Rel 6 DCHSDPA Subtest-2	22.32	22.48	22.28	23.50	22.28	22.48	22.50	23.50	22.47	22.52	22.41	23.50
3GPP Rel 6 DCHSDPA Subtest-3	21.79	21.89	21.91	23.00	21.83	21.83	21.83	23.00	21.83	21.86	21.87	23.00
3GPP Rel 6 DCHSDPA Subtest-4	21.94	22.01	21.94	23.00	22.00	21.82	21.81	23.00	21.91	22.04	21.82	23.00
3GPP Rel 6 HSUPA Subtest-1	20.98	20.89	20.96	22.00	20.86	20.87	20.96	22.00	20.87	21.03	20.84	22.00
3GPP Rel 6 HSUPA Subtest-2	20.84	20.84	20.89	22.00	20.83	21.06	20.90	22.00	20.83	20.90	20.87	22.00
3GPP Rel 6 HSUPA Subtest-3	20.48	20.40	20.46	21.50	20.30	20.49	20.45	21.50	20.45	20.33	20.48	21.50
3GPP Rel 6 HSUPA Subtest-4	20.41	20.38	20.35	21.50	20.39	20.50	20.43	21.50	20.32	20.42	20.31	21.50
3GPP Rel 6 HSUPA Subtest-5	20.49	20.38	20.39	21.50	20.29	20.54	20.26	21.50	20.36	20.34	20.27	21.50



Band 2 Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. Freq.	Power Hsp Ch. Freq.	Power Hsp Ch. Freq.	Turn-up (dB)	MPR (dB)		
20	QPSK	1	0	22.26	22.79	22.82			24	0
20	QPSK	1	99	22.27	22.76	22.87				
20	QPSK	50	0	21.97	21.78	21.59			23	1
20	QPSK	50	24	21.70	21.72	21.81				
20	QPSK	50	50	21.65	21.76	21.85				
20	QPSK	100	0	21.59	21.74	21.87				
20	16QAM	1	49	21.57	21.80	21.79			23	1
20	16QAM	1	99	21.81	21.68	21.70				
20	16QAM	50	0	20.93	20.78	20.68			22	2
20	16QAM	50	24	20.67	20.70	20.87				
20	16QAM	50	50	20.59	20.74	20.54				
20	16QAM	100	0	20.70	20.81	20.69				
20	16QAM	1	0	20.80	20.70	20.29				
20	16QAM	1	99	20.99	20.67	20.62			22	2
20	16QAM	50	0	20.73	20.56	20.51				
20	16QAM	50	24	19.43	19.46	19.35				
20	16QAM	50	50	19.49	19.47	19.53			21	3
20	16QAM	100	0	19.40	19.39	19.36				
20	16QAM	1	49	17.31	17.43	17.44			19	5
20	256QAM	1	99	17.52	17.47	17.38				
20	256QAM	50	0	17.39	17.27	17.26				
20	256QAM	50	24	17.45	17.37	17.49				
20	256QAM	50	50	17.46	17.41	17.31			19	5
20	256QAM	100	0	17.59	17.58	17.43				
Channel										
Frequency (MHz)	18873	18900	18925	Turn-up (dB)	MPR (dB)					
15	QPSK	1	0	22.20	22.69	22.50			24	0
15	QPSK	1	99	22.48	22.67	22.56				
15	QPSK	36	0	21.41	21.76	21.51				
15	QPSK	36	24	21.52	21.67	21.54				
15	QPSK	36	99	21.45	21.72	21.43			23	1
15	16QAM	1	49	21.59	21.81	21.87				
15	16QAM	1	99	21.81	21.87	21.87			23	1
15	16QAM	36	0	20.43	20.58	20.63				
15	16QAM	36	24	20.68	20.63	20.37			22	2
15	16QAM	36	99	20.43	20.58	20.63				
15	16QAM	75	0	20.63	20.46	20.53				
15	16QAM	1	0	20.51	20.51	20.51				
15	16QAM	1	99	20.58	20.58	20.48			22	2
15	16QAM	1	24	20.20	20.43	20.36				
15	16QAM	1	74	20.20	20.43	20.36				
15	16QAM	36	0	19.40	19.38	19.17			21	3
15	16QAM	36	24	19.38	19.46	19.44				
15	16QAM	36	99	19.45	19.35	19.37				
15	16QAM	75	0	19.32	19.26	19.16				
15	256QAM	1	37	17.37	17.24	17.24			19	5
15	256QAM	1	74	17.38	17.33	17.38				
15	256QAM	36	0	17.24	17.26	17.26				
15	256QAM	36	24	17.40	17.29	17.29				
15	256QAM	36	99	17.39	17.37	17.13			19	5
15	256QAM	75	0	17.28	17.27	17.14				
Channel										
Frequency (MHz)	18890	18900	18910	Turn-up (dB)	MPR (dB)					
10	QPSK	1	0	22.28	22.51	22.38			24	0
10	QPSK	1	99	22.28	22.51	22.38				
10	QPSK	25	0	21.67	21.85	21.74				
10	QPSK	25	25	21.47	21.71	21.45			23	1
10	16QAM	1	49	21.48	21.69	21.68				
10	16QAM	1	99	21.71	21.70	21.70			23	1
10	16QAM	25	0	20.59	20.69	20.60				
10	16QAM	25	12	20.68	20.71	20.63			22	2
10	16QAM	25	24	20.38	20.38	20.38				
10	16QAM	25	50	20.62	20.47	20.66				
10	16QAM	1	0	20.69	20.69	20.47			22	2
10	16QAM	1	49	20.61	20.45	20.54				
10	16QAM	1	99	20.32	19.38	19.18			21	3
10	16QAM	1	24	19.38	19.37	19.37				
10	16QAM	1	74	19.38	19.37	19.37				
10	16QAM	25	0	19.33	19.21	19.21				
10	256QAM	1	26	17.03	17.09	17.24			19	5
10	256QAM	1	49	17.38	17.24	17.26				
10	256QAM	25	0	17.33	17.26	17.35				
10	256QAM	25	12	17.33	17.18	17.45				
10	256QAM	25	25	17.30	17.23	17.10			19	5
10	256QAM	50	0	17.24	17.23	17.15				
Channel										
Frequency (MHz)	18890	18900	18910	Turn-up (dB)	MPR (dB)					
5	QPSK	1	0	22.45	22.32	22.32			24	0
5	QPSK	1	12	22.54	22.64	22.52				
5	QPSK	1	24	22.38	22.63	22.38				
5	QPSK	1	36	21.42	21.78	21.54				
5	QPSK	12	7	21.70	21.73	21.64			23	1
5	16QAM	1	0	21.56	21.68	21.67				
5	16QAM	1	12	21.48	21.64	21.46			23	1
5	16QAM	1	24	21.62	21.63	21.63				
5	16QAM	12	0	20.57	20.68	20.56				
5	16QAM	12	7	20.61	20.65	20.59			22	2
5	16QAM	12	14	20.54	20.63	20.54				
5	16QAM	25	0	20.61	20.42	20.67				
5	16QAM	1	0	20.62	20.61	20.53			22	2
5	16QAM	1	24	20.61	20.52	20.67				
5	16QAM	1	24	20.73	20.47	20.73				
5	16QAM	12	0	19.22	19.38	19.24				
5	16QAM	12	7	19.31	19.52	19.24			21	3
5	16QAM	12	14	19.26	19.38	19.23				
5	16QAM	25	0	19.34	19.25	19.38				
5	256QAM	1	24	17.24	17.21	17.11				
5	256QAM	1	12	17.10	17.40	17.48			19	5
5	256QAM	1	24	17.42	17.41	17.26				
5	256QAM	12	0	17.38	17.28	17.19				
5	256QAM	12	7	17.44	17.38	17.28			19	5
5	256QAM	12	14	17.20	17.29	17.13				
5	256QAM	25	0	17.42	17.42	17.33				
Channel										
Frequency (MHz)	18890	18900	18910	Turn-up (dB)	MPR (dB)					
3	QPSK	1	0	22.45	22.59	22.55			24	0
3	QPSK	1	14	22.52	22.63	22.55				
3	QPSK	3	0	21.39	21.70	21.45				
3	QPSK	3	4	21.56	21.66	21.64			23	1
3	QPSK	3	7	21.66	21.74	21.84				
3	QPSK	15	0	21.48	21.58	21.48				
3	16QAM	1	0	21.74	21.77	21.71				
3	16QAM	1	8	21.84	21.81	21.47			23	1
3	16QAM	1	16	21.77	21.68	21.67				
3	16QAM	3	0	20.59	20.77	20.48				
3	16QAM	3	4	20.62	20.56	20.47			22	2
3	16QAM	3	8	20.38	20.14	20.36				
3	16QAM	15	0	20.49	20.61	20.46				
3	16QAM	1	0	20.47	20.63	20.60			22	2
3	16QAM	1	14	20.74	20.45	20.66				
3	16QAM	3	0	19.35	19.28	19.24				
3	16QAM	3	4	19.34	19.29	19.43			21	3
3	16QAM	3	7	19.30	19.47	19.31				
3	256QAM	1	8	17.19	17.43	17.31				
3	256QAM	1	16	17.31	17.35	17.32			19	5
3	256QAM	3	0	17.24	17.44	17.38				
3	256QAM	3	4	17.44	17.24	17.37			19	5
3	256QAM	3	7	17.28	17.28	17.30				
3	256QAM	15	0	17.27	17.30	17.27				
Channel										
Frequency (MHz)	18897	18900	18913	Turn-up (dB)	MPR (dB)					
1.4	QPSK	1	0	22.49	22.70	22.50			24	0
1.4	QPSK	1	3							



Band 12 Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Turn-up time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.63	22.69	22.56				
10	QPSK	1	25	22.67	22.73	22.60			24	0
10	QPSK	1	49	22.70	22.76	22.58				
10	QPSK	25	0	21.83	21.89	21.62				
10	QPSK	25	13	21.88	21.94	21.67			23	1
10	QPSK	25	26	21.93	21.99	21.72				
10	QPSK	50	0	21.82	21.87	21.66				
10	QPSK	50	21	21.89	21.94	21.70			23	1
10	16QAM	1	25	21.72	21.80	21.73				
10	16QAM	5	49	21.79	21.89	21.97				
10	16QAM	25	0	20.94	20.99	20.71				
10	16QAM	25	12	20.94	20.97	20.73			22	2
10	16QAM	25	25	20.99	21.03	20.76				
10	16QAM	50	0	20.37	20.43	20.47				
10	16QAM	1	0	20.56	20.58	20.46				
10	16QAM	1	25	20.57	20.59	20.51			22	2
10	16QAM	1	49	20.57	20.63	20.51				
10	16QAM	25	0	19.57	19.46	19.43				
10	16QAM	25	12	19.46	19.40	19.53			21	3
10	16QAM	25	25	19.59	19.53	19.54				
10	16QAM	50	0	19.58	19.58	19.49				
10	16QAM	1	0	17.62	17.66	17.48				
10	256QAM	1	25	17.69	17.52	17.81			19	5
10	256QAM	1	49	17.49	17.69	17.46				
10	256QAM	1	24	17.52	17.52	17.52				
10	256QAM	25	12	17.55	17.39	17.42			19	5
10	256QAM	25	25	17.57	17.42	17.53				
10	256QAM	50	0	17.60	17.43	17.48				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.55	22.52	22.55				
5	QPSK	1	25	22.55	22.52	22.51			24	0
5	QPSK	1	49	22.55	22.52	22.51				
5	QPSK	12	0	21.83	21.81	21.84				
5	QPSK	12	13	21.88	21.86	21.81			23	1
5	QPSK	25	0	21.83	21.81	21.81				
5	QPSK	25	13	21.83	21.81	21.81			23	1
5	16QAM	1	12	21.57	21.78	21.77			23	1
5	16QAM	1	24	21.78	21.83	21.70				
5	16QAM	12	0	20.56	20.54	20.56				
5	16QAM	12	7	20.54	20.54	20.54			22	2
5	16QAM	12	13	20.56	20.54	20.56				
5	16QAM	25	0	20.59	20.59	20.40				
5	16QAM	1	0	20.41	20.73	20.42			22	2
5	16QAM	1	49	20.41	20.63	20.41				
5	16QAM	1	24	20.37	20.57	20.42			21	3
5	16QAM	12	0	19.83	19.47	19.43				
5	16QAM	12	7	19.53	19.59	19.54			21	3
5	16QAM	12	13	19.57	19.50	19.45				
5	16QAM	25	0	19.86	19.87	19.68				
5	16QAM	1	0	17.54	17.55	17.67			19	5
5	256QAM	1	12	17.61	17.63	17.61				
5	256QAM	1	24	17.57	17.54	17.49				
5	256QAM	12	0	17.50	17.50	17.50				
5	256QAM	12	7	17.50	17.50	17.53			19	5
5	256QAM	12	13	17.51	17.36	17.47				
5	256QAM	25	0	17.40	17.43	17.43				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.65	22.66	22.65				
3	QPSK	1	14	22.54	22.47	22.55			24	0
3	QPSK	1	28	22.48	22.42	22.48				
3	QPSK	3	0	21.48	21.52	21.81				
3	QPSK	3	7	21.40	21.50	21.30			23	1
3	16QAM	1	0	21.89	21.80	21.79				
3	16QAM	1	8	21.84	21.81	21.59			23	1
3	16QAM	8	0	20.55	20.59	20.69				
3	16QAM	8	4	20.56	20.64	20.50			22	2
3	16QAM	15	0	20.51	20.48	20.70				
3	16QAM	15	0	20.48	20.48	20.54				
3	16QAM	1	0	20.40	20.73	20.50			22	2
3	16QAM	1	8	20.40	20.52	20.33				
3	16QAM	1	14	20.43	20.51	20.39			21	3
3	16QAM	8	0	19.81	19.56	19.55				
3	16QAM	8	4	19.55	19.47	19.50				
3	16QAM	8	7	19.41	19.52	19.36				
3	16QAM	15	0	19.55	19.47	19.50				
3	256QAM	1	14	17.46	17.54	17.49			19	5
3	256QAM	1	28	17.66	17.50	17.48				
3	256QAM	8	4	17.56	17.38	17.41			19	5
3	256QAM	8	7	17.53	17.47	17.43				
3	256QAM	15	0	17.48	17.43	17.63				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.40	22.57	22.44				
1.4	QPSK	1	5	22.43	22.42	22.45			24	0
1.4	QPSK	3	0	22.43	22.52	22.61				
1.4	QPSK	3	3	22.47	22.50	22.59			23	1
1.4	16QAM	1	0	21.98	21.82	21.87				
1.4	16QAM	1	3	21.79	21.68	21.79			23	1
1.4	16QAM	1	6	21.74	21.90	21.56				
1.4	16QAM	1	9	21.68	21.82	21.87				
1.4	16QAM	3	0	21.40	21.69	21.86			23	1
1.4	16QAM	3	1	21.36	21.39	21.47				
1.4	16QAM	6	0	20.36	20.51	20.48			22	2
1.4	16QAM	1	0	20.61	20.56	20.38				
1.4	16QAM	1	3	20.51	20.41	20.42			22	2
1.4	16QAM	1	6	20.44	20.44	20.49				
1.4	16QAM	3	0	20.59	20.43	20.66			22	2
1.4	16QAM	3	4	20.38	20.62	20.44				
1.4	16QAM	3	7	20.37	20.50	20.36			21	3
1.4	16QAM	6	0	19.86	19.61	19.46				
1.4	256QAM	1	3	17.55	17.56	17.42			19	5
1.4	256QAM	1	6	17.44	17.56	17.66				
1.4	256QAM	3	0	17.48	17.53	17.61				
1.4	256QAM	3	1	17.56	17.50	17.54			19	5
1.4	256QAM	3	4	17.51	17.37	17.51				
1.4	256QAM	3	7	17.46	17.38	17.54			19	5

Band 13 Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Turn-up time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.66	22.63	22.63			24	0
10	QPSK	1	25	22.66	22.63	22.63				
10	QPSK	1	49	22.66	22.63	22.63				
10	QPSK	25	0	21.98	21.94	21.94				
10	QPSK	25	13	21.98	21.94	21.94			23	1
10	QPSK	50	0	21.93	21.93	21.93				
10	16QAM	1	25	21.70	21.70	21.70				
10	16QAM	1	49	21.79	21.79	21.79				
10	16QAM	25	0	20.94	20.98	20.98				
10	16QAM	25	12	20.94	20.98	20.98			22	2
10	16QAM	25	25	20.99	20.99	20.99				
10	16QAM	50	0	20.37	20.43	20.47				
10	16QAM	1	0	20.56	20.58	20.46				
10	16QAM	1	25	20.59	20.59	20.48			22	2
10	16QAM	1	49	20.57	20.63	20.48				
10	16QAM	25	0	19.54	19.44	19.43				
10	16QAM	25	12	19.46	19.40	19.53			21	3
10	16QAM	25	25	19.59	19.53	19.54				
10	16QAM	50	0	19.58	19.58	19.49				
10	16QAM	1	0	17.62	17.66	17.48				
10	256QAM	1	25	17.69	17.52	17.81			19	5
10	256QAM	1	49	17.57	17.69	17.46				
10	256QAM	1								



Band 66 Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mide Ch / Freq.	Power High Ch / Freq.	Time-up limit (min)	MPE (dB)		
Channel										
				13202	13202	13202				
				1750	1745	1770				
20	QPSK	1	0	22.29	22.96	22.43			24	0
20	QPSK	1	49	22.92	22.94	22.39				
20	QPSK	1	99	22.82	22.43	22.24				
20	QPSK	50	0	21.54	21.94	21.46			23	1
20	QPSK	50	24	21.57	21.92	21.52				
20	QPSK	50	50	21.36	21.59	21.61				
20	QPSK	100	0	21.43	21.84	21.54				
20	16QAM	1	0	21.55	21.93	21.52			23	1
20	16QAM	1	49	21.58	21.53	21.38				
20	16QAM	1	99	21.47	21.25	21.46				
20	16QAM	50	0	20.68	20.88	20.73			22	2
20	16QAM	50	24	20.83	20.56	20.59				
20	16QAM	50	50	20.61	20.86	20.62				
20	16QAM	100	0	20.69	20.84	20.91				
20	64QAM	1	0	20.77	20.88	20.79			22	2
20	64QAM	1	49	20.75	20.79	20.82				
20	64QAM	1	99	20.71	20.88	20.69				
20	64QAM	50	0	19.38	19.44	19.48			21	3
20	64QAM	50	24	19.58	19.68	19.62				
20	64QAM	50	50	19.33	19.47	19.46				
20	64QAM	100	0	19.28	19.69	19.38				
20	256QAM	1	0	17.38	17.47	17.56			19	5
20	256QAM	1	49	17.44	17.33	17.48				
20	256QAM	1	99	17.73	17.64	17.52				
20	256QAM	50	0	17.38	17.46	17.46				
20	256QAM	50	24	17.58	17.35	17.60			19	5
20	256QAM	50	50	17.46	17.62	17.49				
20	256QAM	100	0	17.37	17.44	17.51				
Channel										
				13247	13232	13267				
				1717.5	1745	1772.5				
15	QPSK	1	0	22.09	22.46	22.21			24	0
15	QPSK	1	37	22.42	22.42	22.31				
15	QPSK	1	74	22.31	22.35	22.21				
15	QPSK	36	0	21.27	21.32	21.45			23	1
15	QPSK	36	20	21.69	21.93	21.93				
15	QPSK	36	36	21.15	21.47	21.42				
15	16QAM	1	0	21.32	21.44	21.39				
15	16QAM	1	0	21.35	21.34	21.51			23	1
15	16QAM	1	37	21.59	21.54	21.28				
15	16QAM	1	74	21.47	21.38	21.28				
15	16QAM	36	0	20.50	20.87	20.67			22	2
15	16QAM	36	20	20.84	20.65	20.74				
15	16QAM	36	36	20.63	20.79	20.77				
15	64QAM	1	0	20.75	20.79	20.74			22	2
15	64QAM	1	37	20.70	20.77	20.68				
15	64QAM	1	74	20.63	20.86	20.54			21	3
15	64QAM	36	0	19.31	19.27	19.29				
15	64QAM	36	20	19.51	19.54	19.63				
15	64QAM	36	36	19.21	19.42	19.25				
15	64QAM	75	0	19.57	19.46	19.34				
15	256QAM	1	0	17.33	17.52	17.48			19	5
15	256QAM	1	37	17.33	17.28	17.47				
15	256QAM	1	74	17.65	17.63	17.38				
15	256QAM	36	0	17.28	17.32	17.52				
15	256QAM	36	20	17.59	17.32	17.45			19	5
15	256QAM	36	36	17.27	17.53	17.34				
15	256QAM	75	0	17.37	17.42	17.62				
Channel										
				13302	13302	13302				
				1715	1745	1775				
10	QPSK	1	0	22.23	22.61	22.24			24	0
10	QPSK	1	25	22.49	22.52	22.32				
10	QPSK	1	49	22.43	22.28	22.18				
10	QPSK	25	0	21.36	21.93	21.43			23	1
10	QPSK	25	12	21.57	21.42	21.35				
10	QPSK	25	25	21.21	21.59	21.53				
10	16QAM	1	0	21.43	21.54	21.46				
10	16QAM	1	0	21.39	21.49	21.48			23	1
10	16QAM	1	25	21.42	21.38	21.39				
10	16QAM	1	49	21.48	21.44	21.29				
10	16QAM	25	0	20.81	20.77	20.60			22	2
10	16QAM	25	12	20.80	20.56	20.69				
10	16QAM	25	25	20.78	20.71	20.64				
10	16QAM	50	0	20.84	20.84	20.83				
10	64QAM	1	0	20.77	20.82	20.58			22	2
10	64QAM	1	25	20.81	20.60	20.75				
10	64QAM	1	49	20.67	20.86	20.84			21	3
10	64QAM	25	0	19.16	19.36	19.24				
10	64QAM	25	12	19.51	19.54	19.65				
10	64QAM	25	25	19.36	19.39	19.32				
10	64QAM	50	0	19.11	19.40	19.28				
10	256QAM	1	0	17.54	17.61	17.75			19	5
10	256QAM	1	25	17.73	17.60	17.75				
10	256QAM	1	49	17.69	17.75	17.77				
10	256QAM	25	0	17.65	17.58	17.65				
10	256QAM	25	12	17.89	17.52	17.81			19	5
10	256QAM	25	25	17.71	17.85	17.66				
10	256QAM	50	0	17.55	17.58	17.58				
Channel										
				13367	13332	13367				
				1742.5	1745	1747.5				
5	QPSK	1	0	22.17	22.49	22.41			24	0
5	QPSK	1	12	22.45	22.47	22.40				
5	QPSK	1	24	22.63	22.34	22.12				
5	QPSK	12	0	21.34	21.66	21.56			23	1
5	QPSK	12	7	21.42	21.45	21.44				
5	QPSK	12	13	21.18	21.48	21.44				
5	16QAM	1	0	21.22	21.53	21.59				
5	16QAM	1	12	21.39	21.48	21.38			23	1
5	16QAM	1	24	21.30	21.43	21.35				
5	16QAM	12	0	20.82	20.69	20.68			22	2
5	16QAM	12	7	20.85	20.59	20.85				
5	16QAM	12	13	20.62	20.86	20.72				
5	64QAM	1	0	20.78	20.72	20.70			22	2
5	64QAM	1	12	20.72	20.69	20.75				
5	64QAM	1	24	20.82	20.72	20.68				
5	64QAM	12	0	19.26	19.25	19.23			21	3
5	64QAM	12	7	19.47	19.51	19.56				
5	64QAM	12	13	19.32	19.54	19.39				
5	16QAM	25	0	19.27	19.42	19.15				
5	256QAM	1	0	17.39	17.43	17.35			19	5
5	256QAM	1	12	17.24	17.39	17.30				
5	256QAM	1	24	17.67	17.51	17.53				
5	256QAM	12	0	17.24	17.44	17.34				
5	256QAM	12	7	17.39	17.17	17.59			19	5
5	256QAM	12	13	17.27	17.69	17.46				
5	256QAM	25	0	17.24	17.27	17.48				
Channel										
				13467	13332	13367				
				1741.5	1745	1747.5				
3	QPSK	1	0	22.17	22.49	22.41			24	0
3	QPSK	1	8	22.30	22.41	22.20				
3	QPSK	1	14	22.63	22.29	22.37				
3	QPSK	8	0	21.35	21.44	21.33			23	1
3	QPSK	8	4	21.38	21.47	21.52				
3	QPSK	8	7	21.23	21.47	21.39				
3	16QAM	1	0	21.29	21.63	21.52				
3	16QAM	1	0	21.35	21.46	21.34			23	1
3	16QAM	1	8	21.45	21.46	21.23				
3	16QAM	1	14	21.45	21.60	21.34				
3	16QAM	8	0	20.48	20.59	20.62			22	2
3	16QAM									

Band 2 Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. Freq.	Power Ch. Freq.	Power Ch. Freq.	Turn-up (dB)	MFR (dB)		
20	QPSK	1	0	22.55	22.71	22.86				
20	QPSK	1	99	22.47	22.63	22.78			24	0
20	QPSK	50	0	21.84	21.89	21.93				
20	QPSK	50	24	21.85	21.90	21.95			23	1
20	QPSK	50	50	21.86	21.88	21.96				
20	QPSK	100	0	21.83	21.82	21.87				
20	QPSK	100	24	21.86	21.84	21.86			23	1
20	QPSK	100	49	21.85	21.82	21.89				
20	QPSK	150	0	21.74	21.77	21.71				
20	QPSK	150	24	21.76	21.80	21.82			22	2
20	QPSK	150	49	21.74	21.77	21.71				
20	QPSK	200	0	21.67	21.66	21.67				
20	QPSK	200	24	21.68	21.67	21.68			21	3
20	QPSK	200	49	21.67	21.66	21.67				
20	QPSK	250	0	21.58	21.57	21.57				
20	QPSK	250	24	21.59	21.58	21.58			21	3
20	QPSK	250	49	21.58	21.57	21.57				
20	QPSK	300	0	21.47	21.47	21.47			19	5
20	QPSK	300	24	21.47	21.47	21.47				
20	QPSK	300	49	21.47	21.47	21.47			19	5
20	QPSK	350	0	21.32	21.32	21.32				
20	QPSK	350	24	21.32	21.32	21.32			22	2
20	QPSK	350	49	21.32	21.32	21.32				
20	QPSK	400	0	21.17	21.17	21.17				
20	QPSK	400	24	21.17	21.17	21.17			23	1
20	QPSK	400	49	21.17	21.17	21.17				
20	QPSK	450	0	21.02	21.02	21.02				
20	QPSK	450	24	21.02	21.02	21.02			22	2
20	QPSK	450	49	21.02	21.02	21.02				
20	QPSK	500	0	20.87	20.87	20.87				
20	QPSK	500	24	20.87	20.87	20.87			21	3
20	QPSK	500	49	20.87	20.87	20.87				
20	QPSK	550	0	20.72	20.72	20.72				
20	QPSK	550	24	20.72	20.72	20.72			21	3
20	QPSK	550	49	20.72	20.72	20.72				
20	QPSK	600	0	20.57	20.57	20.57				
20	QPSK	600	24	20.57	20.57	20.57			21	3
20	QPSK	600	49	20.57	20.57	20.57				
20	QPSK	650	0	20.42	20.42	20.42				
20	QPSK	650	24	20.42	20.42	20.42			22	2
20	QPSK	650	49	20.42	20.42	20.42				
20	QPSK	700	0	20.27	20.27	20.27				
20	QPSK	700	24	20.27	20.27	20.27			22	2
20	QPSK	700	49	20.27	20.27	20.27				
20	QPSK	750	0	20.12	20.12	20.12				
20	QPSK	750	24	20.12	20.12	20.12			21	3
20	QPSK	750	49	20.12	20.12	20.12				
20	QPSK	800	0	19.97	19.97	19.97				
20	QPSK	800	24	19.97	19.97	19.97			22	2
20	QPSK	800	49	19.97	19.97	19.97				
20	QPSK	850	0	19.82	19.82	19.82				
20	QPSK	850	24	19.82	19.82	19.82			21	3
20	QPSK	850	49	19.82	19.82	19.82				
20	QPSK	900	0	19.67	19.67	19.67				
20	QPSK	900	24	19.67	19.67	19.67			21	3
20	QPSK	900	49	19.67	19.67	19.67				
20	QPSK	950	0	19.52	19.52	19.52				
20	QPSK	950	24	19.52	19.52	19.52			21	3
20	QPSK	950	49	19.52	19.52	19.52				
20	QPSK	1000	0	19.37	19.37	19.37				
20	QPSK	1000	24	19.37	19.37	19.37			21	3
20	QPSK	1000	49	19.37	19.37	19.37				
20	QPSK	1050	0	19.22	19.22	19.22				
20	QPSK	1050	24	19.22	19.22	19.22			22	2
20	QPSK	1050	49	19.22	19.22	19.22				
20	QPSK	1100	0	19.07	19.07	19.07				
20	QPSK	1100	24	19.07	19.07	19.07			21	3
20	QPSK	1100	49	19.07	19.07	19.07				
20	QPSK	1150	0	18.92	18.92	18.92				
20	QPSK	1150	24	18.92	18.92	18.92			21	3
20	QPSK	1150	49	18.92	18.92	18.92				
20	QPSK	1200	0	18.77	18.77	18.77				
20	QPSK	1200	24	18.77	18.77	18.77			21	3
20	QPSK	1200	49	18.77	18.77	18.77				
20	QPSK	1250	0	18.62	18.62	18.62				
20	QPSK	1250	24	18.62	18.62	18.62			21	3
20	QPSK	1250	49	18.62	18.62	18.62				
20	QPSK	1300	0	18.47	18.47	18.47				
20	QPSK	1300	24	18.47	18.47	18.47			21	3
20	QPSK	1300	49	18.47	18.47	18.47				
20	QPSK	1350	0	18.32	18.32	18.32				
20	QPSK	1350	24	18.32	18.32	18.32			21	3
20	QPSK	1350	49	18.32	18.32	18.32				
20	QPSK	1400	0	18.17	18.17	18.17				
20	QPSK	1400	24	18.17	18.17	18.17			21	3
20	QPSK	1400	49	18.17	18.17	18.17				
20	QPSK	1450	0	18.02	18.02	18.02				
20	QPSK	1450	24	18.02	18.02	18.02			21	3
20	QPSK	1450	49	18.02	18.02	18.02				
20	QPSK	1500	0	17.87	17.87	17.87				
20	QPSK	1500	24	17.87	17.87	17.87			21	3
20	QPSK	1500	49	17.87	17.87	17.87				
20	QPSK	1550	0	17.72	17.72	17.72				
20	QPSK	1550	24	17.72	17.72	17.72			21	3
20	QPSK	1550	49	17.72	17.72	17.72				
20	QPSK	1600	0	17.57	17.57	17.57				
20	QPSK	1600	24	17.57	17.57	17.57			21	3
20	QPSK	1600	49	17.57	17.57	17.57				
20	QPSK	1650	0	17.42	17.42	17.42				
20	QPSK	1650	24	17.42	17.42	17.42			21	3
20	QPSK	1650	49	17.42	17.42	17.42				
20	QPSK	1700	0	17.27	17.27	17.27				
20	QPSK	1700	24	17.27	17.27	17.27			21	3
20	QPSK	1700	49	17.27	17.27	17.27				
20	QPSK	1750	0	17.12	17.12	17.12				
20	QPSK	1750	24	17.12	17.12	17.12			21	3
20	QPSK	1750	49	17.12	17.12	17.12				
20	QPSK	1800	0	16.97	16.97	16.97				
20	QPSK	1800	24	16.97	16.97	16.97			21	3
20	QPSK	1800	49	16.97	16.97	16.97				
20	QPSK	1850	0	16.82	16.82	16.82				
20	QPSK	1850	24	16.82	16.82	16.82			21	3
20	QPSK	1850	49	16.82	16.82	16.82				
20	QPSK	1900	0	16.67	16.67	16.67				
20	QPSK	1900	24	16.67	16.67	16.67			21	3
20	QPSK	1900	49	16.67	16.67	16.67				
20	QPSK	1950	0	16.52	16.52	16.52				
20	QPSK	1950	24	16.52	16.52	16.52			21	3
20	QPSK	1950	49	16.52	16.52	16.52				
20	QPSK	2000	0	16.37	16.37	16.37				
20	QPSK	2000	24	16.37	16.37	16.37			21	3
20	QPSK	2000	49	16.37	16.37	16.37				
20	QPSK	2050	0	16.22	16.22	16.22				
20	QPSK	2050	24	16.22	16.22	16.22			22	2
20	QPSK	2050	49	16.22	16.22	16.22				
20	QPSK	2100	0	16.07	16.07	16.07				
20	QPSK	2100	24	16.07	16.07	16.07			22	2
20	QPSK	2100	49	16.07	16.07	16.07				
20	QPSK	2150	0	15.92	15.92	15.92				
20	QPSK	2150	24	15.92	15.92	15.92			22	2
20	QPSK	2150	49	15.92	15.92	15.92				
20	QPSK	2200	0	15.77	15.77	15.77				
20	QPSK	2200	24	15.77	15.77	15.77			22	2
20	QPSK	2200	49	15.77	15.77	15.77				
20	QPSK	2250	0	15.62	15.62	15.62				
20	QPSK	2250	24	15.62	15.62	15.62			22	2
20	QPSK	2250	49	15.62	15.62	15.62				
20	QPSK	2300	0	15.47	15.47	15.47				
20	QPSK	2300	24	15.47	15.47	15.47			22	2
20	QPSK	2300	49	15.47	15.47	15.47				
20	QPSK	2350	0	15.32	15.32	15.32				
20	QPSK	2350	24	15.32	15.32	15.32			22	2
20	QPSK	2350	49	15.32	15.32	15.32				
20	QPSK	2400	0	15.17	15.17	15.17				
20	QPSK	2400	24	15.17	15.17	15.17			22	2
20	QPSK	2400	49	15.17	15.17	15.17				
20	QPSK	2450	0	15.02	15.02	15.02				
20	QPSK	2450	24	15.02	15.02	15.02			22	2



Band 66 Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power High Ch. Freq.	Power Max Ch. Freq.	Turn-off time (sec)	APR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.92	22.41	22.52				
20	QPSK	1	48	22.94	22.37	22.38			24	0
20	QPSK	1	96	22.31	22.32	22.36				
20	QPSK	50	0	21.19	21.40	21.37				
20	QPSK	50	24	21.23	21.33	21.23			23	1
20	QPSK	50	50	21.27	21.38	21.32				
20	QPSK	100	0	21.17	21.37	21.31				
20	16QAM	1	0	21.35	21.43	21.43				
20	16QAM	1	48	21.39	21.48	21.36			23	1
20	16QAM	1	96	21.21	21.39	21.19				
20	16QAM	50	0	20.24	20.38	20.18				
20	16QAM	50	24	20.37	20.37	20.37			22	2
20	16QAM	50	50	20.33	20.34	20.25				
20	16QAM	100	0	20.25	20.36	20.21				
20	84QAM	1	0	20.34	20.37	20.27				
20	84QAM	1	48	20.35	20.39	20.33			22	2
20	84QAM	1	96	20.10	20.32	20.20				
20	84QAM	50	0	19.38	19.40	19.22				
20	84QAM	50	24	19.49	19.39	19.17			21	3
20	84QAM	50	50	19.17	19.27	19.38				
20	84QAM	100	0	19.15	19.35	19.22				
20	256QAM	1	0	17.06	17.29	17.09				
20	256QAM	1	48	17.13	17.20	17.15			19	5
20	256QAM	1	96	17.09	17.21	17.16				
20	256QAM	50	0	17.25	17.38	17.25				
20	256QAM	50	24	17.31	17.38	17.19			19	5
20	256QAM	50	50	17.25	17.35	17.21				
20	256QAM	100	0	17.20	17.35	17.20				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.26	22.32	22.13				
15	QPSK	1	37	22.18	22.37	22.27			24	0
15	QPSK	1	74	22.18	22.21	22.14				
15	QPSK	36	0	21.04	21.33	21.32				
15	QPSK	36	20	21.04	21.22	21.09			23	1
15	QPSK	36	39	21.20	21.17	21.32				
15	QPSK	75	0	21.00	21.29	21.18				
15	16QAM	1	0	21.29	21.40	21.44				
15	16QAM	1	37	21.19	21.40	21.18			23	1
15	16QAM	1	74	21.09	21.39	21.32				
15	16QAM	36	0	20.03	20.20	20.15				
15	16QAM	36	20	20.21	20.26	20.24			22	2
15	16QAM	36	39	20.18	20.24	20.15				
15	16QAM	75	0	20.07	20.27	20.17				
15	84QAM	1	0	20.14	20.23	20.13			22	2
15	84QAM	1	37	20.32	20.34	20.20				
15	84QAM	1	74	20.11	20.13	20.04				
15	84QAM	36	0	19.34	19.28	19.08				
15	84QAM	36	20	19.36	19.21	19.27			21	3
15	84QAM	36	39	19.13	19.32	19.17				
15	84QAM	75	0	19.15	19.28	19.19				
15	256QAM	1	0	17.00	17.10	17.01				
15	256QAM	1	37	17.38	17.10	17.10			19	5
15	256QAM	1	74	17.31	17.10	17.09				
15	256QAM	36	0	17.30	17.30	17.07				
15	256QAM	36	20	17.11	17.20	17.07			19	5
15	256QAM	36	39	17.22	17.16	17.22				
15	256QAM	75	0	17.11	17.33	17.18				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.08	22.16	22.28				
10	QPSK	1	25	22.08	22.24	22.18			24	0
10	QPSK	1	49	22.27	22.32	22.31				
10	QPSK	25	0	21.16	21.37	21.34				
10	QPSK	25	12	21.05	21.25	21.05			23	1
10	QPSK	25	25	21.24	21.23	21.12				
10	16QAM	50	0	21.07	21.30	21.18				
10	16QAM	1	0	21.25	21.22	21.20				
10	16QAM	1	26	21.40	21.24	21.14			23	1
10	16QAM	1	49	21.00	21.26	21.07				
10	16QAM	25	0	20.07	20.31	20.15				
10	16QAM	25	12	20.25	20.27	20.27			22	2
10	16QAM	25	25	20.30	20.28	20.11				
10	16QAM	50	0	20.20	20.31	20.20				
10	84QAM	1	0	20.26	20.17	20.16			22	2
10	84QAM	1	25	20.30	20.10	20.17				
10	84QAM	1	49	20.19	20.22	20.10				
10	84QAM	25	0	19.36	19.20	19.24				
10	84QAM	25	12	19.32	19.27	19.13			21	3
10	84QAM	25	25	19.00	19.34	19.39				
10	84QAM	50	0	18.08	19.13	19.11				
10	256QAM	1	0	17.25	17.10	17.05				
10	256QAM	1	26	17.11	17.28	17.16			19	5
10	256QAM	1	49	17.01	17.21	17.15				
10	256QAM	25	0	17.22	17.20	17.08				
10	256QAM	25	12	17.24	17.23	17.17			19	5
10	256QAM	25	25	17.26	17.13	16.99				
10	256QAM	50	0	17.14	17.27	17.27				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.31	22.31	22.31				
5	QPSK	1	12	22.11	22.30	22.33			24	0
5	QPSK	1	24	22.17	22.32	22.27				
5	QPSK	12	0	21.36	21.26	21.21				
5	QPSK	12	7	21.21	21.22	21.32			23	1
5	QPSK	12	13	21.09	21.32	21.18				
5	QPSK	25	0	21.36	21.27	21.18				
5	16QAM	1	0	21.25	21.35	21.21				
5	16QAM	1	12	21.38	21.32	21.14			23	1
5	16QAM	1	24	21.11	21.21	21.38				
5	16QAM	12	0	20.04	20.39	20.17				
5	16QAM	12	7	20.34	20.26	20.16			22	2
5	16QAM	12	13	20.17	20.23	20.19				
5	16QAM	25	0	20.19	20.33	20.42				
5	84QAM	1	0	20.30	20.23	20.11			22	2
5	84QAM	1	12	20.31	20.20	20.28				
5	84QAM	1	24	20.20	20.09	20.10				
5	84QAM	12	0	19.37	19.42	19.11				
5	84QAM	12	7	19.33	19.29	19.13			21	3
5	84QAM	12	13	19.17	19.38	19.38				
5	84QAM	25	0	19.04	19.36	19.32				
5	256QAM	1	0	17.04	17.36	17.28				
5	256QAM	1	12	17.09	17.09	17.12			19	5
5	256QAM	1	24	17.30	17.12	17.16				
5	256QAM	12	0	17.14	17.17	17.04				
5	256QAM	12	7	17.19	17.31	17.14			19	5
5	256QAM	12	13	17.25	17.14	17.06				
5	256QAM	25	0	17.11	17.19	17.09				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.15	22.23	22.23				
3	QPSK	1	8	22.21	22.23	22.26			24	0
3	QPSK	1	14	22.24	22.33	22.32				
3	QPSK	8	0	21.13	21.32	21.29				
3	QPSK	8	4	21.13	21.24	21.04			23	1
3	QPSK	8	7	21.10	21.17	21.27				
3	QPSK	15	0	21.01	21.31	21.14				
3	16QAM	1	0	21.32	21.22	21.30				
3	16QAM	1	8	21.23	21.37	21.18			23	1
3	16QAM	1	14	21.19	21.38	21.12				
3	16QAM	8	0	20.11	20.39	20.05				
3	16QAM	8	4	20.26	20.34	20.28			22	2
3	16QAM	8	7	20.20	20.20	20.09				
3	16QAM	15	0	20.20	20.32	20.11				
3	84QAM	1	0	20.21						



Band 2 Ant 7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. Freq.	Power Ch. Freq.	Power Ch. Freq.	Turn-up (dB)	MFR (dB)		
Channel				1860	1860	1860				
20	QPSK	1	0	22.39	22.47	22.41			24	0
20	QPSK	1	99	22.37	22.44	22.41				
20	QPSK	50	0	21.28	21.45	21.39			23	1
20	QPSK	50	24	21.44	21.41	21.47				
20	QPSK	50	50	21.33	21.41	21.27				
20	QPSK	100	0	21.28	21.45	21.32			23	1
20	16QAM	1	49	21.31	21.48	21.40				
20	16QAM	1	99	21.48	21.47	21.41				
20	16QAM	50	0	20.38	20.26	20.28			22	2
20	16QAM	50	24	20.31	20.41	20.21				
20	16QAM	50	50	20.29	20.43	20.32				
20	16QAM	100	0	20.46	20.22	20.27				
20	16QAM	1	0	20.23	20.40	20.38				
20	16QAM	1	49	20.44	20.46	20.38			22	2
20	16QAM	1	99	20.30	20.42	20.38				
20	16QAM	50	24	19.24	19.43	19.38			21	3
20	16QAM	50	50	19.31	19.45	19.24				
20	16QAM	100	0	19.25	19.43	19.34				
20	16QAM	1	49	17.19	17.33	17.29			19	5
20	256QAM	1	99	17.11	17.32	17.27				
20	256QAM	50	0	17.26	17.45	17.23				
20	256QAM	50	24	17.23	17.42	17.33				
20	256QAM	50	50	17.32	17.43	17.30				
20	256QAM	100	0	17.26	17.42	17.27				
Channel				1865	1860	1815	Turn-up (dB)	MFR (dB)		
15	QPSK	1	0	22.37	22.34	22.31			24	0
15	QPSK	1	99	22.28	22.29	22.30				
15	QPSK	1	74	22.25	22.24	22.27				
15	QPSK	36	0	21.07	21.44	21.28			23	1
15	QPSK	36	24	21.25	21.27	21.29				
15	QPSK	36	99	21.20	21.42	21.40				
15	16QAM	1	49	21.11	21.43	21.16				
15	16QAM	1	99	21.24	21.23	21.40			23	1
15	16QAM	1	37	21.20	21.40	21.18				
15	16QAM	36	0	20.18	20.36	20.14				
15	16QAM	36	24	20.20	20.21	20.07			22	2
15	16QAM	36	99	20.28	20.29	20.08				
15	16QAM	75	0	20.41	20.34	20.19				
15	16QAM	1	0	20.22	20.41	20.30			22	2
15	16QAM	1	49	20.28	20.38	20.08				
15	16QAM	1	74	20.25	20.43	20.43				
15	16QAM	36	0	19.18	19.28	19.08			21	3
15	16QAM	36	24	19.28	19.34	19.23				
15	16QAM	36	99	19.25	19.27	19.17				
15	16QAM	75	0	19.18	19.43	19.23				
15	16QAM	1	49	17.17	17.37	17.27			19	5
15	256QAM	1	74	17.18	17.41	17.21				
15	256QAM	50	0	17.28	17.42	17.34				
15	256QAM	50	24	17.25	17.41	17.18				
15	256QAM	50	50	17.33	17.34	17.28				
15	256QAM	100	0	17.18	17.40	17.24				
Channel				1865	1860	1815	Turn-up (dB)	MFR (dB)		
10	QPSK	1	0	22.24	22.29	22.27			24	0
10	QPSK	1	49	22.38	22.38	22.42				
10	QPSK	25	0	21.37	21.36	21.22			23	1
10	QPSK	25	25	21.15	21.25	21.22				
10	16QAM	1	0	21.19	21.28	21.36				
10	16QAM	1	25	21.10	21.34	21.20			23	1
10	16QAM	1	49	20.38	20.44	20.44				
10	16QAM	25	0	20.13	20.31	20.21				
10	16QAM	25	12	20.23	20.33	20.19			22	2
10	16QAM	25	25	20.38	20.38	20.18				
10	16QAM	50	0	20.31	20.29	20.20				
10	16QAM	1	0	20.08	20.27	20.27			22	2
10	16QAM	1	49	20.27	20.43	20.44				
10	16QAM	1	99	20.25	20.29	20.16				
10	16QAM	25	0	19.12	19.34	19.17			21	3
10	16QAM	25	25	19.12	19.34	19.17				
10	16QAM	50	0	19.17	19.32	19.33				
10	16QAM	1	25	17.02	17.32	17.22			19	5
10	256QAM	1	49	17.03	17.32	17.32				
10	256QAM	50	0	17.20	17.32	17.22				
10	256QAM	50	12	17.07	17.43	17.33				
10	256QAM	50	25	17.22	17.24	17.19				
10	256QAM	100	0	17.18	17.44	17.34				
Channel				1865	1860	1815	Turn-up (dB)	MFR (dB)		
5	QPSK	1	0	22.41	22.40	22.40			24	0
5	QPSK	1	12	22.41	22.35	22.38				
5	QPSK	1	24	22.24	22.40	22.37				
5	QPSK	12	0	21.35	21.35	21.31			23	1
5	QPSK	12	7	21.31	21.40	21.12				
5	QPSK	12	13	21.27	21.21	21.10				
5	16QAM	1	0	21.11	21.25	21.15				
5	16QAM	1	0	21.26	21.43	21.37			23	1
5	16QAM	1	12	21.09	21.45	21.27				
5	16QAM	1	25	21.52	21.21	21.20				
5	16QAM	12	0	20.12	20.30	20.23				
5	16QAM	12	7	20.31	20.31	20.02			22	2
5	16QAM	12	13	20.11	20.21	20.12				
5	16QAM	25	0	20.25	20.21	20.14				
5	16QAM	1	0	20.18	20.29	20.32				
5	16QAM	1	49	20.45	20.38	20.38			22	2
5	16QAM	1	24	20.18	20.32	20.39				
5	16QAM	12	0	19.38	19.35	19.14				
5	16QAM	12	7	19.28	19.40	19.37			21	3
5	16QAM	12	13	19.27	19.44	19.24				
5	16QAM	25	0	19.22	19.31	19.13				
5	16QAM	25	13	19.17	19.19	19.07				
5	256QAM	1	12	17.05	17.39	17.24			19	5
5	256QAM	1	24	17.02	17.39	17.34				
5	256QAM	12	0	17.13	17.27	17.20				
5	256QAM	12	7	17.05	17.34	17.22				
5	256QAM	12	13	17.22	17.28	17.18				
5	256QAM	25	0	17.30	17.52	17.48				
Channel				1865	1860	1815	Turn-up (dB)	MFR (dB)		
3	QPSK	1	8	22.32	22.35	22.41			24	0
3	QPSK	1	14	22.32	22.33	22.33				
3	QPSK	1	14	22.22	22.40	22.37				
3	QPSK	8	4	21.31	21.45	21.18			23	1
3	QPSK	8	7	21.24	21.29	21.13				
3	16QAM	1	0	21.34	21.26	21.25				
3	16QAM	1	8	21.17	21.44	21.27			23	1
3	16QAM	1	14	21.38	21.29	21.26				
3	16QAM	8	0	20.32	20.31	20.18				
3	16QAM	8	4	20.20	20.24	20.02			22	2
3	16QAM	15	0	20.29	20.34	20.19				
3	16QAM	1	0	20.41	20.28	20.24			22	2
3	16QAM	1	14	20.32	20.24	20.25				
3	16QAM	8	0	19.35	19.35	19.18			21	3
3	16QAM	8	7	19.33	19.27	19.04				
3	256QAM	1	0	17.17	17.36	17.10				
3	256QAM	1	8	17.12	17.28	17.10			19	5
3	256QAM	8	0	17.13	17.33	17.16				
3	256QAM	8	7	17.17	17.29	17.06				
3	256QAM	8	4	17.21	17.41	17.23				
3	256QAM	15	0	17.17	17.37	17.16				
3	256QAM	15	0	17.17	17.38	17.28				
Channel				1867	1860	1815	Turn-up (dB)	MFR (dB)		
1.4										

Band 38 Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	23.14	23.17	23.11	24.5	0	
20	QPSK	1	49	23.11	23.08	22.93			
20	QPSK	1	99	23.07	23.01	22.93			
20	QPSK	50	0	22.05	22.08	21.99	23.5	1	
20	QPSK	50	24	21.89	21.98	21.99			
20	QPSK	50	50	21.97	21.97	22.01			
20	QPSK	100	0	22.01	22.09	21.96	23.5	1	
20	16QAM	1	0	22.02	22.06	22.11			
20	16QAM	1	49	21.92	22.07	22.12			
20	16QAM	1	99	22.04	22.05	22.04	22.5	2	
20	16QAM	50	0	20.88	20.98	21.07			
20	16QAM	50	24	21.04	20.86	20.99			
20	16QAM	50	50	20.91	21.03	20.86	22.5	2	
20	16QAM	100	0	21.05	20.86	20.89			
20	64QAM	1	0	21.02	20.98	21.01			
20	64QAM	1	49	21.08	20.91	20.94	22.5	2	
20	64QAM	1	99	20.91	20.97	20.96			
20	64QAM	50	0	20.03	19.89	20.04			
20	64QAM	50	24	19.99	19.95	19.91	21.5	3	
20	64QAM	50	50	20.04	19.99	19.97			
20	64QAM	100	0	20.06	20.04	20.10			
20	256QAM	1	0	17.85	17.87	17.85	19.5	5	
20	256QAM	1	49	17.94	17.92	17.87			
20	256QAM	1	99	17.78	17.96	17.93			
20	256QAM	50	0	17.85	17.77	17.83	19.5	5	
20	256QAM	50	24	17.83	17.97	17.85			
20	256QAM	50	50	17.77	17.76	17.81			
20	256QAM	100	0	17.79	17.86	17.94			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	22.98	23.12	23.16	24.5	0	
15	QPSK	1	37	23.06	22.92	22.88			
15	QPSK	1	74	22.93	22.93	22.95			
15	QPSK	36	0	22.05	22.14	21.83	23.5	1	
15	QPSK	36	20	21.81	21.92	21.92			
15	QPSK	36	39	21.81	21.84	22.01			
15	QPSK	75	0	21.95	21.99	21.97	23.5	1	
15	16QAM	1	0	22.04	22.10	22.00			
15	16QAM	1	37	21.96	22.09	22.16			
15	16QAM	1	74	22.02	22.08	22.04	22.5	2	
15	16QAM	36	0	20.71	21.02	20.96			
15	16QAM	36	20	20.89	20.76	20.90			
15	16QAM	36	39	20.92	20.91	20.77	22.5	2	
15	16QAM	75	0	21.11	20.76	20.90			
15	64QAM	1	0	20.95	20.84	20.87			
15	64QAM	1	37	21.10	20.89	20.89	22.5	2	
15	64QAM	1	74	20.81	21.02	20.93			
15	64QAM	36	0	20.07	19.94	19.97			
15	64QAM	36	20	19.88	19.81	19.83	21.5	3	
15	64QAM	36	39	20.09	19.98	19.94			
15	64QAM	75	0	20.09	20.09	20.14			
15	256QAM	1	0	17.73	17.80	17.74	19.5	5	
15	256QAM	1	37	17.98	17.69	17.79			
15	256QAM	1	74	17.83	17.97	17.97			
15	256QAM	36	0	17.73	17.81	17.72	19.5	5	
15	256QAM	36	20	17.71	17.84	17.74			
15	256QAM	36	39	17.83	17.65	17.90			
15	256QAM	75	0	17.73	17.81	17.99			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	23.11	23.14	23.13	24.5	0	
10	QPSK	1	25	23.10	23.06	22.81			
10	QPSK	1	49	23.13	22.92	22.86			
10	QPSK	25	0	21.95	21.95	21.89	23.5	1	
10	QPSK	25	12	21.85	21.91	21.92			
10	QPSK	25	25	21.98	21.85	21.98			
10	QPSK	50	0	22.03	22.00	21.90	23.5	1	
10	16QAM	1	0	22.08	21.91	22.03			
10	16QAM	1	25	21.93	22.11	22.02			
10	16QAM	1	49	21.91	22.05	21.88	22.5	2	
10	16QAM	25	0	20.84	20.98	21.11			
10	16QAM	25	12	21.05	20.72	20.89			
10	16QAM	25	25	20.79	20.96	20.92	22.5	2	
10	16QAM	50	0	21.11	20.92	20.95			
10	64QAM	1	0	20.95	20.88	20.96			
10	64QAM	1	25	20.94	20.78	20.84	22.5	2	
10	64QAM	1	49	20.93	20.98	20.87			
10	64QAM	25	0	19.88	19.85	20.08			
10	64QAM	25	12	19.98	19.86	19.85	21.5	3	
10	64QAM	25	25	19.96	20.00	19.91			
10	64QAM	50	0	20.01	19.98	20.14			
10	256QAM	1	0	17.90	17.88	17.91	19.5	5	
10	256QAM	1	25	17.94	17.69	17.74			
10	256QAM	1	49	17.83	17.84	17.84			
10	256QAM	25	0	17.80	17.83	17.69	19.5	5	
10	256QAM	25	12	17.86	17.89	17.70			
10	256QAM	25	25	17.70	17.71	17.95			
10	256QAM	50	0	17.76	17.86	18.01			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	23.05	23.13	22.99	24.5	0	
5	QPSK	1	12	23.00	22.97	22.94			
5	QPSK	1	24	23.00	22.88	22.77			
5	QPSK	12	0	22.08	22.12	21.98	23.5	1	
5	QPSK	12	7	21.88	21.88	21.95			
5	QPSK	12	13	21.87	22.01	21.93			
5	QPSK	25	0	21.97	22.06	22.01	23.5	1	
5	16QAM	1	0	21.99	22.00	21.99			
5	16QAM	1	12	21.77	21.94	22.05			
5	16QAM	1	24	22.01	21.91	21.98	22.5	2	
5	16QAM	12	0	20.74	20.92	20.91			
5	16QAM	12	7	21.07	20.78	21.01			
5	16QAM	12	13	20.75	20.97	20.77	22.5	2	
5	16QAM	25	0	21.03	20.72	20.74			
5	64QAM	1	0	20.99	20.96	21.00			
5	64QAM	1	12	21.08	20.86	20.83	22.5	2	
5	64QAM	1	24	20.81	20.83	20.98			
5	64QAM	12	0	20.06	19.83	20.09			
5	64QAM	12	7	19.88	20.01	19.76	21.5	3	
5	64QAM	12	13	20.04	20.04	19.84			
5	64QAM	25	0	19.98	19.93	20.12			
5	256QAM	1	0	17.75	17.73	17.72	19.5	5	
5	256QAM	1	12	17.90	17.88	17.83			
5	256QAM	1	24	17.83	17.97	17.98			
5	256QAM	12	0	17.91	17.71	17.73	19.5	5	
5	256QAM	12	7	17.69	17.96	17.91			
5	256QAM	12	13	17.84	17.75	17.88			
5	256QAM	25	0	17.70	17.73	17.86			

Band 41 Ant 4										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.91	23.06	23.19	23.12	23.10	24.5	0
20	QPSK	1	49	22.98	23.12	23.06	23.14	22.97		
20	QPSK	1	99	22.97	23.03	22.97	22.90	22.88		
20	QPSK	50	0	21.87	21.99	22.15	22.03	21.99	23.5	1
20	QPSK	50	24	21.86	21.91	21.98	21.82	22.01		
20	QPSK	50	50	22.11	22.00	21.96	22.14	22.05		
20	QPSK	100	0	21.88	21.95	21.99	21.94	21.96	23.5	1
20	16QAM	1	0	22.10	22.02	21.99	22.12	22.05		
20	16QAM	1	49	21.99	22.06	21.96	22.00	22.11		
20	16QAM	1	99	21.94	21.92	21.97	22.04	22.00	22.5	2
20	16QAM	50	0	21.01	21.09	20.87	21.04	21.01		
20	16QAM	50	24	20.71	21.02	20.80	20.94	20.85		
20	16QAM	50	50	21.09	20.74	21.09	20.83	20.72	22.5	2
20	16QAM	100	0	20.76	20.93	20.78	20.76	20.85		
20	64QAM	1	0	20.84	20.93	20.84	21.04	20.85		
20	64QAM	1	49	20.86	20.87	20.86	20.94	20.85	22.5	2
20	64QAM	1	99	20.95	20.82	20.84	20.90	20.99		
20	64QAM	50	0	19.87	19.91	19.73	20.02	20.01		

Band 38 Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	22.55	22.78	22.71	24.5	0	
20	QPSK	1	49	22.66	22.83	22.56			
20	QPSK	1	99	22.74	22.73	22.63			
20	QPSK	50	0	21.56	21.69	21.68			
20	QPSK	50	24	21.56	21.85	21.82	23.5	1	
20	QPSK	50	50	21.51	21.88	21.54			
20	QPSK	100	0	21.60	21.76	21.72			
20	16QAM	1	0	21.67	21.55	21.56			
20	16QAM	1	49	21.54	21.59	21.57	23.5	1	
20	16QAM	1	99	21.67	21.72	21.63			
20	16QAM	50	0	20.54	20.51	20.64			
20	16QAM	50	24	20.57	20.61	20.50			
20	16QAM	50	50	20.53	20.57	20.64	22.5	2	
20	16QAM	100	0	20.51	20.71	20.64			
20	64QAM	1	0	20.62	20.69	20.71			
20	64QAM	1	49	20.59	20.65	20.71			
20	64QAM	1	99	20.67	20.57	20.72	22.5	2	
20	64QAM	50	0	19.59	19.68	19.67			
20	64QAM	50	24	19.58	19.70	19.60			
20	64QAM	50	50	19.66	19.64	19.51			
20	64QAM	100	0	19.57	19.59	19.66	21.5	3	
20	256QAM	1	0	17.81	17.52	17.55			
20	256QAM	1	49	17.53	17.67	17.52			
20	256QAM	1	99	17.63	17.81	17.57			
20	256QAM	50	0	17.67	17.65	17.57	19.5	5	
20	256QAM	50	24	17.54	17.59	17.61			
20	256QAM	50	50	17.57	17.63	17.52			
20	256QAM	100	0	17.64	17.59	17.58			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	22.60	22.74	22.73	24.5	0	
15	QPSK	1	37	22.55	22.56	22.56			
15	QPSK	1	74	22.61	22.74	22.55			
15	QPSK	36	0	21.58	21.62	21.52			
15	QPSK	36	20	21.54	21.59	21.53	23.5	1	
15	QPSK	36	39	21.57	21.62	21.57			
15	QPSK	75	0	21.66	21.63	21.58			
15	16QAM	1	0	21.63	21.54	21.68			
15	16QAM	1	37	21.54	21.66	21.67	23.5	1	
15	16QAM	1	74	21.58	21.58	21.56			
15	16QAM	36	0	20.58	20.54	20.57			
15	16QAM	36	20	20.55	20.53	20.50			
15	16QAM	36	39	20.57	20.52	20.51	22.5	2	
15	16QAM	75	0	20.67	20.67	20.65			
15	64QAM	1	0	20.55	20.59	20.77			
15	64QAM	1	37	20.53	20.59	20.61			
15	64QAM	1	74	20.61	20.57	20.69	22.5	2	
15	64QAM	36	0	19.60	19.58	19.67			
15	64QAM	36	20	19.69	19.76	19.67			
15	64QAM	36	39	19.53	19.66	19.63			
15	64QAM	75	0	19.60	19.65	19.68	21.5	3	
15	256QAM	1	0	17.52	17.52	17.51			
15	256QAM	1	37	17.57	17.73	17.55			
15	256QAM	1	74	17.58	17.52	17.62			
15	256QAM	36	0	17.70	17.51	17.56	19.5	5	
15	256QAM	36	20	17.52	17.52	17.53			
15	256QAM	36	39	17.53	17.61	17.55			
15	256QAM	75	0	17.69	17.57	17.52			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	22.53	22.62	22.74	24.5	0	
10	QPSK	1	25	22.61	22.57	22.54			
10	QPSK	1	49	22.64	22.68	22.58			
10	QPSK	25	0	21.66	21.70	21.54			
10	QPSK	25	12	21.53	21.68	21.51	23.5	1	
10	QPSK	25	25	21.58	21.54	21.52			
10	QPSK	50	0	21.65	21.72	21.62			
10	16QAM	1	0	21.63	21.58	21.60			
10	16QAM	1	25	21.60	21.57	21.63	23.5	1	
10	16QAM	1	49	21.68	21.69	21.59			
10	16QAM	25	0	20.52	20.50	20.62			
10	16QAM	25	12	20.56	20.60	20.65			
10	16QAM	25	25	20.52	20.64	20.51	22.5	2	
10	16QAM	50	0	20.52	20.76	20.60			
10	64QAM	1	0	20.52	20.62	20.74			
10	64QAM	1	25	20.53	20.51	20.56			
10	64QAM	1	49	20.62	20.66	20.68	22.5	2	
10	64QAM	25	0	19.55	19.56	19.59			
10	64QAM	25	12	19.62	19.72	19.67			
10	64QAM	25	25	19.65	19.66	19.53			
10	64QAM	50	0	19.59	19.50	19.59	21.5	3	
10	256QAM	1	0	17.51	17.54	17.59			
10	256QAM	1	25	17.54	17.71	17.55			
10	256QAM	1	49	17.62	17.60	17.50			
10	256QAM	25	0	17.60	17.52	17.58	19.5	5	
10	256QAM	25	12	17.55	17.64	17.62			
10	256QAM	25	25	17.54	17.67	17.55			
10	256QAM	50	0	17.64	17.51	17.55			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	22.55	22.67	22.63	24.5	0	
5	QPSK	1	12	22.65	22.65	22.53			
5	QPSK	1	24	22.62	22.75	22.51			
5	QPSK	12	0	21.58	21.62	21.55			
5	QPSK	12	7	21.56	21.69	21.63	23.5	1	
5	QPSK	12	13	21.51	21.74	21.58			
5	QPSK	25	0	21.56	21.68	21.62			
5	16QAM	1	0	21.73	21.65	21.68			
5	16QAM	1	12	21.56	21.71	21.72	23.5	1	
5	16QAM	1	24	21.50	21.61	21.56			
5	16QAM	12	0	20.60	20.57	20.55			
5	16QAM	12	7	20.57	20.60	20.54			
5	16QAM	12	13	20.60	20.51	20.59	22.5	2	
5	16QAM	25	0	20.50	20.60	20.54			
5	64QAM	1	0	20.61	20.61	20.63			
5	64QAM	1	12	20.54	20.55	20.75			
5	64QAM	1	24	20.60	20.56	20.77	22.5	2	
5	64QAM	12	0	19.57	19.74	19.62			
5	64QAM	12	7	19.55	19.68	19.62			
5	64QAM	12	13	19.53	19.56	19.55			
5	64QAM	25	0	19.61	19.52	19.67	21.5	3	
5	256QAM	1	0	17.58	17.62	17.50			
5	256QAM	1	12	17.52	17.64	17.56			
5	256QAM	1	24	17.63	17.53	17.57			
5	256QAM	12	0	17.52	17.56	17.55	19.5	5	
5	256QAM	12	7	17.61	17.55	17.62			
5	256QAM	12	13	17.62	17.51	17.50			
5	256QAM	25	0	17.53	17.50	17.62			

Band 41 Ant 5										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.69	22.54	22.97	22.88	22.87	24.5	0
20	QPSK	1	49	22.65	22.57	22.71	22.93	22.89		
20	QPSK	1	99	22.60	22.50	22.75	22.86	22.91		
20	QPSK	50	0	21.68	21.67	21.96	21.89	21.88		
20	QPSK	50	24	21.70	21.57	21.62	21.92	21.90	23.5	1
20	QPSK	50	50	21.66	21.51	21.68	21.85	21.73		
20	QPSK	100	0	21.67	21.69	21.96	21.93	21.96		
20	16QAM	1	0	21.67	21.75	22.03	21.86	21.82		
20	16QAM	1	49	21.70	21.69	21.96	21.84	21.80	23.5	1
20	16QAM	1	99	21.60	21.57	21.95	21.82	21.87		
20	16QAM	50	0	20.65	20.69	20.67	20.54	20.67		
20	16QAM	50	24	20.59	20.51	20.54	20.64	20.68		
20	16QAM	50	50	20.52	20.64	20.54	20.66	20.51	22.5	2
20	16QAM	100	0	20.51	20.64	20.66	20.53	20.53		
20	64QAM	1	0	20.56	20.64	20.50	20.54	20.61		
20	64QAM	1	49	20.58	20.63	20.64	20.61	20.54		
20	64QAM	1	99	20.59	20.71	20.61	20.58	20.54	22.5	2
20	64QAM	50	0	19.64	19.54	19.57	19.59	19.54		
20	64QAM	50	24	19.57	19.53	19.53	19.51	19.57		
20	64QAM	50	50	19.64	19.51	19.58	19.54	19.63		
20	64QAM	100	0	19.60	19.65	19.61	19.58	19.66	21.5	3
20	256QAM									

Band 38 Ant 7										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	23.02	23.17	23.00	24.5	0		
20	QPSK	1	49	23.10	23.11	22.95				
20	QPSK	1	99	23.02	23.13	23.10				
20	QPSK	50	0	22.00	22.06	22.05	23.5	1		
20	QPSK	50	24	21.93	22.04	21.91				
20	QPSK	50	50	22.00	22.03	21.94				
20	QPSK	100	0	22.04	22.06	22.05	23.5	1		
20	16QAM	1	0	21.96	21.95	22.10				
20	16QAM	1	49	21.95	21.97	21.92				
20	16QAM	1	99	21.97	21.93	22.07	22.5	2		
20	16QAM	50	0	20.93	21.01	20.93				
20	16QAM	50	24	20.89	20.92	20.82				
20	16QAM	50	50	20.80	20.83	20.94	22.5	2		
20	16QAM	100	0	20.99	20.83	20.92				
20	64QAM	1	0	21.00	20.84	20.86				
20	64QAM	1	49	20.98	21.02	20.90	22.5	2		
20	64QAM	1	99	20.98	20.99	20.85				
20	64QAM	50	0	20.03	20.01	19.89				
20	64QAM	50	24	19.87	20.02	19.89	21.5	3		
20	64QAM	50	50	19.92	19.95	19.96				
20	64QAM	100	0	20.01	19.85	19.94				
20	256QAM	1	0	17.83	17.88	17.71	19.5	5		
20	256QAM	1	49	17.89	17.79	17.75				
20	256QAM	1	99	17.76	17.83	17.72				
20	256QAM	50	0	17.87	17.72	17.84	19.5	5		
20	256QAM	50	24	17.71	17.80	17.81				
20	256QAM	50	50	17.71	17.75	17.87				
20	256QAM	100	0	17.73	17.83	17.76				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	22.92	22.96	22.85	24.5	0		
15	QPSK	1	37	23.07	22.97	22.74				
15	QPSK	1	74	22.81	23.00	23.06				
15	QPSK	36	0	21.79	22.08	21.92	23.5	1		
15	QPSK	36	20	21.92	21.85	21.73				
15	QPSK	36	39	21.87	21.99	21.87				
15	QPSK	75	0	22.02	22.01	22.03	23.5	1		
15	16QAM	1	0	21.90	21.74	21.92				
15	16QAM	1	37	21.82	21.95	21.83				
15	16QAM	1	74	21.95	21.79	22.08	22.5	2		
15	16QAM	36	0	20.93	20.87	20.75				
15	16QAM	36	20	20.88	20.80	20.62				
15	16QAM	36	39	20.64	20.72	20.77	22.5	2		
15	16QAM	75	0	21.00	20.77	20.92				
15	64QAM	1	0	21.01	20.72	20.78				
15	64QAM	1	37	20.83	20.89	20.71	22.5	2		
15	64QAM	1	74	20.98	20.79	20.81				
15	64QAM	36	0	19.88	19.93	19.83				
15	64QAM	36	20	19.67	19.86	19.85	21.5	3		
15	64QAM	36	39	19.71	19.85	19.78				
15	64QAM	75	0	20.00	19.67	19.90				
15	256QAM	1	0	17.84	17.75	17.64	19.5	5		
15	256QAM	1	37	17.70	17.88	17.55				
15	256QAM	1	74	17.61	17.80	17.66				
15	256QAM	36	0	17.86	17.74	17.74	19.5	5		
15	256QAM	36	20	17.70	17.76	17.75				
15	256QAM	36	39	17.62	17.62	17.78				
15	256QAM	75	0	17.52	17.66	17.70				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	22.81	23.14	23.01	24.5	0		
10	QPSK	1	25	22.95	22.96	22.87				
10	QPSK	1	49	22.92	22.91	23.04				
10	QPSK	25	0	21.83	22.00	21.93	23.5	1		
10	QPSK	25	12	21.88	22.02	21.93				
10	QPSK	25	25	21.99	21.98	21.90				
10	QPSK	50	0	21.97	21.89	21.85	23.5	1		
10	16QAM	1	0	21.97	21.82	21.97				
10	16QAM	1	25	21.79	21.90	21.84				
10	16QAM	1	49	21.96	21.83	22.06	22.5	2		
10	16QAM	25	0	20.85	20.92	20.84				
10	16QAM	25	12	20.71	20.77	20.70				
10	16QAM	25	25	20.60	20.62	20.85	22.5	2		
10	16QAM	50	0	20.85	20.69	20.92				
10	64QAM	1	0	20.99	20.65	20.82				
10	64QAM	1	25	20.76	21.03	20.75	22.5	2		
10	64QAM	1	49	20.95	20.82	20.65				
10	64QAM	25	0	19.95	20.02	19.80				
10	64QAM	25	12	19.77	19.93	19.77	21.5	3		
10	64QAM	25	25	19.81	19.88	19.74				
10	64QAM	50	0	19.88	19.66	19.73				
10	256QAM	1	0	17.77	17.75	17.61	19.5	5		
10	256QAM	1	25	17.90	17.70	17.76				
10	256QAM	1	49	17.59	17.69	17.64				
10	256QAM	25	0	17.67	17.69	17.84	19.5	5		
10	256QAM	25	12	17.66	17.67	17.65				
10	256QAM	25	25	17.71	17.69	17.73				
10	256QAM	50	0	17.60	17.65	17.73				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	22.81	23.13	22.98	24.5	0		
5	QPSK	1	12	23.01	23.11	22.92				
5	QPSK	1	24	22.92	23.07	23.11				
5	QPSK	12	0	21.92	21.99	21.93	23.5	1		
5	QPSK	12	7	21.75	21.89	21.73				
5	QPSK	12	13	22.00	21.88	21.89				
5	QPSK	25	0	21.87	21.85	21.88	23.5	1		
5	16QAM	1	0	21.76	21.77	22.08				
5	16QAM	1	12	21.88	21.93	21.75				
5	16QAM	1	24	21.93	21.81	22.00	22.5	2		
5	16QAM	12	0	20.88	21.03	20.89				
5	16QAM	12	7	20.72	20.80	20.80				
5	16QAM	12	13	20.73	20.89	20.86	22.5	2		
5	16QAM	25	0	20.85	20.85	20.70				
5	64QAM	1	0	20.88	20.64	20.70				
5	64QAM	1	12	20.97	20.80	20.85	22.5	2		
5	64QAM	1	24	20.97	20.78	20.64				
5	64QAM	12	0	19.93	19.99	19.77				
5	64QAM	12	7	19.84	19.90	19.85	21.5	3		
5	64QAM	12	13	19.70	19.96	19.98				
5	64QAM	25	0	20.01	19.80	19.80				
5	256QAM	1	0	17.77	17.84	17.72	19.5	5		
5	256QAM	1	12	17.73	17.79	17.54				
5	256QAM	1	24	17.69	17.73	17.68				
5	256QAM	12	0	17.87	17.68	17.74	19.5	5		
5	256QAM	12	7	17.62	17.72	17.62				
5	256QAM	12	13	17.50	17.66	17.86				
5	256QAM	25	0	17.72	17.80	17.64				

Band 41 Ant 7												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	23.09	23.14	23.19	23.11	23.12	24.5	0		
20	QPSK	1	49	23.09	23.14	23.08	23.11	23.12				
20	QPSK	1	99	23.09	23.14	23.02	23.11	23.12				
20	QPSK	50	0	21.97	21.98	22.06	22.02	22.05	23.5	1		
20	QPSK	50	24	21.97	21.98	22.00	22.02	22.05				
20	QPSK	50	50	21.97	21.98	22.03	22.02	22.05				
20	QPSK	100	0	22.04	21.98	22.08	22.06	22.04	23.5	1		
20	16QAM	1	0	21.82	21.76	21.92	21.81	21.78				
20	16QAM	1	49	21.84	21.77	21.77	21.95	21.90				
20	16QAM	1	99	21.84	21.88	21.92	21.80	21.79	22.5	2		
20	16QAM	50	0	20.87	20.89	20.92	20.76	20.84				
20	16QAM	50	24	20.82	20.97	20.80	20.81	20				

Reduced Power Mode for Sensor On

GSM850 Ant 4 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8	26.00	824.2	836.4	848.8	17.00
GSM11 Tx slot	24.47	24.54	24.47	26.00	15.47	15.54	15.47	17.00
GPRS 1 Tx slot	24.37	24.53	24.38	25.00	15.37	15.53	15.38	16.00
GPRS 2 Tx slots	22.57	22.73	22.70	23.00	16.57	16.73	16.70	17.00
GPRS 3 Tx slots	20.73	20.85	20.80	21.00	16.47	16.59	16.54	16.74
GPRS 4 Tx slots	19.35	19.51	19.49	20.00	16.35	16.51	16.49	17.00
EDGE 1 Tx slot	24.04	24.14	24.08	26.00	15.04	15.14	15.08	17.00
EDGE 2 Tx slots	21.81	21.83	21.82	23.00	15.81	15.83	15.82	17.00
EDGE 3 Tx slots	19.44	19.51	19.53	21.00	15.18	15.25	15.27	16.74
EDGE 4 Tx slots	19.15	19.14	19.19	20.00	16.15	16.14	16.19	17.00

GSM1900 Ant 4 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1860	1909.8	26.00	1850.2	1860	1909.8	14.50
GSM11 Tx slot	21.86	22.15	22.16	23.50	12.86	13.15	13.16	14.50
GPRS 1 Tx slot	21.82	22.16	22.12	23.50	12.82	13.16	13.12	14.50
GPRS 2 Tx slots	20.02	20.38	20.32	20.50	14.02	14.38	14.32	14.50
GPRS 3 Tx slots	17.20	17.55	17.49	18.50	12.94	13.29	13.23	14.24
GPRS 4 Tx slots	16.47	16.76	16.71	17.50	13.47	13.76	13.71	14.50
EDGE 1 Tx slot	21.75	21.58	21.64	23.50	12.75	12.58	12.64	14.50
EDGE 2 Tx slots	19.49	19.50	19.34	20.50	13.49	13.50	13.34	14.50
EDGE 3 Tx slots	17.40	17.42	17.24	18.50	13.14	13.16	12.98	14.24
EDGE 4 Tx slots	17.21	16.88	16.82	17.50	14.21	13.88	13.82	14.50

Band	TX Channel	WCDMA II Ant 4			Tune-up Limit (dBm)	WCDMA IV Ant 4			Tune-up Limit (dBm)	WCDMA V Ant 4			Tune-up Limit (dBm)
		9262	9400	9538		1312	1413	1513		4132	4182	4233	
	Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
	Frequency (MHz)	1824.4	1830	1877.6	17.24	1727.6	1732.6		1824.4	1830.4	1877.6		1830
3GPP Rel 99	AMR 12.2Kbps	12.35	12.40	12.39	13.50	11.74	11.79	11.77	13.00	14.80	14.78	14.80	16.00
3GPP Rel 99	RMC 12.2Kbps	12.41	12.46	12.43	13.50	11.77	11.83	11.88	13.00	14.80	14.93	14.92	16.00
3GPP Rel 6	HSDPA Subtest-1	11.46	11.41	11.42	12.50	10.90	10.79	10.76	12.00	13.91	13.85	13.70	15.00
3GPP Rel 6	HSDPA Subtest-2	11.46	11.49	11.46	12.50	10.81	10.86	10.84	12.00	13.84	13.81	13.80	15.00
3GPP Rel 6	HSDPA Subtest-3	10.90	10.98	10.93	12.00	10.32	10.33	10.39	11.50	13.33	13.28	13.38	14.50
3GPP Rel 6	HSDPA Subtest-4	10.95	10.92	10.93	12.00	10.36	10.29	10.35	11.50	13.36	13.25	13.30	14.50
3GPP Rel 8	DCHSDPA Subtest-1	11.38	11.42	11.46	12.50	10.84	10.82	10.88	12.00	13.87	13.77	13.89	15.00
3GPP Rel 8	DCHSDPA Subtest-2	11.40	11.43	11.40	12.50	10.83	10.85	10.84	12.00	13.87	13.84	13.87	15.00
3GPP Rel 8	DCHSDPA Subtest-3	10.91	11.01	10.90	12.00	10.33	10.37	10.25	11.50	13.30	13.38	13.25	14.50
3GPP Rel 8	DCHSDPA Subtest-4	10.95	10.91	10.94	12.00	10.40	10.33	10.28	11.50	13.38	13.34	13.31	14.50
3GPP Rel 6	HSUPA Subtest-1	9.92	9.98	9.90	11.00	8.29	8.34	8.28	10.50	12.33	12.34	12.24	13.50
3GPP Rel 6	HSUPA Subtest-2	9.93	10.01	9.96	11.00	8.34	8.46	8.37	10.50	12.37	12.49	12.34	13.50
3GPP Rel 6	HSUPA Subtest-3	9.47	9.51	9.42	10.50	8.89	8.86	8.82	10.00	11.89	11.88	11.80	13.00
3GPP Rel 6	HSUPA Subtest-4	9.44	9.51	9.44	10.50	8.88	8.92	8.89	10.00	11.86	11.93	11.85	13.00
3GPP Rel 6	HSUPA Subtest-5	9.44	9.45	9.40	10.50	8.78	8.86	8.84	10.00	11.77	11.84	11.80	13.00



Band 2 Ant 4													
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hsp./Ch./F.Freq.	Power Hsp./Ch./F.Freq.	Turn-up (dB)	MFR (dB)					
Channel	Frequency (MHz)	RB Size	RB Offset	Power Ch./F.Freq.	Power Hsp./Ch./F.Freq.	Power Hsp./Ch./F.Freq.	Turn-up (dB)	MFR (dB)					
20	QPSK	1	0	11.61	11.69	11.63	13	0					
20	QPSK	1	99	11.67	11.73	11.64	13	0					
20	QPSK	50	0	11.60	11.65	11.67	13	0					
20	QPSK	50	99	11.56	11.62	11.63	13	0					
20	QPSK	50	0	11.63	11.73	11.63	13	0					
20	QPSK	100	0	11.52	11.72	11.62	13	0					
20	QPSK	100	99	11.54	11.84	11.61	13	0					
20	16QAM	1	49	11.53	11.77	11.67	13	0					
20	16QAM	1	99	11.59	11.83	11.67	13	0					
20	16QAM	50	0	11.61	11.83	11.66	13	0					
20	16QAM	50	99	11.59	11.78	11.62	13	0					
20	16QAM	50	0	11.54	11.82	11.58	13	0					
20	16QAM	50	99	11.56	11.81	11.59	13	0					
20	64QAM	1	0	11.61	11.79	11.67	13	0					
20	64QAM	1	99	11.57	11.82	11.58	13	0					
20	64QAM	50	0	11.55	11.79	11.58	13	0					
20	64QAM	50	99	11.60	11.84	11.66	13	0					
20	64QAM	100	0	11.59	11.81	11.59	13	0					
20	64QAM	100	99	11.58	11.83	11.67	13	0					
20	256QAM	1	49	11.63	11.78	11.67	13	0					
20	256QAM	1	99	11.53	11.80	11.63	13	0					
20	256QAM	50	0	11.54	11.84	11.60	13	0					
20	256QAM	50	99	11.54	11.84	11.60	13	0					
20	256QAM	100	0	11.63	11.80	11.65	13	0					
20	256QAM	100	99	11.63	11.80	11.65	13	0					
Channel	Frequency (MHz)	RB Size	RB Offset	Power Ch./F.Freq.	Power Hsp./Ch./F.Freq.	Power Hsp./Ch./F.Freq.	Turn-up (dB)	MFR (dB)					
15	QPSK	1	0	11.37	11.73	11.52	13	0					
15	QPSK	1	99	11.46	11.87	11.61	13	0					
15	QPSK	1	74	11.48	11.83	11.57	13	0					
15	QPSK	36	0	11.47	11.71	11.60	13	0					
15	QPSK	36	99	11.46	11.69	11.58	13	0					
15	QPSK	36	99	11.53	11.73	11.51	13	0					
15	QPSK	75	0	11.50	11.64	11.48	13	0					
15	QPSK	75	99	11.49	11.69	11.47	13	0					
15	16QAM	1	37	11.43	11.68	11.53	13	0					
15	16QAM	1	74	11.45	11.73	11.55	13	0					
15	16QAM	36	0	11.51	11.78	11.51	13	0					
15	16QAM	36	99	11.52	11.69	11.55	13	0					
15	16QAM	75	0	11.52	11.73	11.44	13	0					
15	16QAM	75	99	11.59	11.89	11.63	13	0					
15	64QAM	1	0	11.59	11.69	11.63	13	0					
15	64QAM	1	99	11.54	11.74	11.64	13	0					
15	64QAM	1	74	11.45	11.67	11.63	13	0					
15	64QAM	36	0	11.51	11.71	11.62	13	0					
15	64QAM	36	99	11.52	11.70	11.52	13	0					
15	64QAM	36	99	11.53	11.70	11.52	13	0					
15	64QAM	75	0	11.47	11.65	11.45	13	0					
15	64QAM	75	99	11.47	11.65	11.45	13	0					
15	256QAM	1	37	11.54	11.74	11.52	13	0					
15	256QAM	1	74	11.43	11.75	11.63	13	0					
15	256QAM	36	0	11.48	11.73	11.63	13	0					
15	256QAM	36	99	11.48	11.73	11.49	13	0					
15	256QAM	75	0	11.45	11.68	11.53	13	0					
15	256QAM	75	99	11.48	11.73	11.55	13	0					
Channel	Frequency (MHz)	RB Size	RB Offset	Power Ch./F.Freq.	Power Hsp./Ch./F.Freq.	Power Hsp./Ch./F.Freq.	Turn-up (dB)	MFR (dB)					
10	QPSK	1	0	11.46	11.89	11.56	13	0					
10	QPSK	1	99	11.46	11.81	11.53	13	0					
10	QPSK	25	0	11.51	11.78	11.53	13	0					
10	QPSK	25	99	11.58	11.66	11.53	13	0					
10	QPSK	25	25	11.58	11.66	11.53	13	0					
10	16QAM	1	0	11.39	11.80	11.48	13	0					
10	16QAM	1	25	11.38	11.64	11.62	13	0					
10	16QAM	25	0	11.50	11.75	11.50	13	0					
10	16QAM	25	99	11.48	11.73	11.58	13	0					
10	16QAM	25	25	11.48	11.73	11.48	13	0					
10	16QAM	50	0	11.48	11.69	11.53	13	0					
10	64QAM	1	0	11.47	11.73	11.63	13	0					
10	64QAM	1	49	11.47	11.65	11.53	13	0					
10	64QAM	1	99	11.47	11.62	11.44	13	0					
10	64QAM	25	0	11.44	11.73	11.56	13	0					
10	64QAM	25	99	11.44	11.73	11.56	13	0					
10	64QAM	50	0	11.46	11.67	11.53	13	0					
10	64QAM	50	99	11.46	11.67	11.53	13	0					
10	256QAM	1	25	11.49	11.64	11.62	13	0					
10	256QAM	1	49	11.41	11.74	11.61	13	0					
10	256QAM	1	99	11.41	11.74	11.61	13	0					
10	256QAM	25	0	11.46	11.73	11.46	13	0					
10	256QAM	25	99	11.46	11.73	11.46	13	0					
10	256QAM	50	0	11.48	11.73	11.48	13	0					
10	256QAM	50	99	11.48	11.73	11.48	13	0					
Channel	Frequency (MHz)	RB Size	RB Offset	Power Ch./F.Freq.	Power Hsp./Ch./F.Freq.	Power Hsp./Ch./F.Freq.	Turn-up (dB)	MFR (dB)					
5	QPSK	1	12	11.47	11.68	11.54	13	0					
5	QPSK	1	24	11.51	11.64	11.53	13	0					
5	QPSK	12	0	11.56	11.75	11.53	13	0					
5	QPSK	12	7	11.44	11.77	11.47	13	0					
5	QPSK	12	13	11.49	11.67	11.49	13	0					
5	16QAM	1	0	11.35	11.80	11.47	13	0					
5	16QAM	1	12	11.44	11.71	11.50	13	0					
5	16QAM	12	0	11.56	11.71	11.53	13	0					
5	16QAM	12	7	11.49	11.64	11.49	13	0					
5	16QAM	12	13	11.46	11.73	11.46	13	0					
5	16QAM	25	0	11.46	11.73	11.53	13	0					
5	64QAM	1	0	11.46	11.69	11.53	13	0					
5	64QAM	1	49	11.47	11.65	11.53	13	0					
5	64QAM	1	99	11.47	11.62	11.44	13	0					
5	64QAM	25	0	11.44	11.73	11.56	13	0					
5	64QAM	25	99	11.44	11.73	11.56	13	0					
5	64QAM	50	0	11.46	11.67	11.53	13	0					
5	64QAM	50	99	11.46	11.67	11.53	13	0					
5	256QAM	1	25	11.49	11.64	11.62	13	0					
5	256QAM	1	49	11.41	11.74	11.61	13	0					
5	256QAM	1	99	11.41	11.74	11.61	13	0					
5	256QAM	25	0	11.46	11.73	11.46	13	0					
5	256QAM	25	99	11.46	11.73	11.46	13	0					
5	256QAM	50	0	11.48	11.73	11.48	13	0					
5	256QAM	50	99	11.48	11.73	11.48	13	0					
Channel	Frequency (MHz)	RB Size	RB Offset	Power Ch./F.Freq.	Power Hsp./Ch./F.Freq.	Power Hsp./Ch./F.Freq.	Turn-up (dB)	MFR (dB)					
3	QPSK	1	8	11.43	11.66	11.51	13	0					
3	QPSK	1	14	11.46	11.64	11.56	13	0					
3	QPSK	8	0	11.49	11.70	11.56	13	0					
3	QPSK	8	4	11.43	11.68	11.51	13	0					
3	QPSK	8	7	11.51	11.72	11.51	13	0					
3	16QAM	1	0	11.47	11.67	11.46	13	0					
3	16QAM	1	8	11.39	11.74	11.51	13	0					
3	16QAM	8	0	11.51	11.68	11.52	13	0					
3	16QAM	8	4	11.50	11.78	11.61	13	0					
3	16QAM	8	7	11.41	11.71	11.57	13	0					
3	16QAM	15	0	11.46	11.73	11.53	13	0					
3	64QAM	1	0	11.46	11.69	11.53	13	0					
3	64QAM	1	8	11.46	11.76	11.45	13	0					
3	64QAM	1	14	11.46	11.65	11.52	13	0					
3	64QAM	8	0	11.41	11.68	11.43	13	0					
3	64QAM	8	4	11.48	11.70	11.63	13	0					
3	64QAM	8	7	11.41	11.71	11.57	13	0					
3	64QAM	15	0	11.54	11.69	11.5							



Band 12 Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MFR (dB)		
Channel 704 707.5 711										
10	QPSK	1	0	15.32	15.49	15.31			17	0
10	QPSK	1	25	15.34	15.45	15.29				
10	QPSK	1	49	15.36	15.46	15.19				
10	QPSK	25	0	15.27	15.43	15.28				
10	QPSK	25	12	15.34	15.38	15.18				
10	QPSK	25	25	15.35	15.39	15.20				
10	QPSK	50	0	15.30	15.35	15.30				
10	QPSK	50	12	15.28	15.37	15.27				
10	HQAM	1	25	15.35	15.34	15.21			17	0
10	HQAM	1	49	15.30	15.33	15.26				
10	HQAM	25	0	15.34	15.35	15.29				
10	HQAM	25	12	15.32	15.40	15.30				
10	HQAM	25	25	15.32	15.38	15.21				
10	HQAM	50	0	15.39	15.41	15.21				
10	HQAM	50	12	15.39	15.41	15.27				
10	HQAM	50	25	15.30	15.40	15.24				
10	HQAM	1	25	15.34	15.43	15.29			17	0
10	HQAM	1	49	15.32	15.39	15.24				
10	HQAM	25	0	15.32	15.39	15.24				
10	HQAM	25	12	15.30	15.41	15.21				
10	HQAM	25	25	15.30	15.34	15.22				
10	25SSBAM	1	25	15.31	15.34	15.30			17	0
10	25SSBAM	1	49	15.38	15.41	15.25				
10	25SSBAM	25	0	15.34	15.38	15.25				
10	25SSBAM	25	12	15.28	15.37	15.29				
10	25SSBAM	25	25	15.29	15.37	15.24				
10	25SSBAM	50	0	15.32	15.38	15.29				
Channel 2305 2309 2315										
Channel 701.5 707.5 713.5										
5	QPSK	1	0	15.28	15.30	15.09			17	0
5	QPSK	1	24	15.19	15.33	15.09				
5	QPSK	12	0	15.17	15.30	15.20				
5	QPSK	12	13	15.24	15.33	15.15				
5	QPSK	12	13	15.24	15.33	15.17				
5	QPSK	25	0	15.20	15.30	15.16				
5	QPSK	25	12	15.28	15.30	15.09				
5	HQAM	1	12	15.22	15.35	15.19			17	0
5	HQAM	1	24	15.20	15.30	15.11				
5	HQAM	12	0	15.17	15.31	15.14				
5	HQAM	12	7	15.17	15.33	15.12				
5	HQAM	12	13	15.25	15.30	15.15				
5	HQAM	25	0	15.22	15.34	15.12				
5	HQAM	1	0	15.18	15.34	15.13				
5	HQAM	1	24	15.16	15.31	15.21				
5	HQAM	12	0	15.28	15.31	15.18				
5	HQAM	12	13	15.21	15.34	15.20				
5	HQAM	25	0	15.28	15.32	15.15				
5	HQAM	25	13	15.15	15.30	15.10				
5	HQAM	25	0	15.26	15.28	15.17				
5	HQAM	25	13	15.24	15.28	15.11				
5	25SSBAM	1	12	15.29	15.27	15.11			17	0
5	25SSBAM	1	24	15.18	15.35	15.15				
5	25SSBAM	12	0	15.22	15.30	15.11				
5	25SSBAM	12	7	15.28	15.27	15.17				
5	25SSBAM	12	13	15.18	15.27	15.16				
5	25SSBAM	25	0	15.22	15.30	15.10				
Channel 2305 2309 2315										
Channel 701.5 707.5 713.5										
3	QPSK	1	0	15.26	15.32	15.18			17	0
3	QPSK	1	14	15.21	15.30	15.20				
3	QPSK	1	28	15.20	15.30	15.17				
3	QPSK	3	0	15.18	15.33	15.10				
3	QPSK	3	7	15.22	15.30	15.18				
3	QPSK	3	14	15.20	15.30	15.15				
3	HQAM	1	0	15.28	15.30	15.14				
3	HQAM	1	8	15.20	15.28	15.15				
3	HQAM	3	0	15.26	15.33	15.10				
3	HQAM	3	8	15.24	15.24	15.10				
3	HQAM	3	14	15.20	15.28	15.15				
3	HQAM	15	0	15.20	15.30	15.17				
3	HQAM	1	0	15.24	15.25	15.11				
3	HQAM	1	8	15.22	15.24	15.15				
3	HQAM	3	0	15.28	15.24	15.19				
3	HQAM	3	7	15.28	15.28	15.12				
3	HQAM	15	0	15.24	15.28	15.19				
3	25SSBAM	1	8	15.23	15.28	15.09				
3	25SSBAM	1	14	15.24	15.31	15.09				
3	25SSBAM	3	0	15.18	15.33	15.10				
3	25SSBAM	3	7	15.24	15.30	15.18				
3	25SSBAM	3	14	15.20	15.27	15.15				
3	25SSBAM	15	0	15.28	15.24	15.11				

Band 13 Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MFR (dB)		
Channel 782										
10	QPSK	1	0	15.48	15.49	15.48			17	0
10	QPSK	1	49	15.36	15.48	15.19				
10	QPSK	25	0	15.43	15.43	15.19				
10	QPSK	25	12	15.44	15.43	15.19				
10	QPSK	25	25	15.41	15.39	15.19				
10	QPSK	50	0	15.33	15.41	15.19				
10	QPSK	50	12	15.44	15.41	15.19				
10	HQAM	1	25	15.44	15.31	15.25			17	0
10	HQAM	1	49	15.35	15.34	15.21				
10	HQAM	25	0	15.32	15.34	15.21				
10	HQAM	25	12	15.32	15.34	15.21				
10	HQAM	25	25	15.30	15.39	15.20				
10	HQAM	50	0	15.40	15.40	15.20				
10	HQAM	50	12	15.41	15.39	15.20				
10	HQAM	50	25	15.41	15.36	15.20				
10	HQAM	1	25	15.34	15.43	15.29			17	0
10	HQAM	1	49	15.32	15.39	15.24				
10	HQAM	25	0	15.32	15.39	15.24				
10	HQAM	25	12	15.30	15.38	15.28				
10	HQAM	25	25	15.30	15.34	15.22				
10	HQAM	50	0	15.38	15.38	15.20				
10	HQAM	50	12	15.34	15.38	15.21				
10	HQAM	50	25	15.39	15.37	15.24				
10	25SSBAM	1	25	15.34	15.38	15.21			17	0
10	25SSBAM	1	49	15.40	15.40	15.20				
10	25SSBAM	25	0	15.38	15.38	15.20				
10	25SSBAM	25	12	15.34	15.37	15.29				
10	25SSBAM	25	25	15.37	15.37	15.24				
10	25SSBAM	50	0	15.38	15.38	15.15				
Channel 2305 2309 2315										
Channel 778.5 782 784.5										
5	QPSK	1	0	15.27	15.37	15.16			17	0
5	QPSK	1	12	15.16	15.24	15.09				
5	QPSK	1	24	15.25	15.39	15.09				
5	QPSK	12	0	15.15	15.34	15.10				
5	QPSK	12	7	15.22	15.32	15.11				
5	QPSK	12	13	15.21	15.30	15.17				
5	QPSK	25	0	15.16	15.34	15.21				
5	QPSK	25	12	15.24	15.30	15.15				
5	HQAM	1	12	15.28	15.20	15.16				
5	HQAM	1	24	15.16	15.21	15.10				
5	HQAM	12	0	15.18	15.30	15.15				
5	HQAM	12	7	15.24	15.34	15.22				
5	HQAM	12	13	15.25	15.29	15.18				
5	HQAM	25	0	15.25	15.28	15.19				
5	HQAM	1	0	15.21	15.37	15.12				
5	HQAM	1	24	15.24	15.31	15.21				
5	HQAM	12	0	15.24	15.23	15.11				
5	HQAM	12	13	15.15	15.30	15.10				
5	HQAM	25	0	15.26	15.28	15.17				
5	HQAM	25	13	15.21	15.21	15.25				
5	25SSBAM	1	24	15.21	15.35	15.17</				



Band 66 Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mide Ch./Freq.	Power High Ch./Freq.	Time-up limit (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	11.62	11.89	11.73			13	0
20	QPSK	1	49	11.65	11.84	11.72				
20	QPSK	1	99	11.80	11.81	11.78				
20	QPSK	50	0	11.67	11.86	11.72			13	0
20	QPSK	50	24	11.67	11.74	11.73				
20	QPSK	50	50	11.84	11.78	11.87				
20	QPSK	100	0	11.65	11.83	11.81				
20	16QAM	1	0	11.60	11.80	11.68			13	0
20	16QAM	1	49	11.83	11.78	11.89				
20	16QAM	1	99	11.83	11.83	11.72				
20	16QAM	50	0	11.62	11.80	11.70			13	0
20	16QAM	50	24	11.83	11.80	11.77				
20	16QAM	50	50	11.58	11.84	11.82				
20	16QAM	100	0	11.54	11.78	11.70				
20	16QAM	1	0	11.49	11.88	11.71			13	0
20	16QAM	1	99	11.65	11.79	11.70				
20	16QAM	50	0	11.58	11.74	11.68				
20	16QAM	50	24	11.62	11.77	11.76			13	0
20	16QAM	50	50	11.70	11.81	11.70				
20	16QAM	100	0	11.59	11.86	11.82				
20	256QAM	1	0	11.60	11.84	11.78			13	0
20	256QAM	1	49	11.56	11.82	11.79				
20	256QAM	1	99	11.81	11.80	11.78				
20	256QAM	50	0	11.62	11.86	11.84				
20	256QAM	50	24	11.82	11.79	11.71			13	0
20	256QAM	50	50	11.62	11.81	11.68				
20	256QAM	100	0	11.68	11.80	11.77				
Channel										
Frequency (MHz)										
15	QPSK	1	0	11.48	11.79	11.66			13	0
15	QPSK	1	37	11.61	11.71	11.67				
15	QPSK	1	74	11.64	11.71	11.72				
15	QPSK	36	0	11.43	11.70	11.65			13	0
15	QPSK	36	20	11.45	11.81	11.68				
15	QPSK	36	36	11.48	11.83	11.53				
15	QPSK	75	0	11.60	11.67	11.67				
15	16QAM	1	0	11.54	11.75	11.67			13	0
15	16QAM	1	37	11.58	11.69	11.57				
15	16QAM	1	74	11.62	11.70	11.68				
15	16QAM	36	0	11.47	11.73	11.59				
15	16QAM	36	20	11.67	11.70	11.61			13	0
15	16QAM	36	36	11.45	11.69	11.64				
15	16QAM	75	0	11.46	11.64	11.58				
15	16QAM	1	0	11.48	11.68	11.64			13	0
15	16QAM	1	37	11.40	11.77	11.68				
15	16QAM	1	74	11.42	11.70	11.72				
15	16QAM	36	0	11.47	11.69	11.63			13	0
15	16QAM	36	20	11.47	11.70	11.65				
15	16QAM	36	36	11.45	11.69	11.68				
15	16QAM	75	0	11.55	11.74	11.50				
15	16QAM	75	0	11.47	11.75	11.63			13	0
15	16QAM	1	0	11.47	11.75	11.63				
15	16QAM	1	37	11.51	11.74	11.58				
15	16QAM	1	74	11.49	11.69	11.65			13	0
15	16QAM	36	0	11.51	11.71	11.52				
15	16QAM	36	20	11.52	11.75	11.52			13	0
15	16QAM	36	36	11.52	11.75	11.62				
15	16QAM	75	0	11.46	11.70	11.64				
Channel										
Frequency (MHz)										
10	QPSK	1	0	11.68	11.77	11.67			13	0
10	QPSK	1	25	11.67	11.73	11.63				
10	QPSK	1	49	11.48	11.67	11.67				
10	QPSK	25	0	11.47	11.77	11.67			13	0
10	QPSK	25	12	11.43	11.68	11.62				
10	QPSK	25	25	11.39	11.70	11.61				
10	16QAM	1	0	11.64	11.71	11.70				
10	16QAM	1	0	11.54	11.67	11.52			13	0
10	16QAM	1	25	11.49	11.66	11.60				
10	16QAM	1	49	11.66	11.73	11.68				
10	16QAM	25	0	11.55	11.70	11.62			13	0
10	16QAM	25	12	11.47	11.70	11.65				
10	16QAM	25	25	11.52	11.68	11.68				
10	16QAM	50	0	11.39	11.70	11.64				
10	16QAM	1	0	11.48	11.65	11.64			13	0
10	16QAM	1	25	11.37	11.83	11.63				
10	16QAM	1	49	11.42	11.64	11.72				
10	16QAM	25	0	11.42	11.58	11.60				
10	16QAM	25	12	11.47	11.71	11.62			13	0
10	16QAM	25	25	11.64	11.69	11.68				
10	16QAM	50	0	11.51	11.79	11.58				
10	256QAM	1	0	11.50	11.73	11.70			13	0
10	256QAM	1	25	11.49	11.74	11.73				
10	256QAM	1	49	11.51	11.72	11.61				
10	256QAM	25	0	11.67	11.77	11.70				
10	256QAM	25	12	11.67	11.64	11.63			13	0
10	256QAM	25	25	11.47	11.67	11.58				
10	256QAM	50	0	11.47	11.73	11.70				
Channel										
Frequency (MHz)										
5	QPSK	1	0	11.67	11.75	11.64			13	0
5	QPSK	1	12	11.55	11.68	11.62				
5	QPSK	1	24	11.63	11.74	11.69				
5	QPSK	12	0	11.62	11.78	11.68			13	0
5	QPSK	12	7	11.47	11.81	11.67				
5	QPSK	12	13	11.43	11.72	11.60				
5	QPSK	25	0	11.68	11.78	11.75				
5	16QAM	1	0	11.55	11.69	11.62			13	0
5	16QAM	1	12	11.58	11.66	11.60				
5	16QAM	1	24	11.56	11.71	11.65				
5	16QAM	12	0	11.67	11.67	11.68			13	0
5	16QAM	12	7	11.67	11.73	11.70				
5	16QAM	12	13	11.44	11.72	11.62				
5	16QAM	25	0	11.60	11.63	11.63			13	0
5	16QAM	1	0	11.43	11.68	11.67				
5	16QAM	1	12	11.37	11.78	11.61				
5	16QAM	1	24	11.40	11.74	11.70				
5	16QAM	12	0	11.47	11.67	11.62			13	0
5	16QAM	12	7	11.54	11.81	11.62				
5	16QAM	12	13	11.66	11.74	11.60				
5	16QAM	25	0	11.54	11.69	11.65				
5	16QAM	1	0	11.48	11.69	11.65			13	0
5	16QAM	1	12	11.46	11.68	11.74				
5	256QAM	1	0	11.46	11.68	11.74				
5	256QAM	1	24	11.46	11.74	11.61			13	0
5	256QAM	12	0	11.61	11.75	11.70				
5	256QAM	12	7	11.59	11.66	11.67				
5	256QAM	12	13	11.48	11.71	11.61			13	0
5	256QAM	25	0	11.59	11.69	11.62				
Channel										
Frequency (MHz)										
3	QPSK	1	0	11.67	11.72	11.67			13	0
3	QPSK	1	8	11.60	11.77	11.68				
3	QPSK	1	14	11.63	11.74	11.66				
3	QPSK	8	0	11.62	11.75	11.68			13	0
3	QPSK	8	4	11.47	11.82	11.68				
3	QPSK	8	7	11.40	11.70	11.54				
3	QPSK	15	0	11.64	11.78	11.69				
3	16QAM	1	0	11.48	11.72	11.63			13	0
3	16QAM	1	8	11.63	11.84	11.58				
3	16QAM	1	14	11.63	11.75	11.58				
3	16QAM	8	0	11.67	11.70	11.67			13	0
3	16QAM	8	4	11.52	11.84	11.73				
3	16QAM	8	7	11.48	11.75	11.62				
3	16QAM	15	0	11.44						

Band 66 Ant 5									
BW (MHz)	Modulation	RB (kHz)	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power Map / Freq.	Turn-up limit (dBm)	APR3 (dB)	APR4 (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	16.48	16.50	16.26	17	0	
20	QPSK	1	49	16.36	16.31	16.38	17	0	
20	QPSK	1	99	16.37	16.38	16.33	17	0	
20	QPSK	50	0	16.36	16.46	16.34	17	0	
20	QPSK	50	24	16.19	16.40	16.30	17	0	
20	QPSK	50	50	16.34	16.37	16.27	17	0	
20	QPSK	100	0	16.30	16.38	16.37	17	0	
20	16QAM	1	0	16.18	16.41	16.26	17	0	
20	16QAM	1	49	16.36	16.29	16.36	17	0	
20	16QAM	1	99	16.33	16.34	16.34	17	0	
20	16QAM	50	0	16.27	16.30	16.28	17	0	
20	16QAM	50	24	16.36	16.27	16.29	17	0	
20	16QAM	50	50	16.36	16.46	16.32	17	0	
20	16QAM	100	0	16.18	16.40	16.29	17	0	
20	84QAM	1	0	16.30	16.37	16.28	17	0	
20	84QAM	1	49	16.35	16.46	16.38	17	0	
20	84QAM	1	99	16.23	16.46	16.33	17	0	
20	84QAM	50	0	16.33	16.38	16.32	17	0	
20	84QAM	50	24	16.36	16.47	16.31	17	0	
20	84QAM	50	50	16.25	16.34	16.36	17	0	
20	84QAM	100	0	16.33	16.34	16.32	17	0	
20	256QAM	1	0	16.37	16.49	16.38	17	0	
20	256QAM	1	49	16.31	16.37	16.33	17	0	
20	256QAM	1	99	16.32	16.27	16.32	17	0	
20	256QAM	50	0	16.26	16.36	16.30	17	0	
20	256QAM	50	24	16.26	16.35	16.34	17	0	
20	256QAM	50	50	16.31	16.38	16.26	17	0	
20	256QAM	100	0	16.21	16.43	16.30	17	0	
Channel									
Frequency (MHz)									
15	QPSK	1	0	16.27	16.35	16.11	17	0	
15	QPSK	1	37	16.13	16.20	16.25	17	0	
15	QPSK	1	74	16.36	16.37	16.28	17	0	
15	QPSK	36	0	16.19	16.41	16.30	17	0	
15	QPSK	36	20	16.13	16.31	16.24	17	0	
15	QPSK	36	39	16.30	16.29	16.22	17	0	
15	QPSK	75	0	16.16	16.24	16.28	17	0	
15	16QAM	1	0	16.15	16.28	16.23	17	0	
15	16QAM	1	37	16.31	16.15	16.25	17	0	
15	16QAM	1	74	16.22	16.24	16.28	17	0	
15	16QAM	36	0	16.26	16.20	16.29	17	0	
15	16QAM	36	20	16.33	16.25	16.18	17	0	
15	16QAM	36	39	16.35	16.28	16.20	17	0	
15	16QAM	75	0	16.04	16.30	16.33	17	0	
15	84QAM	1	0	16.27	16.25	16.26	17	0	
15	84QAM	1	37	16.26	16.36	16.28	17	0	
15	84QAM	1	74	16.16	16.23	16.20	17	0	
15	84QAM	36	0	16.27	16.35	16.18	17	0	
15	84QAM	36	20	16.33	16.43	16.23	17	0	
15	84QAM	36	39	16.15	16.20	16.23	17	0	
15	84QAM	75	0	16.23	16.22	16.18	17	0	
15	256QAM	1	0	16.26	16.41	16.23	17	0	
15	256QAM	1	37	16.21	16.30	16.22	17	0	
15	256QAM	1	74	16.30	16.19	16.24	17	0	
15	256QAM	36	0	16.13	16.22	16.23	17	0	
15	256QAM	36	20	16.20	16.21	16.20	17	0	
15	256QAM	36	39	16.23	16.24	16.24	17	0	
15	256QAM	75	0	16.12	16.42	16.32	17	0	
Channel									
Frequency (MHz)									
10	QPSK	1	0	16.26	16.45	16.14	17	0	
10	QPSK	1	25	16.25	16.27	16.32	17	0	
10	QPSK	1	49	16.32	16.32	16.26	17	0	
10	QPSK	25	0	16.22	16.46	16.29	17	0	
10	QPSK	25	12	16.04	16.33	16.26	17	0	
10	QPSK	25	25	16.26	16.23	16.17	17	0	
10	QPSK	50	0	16.27	16.34	16.28	17	0	
10	16QAM	1	0	16.17	16.34	16.23	17	0	
10	16QAM	1	26	16.27	16.23	16.23	17	0	
10	16QAM	1	49	16.21	16.26	16.26	17	0	
10	16QAM	25	0	16.19	16.23	16.29	17	0	
10	16QAM	25	12	16.25	16.22	16.26	17	0	
10	16QAM	25	25	16.34	16.30	16.23	17	0	
10	16QAM	50	0	16.08	16.26	16.33	17	0	
10	84QAM	1	0	16.23	16.32	16.26	17	0	
10	84QAM	1	25	16.28	16.41	16.24	17	0	
10	84QAM	1	49	16.11	16.32	16.20	17	0	
10	84QAM	25	0	16.23	16.35	16.21	17	0	
10	84QAM	25	12	16.31	16.36	16.29	17	0	
10	84QAM	25	25	16.13	16.31	16.29	17	0	
10	84QAM	50	0	16.25	16.27	16.20	17	0	
10	256QAM	1	0	16.31	16.28	16.12	17	0	
10	256QAM	1	25	16.27	16.31	16.19	17	0	
10	256QAM	1	49	16.26	16.16	16.16	17	0	
10	256QAM	25	0	16.19	16.20	16.28	17	0	
10	256QAM	25	12	16.19	16.21	16.26	17	0	
10	256QAM	25	25	16.27	16.35	16.12	17	0	
10	256QAM	50	0	16.16	16.36	16.21	17	0	
Channel									
Frequency (MHz)									
5	QPSK	1	0	16.17	16.36	16.14	17	0	
5	QPSK	1	12	16.16	16.26	16.26	17	0	
5	QPSK	1	24	16.23	16.28	16.21	17	0	
5	QPSK	12	0	16.17	16.46	16.23	17	0	
5	QPSK	12	7	16.09	16.36	16.20	17	0	
5	QPSK	12	13	16.25	16.29	16.12	17	0	
5	QPSK	25	0	16.19	16.26	16.26	17	0	
5	16QAM	1	0	16.08	16.29	16.31	17	0	
5	16QAM	1	12	16.22	16.16	16.20	17	0	
5	16QAM	1	24	16.30	16.25	16.29	17	0	
5	16QAM	12	0	16.20	16.18	16.30	17	0	
5	16QAM	12	7	16.21	16.13	16.16	17	0	
5	16QAM	12	13	16.23	16.33	16.20	17	0	
5	16QAM	25	0	16.04	16.29	16.31	17	0	
5	84QAM	1	0	16.16	16.33	16.15	17	0	
5	84QAM	1	12	16.22	16.36	16.21	17	0	
5	84QAM	1	24	16.12	16.40	16.22	17	0	
5	84QAM	12	0	16.24	16.27	16.23	17	0	
5	84QAM	12	7	16.27	16.33	16.27	17	0	
5	84QAM	12	13	16.18	16.22	16.32	17	0	
5	84QAM	25	0	16.30	16.30	16.31	17	0	
5	256QAM	1	0	16.30	16.30	16.19	17	0	
5	256QAM	1	12	16.25	16.33	16.27	17	0	
5	256QAM	1	24	16.21	16.13	16.26	17	0	
5	256QAM	12	0	16.25	16.25	16.20	17	0	
5	256QAM	12	7	16.13	16.31	16.20	17	0	
5	256QAM	12	13	16.16	16.27	16.21	17	0	
5	256QAM	25	0	16.18	16.36	16.18	17	0	
Channel									
Frequency (MHz)									
3	QPSK	1	0	16.22	16.34	16.14	17	0	
3	QPSK	1	8	16.12	16.18	16.31	17	0	
3	QPSK	1	14	16.31	16.33	16.22	17	0	
3	QPSK	8	0	16.25	16.37	16.29	17	0	
3	QPSK	8	4	16.15	16.26	16.31	17	0	
3	QPSK	8	7	16.23	16.24	16.14	17	0	
3	QPSK	15	0	16.22	16.24	16.22	17	0	
3	16QAM	1	0	16.16	16.32	16.26	17	0	
3	16QAM	1	8	16.23	16.26	16.25	17	0	
3	16QAM	1	14	16.31	16.33	16.21	17	0	
3	16QAM	8	0	16.17	16.29	16.22	17	0	
3	16QAM	8	4	16.32	16.13	16.18	17	0	
3	16QAM	8	7	16.30	16.36	16.27	17	0	
3	16QAM	15	0	16.16	16.37	16.32	17	0	
3	84QAM	1	0	16.16	16.34	16.21	17	0	
3	84QAM	1	8	16.28	16.44	16.20	17	0	
3	84QAM	1							

Band 38 Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	14.14	14.28	14.10	15.5	0	
20	QPSK	1	49	14.09	14.21	14.14			
20	QPSK	1	99	14.08	14.21	14.14	15.5	0	
20	QPSK	50	0	14.11	14.23	14.08			
20	QPSK	50	24	14.18	14.19	14.12	15.5	0	
20	QPSK	50	50	14.15	14.17	14.09			
20	QPSK	100	0	14.14	14.20	14.06	15.5	0	
20	16QAM	1	0	14.12	14.20	14.07			
20	16QAM	1	49	14.14	14.17	14.08	15.5	0	
20	16QAM	1	99	14.10	14.12	14.10			
20	16QAM	50	0	14.16	14.13	14.06	15.5	0	
20	16QAM	50	24	14.17	14.16	14.05			
20	16QAM	50	50	14.09	14.11	14.10	15.5	0	
20	16QAM	100	0	14.08	14.19	14.05			
20	64QAM	1	0	14.11	14.17	14.06	15.5	0	
20	64QAM	1	49	14.19	14.21	14.10			
20	64QAM	1	99	14.19	14.17	14.11	15.5	0	
20	64QAM	50	0	14.11	14.21	14.11			
20	64QAM	50	24	14.10	14.16	14.15	15.5	0	
20	64QAM	50	50	14.17	14.14	14.12			
20	64QAM	100	0	14.10	14.20	14.08	15.5	0	
20	256QAM	1	0	14.14	14.20	14.16			
20	256QAM	1	49	14.19	14.21	14.16	15.5	0	
20	256QAM	1	99	14.12	14.12	14.11			
20	256QAM	50	0	14.12	14.18	14.13	15.5	0	
20	256QAM	50	24	14.13	14.13	14.12			
20	256QAM	50	50	14.09	14.21	14.14	15.5	0	
20	256QAM	100	0	14.18	14.19	14.13			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	14.05	14.06	14.00	15.5	0	
15	QPSK	1	37	14.03	14.03	14.00			
15	QPSK	1	74	14.06	14.04	14.05	15.5	0	
15	QPSK	36	0	14.07	14.09	14.01			
15	QPSK	36	20	13.99	14.10	13.98	15.5	0	
15	QPSK	36	39	14.05	14.01	14.06			
15	QPSK	75	0	14.01	14.11	13.96	15.5	0	
15	16QAM	1	0	14.07	14.03	14.06			
15	16QAM	1	37	14.10	14.10	13.96	15.5	0	
15	16QAM	1	74	14.04	14.07	14.05			
15	16QAM	36	0	14.08	14.11	14.07	15.5	0	
15	16QAM	36	20	14.05	14.12	14.04			
15	16QAM	36	39	13.98	14.05	13.98	15.5	0	
15	16QAM	75	0	14.03	14.05	14.05			
15	64QAM	1	0	14.03	14.06	14.00	15.5	0	
15	64QAM	1	37	13.99	14.05	14.04			
15	64QAM	1	74	14.09	14.13	14.00	15.5	0	
15	64QAM	36	0	14.05	14.02	14.06			
15	64QAM	36	20	14.01	14.10	13.95	15.5	0	
15	64QAM	36	39	14.07	14.02	14.02			
15	64QAM	75	0	14.09	14.03	14.01	15.5	0	
15	256QAM	1	0	14.03	14.02	14.00			
15	256QAM	1	37	14.06	14.08	13.95	15.5	0	
15	256QAM	1	74	14.05	14.10	14.05			
15	256QAM	36	0	13.98	14.07	13.98	15.5	0	
15	256QAM	36	20	14.07	14.09	14.08			
15	256QAM	36	39	14.06	14.11	13.96	15.5	0	
15	256QAM	75	0	14.08	14.06	14.01			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	14.04	14.08	14.00	15.5	0	
10	QPSK	1	25	14.04	14.04	13.98			
10	QPSK	1	49	14.01	14.08	13.95	15.5	0	
10	QPSK	25	0	14.08	14.05	13.99			
10	QPSK	25	12	14.03	14.06	14.00	15.5	0	
10	QPSK	25	25	14.01	14.07	14.07			
10	QPSK	50	0	14.09	14.13	14.00	15.5	0	
10	16QAM	1	0	14.06	14.11	14.05			
10	16QAM	1	25	14.05	14.03	13.96	15.5	0	
10	16QAM	1	49	14.10	14.12	13.95			
10	16QAM	25	0	14.04	14.12	13.99	15.5	0	
10	16QAM	25	12	14.07	14.02	14.03			
10	16QAM	25	25	14.08	14.12	13.95	15.5	0	
10	16QAM	50	0	14.03	14.13	14.01			
10	64QAM	1	0	14.05	14.05	13.97	15.5	0	
10	64QAM	1	25	14.07	14.09	14.07			
10	64QAM	1	49	13.99	14.05	13.96	15.5	0	
10	64QAM	25	0	14.03	14.12	13.96			
10	64QAM	25	12	14.07	14.10	14.06	15.5	0	
10	64QAM	25	25	14.07	14.06	14.06			
10	64QAM	50	0	14.00	14.06	13.95	15.5	0	
10	256QAM	1	0	14.06	14.07	14.04			
10	256QAM	1	25	14.01	14.10	14.05	15.5	0	
10	256QAM	1	49	14.02	14.11	13.98			
10	256QAM	25	0	13.99	14.10	13.99	15.5	0	
10	256QAM	25	12	13.99	14.12	13.96			
10	256QAM	25	25	14.02	14.02	14.01	15.5	0	
10	256QAM	50	0	14.08	14.11	14.04			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	14.00	14.10	14.03	15.5	0	
5	QPSK	1	12	14.03	14.02	14.02			
5	QPSK	1	24	14.04	14.09	14.00	15.5	0	
5	QPSK	12	0	14.08	14.08	14.06			
5	QPSK	12	7	14.05	14.03	13.98	15.5	0	
5	QPSK	12	13	14.05	14.09	14.02			
5	QPSK	25	0	14.08	14.13	13.99	15.5	0	
5	16QAM	1	0	14.07	14.03	13.98			
5	16QAM	1	12	14.01	14.02	13.98	15.5	0	
5	16QAM	1	24	14.08	14.06	14.03			
5	16QAM	12	0	14.06	14.08	13.98	15.5	0	
5	16QAM	12	7	14.04	14.02	13.99			
5	16QAM	12	13	14.08	14.06	14.06	15.5	0	
5	16QAM	25	0	14.07	14.05	13.98			
5	64QAM	1	0	14.04	14.06	14.05	15.5	0	
5	64QAM	1	12	14.07	14.06	13.99			
5	64QAM	1	24	14.06	14.09	13.97	15.5	0	
5	64QAM	12	0	14.05	14.12	14.02			
5	64QAM	12	7	13.98	14.06	13.97	15.5	0	
5	64QAM	12	13	14.04	14.06	14.06			
5	64QAM	25	0	13.99	14.07	13.99	15.5	0	
5	256QAM	1	0	14.00	14.11	14.06			
5	256QAM	1	12	14.03	14.06	13.95	15.5	0	
5	256QAM	1	24	13.99	14.11	14.06			
5	256QAM	12	0	14.06	14.07	13.96	15.5	0	
5	256QAM	12	7	14.02	14.09	13.99			
5	256QAM	12	13	14.10	14.12	14.00	15.5	0	
5	256QAM	25	0	14.05	14.12	14.03			

Band 41 Ant 4										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	14.15	14.24	14.43	14.23	14.23	15.5	0
20	QPSK	1	49	14.12	14.25	14.27	14.27	14.25		
20	QPSK	1	99	14.09	14.21	14.24	14.35	14.21	15.5	0
20	QPSK	50	0	14.06	14.17	14.41	14.17	14.21		
20	QPSK	50	24	14.09	14.14	14.30	14.23	14.27	15.5	0
20	QPSK	50	50	14.03	14.27	14.37	14.38	14.24		
20	QPSK	100	0	14.00	14.21	14.40	14.32	14.23	15.5	0
20	16QAM	1	0	14.09	14.28	14.24	14.23	14.22		
20	16QAM	1	49	14.06	14.21	14.33	14.28	14.32	15.5	0
20	16QAM	1	99	13.99	14.18	14.31	14.22	14.22		
20	16QAM	50	0	14.03	14.19	14.26	14.22	14.28	15.5	0
20	16QAM	50	24	14.12	14.25	14.23	14.23	14.30		
20	16QAM	50	50	14.08	14.15	14.29	14.24	14.20	15.5	0
20	16QAM	100	0	14.07	14.14	14				

Band 38 Ant 5										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	15.67	16.03	15.83	17.5	0		
20	QPSK	1	49	15.67	15.81	15.73				
20	QPSK	1	99	15.70	15.84	15.80				
20	QPSK	50	0	15.67	15.98	15.88	17.5	0		
20	QPSK	50	24	15.62	15.81	15.92				
20	QPSK	50	50	15.67	15.96	15.87				
20	QPSK	100	0	15.61	15.94	15.81	17.5	0		
20	16QAM	1	0	15.65	15.89	15.72				
20	16QAM	1	49	15.74	15.91	15.85				
20	16QAM	1	99	15.70	16.00	15.75	17.5	0		
20	16QAM	50	0	15.71	15.80	15.89				
20	16QAM	50	24	15.60	15.88	15.82				
20	16QAM	50	50	15.68	15.87	15.81	17.5	0		
20	16QAM	100	0	15.72	15.76	15.71				
20	64QAM	1	0	15.67	15.90	15.85				
20	64QAM	1	49	15.68	15.87	15.87	17.5	0		
20	64QAM	1	99	15.55	15.83	15.71				
20	64QAM	50	0	15.71	15.97	15.87				
20	64QAM	50	24	15.64	15.98	15.81	17.5	0		
20	64QAM	50	50	15.63	15.78	15.73				
20	64QAM	100	0	15.60	15.84	15.83				
20	256QAM	1	0	15.71	15.95	15.79	17.5	0		
20	256QAM	1	49	15.65	15.89	15.84				
20	256QAM	1	99	15.61	15.91	15.78				
20	256QAM	50	0	15.72	15.83	15.81	17.5	0		
20	256QAM	50	24	15.64	15.87	15.92				
20	256QAM	50	50	15.67	15.87	15.76				
20	256QAM	100	0	15.69	15.85	15.77				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	15.58	15.78	15.83	17.5	0		
15	QPSK	1	37	15.61	15.80	15.63				
15	QPSK	1	74	15.67	15.80	15.75				
15	QPSK	36	0	15.57	15.78	15.78	17.5	0		
15	QPSK	36	20	15.51	15.71	15.82				
15	QPSK	36	39	15.56	15.86	15.67				
15	QPSK	75	0	15.53	15.79	15.74	17.5	0		
15	16QAM	1	0	15.64	15.79	15.71				
15	16QAM	1	37	15.63	15.84	15.70				
15	16QAM	1	74	15.56	15.88	15.63	17.5	0		
15	16QAM	36	0	15.59	15.71	15.74				
15	16QAM	36	20	15.50	15.79	15.65				
15	16QAM	36	39	15.56	15.70	15.69	17.5	0		
15	16QAM	75	0	15.56	15.78	15.66				
15	64QAM	1	0	15.53	15.84	15.69				
15	64QAM	1	37	15.61	15.74	15.72	17.5	0		
15	64QAM	1	74	15.51	15.70	15.68				
15	64QAM	36	0	15.56	15.88	15.68				
15	64QAM	36	20	15.57	15.79	15.73	17.5	0		
15	64QAM	36	39	15.56	15.71	15.68				
15	64QAM	75	0	15.56	15.79	15.70				
15	256QAM	1	0	15.56	15.87	15.62	17.5	0		
15	256QAM	1	37	15.58	15.75	15.74				
15	256QAM	1	74	15.58	15.80	15.76				
15	256QAM	36	0	15.61	15.71	15.73	17.5	0		
15	256QAM	36	20	15.62	15.84	15.78				
15	256QAM	36	39	15.54	15.69	15.63				
15	256QAM	75	0	15.62	15.75	15.68				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	15.65	15.82	15.83	17.5	0		
10	QPSK	1	25	15.61	15.78	15.71				
10	QPSK	1	49	15.61	15.79	15.68				
10	QPSK	25	0	15.56	15.80	15.76	17.5	0		
10	QPSK	25	12	15.54	15.76	15.80				
10	QPSK	25	25	15.61	15.86	15.77				
10	QPSK	50	0	15.51	15.87	15.69	17.5	0		
10	16QAM	1	0	15.57	15.79	15.69				
10	16QAM	1	25	15.56	15.83	15.79				
10	16QAM	1	49	15.62	15.80	15.63	17.5	0		
10	16QAM	25	0	15.55	15.78	15.78				
10	16QAM	25	12	15.50	15.83	15.61				
10	16QAM	25	25	15.62	15.73	15.73	17.5	0		
10	16QAM	50	0	15.59	15.78	15.67				
10	64QAM	1	0	15.53	15.78	15.76				
10	64QAM	1	25	15.60	15.73	15.78	17.5	0		
10	64QAM	1	49	15.52	15.73	15.65				
10	64QAM	25	0	15.62	15.85	15.72				
10	64QAM	25	12	15.57	15.81	15.73	17.5	0		
10	64QAM	25	25	15.61	15.71	15.63				
10	64QAM	50	0	15.54	15.78	15.67				
10	256QAM	1	0	15.60	15.81	15.63	17.5	0		
10	256QAM	1	25	15.51	15.85	15.69				
10	256QAM	1	49	15.56	15.77	15.76				
10	256QAM	25	0	15.63	15.70	15.74	17.5	0		
10	256QAM	25	12	15.52	15.83	15.77				
10	256QAM	25	25	15.54	15.72	15.72				
10	256QAM	50	0	15.57	15.79	15.68				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	15.56	15.74	15.78	17.5	0		
5	QPSK	1	12	15.61	15.72	15.73				
5	QPSK	1	24	15.66	15.77	15.63				
5	QPSK	12	0	15.54	15.75	15.81	17.5	0		
5	QPSK	12	7	15.52	15.77	15.82				
5	QPSK	12	13	15.62	15.85	15.68				
5	QPSK	25	0	15.53	15.83	15.76	17.5	0		
5	16QAM	1	0	15.57	15.85	15.70				
5	16QAM	1	12	15.60	15.78	15.70				
5	16QAM	1	24	15.56	15.87	15.69	17.5	0		
5	16QAM	12	0	15.58	15.72	15.73				
5	16QAM	12	7	15.54	15.80	15.65				
5	16QAM	12	13	15.63	15.89	15.73	17.5	0		
5	16QAM	25	0	15.59	15.72	15.66				
5	64QAM	1	0	15.51	15.85	15.74				
5	64QAM	1	12	15.60	15.75	15.73	17.5	0		
5	64QAM	1	24	15.64	15.71	15.61				
5	64QAM	12	0	15.65	15.79	15.73				
5	64QAM	12	7	15.52	15.79	15.76	17.5	0		
5	64QAM	12	13	15.60	15.75	15.62				
5	64QAM	25	0	15.54	15.70	15.76				
5	256QAM	1	0	15.57	15.79	15.68	17.5	0		
5	256QAM	1	12	15.52	15.81	15.71				
5	256QAM	1	24	15.52	15.82	15.70				
5	256QAM	12	0	15.62	15.72	15.73	17.5	0		
5	256QAM	12	7	15.56	15.76	15.74				
5	256QAM	12	13	15.50	15.72	15.69				
5	256QAM	25	0	15.61	15.80	15.65				

Band 41 Ant 5												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	15.86	15.74	16.26	16.04	16.04	17.5	0		
20	QPSK	1	49	15.90	15.75	16.12	16.03	16.03				
20	QPSK	1	99	15.95	15.69	16.16	16.03	16.09				
20	QPSK	50	0	15.86	15.75	16.24	16.04	16.02	17.5	0		
20	QPSK	50	24	15.90	15.77	16.23	16.06	16.03				
20	QPSK	50	50	15.94	15.71	16.14	16.03	16.02				
20	QPSK	100	0	15.94	15.70	16.15	16.10	16.05	17.5	0		
20	16QAM	1	0	15.91	15.78	16.22	16.09	16.09				
20	16QAM	1	49	15.89	15.75	16.18	16.12	16.05				
20	16QAM	1	99	15.94	15.73	16.15	16.03	16.02	17.5	0		
20	16QAM	50	0	15.84	15.71	16.21	16.12	16.01				
20												

Band 38 Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	13.04	13.27	13.05	14.5	0	
20	QPSK	1	49	13.04	13.17	13.00			
20	QPSK	1	99	13.05	13.17	12.95			
20	QPSK	50	0	13.08	13.24	13.00	14.5	0	
20	QPSK	50	24	13.03	13.23	13.02			
20	QPSK	50	50	13.07	13.14	13.03			
20	QPSK	100	0	13.01	13.14	12.98	14.5	0	
20	16QAM	1	0	13.03	13.20	13.03			
20	16QAM	1	49	13.06	13.22	12.95			
20	16QAM	1	99	12.98	13.18	12.96	14.5	0	
20	16QAM	50	0	13.03	13.15	13.04			
20	16QAM	50	24	12.99	13.21	12.98			
20	16QAM	50	50	13.03	13.20	13.03	14.5	0	
20	16QAM	100	0	13.03	13.18	12.97			
20	64QAM	1	0	13.08	13.13	13.05			
20	64QAM	1	49	12.96	13.17	13.06	14.5	0	
20	64QAM	1	99	13.02	13.19	13.01			
20	64QAM	50	0	13.03	13.14	12.94			
20	64QAM	50	24	13.03	13.16	13.03	14.5	0	
20	64QAM	50	50	13.05	13.15	13.05			
20	64QAM	100	0	13.03	13.11	13.02			
20	256QAM	1	0	13.03	13.15	13.03	14.5	0	
20	256QAM	1	49	12.97	13.16	13.06			
20	256QAM	1	99	13.07	13.16	12.97			
20	256QAM	50	0	12.98	13.22	12.94	14.5	0	
20	256QAM	50	24	13.05	13.18	12.95			
20	256QAM	50	50	13.07	13.20	12.98			
20	256QAM	100	0	13.03	13.19	12.95			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	12.97	13.06	12.94	14.5	0	
15	QPSK	1	37	12.87	13.13	12.91			
15	QPSK	1	74	12.89	13.01	12.87			
15	QPSK	36	0	12.94	13.04	12.94	14.5	0	
15	QPSK	36	20	12.92	13.09	12.89			
15	QPSK	36	39	12.95	13.08	12.96			
15	QPSK	75	0	12.87	13.03	12.87	14.5	0	
15	16QAM	1	0	12.93	13.10	12.87			
15	16QAM	1	37	12.82	13.12	12.88			
15	16QAM	1	74	12.95	13.06	12.92	14.5	0	
15	16QAM	36	0	12.96	13.11	12.92			
15	16QAM	36	20	12.89	13.02	12.93			
15	16QAM	36	39	12.89	13.10	12.84	14.5	0	
15	16QAM	75	0	12.87	13.11	12.90			
15	64QAM	1	0	12.92	13.13	12.93			
15	64QAM	1	37	12.95	13.01	12.87	14.5	0	
15	64QAM	1	74	12.91	13.08	12.89			
15	64QAM	36	0	12.94	13.02	12.89			
15	64QAM	36	20	12.86	13.02	12.86	14.5	0	
15	64QAM	36	39	12.93	13.09	12.91			
15	64QAM	75	0	12.92	13.10	12.93			
15	256QAM	1	0	12.87	13.04	12.85	14.5	0	
15	256QAM	1	37	12.91	13.03	12.90			
15	256QAM	1	74	12.96	13.12	12.96			
15	256QAM	36	0	12.87	13.08	12.91	14.5	0	
15	256QAM	36	20	12.90	13.10	12.91			
15	256QAM	36	39	12.91	13.02	12.87			
15	256QAM	75	0	12.92	13.08	12.90			
Channel				37800	38000	38200			
Frequency (MHz)				2975	2995	2815			
10	QPSK	1	0	12.91	13.09	12.95	14.5	0	
10	QPSK	1	25	12.93	13.03	12.94			
10	QPSK	1	49	12.93	13.04	12.90			
10	QPSK	25	0	12.92	13.13	12.93	14.5	0	
10	QPSK	25	12	12.92	13.10	12.95			
10	QPSK	25	25	12.97	13.07	12.91			
10	QPSK	50	0	12.90	13.07	12.93	14.5	0	
10	16QAM	1	0	12.95	13.09	12.94			
10	16QAM	1	25	12.88	13.06	12.92			
10	16QAM	1	49	12.89	13.01	12.95	14.5	0	
10	16QAM	25	0	12.96	13.03	12.87			
10	16QAM	25	12	12.88	13.10	12.85			
10	16QAM	25	25	12.96	13.12	12.92	14.5	0	
10	16QAM	50	0	12.97	13.08	12.96			
10	64QAM	1	0	12.89	13.13	12.85			
10	64QAM	1	25	12.88	13.10	12.94	14.5	0	
10	64QAM	1	49	12.90	13.01	12.89			
10	64QAM	25	0	12.89	13.11	12.87			
10	64QAM	25	12	12.97	13.09	12.95	14.5	0	
10	64QAM	25	25	12.92	13.06	12.84			
10	64QAM	50	0	12.90	13.07	12.90			
10	256QAM	1	0	12.96	13.03	12.87	14.5	0	
10	256QAM	1	25	12.92	13.12	12.90			
10	256QAM	1	49	12.88	13.01	12.88			
10	256QAM	25	0	12.87	13.04	12.86	14.5	0	
10	256QAM	25	12	12.88	13.02	12.87			
10	256QAM	25	25	12.94	13.05	12.93			
10	256QAM	50	0	12.93	13.12	12.88			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	12.94	13.05	12.90	14.5	0	
5	QPSK	1	12	12.92	13.13	12.92			
5	QPSK	1	24	12.95	13.12	12.95			
5	QPSK	12	0	12.96	13.03	12.96	14.5	0	
5	QPSK	12	7	12.92	13.05	12.87			
5	QPSK	12	13	12.91	13.05	12.89			
5	QPSK	25	0	12.95	13.10	12.88	14.5	0	
5	16QAM	1	0	12.95	13.03	12.86			
5	16QAM	1	12	12.88	13.12	12.87			
5	16QAM	1	24	12.97	13.03	12.94	14.5	0	
5	16QAM	12	0	12.88	13.12	12.85			
5	16QAM	12	7	12.98	13.06	12.90			
5	16QAM	12	13	12.90	13.06	12.93	14.5	0	
5	16QAM	25	0	12.98	13.12	12.89			
5	64QAM	1	0	12.89	13.03	12.84			
5	64QAM	1	12	12.94	13.07	12.87	14.5	0	
5	64QAM	1	24	12.92	13.07	12.94			
5	64QAM	12	0	12.93	13.10	12.93			
5	64QAM	12	7	12.89	13.02	12.91	14.5	0	
5	64QAM	12	13	12.89	13.05	12.92			
5	64QAM	25	0	12.86	13.04	12.93			
5	256QAM	1	0	12.91	13.05	12.94	14.5	0	
5	256QAM	1	12	12.89	13.10	12.93			
5	256QAM	1	24	12.98	13.02	12.90			
5	256QAM	12	0	12.91	13.09	12.87	14.5	0	
5	256QAM	12	7	12.94	13.01	12.91			
5	256QAM	12	13	12.88	13.10	12.87			
5	256QAM	25	0	12.97	13.01	12.85			

Band 41 Ant 7										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	13.29	13.34	13.41	13.26	13.33	14.5	0
20	QPSK	1	49	13.33	13.30	13.38	13.32	13.35		
20	QPSK	1	99	13.26	13.34	13.34	13.30	13.28		
20	QPSK	50	0	13.24	13.29	13.38	13.31	13.37	14.5	0
20	QPSK	50	24	13.33	13.28	13.34	13.32	13.30		
20	QPSK	50	50	13.31	13.34	13.36	13.25	13.30		
20	QPSK	100	0	13.33	13.35	13.38	13.35	13.33	14.5	0
20	16QAM	1	0	13.21	13.38	13.41	13.27	13.34		
20	16QAM	1	49	13.27	13.40	13.35	13.29	13.30		
20	16QAM	1	99	13.25	13.39	13.43	13.34	13.36	14.5	0
20	16QAM	50	0	13.29	13.33	13.36	13.28	13.31		
20	16QAM	50	24	13.33	13.30	13.33	13.30	13.34		
20	16QAM	50	50	13.31	13.38	13.37	13.26	13.34	14.5	0
20	16QAM	100	0	13.32	13.31	13.41	13.32	13.29		
20	64QAM	1	0	13.31	13.39	13.43	13.35	13.33		
20	64QAM	1	49	13.23	13.37	13.43	13.31	13.35	14.5	0
20	64QAM	1	99	13.31	13.40	13.39	13.35	13.37		
20	64QAM	50	0	13.31	13.35	13.34	13.35	13.27		
20	64QAM	50	24	13.23	13.30	13.35	13.33	13.28	14.5	0

Reduced Power Mode for Sensor off

GSM850 Ant 4 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM11 Tx slot	31.97	32.04	31.89	33.50	22.97	23.04	22.99	24.50
GPRS 1 Tx slot	31.93	32.06	31.94	33.50	22.93	23.06	22.94	24.50
GPRS 2 Tx slots	31.10	31.22	31.14	31.50	25.10	25.22	25.14	25.50
GPRS 3 Tx slots	29.23	29.36	29.33	29.50	24.97	25.10	25.07	25.24
GPRS 4 Tx slots	28.04	28.17	28.15	28.50	25.04	25.17	25.15	25.50
EDGE 1 Tx slot	26.01	26.12	26.05	28.00	17.01	17.12	17.05	19.00
EDGE 2 Tx slots	24.79	24.83	24.81	26.00	18.79	18.83	18.81	20.00
EDGE 3 Tx slots	22.47	22.51	22.49	24.00	18.21	18.25	18.23	19.74
EDGE 4 Tx slots	21.13	21.17	21.14	22.00	18.13	18.17	18.14	19.00

GSM1900 Ant 4 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1860	1909.8		1850.2	1860	1909.8	
GSM11 Tx slot	26.73	27.15	27.13	28.50	17.73	18.15	18.13	19.50
GPRS 1 Tx slot	26.71	27.17	27.10	28.50	17.71	18.17	18.10	19.50
GPRS 2 Tx slots	25.93	26.31	26.26	26.50	19.93	20.31	20.26	20.50
GPRS 3 Tx slots	24.05	24.45	24.45	25.50	19.79	20.19	20.19	21.24
GPRS 4 Tx slots	23.15	23.30	23.26	24.50	20.15	20.30	20.26	21.50
EDGE 1 Tx slot	23.17	23.05	23.02	25.00	14.17	14.05	14.02	16.00
EDGE 2 Tx slots	22.00	21.83	21.78	23.00	16.00	15.83	15.78	17.00
EDGE 3 Tx slots	19.91	19.71	19.62	21.00	15.65	15.45	15.36	16.74
EDGE 4 Tx slots	18.63	18.22	18.21	19.00	15.65	15.22	15.21	16.00

Band TX Channel	WCDMA II Ant 4			Tune-up Limit (dBm)	WCDMA IV Ant 4			Tune-up Limit (dBm)	WCDMA V Ant 4			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1824.4	1830	1897.6		1724.4	1724.6	1732.8		2304	2304	2406	
3GPP Rel 99 AMR 12.2Kbps	21.34	21.43	21.41	22.50	22.73	22.81	22.80	24.00	23.30	23.33	23.31	24.50
3GPP Rel 99 RMC 12.2Kbps	21.44	21.53	21.40	22.50	22.79	22.83	22.81	24.00	23.36	23.40	23.38	24.50
3GPP Rel 6 HSDPA Subtest-1	20.37	20.41	20.34	21.50	21.86	21.88	21.87	23.00	22.40	22.40	22.41	23.50
3GPP Rel 6 HSDPA Subtest-2	20.27	20.44	20.39	21.50	21.90	22.03	22.02	23.00	22.33	22.43	22.44	23.50
3GPP Rel 6 HSDPA Subtest-3	19.80	19.82	19.99	21.00	21.45	21.45	21.36	22.50	21.92	21.89	21.86	23.00
3GPP Rel 6 HSDPA Subtest-4	20.01	20.01	19.97	21.00	21.37	21.55	21.44	22.50	21.95	22.04	21.92	23.00
3GPP Rel 6 DCHSDPA Subtest-1	20.36	20.42	20.39	21.50	21.99	22.00	21.97	23.00	22.49	22.53	22.37	23.50
3GPP Rel 6 DCHSDPA Subtest-2	20.39	20.57	20.31	21.50	21.86	21.99	22.04	23.00	22.47	22.52	22.41	23.50
3GPP Rel 6 DCHSDPA Subtest-3	19.82	19.93	19.95	21.00	21.39	21.40	21.32	22.50	21.83	21.86	21.87	23.00
3GPP Rel 6 DCHSDPA Subtest-4	19.92	20.02	20.00	21.00	21.53	21.31	21.36	22.50	21.91	22.04	21.82	23.00
3GPP Rel 6 HSUPA Subtest-1	19.04	18.95	18.96	20.00	20.34	20.40	20.46	21.50	20.87	21.03	20.84	22.00
3GPP Rel 6 HSUPA Subtest-2	18.85	18.90	18.92	20.00	20.40	20.55	20.38	21.50	20.83	20.90	20.87	22.00
3GPP Rel 6 HSUPA Subtest-3	18.51	18.48	18.43	19.50	19.83	20.05	19.93	21.00	20.45	20.33	20.48	21.50
3GPP Rel 6 HSUPA Subtest-4	18.43	18.46	18.37	19.50	19.89	20.09	20.02	21.00	20.32	20.42	20.31	21.50
3GPP Rel 6 HSUPA Subtest-5	18.50	18.44	18.38	19.50	19.84	20.07	19.76	21.00	20.36	20.34	20.27	21.50



Band 2 Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power Hsp. Ch. / Freq.	Power Hsp. Ch. / Freq.	Turn-up (min)	MFR (dB)		
Channel	Frequency (MHz)	1860	1860	1860	1860	1860				
20	QPSK	1	0	20.56	20.69	20.80			22	0
20	QPSK	1	99	20.53	20.63	20.46				
20	QPSK	50	0	20.52	20.54	20.23				
20	QPSK	50	99	20.50	20.41	20.23				
20	QPSK	50	24	20.49	20.63	20.28			22	0
20	QPSK	100	0	20.30	20.32	20.34				
20	16QAM	1	49	20.44	20.43	20.44				
20	16QAM	1	99	20.40	20.33	20.32				
20	16QAM	50	0	20.39	20.36	20.38				
20	16QAM	50	24	20.37	20.39	20.37				
20	16QAM	50	99	20.43	20.44	20.44				
20	16QAM	100	0	20.39	20.31	20.39				
20	16QAM	100	24	20.39	20.40	20.39				
20	16QAM	100	99	20.39	20.37	20.32			22	0
20	16QAM	200	0	20.38	20.38	20.38				
20	16QAM	200	24	20.38	20.38	20.38				
20	16QAM	200	99	20.38	20.38	20.38				
20	16QAM	400	0	20.39	20.37	20.37			21	1
20	16QAM	400	24	20.39	20.37	20.37				
20	16QAM	400	99	20.39	20.37	20.37				
20	256QAM	1	99	17.21	17.33	17.34			19	3
20	256QAM	1	99	17.42	17.37	17.29				
20	256QAM	50	0	17.29	17.47	17.34				
20	256QAM	50	24	17.35	17.27	17.39				
20	256QAM	50	99	17.30	17.31	17.21			19	3
20	256QAM	100	0	17.30	17.31	17.21				
20	256QAM	100	24	17.30	17.31	17.21				
20	256QAM	100	99	17.30	17.31	17.21				
15	QPSK	1	0	20.23	20.63	20.39			22	0
15	QPSK	1	99	20.24	20.67	20.40				
15	QPSK	1	74	20.43	20.69	20.42				
15	QPSK	36	0	20.28	20.53	20.27				
15	QPSK	36	99	20.28	20.41	20.41				
15	QPSK	36	99	20.44	20.63	20.17			22	0
15	QPSK	75	0	20.23	20.45	20.36				
15	QPSK	75	99	20.23	20.40	20.40				
15	16QAM	1	37	20.40	20.21	20.38			23	0.5
15	16QAM	1	99	20.40	20.21	20.38				
15	16QAM	36	0	20.48	20.65	20.51				
15	16QAM	36	99	20.50	20.54	20.56				
15	16QAM	36	99	20.50	20.54	20.56				
15	16QAM	75	0	20.52	20.44	20.52				
15	16QAM	75	99	20.49	20.53	20.41				
15	16QAM	75	99	20.52	20.52	20.52				
15	16QAM	150	0	20.52	20.44	20.52				
15	16QAM	150	24	20.52	20.44	20.52				
15	16QAM	150	99	20.52	20.44	20.52				
15	16QAM	300	0	20.52	20.44	20.52				
15	16QAM	300	24	20.52	20.44	20.52				
15	16QAM	300	99	20.52	20.44	20.52				
15	16QAM	600	0	20.52	20.44	20.52				
15	16QAM	600	24	20.52	20.44	20.52				
15	16QAM	600	99	20.52	20.44	20.52				
15	16QAM	1200	0	20.52	20.44	20.52				
15	16QAM	1200	24	20.52	20.44	20.52				
15	16QAM	1200	99	20.52	20.44	20.52				
15	16QAM	2400	0	20.52	20.44	20.52				
15	16QAM	2400	24	20.52	20.44	20.52				
15	16QAM	2400	99	20.52	20.44	20.52				
15	16QAM	4800	0	20.52	20.44	20.52				
15	16QAM	4800	24	20.52	20.44	20.52				
15	16QAM	4800	99	20.52	20.44	20.52				
15	16QAM	9600	0	20.52	20.44	20.52				
15	16QAM	9600	24	20.52	20.44	20.52				
15	16QAM	9600	99	20.52	20.44	20.52				
15	16QAM	19200	0	20.52	20.44	20.52				
15	16QAM	19200	24	20.52	20.44	20.52				
15	16QAM	19200	99	20.52	20.44	20.52				
15	16QAM	38400	0	20.52	20.44	20.52				
15	16QAM	38400	24	20.52	20.44	20.52				
15	16QAM	38400	99	20.52	20.44	20.52				
15	16QAM	76800	0	20.52	20.44	20.52				
15	16QAM	76800	24	20.52	20.44	20.52				
15	16QAM	76800	99	20.52	20.44	20.52				
15	16QAM	153600	0	20.52	20.44	20.52				
15	16QAM	153600	24	20.52	20.44	20.52				
15	16QAM	153600	99	20.52	20.44	20.52				
15	16QAM	307200	0	20.52	20.44	20.52				
15	16QAM	307200	24	20.52	20.44	20.52				
15	16QAM	307200	99	20.52	20.44	20.52				
15	16QAM	614400	0	20.52	20.44	20.52				
15	16QAM	614400	24	20.52	20.44	20.52				
15	16QAM	614400	99	20.52	20.44	20.52				
15	16QAM	1228800	0	20.52	20.44	20.52				
15	16QAM	1228800	24	20.52	20.44	20.52				
15	16QAM	1228800	99	20.52	20.44	20.52				
15	16QAM	2457600	0	20.52	20.44	20.52				
15	16QAM	2457600	24	20.52	20.44	20.52				
15	16QAM	2457600	99	20.52	20.44	20.52				
15	16QAM	4915200	0	20.52	20.44	20.52				
15	16QAM	4915200	24	20.52	20.44	20.52				
15	16QAM	4915200	99	20.52	20.44	20.52				
15	16QAM	9830400	0	20.52	20.44	20.52				
15	16QAM	9830400	24	20.52	20.44	20.52				
15	16QAM	9830400	99	20.52	20.44	20.52				
15	16QAM	19660800	0	20.52	20.44	20.52				
15	16QAM	19660800	24	20.52	20.44	20.52				
15	16QAM	19660800	99	20.52	20.44	20.52				
15	16QAM	39321600	0	20.52	20.44	20.52				
15	16QAM	39321600	24	20.52	20.44	20.52				
15	16QAM	39321600	99	20.52	20.44	20.52				
15	16QAM	78643200	0	20.52	20.44	20.52				
15	16QAM	78643200	24	20.52	20.44	20.52				
15	16QAM	78643200	99	20.52	20.44	20.52				
15	16QAM	157286400	0	20.52	20.44	20.52				
15	16QAM	157286400	24	20.52	20.44	20.52				
15	16QAM	157286400	99	20.52	20.44	20.52				
15	16QAM	314572800	0	20.52	20.44	20.52				
15	16QAM	314572800	24	20.52	20.44	20.52				
15	16QAM	314572800	99	20.52	20.44	20.52				
15	16QAM	629145600	0	20.52	20.44	20.52				
15	16QAM	629145600	24	20.52	20.44	20.52				
15	16QAM	629145600	99	20.52	20.44	20.52				
15	16QAM	1258291200	0	20.52	20.44	20.52				
15	16QAM	1258291200	24	20.52	20.44	20.52				
15	16QAM	1258291200	99	20.52	20.44	20.52				
15	16QAM	2516582400	0	20.52	20.44	20.52				
15	16QAM	2516582400	24	20.52	20.44	20.52				
15	16QAM	2516582400	99	20.52	20.44	20.52				
15	16QAM	5033164800	0	20.52	20.44	20.52				
15	16QAM	5033164800	24	20.52	20.44	20.52				
15	16QAM	5033164800	99	20.52	20.44	20.52				
15	16QAM	10066329600	0	20.52	20.44	20.52				
15	16QAM	10066329600	24	20.52	20.44	20.52				
15	16QAM	10066329600	99	20.52	20.44	20.52				
15	16QAM	20132659200	0	20.52	20.44	20.52				
15	16QAM	20132659200	24	20.52	20.44	20.52				
15	16QAM	20132659200	99	20.52	20.44	20.52				
15	16QAM	40265318400	0	20.52	20.44	20.52				
15	16QAM	40265318400	24	20.52	20.44	20.52				
15	16QAM	40265318400	99	20.52	20.44	20.52				
15	16QAM	80530636800	0	20.52	20.44	20.52				
15	16QAM	80530636800	24	20.52	20.44	20.52				
15	16QAM	80530636800	99	20.52	20.44	20.52				
15	16QAM	161061273600	0	20.52	20.44	20.52				
15	16QAM	161061273600	24	20.52	20.44	20.52				
15	16QAM	161061273600	99	20.52	20.44	20.52				
15	16QAM	322122547200	0	20.52	20.44	20.52				
15	16QAM	322122547200	24	20.52	20.44	20.52				
15	16QAM	322122547200	99	20.52	20.44	20.52				
15	16QAM	644245094400	0	20.52	20.44	20.52				
15	16QAM	644245094400	24							



Band 12 Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Turn-up time (sec)	MFR (dB)		
10	QPSK	1	0	22.63	22.69	22.56				
10	QPSK	1	25	22.49	22.54	22.71				
10	QPSK	1	49	22.50	22.58	22.58			24	0
10	QPSK	25	0	21.83	21.66	21.62				
10	QPSK	25	13	21.98	21.61	21.54				
10	QPSK	25	26	21.83	21.61	21.27			23	1
10	QPSK	50	0	21.62	21.67	21.66				
10	QPSK	50	25	21.69	21.76	21.79				
10	HQAM	1	25	21.72	21.69	21.73			23	1
10	HQAM	5	49	21.79	21.89	21.97				
10	HQAM	25	0	20.54	20.54	20.54				
10	HQAM	25	12	20.54	20.57	20.73			22	2
10	HQAM	25	25	20.80	20.53	20.76				
10	HQAM	50	0	20.37	20.53	20.47				
10	HQAM	1	0	20.56	20.68	20.46				
10	HQAM	1	25	20.57	20.35	20.31			22	2
10	HQAM	1	49	20.57	20.53	20.51				
10	HQAM	25	0	19.57	19.46	19.43				
10	HQAM	25	12	19.46	19.40	19.53			21	3
10	HQAM	25	25	19.39	19.53	19.54				
10	HQAM	50	0	19.58	19.58	19.49				
10	HQAM	1	25	17.69	17.52	17.51			19	5
10	HQAM	1	49	17.49	17.69	17.46				
10	HQAM	1	25	17.62	17.68	17.48				
10	HQAM	25	12	17.65	17.39	17.42			19	5
10	HQAM	25	25	17.57	17.42	17.53				
10	HQAM	50	0	20.95	20.95	20.95				
10	HQAM	50	25	20.95	20.95	20.95				
10	HQAM	1	25	20.95	20.95	20.95				
10	HQAM	1	49	20.95	20.95	20.95				
10	HQAM	1	25	20.95	20.95	20.95				
10	HQAM	1	49	20.95	20.95	20.95				
10	HQAM	25	0	19.83	19.47	19.43			21	3
10	HQAM	25	12	19.83	19.47	19.43				
10	HQAM	25	25	19.83	19.47	19.43				
10	HQAM	50	0	19.83	19.47	19.43				
10	HQAM	1	25	17.61	17.63	17.61			19	5
10	HQAM	1	49	17.57	17.54	17.49				
10	HQAM	1	25	17.50	17.50	17.53				
10	HQAM	25	12	17.50	17.50	17.53			19	5
10	HQAM	25	25	17.51	17.36	17.47				
10	HQAM	50	0	17.40	17.43	17.43				
10	HQAM	50	25	20.95	20.95	20.95				
10	HQAM	1	25	20.95	20.95	20.95				
10	HQAM	1	49	20.95	20.95	20.95				
10	HQAM	1	25	20.95	20.95	20.95				
10	HQAM	1	49	20.95	20.95	20.95				
10	HQAM	25	0	20.48	20.48	20.54				
10	HQAM	25	12	20.48	20.48	20.54				
10	HQAM	25	25	20.48	20.48	20.54				
10	HQAM	50	0	20.48	20.48	20.54				
10	HQAM	1	25	20.48	20.48	20.54				
10	HQAM	1	49	20.48	20.48	20.54				
10	HQAM	1	25	20.48	20.48	20.54				
10	HQAM	1	49	20.48	20.48	20.54				
10	HQAM	25	0	19.55	19.47	19.50			21	3
10	HQAM	25	12	19.55	19.47	19.50				
10	HQAM	25	25	19.55	19.47	19.50				
10	HQAM	50	0	17.66	17.50	17.48			19	5
10	HQAM	1	25	17.66	17.50	17.48				
10	HQAM	1	49	17.66	17.50	17.48				
10	HQAM	1	25	17.66	17.50	17.48			19	5
10	HQAM	1	49	17.66	17.50	17.48				
10	HQAM	25	0	17.66	17.49	17.65			19	5
10	HQAM	25	12	17.66	17.49	17.65				
10	HQAM	25	25	17.66	17.49	17.65				
10	HQAM	50	0	17.56	17.60	17.66				

Band 13 Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Turn-up time (sec)	MFR (dB)		
10	QPSK	1	0	22.66	22.66	22.61				
10	QPSK	1	25	22.62	22.66	22.61			24	0
10	QPSK	1	49	22.58	22.66	22.61				
10	QPSK	25	0	21.98	21.84	21.81				
10	QPSK	25	13	21.98	21.84	21.81				
10	QPSK	25	26	21.56	21.66	21.61			23	1
10	QPSK	50	0	21.53	21.77	21.71				
10	QPSK	50	25	21.77	21.77	21.71				
10	HQAM	1	25	21.70	21.70	21.70			23	1
10	HQAM	1	49	21.79	21.89	21.97				
10	HQAM	25	0	20.54	20.54	20.54				
10	HQAM	25	12	20.54	20.57	20.73			22	2
10	HQAM	25	25	20.80	20.53	20.76				
10	HQAM	50	0	20.37	20.53	20.47				
10	HQAM	1	0	20.56	20.68	20.46				
10	HQAM	1	25	20.57	20.35	20.31			22	2
10	HQAM	1	49	20.57	20.53	20.51				
10	HQAM	25	0	19.57	19.46	19.43				
10	HQAM	25	12	19.46	19.40	19.53			21	3
10	HQAM	25	25	19.39	19.53	19.54				
10	HQAM	50	0	19.58	19.58	19.49				
10	HQAM	1	25	17.69	17.52	17.51			19	5
10	HQAM	1	49	17.57	17.69	17.46				
10	HQAM	1	25	17.62	17.68	17.48				
10	HQAM	25	12	17.65	17.39	17.42			19	5
10	HQAM	25	25	17.60	17.42	17.53				
10	HQAM	50	0	20.95	20.95	20.95				
10	HQAM	50	25	20.95	20.95	20.95				
10	HQAM	1	25	20.95	20.95	20.95				
10	HQAM	1	49	20.95	20.95	20.95				
10	HQAM	1	25	20.95	20.95	20.95				
10	HQAM	1	49	20.95	20.95	20.95				
10	HQAM	25	0	19.83	19.48	19.54			21	3
10	HQAM	25	12	19.83	19.48	19.54				
10	HQAM	25	25	19.83	19.48	19.54				
10	HQAM	50	0	19.83	19.48	19.54				
10	HQAM	1	25	17.52	17.52	17.51			19	5
10	HQAM	1	49	17.52	17.52	17.51				
10	HQAM	1	25	17.52	17.52	17.51			19	5
10	HQAM	1	49	17.52	17.52	17.51				
10	HQAM	25	0	17.56	17.49	17.65			19	5
10	HQAM	25	12	17.56	17.49	17.65				
10	HQAM	25	25	17.56	17.49	17.65				

Band 25 Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Turn-up time (sec)	MFR (dB)		
10	QPSK	1	0	20.68	20.71	20.68				
10	QPSK	1	25	20.64	20.69	20.69			22	0
10	QPSK	1	49	20.64	20.69	20.69				
10	QPSK	25	0	20.38	20.68	20.31				
10	QPSK	25	13	20.33	20.68	20.31				
10	QPSK	25	26	20.49	20.63	20.31			22	0
10	QPSK	50	0	20.39	20.54	20.37				
10	QPSK	50	25	20.54	20.42	20.37				
10	HQAM	1	25	20.44	20.34	20.48			22	0
10	HQAM	1	49	20.44	20.34	20.48				
10	HQAM	1	25	20.44	20.34	20.48				
10	HQAM	1	49	20.44	20.34	20.48				
10	HQAM	25	0	19.56	19.36	19.36			21	1
10	HQAM	25	12	19.56	19.36	19.36				
10	HQAM	25	25	19.56	19.36	19.36				
10	HQAM	50	0	19.56	19.36	19.36				
10	HQAM	1	25	17.5						



Band 66 Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mch / Freq.	Power High Ch / Freq.	Time-up limit (min)	MPE (dB)		
Channel										
Frequency (MHz)				1750	1745	1775				
20	QPSK	1	0	21.76	22.15	21.95		23.5	0	
20	QPSK	1	49	22.01	22.09	21.85				
20	QPSK	1	99	22.02	21.89	21.68				
20	QPSK	50	0	21.54	21.94	21.48				
20	QPSK	50	-24	21.57	21.97	21.52				
20	QPSK	50	50	21.36	21.59	21.61				
20	QPSK	100	0	21.43	21.84	21.54				
20	16QAM	1	0	21.55	21.93	21.52				
20	16QAM	1	49	21.58	21.53	21.38				
20	16QAM	1	99	21.47	21.55	21.45				
20	16QAM	50	0	20.69	20.89	20.73				
20	16QAM	50	24	20.83	20.55	20.50				
20	16QAM	50	50	20.61	20.89	20.62				
20	16QAM	100	0	20.69	20.84	20.51				
20	64QAM	1	0	20.77	20.88	20.79				
20	64QAM	1	49	20.75	20.79	20.62				
20	64QAM	1	99	20.77	20.88	20.69				
20	64QAM	50	0	19.38	19.44	19.48				
20	64QAM	50	24	19.58	19.65	19.62				
20	64QAM	50	50	19.39	19.43	19.44				
20	64QAM	100	0	19.28	19.69	19.38				
20	256QAM	1	0	17.38	17.47	17.56				
20	256QAM	1	49	17.44	17.33	17.48				
20	256QAM	1	99	17.73	17.64	17.52				
20	256QAM	50	0	17.38	17.45	17.48				
20	256QAM	50	-24	17.58	17.35	17.60				
20	256QAM	50	50	17.45	17.62	17.49				
20	256QAM	100	0	17.27	17.44	17.51				
Channel										
Frequency (MHz)				1717.5	1745	1772.5				
15	QPSK	1	0	21.60	21.97	21.69		23.5	0	
15	QPSK	1	37	21.88	21.97	21.84				
15	QPSK	1	74	21.85	21.83	21.72				
15	QPSK	36	0	21.27	21.52	21.45				
15	QPSK	36	20	21.69	21.93	21.53				
15	QPSK	36	39	21.15	21.47	21.42				
15	16QAM	1	0	21.35	21.44	21.39				
15	16QAM	1	37	21.59	21.54	21.28				
15	16QAM	1	74	21.47	21.38	21.28				
15	16QAM	36	0	20.50	20.67	20.67				
15	16QAM	36	20	20.84	20.65	20.74				
15	16QAM	36	39	20.63	20.79	20.77				
15	16QAM	75	0	20.51	20.83	20.69				
15	64QAM	1	0	20.75	20.79	20.74				
15	64QAM	1	37	20.79	20.77	20.65				
15	64QAM	1	74	20.63	20.85	20.54				
15	64QAM	36	0	19.31	19.27	19.29				
15	64QAM	36	20	19.51	19.54	19.63				
15	64QAM	36	39	19.21	19.42	19.25				
15	64QAM	75	0	19.57	19.48	19.34				
15	256QAM	1	0	17.23	17.52	17.48				
15	256QAM	1	37	17.33	17.28	17.47				
15	256QAM	1	74	17.65	17.63	17.38				
15	256QAM	36	0	17.28	17.32	17.52				
15	256QAM	36	20	17.59	17.32	17.45				
15	256QAM	36	39	17.27	17.53	17.34				
15	256QAM	75	0	17.27	17.42	17.62				
Channel										
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	0	21.65	21.59	21.68		23.5	0	
10	QPSK	1	25	21.87	21.93	21.81				
10	QPSK	1	49	21.83	21.90	21.85				
10	QPSK	25	0	21.26	21.53	21.43				
10	QPSK	25	12	21.57	21.42	21.35				
10	QPSK	25	25	21.21	21.59	21.53				
10	16QAM	1	0	21.43	21.54	21.48				
10	16QAM	1	0	21.39	21.49	21.48				
10	16QAM	1	25	21.42	21.38	21.30				
10	16QAM	1	49	21.48	21.44	21.29				
10	16QAM	25	0	20.81	20.77	20.60				
10	16QAM	25	12	20.80	20.56	20.69				
10	16QAM	25	25	20.79	20.71	20.64				
10	16QAM	50	0	20.84	20.84	20.83				
10	64QAM	1	0	20.77	20.82	20.58				
10	64QAM	1	25	20.81	20.60	20.75				
10	64QAM	1	49	20.67	20.85	20.84				
10	64QAM	25	0	19.16	19.36	19.24				
10	64QAM	25	12	19.51	19.43	19.45				
10	64QAM	25	25	19.35	19.39	19.32				
10	64QAM	50	0	19.11	19.40	19.28				
10	256QAM	1	0	17.54	17.61	17.75				
10	256QAM	1	25	17.73	17.60	17.75				
10	256QAM	1	49	17.59	17.75	17.77				
10	256QAM	25	0	17.58	17.58	17.61				
10	256QAM	25	12	17.89	17.52	17.81				
10	256QAM	25	25	17.71	17.85	17.66				
10	256QAM	50	0	17.55	17.58	17.59				
Channel										
Frequency (MHz)				1519.97	1523.22	1526.47				
5	QPSK	1	0	21.65	21.59	21.73		23.5	0	
5	QPSK	1	12	21.93	21.94	21.84				
5	QPSK	1	24	21.88	21.88	21.89				
5	QPSK	12	0	21.34	21.66	21.56				
5	QPSK	12	7	21.42	21.45	21.44				
5	QPSK	12	13	21.18	21.48	21.44				
5	QPSK	25	0	21.22	21.53	21.59				
5	16QAM	1	0	21.47	21.44	21.40				
5	16QAM	1	12	21.39	21.48	21.38				
5	16QAM	1	24	21.39	21.43	21.35				
5	16QAM	12	0	20.82	20.69	20.68				
5	16QAM	12	7	20.85	20.59	20.85				
5	16QAM	12	13	20.62	20.86	20.72				
5	16QAM	25	0	20.66	20.74	20.69				
5	64QAM	1	0	20.78	20.72	20.70				
5	64QAM	1	12	20.72	20.69	20.75				
5	64QAM	1	24	20.82	20.72	20.68				
5	64QAM	12	0	19.26	19.25	19.23				
5	64QAM	12	7	19.47	19.51	19.56				
5	64QAM	12	13	19.32	19.54	19.39				
5	16QAM	25	0	19.27	19.42	19.15				
5	256QAM	1	0	17.39	17.43	17.35				
5	256QAM	1	12	17.24	17.39	17.30				
5	256QAM	1	24	17.67	17.51	17.52				
5	256QAM	12	0	17.24	17.44	17.34				
5	256QAM	12	7	17.39	17.17	17.59				
5	256QAM	12	13	17.27	17.69	17.46				
5	256QAM	25	0	17.24	17.27	17.48				
Channel										
Frequency (MHz)				1319.79	1323.22	1326.65				
3	QPSK	1	0	21.64	21.95	21.74		23.5	0	
3	QPSK	1	8	21.93	21.89	21.81				
3	QPSK	1	14	21.75	21.89	21.65				
3	QPSK	8	0	21.35	21.44	21.33				
3	QPSK	8	4	21.38	21.47	21.52				
3	QPSK	8	7	21.23	21.47	21.39				
3	QPSK	15	0	21.29	21.63	21.52				
3	16QAM	1	0	21.35	21.46	21.34				
3	16QAM	1	8	21.45	21.45	21.23				
3	16QAM	1	14	21.45	21.60	21.34				
3	16QAM	8	0	20.48	20.59	20.62				
3	16QAM	8	4	20.44	20.53	20.73				
3	16QAM	8	7	20.48	20.82	20.72				
3	16QAM	15	0	20.50	20.68	20.76				
3	16QAM									



Band 2 Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. Freq.	Power Hsp. Ch. Freq.	Power Hsp. Ch. Freq.	Turn-up (min)	MFR (dB)		
20	QPSK	1	0	22.55	22.71	22.86			24	0
20	QPSK	1	99	22.47	22.63	22.78				
20	QPSK	50	0	21.84	21.89	21.93			23	1
20	QPSK	50	24	21.49	21.54	21.58				
20	QPSK	50	50	21.56	21.61	21.66				
20	QPSK	100	0	21.83	21.87	21.91			23	1
20	QPSK	100	24	21.56	21.60	21.64				
20	16QAM	1	49	21.65	21.72	21.79				
20	16QAM	1	99	21.74	21.77	21.71				
20	16QAM	50	0	20.39	20.59	20.45			22	2
20	16QAM	50	24	20.54	20.54	20.53				
20	16QAM	50	50	20.57	20.66	20.67				
20	16QAM	100	0	20.48	20.67	20.61				
20	16QAM	100	24	20.37	20.56	20.40				
20	16QAM	100	50	20.34	20.64	20.63			22	2
20	16QAM	100	99	20.36	20.66	20.68				
20	16QAM	50	0	19.52	19.67	19.56				
20	16QAM	50	24	19.41	19.63	19.51			21	3
20	16QAM	50	50	19.53	19.65	19.49				
20	16QAM	100	0	19.55	19.65	19.52				
20	16QAM	100	24	19.37	19.67	19.56				
20	256QAM	1	49	17.29	17.56	17.42			19	5
20	256QAM	1	99	17.42	17.59	17.52				
20	256QAM	50	0	17.33	17.65	17.45				
20	256QAM	50	24	17.41	17.61	17.51				
20	256QAM	50	50	17.52	17.64	17.43			19	5
20	256QAM	100	0	17.36	17.64	17.55				
15	QPSK	1	0	22.02	22.09	22.16			24	0
15	QPSK	1	99	22.02	22.09	22.16				
15	QPSK	36	0	21.85	21.85	21.84			23	1
15	QPSK	36	36	21.51	21.59	21.52				
15	QPSK	36	72	21.44	21.50	21.52				
15	16QAM	1	37	21.64	21.66	21.43			23	1
15	16QAM	1	72	21.66	21.66	21.54				
15	16QAM	36	0	20.45	20.64	20.28				
15	16QAM	36	36	20.35	20.45	20.35				
15	16QAM	36	72	20.35	20.45	20.35				
15	16QAM	75	0	20.41	20.62	20.43				
15	16QAM	75	36	20.37	20.57	20.28			22	2
15	16QAM	75	72	20.37	20.57	20.28				
15	16QAM	1	74	20.02	20.05	20.05				
15	16QAM	36	0	19.34	19.67	19.70			21	3
15	16QAM	36	36	19.37	19.48	19.47				
15	16QAM	36	72	19.51	19.55	19.31				
15	16QAM	75	0	19.41	19.52	19.34				
15	16QAM	75	36	17.35	17.58	17.29			19	5
15	256QAM	1	37	17.19	17.43	17.28				
15	256QAM	1	74	17.34	17.59	17.42				
15	256QAM	36	0	17.32	17.62	17.34				
15	256QAM	36	36	17.32	17.60	17.42				
15	256QAM	36	72	17.51	17.48	17.38			19	5
15	256QAM	75	0	17.50	17.64	17.48				
10	QPSK	1	0	22.41	22.48	22.55			24	0
10	QPSK	1	99	22.41	22.48	22.55				
10	QPSK	25	0	21.56	21.60	21.47			23	1
10	QPSK	25	24	21.42	21.46	21.46				
10	16QAM	1	0	21.42	21.62	21.34			23	1
10	16QAM	1	25	21.61	21.72	21.47				
10	16QAM	25	0	20.35	20.44	20.26				
10	16QAM	25	12	20.54	20.45	20.49			22	2
10	16QAM	25	24	20.51	20.50	20.49				
10	16QAM	50	0	20.38	20.49	20.61				
10	16QAM	50	24	20.19	20.36	20.31			22	2
10	16QAM	50	50	20.54	20.54	20.54				
10	16QAM	100	0	20.67	20.49	20.62				
10	16QAM	100	24	19.34	19.63	19.53			21	3
10	16QAM	100	50	19.45	19.47	19.46				
10	16QAM	100	99	19.51	19.61	19.31				
10	256QAM	1	37	17.19	17.46	17.36			19	5
10	256QAM	1	74	17.37	17.66	17.36				
10	256QAM	25	0	17.32	17.62	17.34				
10	256QAM	25	12	17.19	17.59	17.28				
10	256QAM	25	24	17.48	17.46	17.41			19	5
10	256QAM	50	0	17.50	17.64	17.48				
5	QPSK	1	0	22.41	22.48	22.55			24	0
5	QPSK	1	14	22.37	22.43	22.41				
5	QPSK	8	0	21.56	21.61	21.48			23	1
5	QPSK	8	7	21.41	21.66	21.48				
5	16QAM	1	0	21.42	21.62	21.34			23	1
5	16QAM	1	25	21.61	21.72	21.47				
5	16QAM	25	0	20.35	20.44	20.26				
5	16QAM	25	12	20.54	20.45	20.49			22	2
5	16QAM	25	24	20.51	20.50	20.49				
5	16QAM	50	0	20.38	20.49	20.61				
5	16QAM	50	24	20.19	20.36	20.31			22	2
5	16QAM	50	50	20.54	20.54	20.54				
5	16QAM	100	0	20.67	20.49	20.62				
5	16QAM	100	24	19.34	19.63	19.53			21	3
5	16QAM	100	50	19.45	19.47	19.46				
5	16QAM	100	99	19.51	19.61	19.31				
5	256QAM	1	37	17.19	17.46	17.36			19	5
5	256QAM	1	74	17.37	17.66	17.36				
5	256QAM	25	0	17.32	17.62	17.34				
5	256QAM	25	12	17.19	17.59	17.28				
5	256QAM	25	24	17.48	17.46	17.41			19	5
5	256QAM	50	0	17.50	17.64	17.48				
3	QPSK	1	0	22.41	22.48	22.55			24	0
3	QPSK	1	14	22.34	22.53	22.42				
3	QPSK	8	0	21.51	21.61	21.31			23	1
3	QPSK	8	7	21.35	21.48	21.42				
3	16QAM	1	0	21.55	21.67	21.41			23	1
3	16QAM	1	8	21.63	21.70	21.47				
3	16QAM	8	0	20.35	20.52	20.35				
3	16QAM	8	4	20.49	20.43	20.41			22	2
3	16QAM	8	8	20.53	20.44	20.57				
3	16QAM	16	0	20.45	20.50	20.46				
3	16QAM	16	4	20.34	20.56	20.30			22	2
3	16QAM	16	8	20.38	20.60	20.41				
3	16QAM	32	0	20.61	20.61	20.63				
3	16QAM	32	4	19.47	19.49	19.30			21	3
3	16QAM	32	8	19.38	19.46	19.30				
3	16QAM	64	0	19.53	19.53	19.32				
3	16QAM	64	4	19.43	19.47	19.27				
3	256QAM	1	8	17.37	17.50	17.29			19	5
3	256QAM	1	16	17.37	17.42	17.37				
3	256QAM	8	0	17.32	17.62	17.34				
3	256QAM	8	4	17.27	17.63	17.35				
3	256QAM	8	8	17.43	17.59	17.29			19	5
3	256QAM	16	0	17.43	17.64	17.37				
3	256QAM	16	4	17.53	17.61	17.53				
1.4	QPSK	1	0	22.47	22.51	22.58			24	0
1.4	QPSK	1	3	22.35	22.67	22.40				
1.4	QPSK	3	0	22.25	22.55	22.37			24	0
1.4	QPSK	3	14	22.44	22.58	22.42				
1.4	QPSK	3	1	22.43	22.65	22.53				
1.4	QPSK	3	15	22.45	22.65	22.53			23	1
1.4	16QAM	1	0	21.57	21.59	21.56			23	1
1.4	16QAM	1	31	21.65	21.65	21.51				



Band 66 Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power High Ch. Freq.	Power Max Ch. Freq.	Turn-off time (sec)	APR (dB)		
Channel										
				1700	1768	1770				
20	QPSK	1	0	22.92	22.41	22.52				
20	QPSK	1	48	22.94	22.37	22.38	24	0		
20	QPSK	1	96	22.31	22.32	22.35				
20	QPSK	50	0	21.19	21.40	21.37				
20	QPSK	50	24	21.23	21.33	21.23	23	1		
20	QPSK	50	50	21.27	21.38	21.32				
20	QPSK	100	0	21.17	21.37	21.31				
20	16QAM	1	0	21.35	21.43	21.43				
20	16QAM	1	48	21.39	21.48	21.39	23	1		
20	16QAM	1	96	21.21	21.39	21.19				
20	16QAM	50	0	20.24	20.38	20.18				
20	16QAM	50	24	20.37	20.37	20.37	22	2		
20	16QAM	50	50	20.33	20.34	20.25				
20	16QAM	100	0	20.25	20.36	20.21				
20	64QAM	1	0	20.34	20.37	20.27				
20	64QAM	1	48	20.35	20.39	20.33	22	2		
20	64QAM	1	96	20.10	20.32	20.20				
20	64QAM	50	0	19.38	19.40	19.22				
20	64QAM	50	24	19.49	19.39	19.17	21	3		
20	64QAM	50	50	19.17	19.27	19.38				
20	64QAM	100	0	19.15	19.35	19.22				
20	256QAM	1	0	17.06	17.29	17.09				
20	256QAM	1	48	17.13	17.20	17.15	19	5		
20	256QAM	1	96	17.09	17.21	17.16				
20	256QAM	50	0	17.25	17.38	17.25				
20	256QAM	50	24	17.31	17.38	17.19	19	5		
20	256QAM	50	50	17.25	17.35	17.21				
20	256QAM	100	0	17.20	17.35	17.20				
Channel										
				13047	13522	13597				
				1777.5	1745	1772.5				
15	QPSK	1	0	22.26	22.32	22.13				
15	QPSK	1	37	22.18	22.37	22.27	24	0		
15	QPSK	1	74	22.18	22.21	22.14				
15	QPSK	36	0	21.04	21.33	21.32				
15	QPSK	36	20	21.04	21.22	21.09	23	1		
15	QPSK	36	39	21.20	21.17	21.22				
15	QPSK	75	0	21.00	21.29	21.18				
15	16QAM	1	0	21.29	21.40	21.44				
15	16QAM	1	37	21.19	21.40	21.18	23	1		
15	16QAM	1	74	21.09	21.39	21.32				
15	16QAM	36	0	20.03	20.20	20.15				
15	16QAM	36	20	20.21	20.26	20.24	22	2		
15	16QAM	36	39	20.18	20.24	20.25				
15	16QAM	75	0	20.07	20.27	20.17				
15	64QAM	1	0	20.14	20.23	20.13	22	2		
15	64QAM	1	37	20.32	20.34	20.20				
15	64QAM	1	74	20.11	20.13	20.04				
15	64QAM	36	0	19.34	19.28	19.08				
15	64QAM	36	20	19.36	19.21	19.27	21	3		
15	64QAM	36	39	19.13	19.32	19.17				
15	64QAM	75	0	19.15	19.28	19.19				
15	256QAM	1	0	17.00	17.10	17.01				
15	256QAM	1	37	17.38	17.10	17.10	19	5		
15	256QAM	1	74	17.31	17.10	17.09				
15	256QAM	36	0	17.20	17.30	17.27				
15	256QAM	36	20	17.11	17.20	17.07	19	5		
15	256QAM	36	39	17.22	17.16	17.22				
15	256QAM	75	0	17.11	17.33	17.18				
Channel										
				13092	13522	13697				
				1775	1745	1775				
10	QPSK	1	0	22.26	22.16	22.28				
10	QPSK	1	25	22.08	22.24	22.18	24	0		
10	QPSK	1	49	22.27	22.32	22.31				
10	QPSK	25	0	21.16	21.37	21.34				
10	QPSK	25	12	21.05	21.25	21.05	23	1		
10	QPSK	25	25	21.24	21.23	21.12				
10	QPSK	50	0	21.07	21.30	21.18				
10	16QAM	1	0	21.25	21.22	21.20				
10	16QAM	1	26	21.40	21.24	21.14	23	1		
10	16QAM	1	49	21.00	21.26	21.07				
10	16QAM	25	0	20.07	20.31	20.15				
10	16QAM	25	12	20.25	20.27	20.27	22	2		
10	16QAM	25	25	20.30	20.28	20.11				
10	16QAM	50	0	20.20	20.31	20.20				
10	64QAM	1	0	20.26	20.17	20.16	22	2		
10	64QAM	1	25	20.30	20.10	20.17				
10	64QAM	1	49	20.19	20.22	20.10				
10	64QAM	25	0	19.36	19.20	19.24				
10	64QAM	25	12	19.32	19.27	19.13	21	3		
10	64QAM	25	25	19.00	19.34	19.39				
10	64QAM	50	0	18.08	19.13	19.11				
10	256QAM	1	0	17.05	17.10	17.05				
10	256QAM	1	26	17.11	17.28	17.16	19	5		
10	256QAM	1	49	17.01	17.21	17.15				
10	256QAM	25	0	17.22	17.20	17.28				
10	256QAM	25	12	17.24	17.23	17.17	19	5		
10	256QAM	25	25	17.26	17.13	16.99				
10	256QAM	50	0	17.14	17.27	17.27				
Channel										
				13197	13522	13697				
				1775.5	1745	1775.5				
5	QPSK	1	0	22.31	22.31	22.31				
5	QPSK	1	12	22.11	22.30	22.33	24	0		
5	QPSK	1	24	22.17	22.32	22.27				
5	QPSK	12	0	21.36	21.26	21.21				
5	QPSK	12	7	21.21	21.22	21.22	23	1		
5	QPSK	12	13	21.09	21.32	21.18				
5	QPSK	25	0	21.36	21.27	21.18				
5	16QAM	1	0	21.25	21.35	21.21				
5	16QAM	1	12	21.38	21.32	21.14	23	1		
5	16QAM	1	24	21.11	21.21	21.28				
5	16QAM	12	0	20.04	20.39	20.17				
5	16QAM	12	7	20.34	20.26	20.16	22	2		
5	16QAM	12	13	20.17	20.23	20.19				
5	16QAM	25	0	20.19	20.33	20.22				
5	64QAM	1	0	20.30	20.23	20.11	22	2		
5	64QAM	1	12	20.31	20.20	20.28				
5	64QAM	1	24	20.20	20.09	20.10				
5	64QAM	12	0	19.37	19.42	19.11				
5	64QAM	12	7	19.33	19.29	19.13	21	3		
5	64QAM	12	13	19.17	19.38	19.38				
5	64QAM	25	0	19.04	19.36	19.22				
5	256QAM	1	0	17.04	17.36	17.28				
5	256QAM	1	12	17.09	17.09	17.12	19	5		
5	256QAM	1	24	17.30	17.12	17.16				
5	256QAM	12	0	17.14	17.17	17.04				
5	256QAM	12	7	17.19	17.31	17.14	19	5		
5	256QAM	12	13	17.25	17.14	17.06				
5	256QAM	25	0	17.11	17.19	17.09				
Channel										
				13197	13522	13697				
				1776	1745	1776				
3	QPSK	1	0	22.15	22.23	22.23				
3	QPSK	1	8	22.21	22.23	22.26	24	0		
3	QPSK	1	14	22.24	22.33	22.32				
3	QPSK	8	0	21.13	21.32	21.29				
3	QPSK	8	4	21.13	21.24	21.04	23	1		
3	QPSK	8	7	21.10	21.17	21.27				
3	QPSK	15	0	21.01	21.31	21.14				
3	16QAM	1	0	21.32	21.22	21.30				
3	16QAM	1	8	21.23	21.37	21.18	23	1		

Band 38 Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	23.14	23.17	23.11	24.5	0	
20	QPSK	1	49	23.11	23.08	22.93			
20	QPSK	1	99	23.07	23.01	22.93			
20	QPSK	50	0	22.05	22.08	21.99	23.5	1	
20	QPSK	50	24	21.89	21.98	21.99			
20	QPSK	50	50	21.97	21.97	22.01			
20	QPSK	100	0	22.01	22.09	21.96	23.5	1	
20	16QAM	1	0	22.02	22.06	22.11			
20	16QAM	1	49	21.92	22.07	22.12			
20	16QAM	1	99	22.04	22.05	22.04	22.5	2	
20	16QAM	50	0	20.88	20.98	21.07			
20	16QAM	50	24	21.04	20.86	20.99			
20	16QAM	50	50	20.91	21.03	20.86	22.5	2	
20	16QAM	100	0	21.05	20.86	20.89			
20	64QAM	1	0	21.02	20.98	21.01			
20	64QAM	1	49	21.08	20.91	20.94	22.5	2	
20	64QAM	1	99	20.91	20.97	20.96			
20	64QAM	50	0	20.03	19.89	20.04			
20	64QAM	50	24	19.99	19.95	19.91	21.5	3	
20	64QAM	50	50	20.04	19.99	19.97			
20	64QAM	100	0	20.06	20.04	20.10			
20	256QAM	1	0	17.85	17.87	17.85	19.5	5	
20	256QAM	1	49	17.94	17.92	17.87			
20	256QAM	1	99	17.78	17.96	17.93			
20	256QAM	50	0	17.85	17.77	17.83	19.5	5	
20	256QAM	50	24	17.83	17.97	17.85			
20	256QAM	50	50	17.77	17.76	17.81			
20	256QAM	100	0	17.79	17.86	17.94			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	22.98	23.12	23.16	24.5	0	
15	QPSK	1	37	23.06	22.92	22.88			
15	QPSK	1	74	22.93	22.93	22.95			
15	QPSK	36	0	22.05	22.14	21.83	23.5	1	
15	QPSK	36	20	21.81	21.92	21.92			
15	QPSK	36	39	21.81	21.84	22.01			
15	QPSK	75	0	21.95	21.99	21.97	23.5	1	
15	16QAM	1	0	22.04	22.10	22.00			
15	16QAM	1	37	21.96	22.09	22.16			
15	16QAM	1	74	22.02	22.08	22.04	22.5	2	
15	16QAM	36	0	20.71	21.02	20.96			
15	16QAM	36	20	20.89	20.76	20.90			
15	16QAM	36	39	20.92	20.91	20.77	22.5	2	
15	16QAM	75	0	21.11	20.76	20.90			
15	64QAM	1	0	20.95	20.84	20.87			
15	64QAM	1	37	21.10	20.89	20.89	22.5	2	
15	64QAM	1	74	20.81	21.02	20.93			
15	64QAM	36	0	20.07	19.94	19.97			
15	64QAM	36	20	19.88	19.81	19.83	21.5	3	
15	64QAM	36	39	20.09	19.98	19.94			
15	64QAM	75	0	20.09	20.09	20.14			
15	256QAM	1	0	17.73	17.80	17.74	19.5	5	
15	256QAM	1	37	17.98	17.69	17.79			
15	256QAM	1	74	17.83	17.97	17.97			
15	256QAM	36	0	17.73	17.81	17.72	19.5	5	
15	256QAM	36	20	17.71	17.84	17.74			
15	256QAM	36	39	17.83	17.65	17.90			
15	256QAM	75	0	17.73	17.81	17.99			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	23.11	23.14	23.13	24.5	0	
10	QPSK	1	25	23.10	23.06	22.81			
10	QPSK	1	49	23.13	22.92	22.86			
10	QPSK	25	0	21.95	21.95	21.89	23.5	1	
10	QPSK	25	12	21.85	21.91	21.92			
10	QPSK	25	25	21.98	21.85	21.98			
10	QPSK	50	0	22.03	22.00	21.90	23.5	1	
10	16QAM	1	0	22.08	21.91	22.03			
10	16QAM	1	25	21.93	22.11	22.02			
10	16QAM	1	49	21.91	22.05	21.88	22.5	2	
10	16QAM	25	0	20.84	20.98	21.11			
10	16QAM	25	12	21.05	20.72	20.89			
10	16QAM	25	25	20.79	20.96	20.92	22.5	2	
10	16QAM	50	0	21.11	20.92	20.95			
10	64QAM	1	0	20.95	20.88	20.96			
10	64QAM	1	25	20.94	20.78	20.84	22.5	2	
10	64QAM	1	49	20.93	20.98	20.87			
10	64QAM	25	0	19.88	19.85	20.08			
10	64QAM	25	12	19.98	19.86	19.85	21.5	3	
10	64QAM	25	25	19.96	20.00	19.91			
10	64QAM	50	0	20.01	19.98	20.14			
10	256QAM	1	0	17.90	17.88	17.91	19.5	5	
10	256QAM	1	25	17.94	17.69	17.74			
10	256QAM	1	49	17.83	17.84	17.84			
10	256QAM	25	0	17.80	17.83	17.69	19.5	5	
10	256QAM	25	12	17.86	17.89	17.70			
10	256QAM	25	25	17.70	17.71	17.95			
10	256QAM	50	0	17.76	17.86	18.01			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	23.05	23.13	22.99	24.5	0	
5	QPSK	1	12	23.00	22.97	22.94			
5	QPSK	1	24	23.00	22.88	22.77			
5	QPSK	12	0	22.08	22.12	21.98	23.5	1	
5	QPSK	12	7	21.88	21.88	21.95			
5	QPSK	12	13	21.87	22.01	21.93			
5	QPSK	25	0	21.97	22.06	22.01	23.5	1	
5	16QAM	1	0	21.99	22.00	21.99			
5	16QAM	1	12	21.77	21.94	22.05			
5	16QAM	1	24	22.01	21.91	21.98	22.5	2	
5	16QAM	12	0	20.74	20.92	20.91			
5	16QAM	12	7	21.07	20.78	21.01			
5	16QAM	12	13	20.75	20.97	20.77	22.5	2	
5	16QAM	25	0	21.03	20.72	20.74			
5	64QAM	1	0	20.99	20.96	21.00			
5	64QAM	1	12	21.08	20.86	20.83	22.5	2	
5	64QAM	1	24	20.81	20.83	20.98			
5	64QAM	12	0	20.06	19.83	20.09			
5	64QAM	12	7	19.88	20.01	19.76	21.5	3	
5	64QAM	12	13	20.04	20.04	19.84			
5	64QAM	25	0	19.98	19.93	20.12			
5	256QAM	1	0	17.75	17.73	17.72	19.5	5	
5	256QAM	1	12	17.90	17.88	17.83			
5	256QAM	1	24	17.83	17.97	17.98			
5	256QAM	12	0	17.91	17.71	17.73	19.5	5	
5	256QAM	12	7	17.69	17.96	17.91			
5	256QAM	12	13	17.84	17.75	17.88			
5	256QAM	25	0	17.70	17.73	17.86			

Band 41 Ant 4										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.91	23.06	23.19	23.12	23.10	24.5	0
20	QPSK	1	49	22.98	23.12	23.06	23.14	22.97		
20	QPSK	1	99	22.97	23.03	22.97	22.90	22.88		
20	QPSK	50	0	21.87	21.99	22.15	22.03	21.99	23.5	1
20	QPSK	50	24	21.86	21.91	21.98	21.82	22.01		
20	QPSK	50	50	22.11	22.00	21.96	22.14	22.05		
20	QPSK	100	0	21.88	21.95	21.99	21.94	21.96	23.5	1
20	16QAM	1	0	22.10	22.02	21.99	22.12	22.05		
20	16QAM	1	49	21.99	22.06	21.96	22.00	22.11		
20	16QAM	1	99	21.94	21.92	21.97	22.04	22.00	22.5	2
20	16QAM	50	0	21.01	21.09	20.87	21.04	21.01		
20	16QAM	50	24	20.71	21.02	20.80	20.94	20.85		
20	16QAM	50	50	21.09	20.74	21.09	20.83	20.72	22.5	2
20	16QAM	100	0	20.76	20.93	20.78	20.76	20.85		
20	64QAM	1	0	20.84	20.93	20.84	21.04	20.85		
20	64QAM	1	49	20.86	20.87	20.86	20.94	20.85	22.5	2
20	64QAM	1	99	20.95	20.82	20.84	20.90	20.99		
20	64QAM	50	0	19.87	19.91	19.73	20.02	20.01		

Band 38 Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	22.55	22.78	22.71	24.5	0	
20	QPSK	1	49	22.66	22.83	22.56			
20	QPSK	1	99	22.74	22.73	22.63			
20	QPSK	50	0	21.56	21.69	21.68			
20	QPSK	50	24	21.56	21.85	21.82	23.5	1	
20	QPSK	50	50	21.51	21.88	21.54			
20	QPSK	100	0	21.60	21.76	21.72			
20	16QAM	1	0	21.67	21.55	21.56			
20	16QAM	1	49	21.54	21.59	21.57	23.5	1	
20	16QAM	1	99	21.67	21.72	21.63			
20	16QAM	50	0	20.54	20.51	20.64			
20	16QAM	50	24	20.57	20.61	20.50			
20	16QAM	50	50	20.53	20.57	20.64	22.5	2	
20	16QAM	100	0	20.51	20.71	20.64			
20	64QAM	1	0	20.62	20.69	20.71			
20	64QAM	1	49	20.59	20.65	20.71			
20	64QAM	1	99	20.67	20.57	20.72	22.5	2	
20	64QAM	50	0	19.59	19.68	19.67			
20	64QAM	50	24	19.58	19.70	19.60			
20	64QAM	50	50	19.66	19.64	19.51			
20	64QAM	100	0	19.57	19.59	19.66	21.5	3	
20	256QAM	1	0	17.81	17.52	17.55			
20	256QAM	1	49	17.53	17.67	17.52			
20	256QAM	1	99	17.63	17.81	17.57			
20	256QAM	50	0	17.67	17.65	17.57	19.5	5	
20	256QAM	50	24	17.54	17.59	17.61			
20	256QAM	50	50	17.57	17.63	17.52			
20	256QAM	100	0	17.64	17.59	17.58			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	22.60	22.74	22.73	24.5	0	
15	QPSK	1	37	22.55	22.56	22.56			
15	QPSK	1	74	22.61	22.74	22.55			
15	QPSK	36	0	21.58	21.62	21.52			
15	QPSK	36	20	21.54	21.59	21.53	23.5	1	
15	QPSK	36	39	21.57	21.62	21.57			
15	QPSK	75	0	21.66	21.63	21.58			
15	16QAM	1	0	21.63	21.54	21.68			
15	16QAM	1	37	21.54	21.66	21.67	23.5	1	
15	16QAM	1	74	21.58	21.58	21.56			
15	16QAM	36	0	20.58	20.54	20.57			
15	16QAM	36	20	20.55	20.53	20.50			
15	16QAM	36	39	20.57	20.52	20.51	22.5	2	
15	16QAM	75	0	20.67	20.67	20.65			
15	64QAM	1	0	20.55	20.59	20.77			
15	64QAM	1	37	20.53	20.59	20.61			
15	64QAM	1	74	20.61	20.57	20.69	22.5	2	
15	64QAM	36	0	19.60	19.58	19.67			
15	64QAM	36	20	19.69	19.76	19.67			
15	64QAM	36	39	19.53	19.66	19.63			
15	64QAM	75	0	19.60	19.65	19.68	21.5	3	
15	256QAM	1	0	17.52	17.52	17.51			
15	256QAM	1	37	17.57	17.73	17.55			
15	256QAM	1	74	17.58	17.52	17.62			
15	256QAM	36	0	17.70	17.51	17.56	19.5	5	
15	256QAM	36	20	17.52	17.52	17.53			
15	256QAM	36	39	17.53	17.61	17.55			
15	256QAM	75	0	17.69	17.57	17.52			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	22.53	22.62	22.74	24.5	0	
10	QPSK	1	25	22.61	22.57	22.54			
10	QPSK	1	49	22.64	22.68	22.58			
10	QPSK	25	0	21.66	21.70	21.54			
10	QPSK	25	12	21.53	21.68	21.51	23.5	1	
10	QPSK	25	25	21.58	21.54	21.52			
10	QPSK	50	0	21.65	21.72	21.62			
10	16QAM	1	0	21.63	21.58	21.60			
10	16QAM	1	25	21.60	21.57	21.63	23.5	1	
10	16QAM	1	49	21.68	21.69	21.59			
10	16QAM	25	0	20.52	20.50	20.62			
10	16QAM	25	12	20.56	20.60	20.65			
10	16QAM	25	25	20.52	20.64	20.51	22.5	2	
10	16QAM	50	0	20.52	20.76	20.60			
10	64QAM	1	0	20.52	20.62	20.74			
10	64QAM	1	25	20.53	20.51	20.56			
10	64QAM	1	49	20.62	20.66	20.68	22.5	2	
10	64QAM	25	0	19.55	19.56	19.59			
10	64QAM	25	12	19.62	19.72	19.67			
10	64QAM	25	25	19.65	19.66	19.53			
10	64QAM	50	0	19.59	19.50	19.59	21.5	3	
10	256QAM	1	0	17.51	17.54	17.59			
10	256QAM	1	25	17.54	17.71	17.55			
10	256QAM	1	49	17.62	17.60	17.50			
10	256QAM	25	0	17.60	17.52	17.58	19.5	5	
10	256QAM	25	12	17.55	17.64	17.62			
10	256QAM	25	25	17.54	17.67	17.55			
10	256QAM	50	0	17.64	17.51	17.55			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	22.55	22.67	22.63	24.5	0	
5	QPSK	1	12	22.65	22.65	22.53			
5	QPSK	1	24	22.62	22.75	22.51			
5	QPSK	12	0	21.58	21.62	21.55			
5	QPSK	12	7	21.56	21.69	21.63	23.5	1	
5	QPSK	12	13	21.51	21.74	21.58			
5	QPSK	25	0	21.56	21.68	21.62			
5	16QAM	1	0	21.73	21.65	21.68			
5	16QAM	1	12	21.56	21.71	21.72	23.5	1	
5	16QAM	1	24	21.50	21.61	21.56			
5	16QAM	12	0	20.60	20.57	20.55			
5	16QAM	12	7	20.50	20.60	20.54			
5	16QAM	12	13	20.60	20.51	20.59	22.5	2	
5	16QAM	25	0	20.57	20.60	20.54			
5	64QAM	1	0	20.61	20.61	20.63			
5	64QAM	1	12	20.54	20.55	20.75			
5	64QAM	1	24	20.60	20.56	20.77	22.5	2	
5	64QAM	12	0	19.57	19.74	19.62			
5	64QAM	12	7	19.55	19.68	19.62			
5	64QAM	12	13	19.53	19.56	19.55			
5	64QAM	25	0	19.61	19.52	19.67	21.5	3	
5	256QAM	1	0	17.58	17.62	17.50			
5	256QAM	1	12	17.52	17.64	17.56			
5	256QAM	1	24	17.63	17.53	17.57			
5	256QAM	12	0	17.52	17.56	17.55	19.5	5	
5	256QAM	12	7	17.61	17.55	17.62			
5	256QAM	12	13	17.62	17.51	17.50			
5	256QAM	25	0	17.53	17.50	17.62			

Band 41 Ant 5										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.69	22.54	22.87	22.88	22.87	24.5	0
20	QPSK	1	49	22.65	22.57	22.71	22.93	22.89		
20	QPSK	1	99	22.60	22.50	22.75	22.86	22.91		
20	QPSK	50	0	21.68	21.67	21.96	21.89	21.88		
20	QPSK	50	24	21.70	21.57	21.62	21.92	21.90	23.5	1
20	QPSK	50	50	21.66	21.51	21.68	21.85	21.73		
20	QPSK	100	0	21.67	21.69	21.96	21.93	21.96		
20	16QAM	1	0	21.67	21.75	22.03	21.86	21.82		
20	16QAM	1	49	21.70	21.69	21.96	21.84	21.80	23.5	1
20	16QAM	1	99	21.60	21.57	21.95	21.82	21.87		
20	16QAM	50	0	20.65	20.69	20.67	20.54	20.67		
20	16QAM	50	24	20.59	20.51	20.54	20.64	20.68		
20	16QAM	50	50	20.52	20.64	20.54	20.66	20.51	22.5	2
20	16QAM	100	0	20.51	20.64	20.66	20.53	20.53		
20	64QAM	1	0	20.56	20.64	20.50	20.54	20.61		
20	64QAM	1	49	20.58	20.63	20.64	20.61	20.54		
20	64QAM	1	99	20.59	20.71	20.61	20.58	20.54	22.5	2
20	64QAM	50	0	19.64	19.54	19.57	19.59	19.54		
20	64QAM	50	24	19.57	19.53	19.53	19.51	19.57		
20	64QAM	50	50	19.64	19.51	19.58	19.54	19.63		
20	64QAM	100	0	19.60	19.65	19.61	19.58	19.66	21.5	3
20	256QAM									

Band 38 Ant 7										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	23.02	23.17	23.00	24.5	0		
20	QPSK	1	49	23.10	23.11	22.95				
20	QPSK	1	99	23.02	23.13	23.10				
20	QPSK	50	0	22.00	22.06	22.05	23.5	1		
20	QPSK	50	24	21.93	22.04	21.91				
20	QPSK	50	50	22.00	22.03	21.94				
20	QPSK	100	0	22.04	22.06	22.05	23.5	1		
20	16QAM	1	0	21.96	21.95	22.10				
20	16QAM	1	49	21.95	21.97	21.92				
20	16QAM	1	99	21.97	21.93	22.07	22.5	2		
20	16QAM	50	0	20.93	21.01	20.93				
20	16QAM	50	24	20.89	20.92	20.82				
20	16QAM	50	50	20.80	20.83	20.94	22.5	2		
20	16QAM	100	0	20.99	20.83	20.92				
20	64QAM	1	0	21.00	20.84	20.86				
20	64QAM	1	49	20.98	21.02	20.90	22.5	2		
20	64QAM	1	99	20.98	20.99	20.85				
20	64QAM	50	0	20.03	20.01	19.89				
20	64QAM	50	24	19.87	20.02	19.89	21.5	3		
20	64QAM	50	50	19.92	19.95	19.96				
20	64QAM	100	0	20.01	19.85	19.94				
20	256QAM	1	0	17.83	17.88	17.71	19.5	5		
20	256QAM	1	49	17.89	17.79	17.75				
20	256QAM	1	99	17.76	17.83	17.72				
20	256QAM	50	0	17.87	17.72	17.84	19.5	5		
20	256QAM	50	24	17.71	17.80	17.81				
20	256QAM	50	50	17.71	17.75	17.87				
20	256QAM	100	0	17.73	17.83	17.76				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	22.92	22.96	22.85	24.5	0		
15	QPSK	1	37	23.07	22.97	22.74				
15	QPSK	1	74	22.81	23.00	23.06				
15	QPSK	36	0	21.79	22.08	21.92	23.5	1		
15	QPSK	36	20	21.92	21.85	21.73				
15	QPSK	36	39	21.87	21.99	21.87				
15	QPSK	75	0	22.02	22.01	22.03	23.5	1		
15	16QAM	1	0	21.90	21.74	21.92				
15	16QAM	1	37	21.82	21.95	21.83				
15	16QAM	1	74	21.95	21.79	22.08	22.5	2		
15	16QAM	36	0	20.93	20.87	20.75				
15	16QAM	36	20	20.88	20.80	20.62				
15	16QAM	36	39	20.64	20.72	20.77	22.5	2		
15	16QAM	75	0	21.00	20.77	20.92				
15	64QAM	1	0	21.01	20.72	20.78				
15	64QAM	1	37	20.83	20.89	20.71	22.5	2		
15	64QAM	1	74	20.98	20.79	20.81				
15	64QAM	36	0	19.88	19.93	19.83				
15	64QAM	36	20	19.67	19.86	19.85	21.5	3		
15	64QAM	36	39	19.71	19.85	19.78				
15	64QAM	75	0	20.00	19.67	19.90				
15	256QAM	1	0	17.84	17.75	17.64	19.5	5		
15	256QAM	1	37	17.70	17.88	17.55				
15	256QAM	1	74	17.61	17.80	17.66				
15	256QAM	36	0	17.86	17.74	17.74	19.5	5		
15	256QAM	36	20	17.70	17.76	17.75				
15	256QAM	36	39	17.62	17.62	17.78				
15	256QAM	75	0	17.52	17.66	17.70				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	22.81	23.14	23.01	24.5	0		
10	QPSK	1	25	22.95	22.96	22.87				
10	QPSK	1	49	22.92	22.91	23.04				
10	QPSK	25	0	21.83	22.00	21.93	23.5	1		
10	QPSK	25	12	21.88	22.02	21.93				
10	QPSK	25	25	21.99	21.98	21.90				
10	QPSK	50	0	21.97	21.89	21.85	23.5	1		
10	16QAM	1	0	21.97	21.82	21.97				
10	16QAM	1	25	21.79	21.90	21.84				
10	16QAM	1	49	21.96	21.83	22.06	22.5	2		
10	16QAM	25	0	20.85	20.92	20.84				
10	16QAM	25	12	20.71	20.77	20.70				
10	16QAM	25	25	20.60	20.62	20.85	22.5	2		
10	16QAM	50	0	20.85	20.69	20.92				
10	64QAM	1	0	20.99	20.65	20.82				
10	64QAM	1	25	20.76	21.03	20.75	22.5	2		
10	64QAM	1	49	20.95	20.82	20.65				
10	64QAM	25	0	19.95	20.02	19.80				
10	64QAM	25	12	19.77	19.93	19.77	21.5	3		
10	64QAM	25	25	19.81	19.88	19.74				
10	64QAM	50	0	19.88	19.66	19.73				
10	256QAM	1	0	17.77	17.75	17.61	19.5	5		
10	256QAM	1	25	17.90	17.70	17.76				
10	256QAM	1	49	17.59	17.69	17.64				
10	256QAM	25	0	17.67	17.69	17.84	19.5	5		
10	256QAM	25	12	17.66	17.67	17.65				
10	256QAM	25	25	17.71	17.69	17.73				
10	256QAM	50	0	17.60	17.65	17.73				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	22.81	23.13	22.98	24.5	0		
5	QPSK	1	12	23.01	23.11	22.92				
5	QPSK	1	24	22.92	23.07	23.11				
5	QPSK	12	0	21.92	21.99	21.93	23.5	1		
5	QPSK	12	7	21.75	21.89	21.73				
5	QPSK	12	13	22.00	21.88	21.89				
5	QPSK	25	0	21.87	21.85	21.88	23.5	1		
5	16QAM	1	0	21.76	21.77	22.08				
5	16QAM	1	12	21.88	21.93	21.75				
5	16QAM	1	24	21.93	21.81	22.00	22.5	2		
5	16QAM	12	0	20.88	21.03	20.89				
5	16QAM	12	7	20.72	20.80	20.80				
5	16QAM	12	13	20.73	20.89	20.86	22.5	2		
5	16QAM	25	0	20.85	20.85	20.70				
5	64QAM	1	0	20.88	20.64	20.70				
5	64QAM	1	12	20.97	20.80	20.85	22.5	2		
5	64QAM	1	24	20.97	20.78	20.64				
5	64QAM	12	0	19.93	19.99	19.77				
5	64QAM	12	7	19.84	19.90	19.85	21.5	3		
5	64QAM	12	13	19.70	19.96	19.98				
5	64QAM	25	0	20.01	19.80	19.80				
5	256QAM	1	0	17.77	17.84	17.72	19.5	5		
5	256QAM	1	12	17.73	17.79	17.54				
5	256QAM	1	24	17.69	17.73	17.68				
5	256QAM	12	0	17.87	17.68	17.74	19.5	5		
5	256QAM	12	7	17.62	17.72	17.62				
5	256QAM	12	13	17.50	17.66	17.86				
5	256QAM	25	0	17.72	17.80	17.64				

Band 41 Ant 7												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	23.09	23.14	23.19	23.11	23.12	24.5	0		
20	QPSK	1	49	23.09	23.14	23.08	23.11	23.12				
20	QPSK	1	99	23.09	23.14	23.02	23.11	23.12				
20	QPSK	50	0	21.97	21.98	22.06	22.02	22.05	23.5	1		
20	QPSK	50	24	21.97	21.98	22.00	22.02	22.05				
20	QPSK	50	50	21.97	21.98	22.03	22.02	22.05				
20	QPSK	100	0	22.04	21.98	22.08	22.06	22.04	23.5	1		
20	16QAM	1	0	21.82	21.76	21.92	21.81	21.78				
20	16QAM	1	49	21.84	21.77	21.77	21.95	21.90				
20	16QAM	1	99	21.84	21.88	21.92	21.80	21.79	22.5	2		
20	16QAM	50	0	20.87	20.89	20.92	20.76	20.84				
20	16QAM	50	24	20.82								

n2 Ant 4									
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				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	22.79	22.93	22.80			
20	PI/2 BPSK	1	53	22.89	23.03	22.91	24.0	0.0	
20	PI/2 BPSK	1	104	23.01	23.00	22.88			
20	PI/2 BPSK	50	0	22.41	22.61	22.42	23.5	0.5	
20	PI/2 BPSK	50	28	22.94	23.08	23.06	24.0	0.0	
20	PI/2 BPSK	50	56	22.44	22.58	22.36	23.5	0.5	
20	PI/2 BPSK	100	0	22.38	22.59	22.52			
20	QPSK	1	1	22.84	23.06	22.97			
20	QPSK	1	53	23.00	23.00	22.84	24.0	0.0	
20	QPSK	1	104	22.89	22.98	22.79			
20	QPSK	50	0	21.93	22.10	22.05	23.0	1.0	
20	QPSK	50	28	23.05	23.06	23.03	24.0	0.0	
20	QPSK	50	56	22.04	22.05	21.98	23.0	1.0	
20	QPSK	100	0	22.04	22.08	21.99			
20	16QAM	1	1	21.86	21.89	21.61	23.0	1.0	
20	64QAM	1	1	20.25	20.27	20.17	21.5	2.5	
20	256QAM	1	1	18.77	18.85	18.76	19.5	4.5	
Channel				371000	373000	375000			
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	22.82	22.92	22.82	24.0	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1853	1880	1903			
10	QPSK	1	1	22.84	22.88	22.86	24.0	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	22.89	23.04	22.91	24.0	0.0	

Full & Default Power Mode									
n5 Ant 4									
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				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI/2 BPSK	1	1	22.96	23.01	22.93			
20	PI/2 BPSK	1	53	23.01	23.10	23.09	24.0	0.0	
20	PI/2 BPSK	1	104	22.92	22.95	22.89			
20	PI/2 BPSK	50	0	22.80	22.86	22.56	23.5	0.5	
20	PI/2 BPSK	50	28	23.10	23.11	23.01	24.0	0.0	
20	PI/2 BPSK	50	56	22.43	22.56	22.46	23.5	0.5	
20	PI/2 BPSK	100	0	22.48	22.62	22.41			
20	QPSK	1	1	22.90	23.15	22.94			
20	QPSK	1	53	22.93	23.07	23.05	24.0	0.0	
20	QPSK	1	104	22.73	22.94	22.87			
20	QPSK	50	0	22.07	22.19	22.10	23.0	1.0	
20	QPSK	50	28	23.04	23.10	23.07	24.0	0.0	
20	QPSK	50	56	22.02	22.09	22.03	23.0	1.0	
20	QPSK	100	0	22.03	22.13	22.13			
20	16QAM	1	1	21.62	21.77	21.76	23.0	1.0	
20	64QAM	1	1	20.42	20.44	20.33	21.5	2.5	
20	256QAM	1	1	19.08	19.12	18.84	19.5	4.5	
Channel				163300	163800	164300			
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.82	22.91	22.82	24.0	0.0	
Channel				165800	167300	168800			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.77	23.01	22.89	24.0	0.0	
Channel				163300	167300	169300			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	22.77	22.84	22.91	24.0	0.0	

n7 Ant 4									
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				502000	507000	512000			
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	22.82	22.80	22.80			
20	PI/2 BPSK	1	53	22.74	22.89	22.87	24.0	0.0	
20	PI/2 BPSK	1	104	22.62	22.80	22.71			
20	PI/2 BPSK	50	0	22.30	22.37	22.20	23.5	0.5	
20	PI/2 BPSK	50	28	22.84	22.91	22.92	24.0	0.0	
20	PI/2 BPSK	50	56	22.41	22.40	22.28	23.5	0.5	
20	PI/2 BPSK	100	0	22.23	22.38	22.19			
20	QPSK	1	1	22.77	22.97	22.88			
20	QPSK	1	53	22.81	22.83	22.74	24.0	0.0	
20	QPSK	1	104	22.62	22.75	22.70			
20	QPSK	50	0	21.77	21.85	21.82	23.0	1.0	
20	QPSK	50	28	22.78	22.85	22.75	24.0	0.0	
20	QPSK	50	56	21.72	21.88	21.81	23.0	1.0	
20	QPSK	100	0	21.84	21.86	21.80			
20	16QAM	1	1	21.48	21.49	21.38	23.0	1.0	
20	64QAM	1	1	20.04	20.05	19.86	21.5	2.5	
20	256QAM	1	1	18.54	18.64	18.59	19.5	4.5	
Channel				501500	507000	513000			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	22.62	22.84	22.69	24.0	0.0	
Channel				501000	507000	513000			
Frequency (MHz)				2503	2535	2563			
10	QPSK	1	1	22.72	22.88	22.60	24.0	0.0	
Channel				500500	507000	513000			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	22.62	22.76	22.66	24.0	0.0	



n26 Ant 4									
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				164800	166300	167800			
Frequency (MHz)				824	831.5	839			
20	PI/2 BPSK	1	1	22.89	22.99	22.90			
20	PI/2 BPSK	1	53	22.93	23.06	22.98	24.0	0.0	
20	PI/2 BPSK	1	104	22.99	22.99	22.95			
20	PI/2 BPSK	50	0	22.65	22.64	22.51	23.5	0.5	
20	PI/2 BPSK	50	28	23.12	23.10	22.94	24.0	0.0	
20	PI/2 BPSK	50	56	22.52	22.63	22.58	23.5	0.5	
20	PI/2 BPSK	100	0	22.57	22.64	22.54			
20	QPSK	1	1	23.00	23.17	23.13			
20	QPSK	1	53	22.98	23.04	22.91	24.0	0.0	
20	QPSK	1	104	22.85	22.98	22.81			
20	QPSK	50	0	21.96	22.15	22.11	23.0	1.0	
20	QPSK	50	28	22.99	23.16	23.07	24.0	0.0	
20	QPSK	50	56	22.13	22.13	22.10	23.0	1.0	
20	QPSK	100	0	22.10	22.14	22.07			
20	16QAM	1	1	21.62	21.74	21.76	23.0	1.0	
20	64QAM	1	1	20.20	20.41	20.23	21.5	2.5	
20	256QAM	1	1	18.35	18.36	18.27	19.5	4.5	
Channel				163200	165000	163000			
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.99	23.11	22.81	24.0	0.0	
Channel				163800	166300	168800			
Frequency (MHz)				813	831.5	849			
10	QPSK	1	1	22.88	23.06	22.90	24.0	0.0	
Channel				163300	166300	169300			
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.82	23.03	22.98	24.0	0.0	

n66 Ant 4									
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				345000	345000	353000			
Frequency (MHz)				1725	1745	1765			
30	PI/2 BPSK	1	1	22.74	22.93	22.73			
30	PI/2 BPSK	1	80	22.91	23.01	22.80	24.0	0.0	
30	PI/2 BPSK	1	158	22.99	22.94	22.74			
30	PI/2 BPSK	80	0	22.35	22.57	22.42	23.5	0.5	
30	PI/2 BPSK	80	40	22.95	23.03	22.99	24.0	0.0	
30	PI/2 BPSK	80	80	22.45	22.57	22.39	23.5	0.5	
30	PI/2 BPSK	160	0	22.54	22.60	22.50			
30	QPSK	1	1	22.94	23.07	22.93			
30	QPSK	1	80	22.89	22.98	22.91	24.0	0.0	
30	QPSK	1	158	22.80	22.89	22.71			
30	QPSK	80	0	22.00	22.07	21.93	23.0	1.0	
30	QPSK	80	40	22.83	23.05	23.03	24.0	0.0	
30	QPSK	80	80	22.44	22.59	22.57	23.0	1.0	
30	QPSK	160	0	21.99	22.05	21.94			
30	16QAM	1	1	21.55	21.71	21.69	23.0	1.0	
30	64QAM	1	1	20.24	20.29	20.24	21.5	2.5	
30	256QAM	1	1	18.63	18.90	18.86	19.5	4.5	
Channel				344000	345000	344000			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	22.84	22.86	22.68	24.0	0.0	
Channel				343500	345000	354500			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	22.71	22.95	22.85	24.0	0.0	
Channel				343000	345000	355000			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.67	22.88	22.77	24.0	0.0	
Channel				342500	345000	355500			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.69	23.04	22.82	24.0	0.0	

n71 Ant 4									
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				134600	136100	137600			
Frequency (MHz)				673	680.5	688			
20	PI/2 BPSK	1	1	22.29	22.29	22.21			
20	PI/2 BPSK	1	53	22.01	22.23	22.25	24.0	0.0	
20	PI/2 BPSK	1	104	22.21	22.15	22.07			
20	PI/2 BPSK	50	0	21.73	21.90	21.73	23.5	0.5	
20	PI/2 BPSK	50	28	22.18	22.39	22.21	24.0	0.0	
20	PI/2 BPSK	50	56	21.71	21.82	21.70	23.5	0.5	
20	PI/2 BPSK	100	0	21.71	21.90	21.78			
20	QPSK	1	1	22.37	22.52	22.48			
20	QPSK	1	53	22.17	22.23	22.10	24.0	0.0	
20	QPSK	1	104	22.28	22.17	22.09			
20	QPSK	50	0	21.40	21.44	21.39	23.0	1.0	
20	QPSK	50	28	22.24	22.42	22.34	24.0	0.0	
20	QPSK	50	56	21.19	21.37	21.30	23.0	1.0	
20	QPSK	100	0	21.25	21.42	21.40			
20	16QAM	1	1	21.14	21.09	21.11	23.0	1.0	
20	64QAM	1	1	19.61	19.71	19.65	21.5	2.5	
20	256QAM	1	1	18.39	18.40	18.18	19.5	4.5	
Channel				134100	135100	133100			
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	22.39	22.48	22.10	24.0	0.0	
Channel				133600	136100	138600			
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	22.19	22.35	22.19	24.0	0.0	
Channel				133100	136100	139100			
Frequency (MHz)				665.5	680.5	695.5			
5	QPSK	1	1	22.19	22.41	22.13	24.0	0.0	



n38 Ant 4

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				518000	519000	520000		
Frequency (MHz)				2590	2595	2600		
40	PI2 BPSK	1	1	23.25	23.36	23.38	24.5	0.0
40	PI2 BPSK	1	53	23.32	23.50	23.48		
40	PI2 BPSK	1	104	23.45	23.47	23.37		
40	PI2 BPSK	50	0	22.87	22.95	22.81	24.0	0.5
40	PI2 BPSK	50	28	23.40	23.52	23.39	24.5	0.0
40	PI2 BPSK	50	56	22.93	22.99	22.90		
40	PI2 BPSK	100	0	22.81	22.97	22.77	24.0	0.5
40	QPSK	1	1	23.44	23.55	23.43		
40	QPSK	1	53	23.47	23.47	23.40	24.5	0.0
40	QPSK	1	104	23.43	23.42	23.35		
40	QPSK	50	0	22.43	22.46	22.37	23.5	1.0
40	QPSK	50	28	23.31	23.49	23.38	24.5	0.0
40	QPSK	50	56	22.36	22.50	22.31	23.5	1.0
40	QPSK	100	0	22.40	22.44	22.41		
40	16QAM	1	1	21.90	22.10	22.03	23.5	1.0
40	64QAM	1	1	20.53	20.65	20.67	22.0	2.5
40	256QAM	1	1	19.06	19.27	19.21	20.0	4.5
Channel				517000	518000	521000		
Frequency (MHz)				2685	2695	2695		
30	QPSK	1	1	23.26	23.50	23.29	24.5	0.0
Channel				518000	519000	522000		
Frequency (MHz)				2690	2695	2690		
20	QPSK	1	1	23.93	23.41	23.35	24.5	0.0

n41 Ant 4

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				509002	518998	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	23.01	23.06	23.04	24.5	0.0
100	PI2 BPSK	1	137	22.98	23.08	22.00		
100	PI2 BPSK	1	271	22.98	23.05	23.04		
100	PI2 BPSK	135	0	23.00	23.07	23.09	24.5	0.0
100	PI2 BPSK	135	69	23.14	23.21	23.12	24.5	0.0
100	PI2 BPSK	135	138	23.16	23.26	23.22		
100	PI2 BPSK	270	0	22.92	23.11	23.11	24.5	0.0
100	QPSK	1	1	22.98	23.29	23.13		
100	QPSK	1	137	23.07	23.05	22.91	24.5	0.0
100	QPSK	1	271	22.90	23.01	22.94		
100	QPSK	135	0	22.94	23.04	23.06	24.5	0.0
100	QPSK	135	69	23.12	23.23	23.05	24.5	0.0
100	QPSK	135	138	23.14	23.18	23.07	24.5	0.0
100	QPSK	270	0	22.95	23.08	23.00		
100	16QAM	1	1	22.86	22.72	22.71	24.5	0.0
100	64QAM	1	1	22.76	22.75	22.54	24.5	0.0
100	256QAM	1	1	21.77	21.87	21.69	23.0	1.5
Channel				508200	518998	528998		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.82	23.22	22.85	24.5	0.0
Channel				507204	518998	529998		
Frequency (MHz)				2538.02	2592.99	2642.99		
80	QPSK	1	1	22.89	23.14	22.80	24.5	0.0
Channel				506200	518998	531998		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	22.90	23.24	22.93	24.5	0.0
Channel				505204	518998	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.79	23.15	22.87	24.5	0.0
Channel				503202	518998	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.79	23.21	22.97	24.5	0.0
Channel				502200	518998	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.80	23.10	22.88	24.5	0.0
Channel				501204	518998	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.91	23.09	22.90	24.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				508200	518998	528998		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	26.23	26.29	26.11	27.5	0.0
100	PI2 BPSK	1	137	26.11	26.30	26.10		
100	PI2 BPSK	1	271	26.07	26.22	26.18		
100	PI2 BPSK	135	0	25.43	25.59	25.44	27.0	0.5
100	PI2 BPSK	135	69	26.25	26.28	26.17	27.5	0.0
100	PI2 BPSK	135	138	25.83	25.78	25.77		
100	PI2 BPSK	270	0	25.62	25.65	25.60	27.0	0.5
100	QPSK	1	1	26.18	26.31	26.26		
100	QPSK	1	137	26.19	26.24	26.07	27.5	0.0
100	QPSK	1	271	26.08	26.23	26.19		
100	QPSK	135	0	25.03	25.14	24.93	26.5	1.0
100	QPSK	135	69	26.04	26.21	26.18	27.5	0.0
100	QPSK	135	138	25.11	25.18	25.00		
100	QPSK	270	0	24.97	25.15	24.83	26.5	1.0
100	16QAM	1	1	25.03	25.02	24.83	26.5	1.0
100	64QAM	1	1	23.17	23.38	23.28	25.0	2.5
100	256QAM	1	1	21.87	21.90	21.70	23.0	4.5
Channel				508200	518998	528998		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	25.85	26.12	26.19	27.5	0.0
Channel				507204	518998	529998		
Frequency (MHz)				2538.02	2592.99	2643.99		
80	QPSK	1	1	25.95	26.09	26.03	27.5	0.0
Channel				506200	518998	531998		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	26.14	26.19	26.22	27.5	0.0
Channel				505204	518998	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	25.88	26.11	26.04	27.5	0.0
Channel				503202	518998	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	25.92	26.16	26.06	27.5	0.0
Channel				502200	518998	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	25.82	26.16	26.10	27.5	0.0
Channel				501204	518998	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	25.99	26.15	26.17	27.5	0.0



Part270 n77 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	21.92	22.14	21.94			
100	PI2 BPSK	1	137	22.00	22.07	21.91	23.5	0.0	
100	PI2 BPSK	1	271	22.22	22.23	22.14			
100	PI2 BPSK	135	0	22.08	22.17	22.11	23.5	0.0	
100	PI2 BPSK	135	69	21.95	22.17	21.98	23.5	0.0	
100	PI2 BPSK	135	138	22.25	22.26	22.17	23.5	0.0	
100	PI2 BPSK	270	0	22.11	22.20	22.04			
100	QPSK	1	1	22.24	22.27	22.07			
100	QPSK	1	137	22.01	22.06	21.86	23.5	0.0	
100	QPSK	1	271	22.18	22.23	22.11			
100	QPSK	135	0	22.06	22.16	22.17	23.5	0.0	
100	QPSK	135	69	22.10	22.21	22.20	23.5	0.0	
100	QPSK	135	138	22.13	22.20	22.18	23.5	0.0	
100	QPSK	270	0	22.03	22.18	22.17			
100	16QAM	1	1	21.72	21.86	21.76	23.5	0.0	
100	16QAM	1	1	21.84	21.86	21.85	23.5	0.0	
100	256QAM	1	1	20.86	21.00	21.00	22.0	1.5	
Channel									
Frequency (MHz)				648334	656000	663666	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	21.90	22.24	21.97	23.5	0.0	
Channel									
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	21.93	22.11	22.20	23.5	0.0	
Channel									
Frequency (MHz)				648334	656000	663666	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	21.91	22.21	22.16	23.5	0.0	
Channel									
Frequency (MHz)				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	22.00	22.23	22.13	23.5	0.0	
Channel									
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	21.85	22.24	22.10	23.5	0.0	
Channel									
Frequency (MHz)				647234	656000	664666	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.06	22.15	21.99	23.5	0.0	

Part270 n77 PC2 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	24.89	25.07	25.05			
100	PI2 BPSK	1	137	24.98	25.08	24.93	26.5	0.0	
100	PI2 BPSK	1	271	25.11	25.20	25.15			
100	PI2 BPSK	135	0	24.82	24.87	24.56	26.0	0.5	
100	PI2 BPSK	135	69	25.10	25.16	25.12	26.5	0.0	
100	PI2 BPSK	135	138	24.84	24.74	24.60	26.0	0.5	
100	PI2 BPSK	270	0	24.71	24.70	24.50			
100	QPSK	1	1	25.20	25.28	25.15			
100	QPSK	1	137	24.86	25.07	25.05	26.5	0.0	
100	QPSK	1	271	25.11	25.19	25.09			
100	QPSK	135	0	24.10	24.16	24.11	25.5	1.0	
100	QPSK	135	69	25.00	25.18	25.14	26.5	0.0	
100	QPSK	135	138	24.10	24.25	24.13	25.5	1.0	
100	QPSK	270	0	23.97	24.18	24.02			
100	16QAM	1	1	23.67	23.80	23.79	25.5	1.0	
100	16QAM	1	1	22.16	22.36	22.20	24.0	2.5	
100	256QAM	1	1	20.91	21.02	20.98	22.0	4.5	
Channel									
Frequency (MHz)				648334	656000	666668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	24.94	25.25	25.09	26.5	0.0	
Channel									
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	24.92	25.25	24.97	25.5	0.0	
Channel									
Frequency (MHz)				648334	656000	663666	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	25.15	25.19	25.00	26.5	0.0	
Channel									
Frequency (MHz)				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	24.92	25.14	24.93	26.5	0.0	
Channel									
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	24.98	25.09	24.85	26.5	0.0	
Channel									
Frequency (MHz)				647234	656000	664666	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	24.92	25.06	24.99	26.5	0.0	

Part27Q n77 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1			21.90			
100	PI2 BPSK	1	137			22.09	23.5	0.0	
100	PI2 BPSK	1	271			22.18			
100	PI2 BPSK	135	0			22.07	23.5	0.0	
100	PI2 BPSK	135	69			22.20	23.5	0.0	
100	PI2 BPSK	135	138			22.24	23.5	0.0	
100	PI2 BPSK	270	0			22.21			
100	QPSK	1	1			22.25			
100	QPSK	1	137			22.09	23.5	0.0	
100	QPSK	1	271			22.16			
100	QPSK	135	0			22.09	23.5	0.0	
100	QPSK	135	69			22.15	23.5	0.0	
100	QPSK	135	138			22.13	23.5	0.0	
100	QPSK	270	0			22.22			
100	16QAM	1	1			21.82	23.5	0.0	
100	16QAM	1	1			21.67	23.5	0.0	
100	256QAM	1	1			20.73	22.0	1.5	
Channel									
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	22.10	22.14	22.04	23.5	0.0	
Channel									
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	22.12	22.21	22.19	23.5	0.0	
Channel									
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	22.18	22.19	22.06	23.5	0.0	
Channel									
Frequency (MHz)				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	22.09	22.07	22.05	23.5	0.0	
Channel									
Frequency (MHz)				631000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.13	22.09	22.12	23.5	0.0	
Channel									
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.16	22.07	22.13	23.5	0.0	



Part27Q n77 PC2 Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				633334			3500.01			
Frequency (MHz)				3500.01						
100	PI/2 BPSK	1	1	24.56	24.56	24.56	26.5	0.0		
100	PI/2 BPSK	1	137	24.56	24.56	24.56	26.5	0.0		
100	PI/2 BPSK	1	271	24.56	24.56	24.56	28.0	0.5		
100	PI/2 BPSK	135	0	24.20	24.20	24.20	26.5	0.0		
100	PI/2 BPSK	135	69	24.71	24.71	24.71	26.5	0.0		
100	PI/2 BPSK	135	138	24.30	24.30	24.30	28.0	0.5		
100	PI/2 BPSK	270	0	24.14	24.14	24.14	26.5	0.0		
100	QPSK	1	1	24.86	24.86	24.86	26.5	0.0		
100	QPSK	1	137	24.55	24.55	24.55	26.5	0.0		
100	QPSK	1	271	24.68	24.68	24.68	26.5	0.0		
100	QPSK	135	0	23.64	23.64	23.64	25.5	1.0		
100	QPSK	135	69	24.70	24.70	24.70	26.5	0.0		
100	QPSK	135	138	23.75	23.75	23.75	25.5	1.0		
100	QPSK	270	0	23.68	23.68	23.68	26.5	0.0		
100	16QAM	1	1	23.55	23.55	23.55	25.5	1.0		
100	64QAM	1	1	22.31	22.31	22.31	24.0	2.5		
100	256QAM	1	1	20.58	20.58	20.58	22.0	4.5		
Channel				639688	633334	634900	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510.00				
80	QPSK	1	1	24.64	24.64	24.65	26.5	0.0		
Channel				632000	633334	634968	Tune-up limit		MPR	
Frequency (MHz)				3490.02	3500.01	3520.02	(dBm)		(dB)	
60	QPSK	1	1	24.75	24.69	24.70	26.5	0.0		
Channel				631668	633334	635000	Tune-up limit		MPR	
Frequency (MHz)				3475.02	3500.01	3525.00	(dBm)		(dB)	
50	QPSK	1	1	24.82	24.78	24.89	26.5	0.0		
Channel				631334	633334	635334	Tune-up limit		MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)		(dB)	
40	QPSK	1	1	24.80	24.78	24.87	26.5	0.0		
Channel				631000	633334	635668	Tune-up limit		MPR	
Frequency (MHz)				3465.00	3500.01	3535.02	(dBm)		(dB)	
30	QPSK	1	1	24.79	24.65	24.72	26.5	0.0		
Channel				630550	633334	636000	Tune-up limit		MPR	
Frequency (MHz)				3460.02	3500.01	3540.01	(dBm)		(dB)	
20	QPSK	1	1	24.72	24.82	24.79	26.5	0.0		

Part27O n78 Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				650000			3750			
Frequency (MHz)				3750						
100	PI/2 BPSK	1	1	21.83	21.83	21.83	23.5	0.0		
100	PI/2 BPSK	1	137	21.79	21.79	21.79	23.5	0.0		
100	PI/2 BPSK	1	271	21.84	21.84	21.84	23.5	0.0		
100	PI/2 BPSK	135	0	21.84	21.84	21.84	23.5	0.0		
100	PI/2 BPSK	135	69	21.89	21.89	21.89	23.5	0.0		
100	PI/2 BPSK	135	138	21.96	21.96	21.96	23.5	0.0		
100	PI/2 BPSK	270	0	21.96	21.96	21.96	23.5	0.0		
100	QPSK	1	1	21.99	21.99	21.99	23.5	0.0		
100	QPSK	1	137	21.81	21.81	21.81	23.5	0.0		
100	QPSK	1	271	21.98	21.98	21.98	23.5	0.0		
100	QPSK	135	0	21.81	21.81	21.81	23.5	0.0		
100	QPSK	135	69	21.97	21.97	21.97	23.5	0.0		
100	QPSK	135	138	21.90	21.90	21.90	23.5	0.0		
100	QPSK	270	0	21.88	21.88	21.88	23.5	0.0		
100	16QAM	1	1	21.58	21.58	21.58	23.5	0.0		
100	64QAM	1	1	21.51	21.51	21.51	23.5	0.0		
100	256QAM	1	1	20.68	20.68	20.68	22.0	1.5		
Channel				649688	650000	650334	Tune-up limit		MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)		(dB)	
90	QPSK	1	1	21.90	21.92	21.88	23.5	0.0		
Channel				649334	650000	650668	Tune-up limit		MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)		(dB)	
80	QPSK	1	1	21.95	21.90	21.85	23.5	0.0		
Channel				649000	650000	651000	Tune-up limit		MPR	
Frequency (MHz)				3735.00	3750	3765.00	(dBm)		(dB)	
70	QPSK	1	1	21.85	21.86	21.87	23.5	0.0		
Channel				648668	650000	651334	Tune-up limit		MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)		(dB)	
60	QPSK	1	1	21.96	21.87	21.86	23.5	0.0		
Channel				648334	650000	651668	Tune-up limit		MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)		(dB)	
50	QPSK	1	1	21.90	21.88	21.93	23.5	0.0		
Channel				648000	650000	652000	Tune-up limit		MPR	
Frequency (MHz)				3720.00	3750	3780.00	(dBm)		(dB)	
40	QPSK	1	1	21.91	21.84	21.87	23.5	0.0		
Channel				647668	650000	652334	Tune-up limit		MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)		(dB)	
30	QPSK	1	1	21.86	21.83	21.85	23.5	0.0		
Channel				647334	650000	652668	Tune-up limit		MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)		(dB)	
20	QPSK	1	1	21.84	21.92	21.92	23.5	0.0		

Part27O n78 PC2 Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				650000			3750			
Frequency (MHz)				3750						
100	PI/2 BPSK	1	1	24.79	24.79	24.79	26.5	0.0		
100	PI/2 BPSK	1	137	24.77	24.77	24.77	26.5	0.0		
100	PI/2 BPSK	1	271	24.84	24.84	24.84	28.0	0.5		
100	PI/2 BPSK	135	0	24.33	24.33	24.33	26.5	0.0		
100	PI/2 BPSK	135	69	24.88	24.88	24.88	26.5	0.0		
100	PI/2 BPSK	135	138	24.38	24.38	24.38	28.0	0.5		
100	PI/2 BPSK	270	0	24.44	24.44	24.44	26.5	0.0		
100	QPSK	1	1	24.93	24.93	24.93	26.5	0.0		
100	QPSK	1	137	24.71	24.71	24.71	26.5	0.0		
100	QPSK	1	271	24.88	24.88	24.88	26.5	0.0		
100	QPSK	135	0	23.87	23.87	23.87	25.5	1.0		
100	QPSK	135	69	24.85	24.85	24.85	26.5	0.0		
100	QPSK	135	138	23.85	23.85	23.85	25.5	1.0		
100	QPSK	270	0	23.88	23.88	23.88	26.5	0.0		
100	16QAM	1	1	23.91	23.91	23.91	25.5	1.0		
100	64QAM	1	1	22.03	22.03	22.03	24.0	2.5		
100	256QAM	1	1	20.76	20.76	20.76	22.0	4.5		
Channel				649688	650000	650334	Tune-up limit		MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)		(dB)	
90	QPSK	1	1	24.85	24.85	24.81	26.5	0.0		
Channel				649334	650000	650668	Tune-up limit		MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)		(dB)	
80	QPSK	1	1	24.84	24.81	24.83	26.5	0.0		
Channel				649000	650000	651000	Tune-up limit		MPR	
Frequency (MHz)				3735.00	3750	3765.00	(dBm)		(dB)	
70	QPSK	1	1	24.78	24.88	24.86	26.5	0.0		
Channel				648668	650000	651334	Tune-up limit		MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)		(dB)	
60	QPSK	1	1	24.89	24.86	24.83	26.5	0.0		
Channel				648334	650000	651668	Tune-up limit		MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)		(dB)	
50	QPSK	1	1	24.87	24.84	24.80	26.5	0.0		
Channel				648000	650000	652000	Tune-up limit		MPR	
Frequency (MHz)				3720.00	3750	3780.00	(dBm)		(dB)	
40	QPSK	1	1	24.77	24.89	24.79	26.5	0.0		
Channel				647668	650000	652334	Tune-up limit		MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)		(dB)	
30	QPSK	1	1	24.86	24.82	24.84	26.5	0.0		
Channel				647334	650000	652668	Tune-up limit		MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)		(dB)	
20	QPSK	1	1	24.87	24.86	24.82	26.5	0.0		

Part27Q n78 Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3499.98						
100	PI/2 BPSK	1	1		21.89					
100	PI/2 BPSK	1	137		21.88		23.5	0.0		
100	PI/2 BPSK	1	271		22.06					
100	PI/2 BPSK	135	0		21.88		23.5	0.0		
100	PI/2 BPSK	135	69		22.08		23.5	0.0		
100	PI/2 BPSK	135	138		22.12		23.5	0.0		
100	PI/2 BPSK	270	0		22.03					
100	QPSK	1	1		22.14					
100	QPSK	1	137		22.00		23.5	0.0		
100	QPSK	1	271		22.02					
100	QPSK	135	0		21.89		23.5	0.0		
100	QPSK	135	69		22.05		23.5	0.0		
100	QPSK	135	138		21.86		23.5	0.0		
100	QPSK	270	0		22.03					
100	16QAM	1	1		21.52		23.5	0.0		
100	64QAM	1	1		21.59		23.5	0.0		
100	256QAM	1	1		20.57		22.0	1.5		
Channel				633090	633332	633688	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3495	3499.98	3505.02				
90	QPSK	1	1		22.08	22.04	22.01	23.5	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3490.02	3499.98	3510				
80	QPSK	1	1		22.10	22.00	22.01	23.5	0.0	
Channel				632334	633332	634334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3485.01	3499.98	3515.01				
70	QPSK	1	1		22.05	22.04	22.07	23.5	0.0	
Channel				632000	633332	634668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3480	3499.98	3509.02				
60	QPSK	1	1		21.99	22.01	22.03	23.5	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3475.02	3499.98	3525				
50	QPSK	1	1		22.05	22.09	21.98	23.5	0.0	
Channel				631334	633332	635334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3470.01	3499.98	3530.01				
40	QPSK	1	1		22.08	22.10	22.07	23.5	0.0	
Channel				631000	633332	635668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3465	3499.98	3535.02				
30	QPSK	1	1		22.03	22.09	22.02	23.5	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3460.02	3499.98	3540				
20	QPSK	1	1		21.99	22.07	22.00	23.5	0.0	

Part27Q n78 PC2 Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3499.98						
100	PI/2 BPSK	1	1		24.52					
100	PI/2 BPSK	1	137		24.52		26.5	0.0		
100	PI/2 BPSK	1	271		24.53					
100	PI/2 BPSK	135	0		24.07		26.0	0.5		
100	PI/2 BPSK	135	69		24.00		26.5	0.0		
100	PI/2 BPSK	135	138		24.20		26.0	0.5		
100	PI/2 BPSK	270	0		24.09					
100	QPSK	1	1		24.77					
100	QPSK	1	137		24.59		26.5	0.0		
100	QPSK	1	271		24.63					
100	QPSK	135	0		23.59		26.5	1.0		
100	QPSK	135	69		24.57		26.5	0.0		
100	QPSK	135	138		23.60		26.5	1.0		
100	QPSK	270	0		23.61					
100	16QAM	1	1		23.59		25.5	1.0		
100	64QAM	1	1		22.24		24.0	2.5		
100	256QAM	1	1		20.52		22.0	4.5		
Channel				633000	633332	633688	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3495	3499.98	3505.02				
90	QPSK	1	1		24.73	24.63	24.65	26.5	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3490.02	3499.98	3510				
80	QPSK	1	1		24.71	24.69	24.69	26.5	0.0	
Channel				632334	633332	634334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3485.01	3499.98	3515.01				
70	QPSK	1	1		24.61	24.72	24.62	26.5	0.0	
Channel				632000	633332	634668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3480	3499.98	3509.02				
60	QPSK	1	1		24.69	24.64	24.64	26.5	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3475.02	3499.98	3525				
50	QPSK	1	1		24.72	24.72	24.69	26.5	0.0	
Channel				631334	633332	635334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3470.01	3499.98	3530.01				
40	QPSK	1	1		24.71	24.70	24.71	26.5	0.0	
Channel				631000	633332	635668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3465	3499.98	3535.02				
30	QPSK	1	1		24.70	24.64	24.69	26.5	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3460.02	3499.98	3540				
20	QPSK	1	1		24.69	24.71	24.64	26.5	0.0	

n41 Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	21.21	21.25	21.22			
100	PI/2 BPSK	1	137	21.03	21.07	20.94	22.0	0.0	
100	PI/2 BPSK	1	271	20.72	20.85	20.76			
100	PI/2 BPSK	135	0	21.08	21.22	21.17	22.0	0.0	
100	PI/2 BPSK	135	69	21.14	21.19	21.13	22.0	0.0	
100	PI/2 BPSK	135	138	21.10	21.19	21.06	22.0	0.0	
100	PI/2 BPSK	270	0	21.05	21.13	21.04			
100	QPSK	1	1	21.29	21.41	21.32			
100	QPSK	1	137	20.97	21.04	21.01	22.0	0.0	
100	QPSK	1	271	20.69	20.83	20.71			
100	QPSK	135	0	21.13	21.18	21.07	22.0	0.0	
100	QPSK	135	69	21.09	21.16	21.10	22.0	0.0	
100	QPSK	135	138	21.10	21.15	21.02			
100	QPSK	270	0	21.04	21.12	21.10	22.0	0.0	
100	16QAM	1	1	20.91	20.94	20.80	22.0	0.0	
100	64QAM	1	1	20.93	20.97	20.87	22.0	0.0	
100	256QAM	1	1	20.03	20.11	20.08	20.5	1.5	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.20	21.14	21.13	22.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	21.06	21.36	21.25	22.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2528	2592.99	2659.98			
60	QPSK	1	1	21.03	21.37	21.05	22.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	21.23	21.29	21.05	22.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.23	21.22	21.25	22.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.04	21.18	21.29	22.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.06	21.26	21.18	22.0	0.0	

n41 PC2 Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	24.18	24.29	24.13			
100	PI/2 BPSK	1	137	24.08	24.28	24.02	25.0	0.0	
100	PI/2 BPSK	1	271	24.21	24.23	24.07			
100	PI/2 BPSK	135	0	23.73	23.95	23.83	24.5	0.5	
100	PI/2 BPSK	135	69	24.32	24.56	24.33	25.0	0.0	
100	PI/2 BPSK	135	138	24.24	24.35	24.07	24.5	0.5	
100	PI/2 BPSK	270	0	23.89	24.08	23.89			
100	QPSK	1	1	24.38	24.66	24.48			
100	QPSK	1	137	24.15	24.29	24.24	25.0	0.0	
100	QPSK	1	271	24.04	24.16	24.12			
100	QPSK	135	0	23.30	23.52	23.25	24.0	1.0	
100	QPSK	135	69	24.67	24.75	24.49	25.0	0.0	
100	QPSK	135	138	23.55	23.68	23.62	24.0	1.0	
100	QPSK	270	0	23.37	23.49	23.42			
100	16QAM	1	1	23.20	23.30	23.21	24.0	1.0	
100	64QAM	1	1	21.52	21.79	21.64	22.5	2.5	
100	256QAM	1	1	20.22	20.32	20.25	20.5	4.5	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	24.17	24.56	24.33	25.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	24.24	24.50	24.30	25.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2528	2592.99	2659.98			
60	QPSK	1	1	24.27	24.41	24.37	25.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	24.33	24.62	24.29	25.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	24.17	24.50	24.33	25.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	24.20	24.52	24.23	25.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	24.28	24.48	24.44	25.0	0.0	



Part270 n77 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									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	18.06	18.28	18.04			
100	PI2 BPSK	1	137	18.04	18.25	18.13	20.0	0.0	
100	PI2 BPSK	1	271	18.23	18.40	18.38			
100	PI2 BPSK	135	0	18.32	18.37	18.20	20.0	0.0	
100	PI2 BPSK	135	69	18.21	18.34	18.16	20.0	0.0	
100	PI2 BPSK	135	138	18.27	18.40	18.17	20.0	0.0	
100	PI2 BPSK	270	0	18.18	18.40	18.38			
100	QPSK	1	1	18.51	18.70	18.52			
100	QPSK	1	137	18.02	18.25	18.17	20.0	0.0	
100	QPSK	1	271	18.36	18.45	18.35			
100	QPSK	135	0	18.38	18.48	18.45	20.0	0.0	
100	QPSK	135	69	18.49	18.52	18.46	20.0	0.0	
100	QPSK	135	138	18.23	18.41	18.15	20.0	0.0	
100	QPSK	270	0	18.43	18.48	18.42			
100	16QAM	1	1	18.08	18.06	18.03	20.0	0.0	
100	16QAM	1	1	18.01	18.07	18.02	20.0	0.0	
100	256QAM	1	1	17.11	17.22	17.16	18.5	1.5	
Channel									
Frequency (MHz)				649334	650000	649668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	18.28	18.44	18.37	20.0	0.0	
Channel									
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	18.24	18.20	18.16	20.0	0.0	
Channel									
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	18.24	18.21	18.29	20.0	0.0	
Channel									
Frequency (MHz)				649000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	18.22	18.27	18.15	20.0	0.0	
Channel									
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	18.28	18.34	18.40	20.0	0.0	
Channel									
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	18.16	18.40	18.23	20.0	0.0	

Part270 n77 PC2 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									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	21.03	21.24	21.06			
100	PI2 BPSK	1	137	21.21	21.28	21.13	23.0	0.0	
100	PI2 BPSK	1	271	21.39	21.41	21.31			
100	PI2 BPSK	135	0	20.85	20.85	20.69	22.5	0.5	
100	PI2 BPSK	135	69	21.13	21.34	21.13	23.0	0.0	
100	PI2 BPSK	135	138	20.85	20.91	20.75	22.5	0.5	
100	PI2 BPSK	270	0	20.88	20.91	20.81			
100	QPSK	1	1	21.39	21.53	21.41			
100	QPSK	1	137	21.01	21.24	21.02	23.0	0.0	
100	QPSK	1	271	21.24	21.42	21.21			
100	QPSK	135	0	20.39	20.45	20.40	22.0	1.0	
100	QPSK	135	69	21.42	21.45	21.42	23.0	0.0	
100	QPSK	135	138	20.37	20.41	20.35	22.0	1.0	
100	QPSK	270	0	20.47	20.48	20.44			
100	16QAM	1	1	20.04	20.11	20.03	22.0	1.0	
100	16QAM	1	1	18.56	18.59	18.55	20.5	2.5	
100	256QAM	1	1	17.17	17.23	17.07	18.5	4.5	
Channel									
Frequency (MHz)				649334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	21.01	21.33	21.08	23.0	0.0	
Channel									
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	21.02	21.31	21.03	23.0	0.0	
Channel									
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	21.01	21.22	21.13	23.0	0.0	
Channel									
Frequency (MHz)				649000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	21.01	21.18	21.09	23.0	0.0	
Channel									
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	21.06	21.33	21.11	23.0	0.0	
Channel									
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	21.07	21.28	21.25	23.0	0.0	

Part27Q n77 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									
Frequency (MHz)						3500.01			
100	PI2 BPSK	1	1			18.26			
100	PI2 BPSK	1	137			18.54		20.0	0.0
100	PI2 BPSK	1	271			18.69			
100	PI2 BPSK	135	0			18.48		20.0	0.0
100	PI2 BPSK	135	69			18.65		20.0	0.0
100	PI2 BPSK	135	138			18.75		20.0	0.0
100	PI2 BPSK	270	0			18.65			
100	QPSK	1	1			18.86			
100	QPSK	1	137			18.56		20.0	0.0
100	QPSK	1	271			18.67			
100	QPSK	135	0			18.49		20.0	0.0
100	QPSK	135	69			18.74		20.0	0.0
100	QPSK	135	138			18.70		20.0	0.0
100	QPSK	270	0			18.84			
100	16QAM	1	1			18.12		20.0	0.0
100	16QAM	1	1			18.04		20.0	0.0
100	256QAM	1	1			17.15		18.5	1.5
Channel									
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	18.65	18.74	18.68	20.0	0.0	
Channel									
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	18.59	18.69	18.44	20.0	0.0	
Channel									
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	18.58	18.53	18.48	20.0	0.0	
Channel									
Frequency (MHz)				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	18.59	18.53	18.66	20.0	0.0	
Channel									
Frequency (MHz)				631000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	18.51	18.54	18.56	20.0	0.0	
Channel									
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	18.61	18.57	18.51	20.0	0.0	



Part27Q n77 PC2 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				63334			3500.01		
Frequency (MHz)									
100	PI2 BPSK	1	1	21.69					
100	PI2 BPSK	1	137	21.83					0.0
100	PI2 BPSK	1	271	21.81					23.0
100	PI2 BPSK	135	0	21.34					22.5
100	PI2 BPSK	135	69	21.73					23.0
100	PI2 BPSK	135	138	21.29					22.5
100	PI2 BPSK	270	0	21.24					23.0
100	QPSK	1	1	21.86					23.0
100	QPSK	1	137	21.72					23.0
100	QPSK	1	271	21.83					23.0
100	QPSK	135	0	20.74					22.0
100	QPSK	135	69	21.82					23.0
100	QPSK	135	138	20.86					22.0
100	QPSK	270	0	20.81					23.0
100	16QAM	1	1	20.25					22.0
100	64QAM	1	1	18.58					20.5
100	256QAM	1	1	17.15					18.5
Channel				63968	63334	63400			
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	21.58	21.65	21.52			23.0
Channel				63200	63334	63498			
Frequency (MHz)				3490	3500.01	3509.02			
60	QPSK	1	1	21.57	21.52	21.26			23.0
Channel				63168	63334	63500			
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	21.30	21.60	21.34			23.0
Channel				63134	63334	63534			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	21.44	21.61	21.49			23.0
Channel				63100	63334	63568			
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	21.46	21.57	21.38			23.0
Channel				63059	63334	63600			
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	21.35	21.62	21.26			23.0

Part27O n78 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				65000			3750		
Frequency (MHz)									
100	PI2 BPSK	1	1	18.01					
100	PI2 BPSK	1	137	18.42					20.0
100	PI2 BPSK	1	271	18.44					20.0
100	PI2 BPSK	135	0	18.46					20.0
100	PI2 BPSK	135	69	18.50					20.0
100	PI2 BPSK	135	138	18.49					20.0
100	PI2 BPSK	270	0	18.50					20.0
100	QPSK	1	1	18.09					20.0
100	QPSK	1	137	18.43					20.0
100	QPSK	1	271	18.43					20.0
100	QPSK	135	0	18.48					20.0
100	QPSK	135	69	18.49					20.0
100	QPSK	135	138	18.48					20.0
100	QPSK	270	0	18.48					20.0
100	16QAM	1	1	18.20					20.0
100	64QAM	1	1	18.21					20.0
100	256QAM	1	1	17.35					18.5
Channel				64968	65000	65034			
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	18.58	18.65	18.59			20.0
Channel				64934	65000	65068			
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	18.39	18.50	18.51			20.0
Channel				64900	65000	65100			
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	18.45	18.50	18.40			20.0
Channel				64868	65000	65134			
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	18.39	18.39	18.32			20.0
Channel				64834	65000	65168			
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	18.46	18.59	18.41			20.0
Channel				64768	65000	65234			
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	18.55	18.40	18.51			20.0
Channel				64768	65000	65234			
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	18.49	18.39	18.44			20.0
Channel				64734	65000	65268			
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	18.41	18.56	18.48			20.0

Part27O n78 PC2 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				65000			3750		
Frequency (MHz)									
100	PI2 BPSK	1	1	21.40					
100	PI2 BPSK	1	137	21.38					23.0
100	PI2 BPSK	1	271	21.36					22.5
100	PI2 BPSK	135	0	20.94					22.5
100	PI2 BPSK	135	69	21.47					23.0
100	PI2 BPSK	135	138	20.98					22.5
100	PI2 BPSK	270	0	21.02					23.0
100	QPSK	1	1	21.48					23.0
100	QPSK	1	137	21.37					23.0
100	QPSK	1	271	21.36					23.0
100	QPSK	135	0	20.45					22.0
100	QPSK	135	69	21.48					23.0
100	QPSK	135	138	20.47					22.0
100	QPSK	270	0	20.49					23.0
100	16QAM	1	1	20.03					22.0
100	64QAM	1	1	18.57					20.5
100	256QAM	1	1	17.16					18.5
Channel				64968	65000	65034			
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	21.26	21.33	21.28			23.0
Channel				64934	65000	65068			
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	21.16	21.23	21.22			23.0
Channel				64900	65000	65100			
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	21.13	21.22	21.18			23.0
Channel				64868	65000	65134			
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	21.19	21.25	21.15			23.0
Channel				64834	65000	65168			
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	21.11	21.21	21.20			23.0
Channel				64768	65000	65234			
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	21.19	21.25	21.25			23.0
Channel				64768	65000	65234			
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	21.23	21.32	21.22			23.0
Channel				64734	65000	65268			
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	21.19	21.29	21.14			23.0

Part27Q n78 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										
Frequency (MHz)				3499.98						
100	PI/2 BPSK	1	1		18.39					
100	PI/2 BPSK	1	137		18.58		20.0	0.0		
100	PI/2 BPSK	1	271		18.74					
100	PI/2 BPSK	135	0		18.50		20.0	0.0		
100	PI/2 BPSK	135	69		18.79		20.0	0.0		
100	PI/2 BPSK	135	138		18.73		20.0	0.0		
100	PI/2 BPSK	270	0		18.72					
100	QPSK	1	1		18.60					
100	QPSK	1	137		18.58		20.0	0.0		
100	QPSK	1	271		18.72					
100	QPSK	135	0		18.49		20.0	0.0		
100	QPSK	135	69		18.64		20.0	0.0		
100	QPSK	135	138		18.54		20.0	0.0		
100	QPSK	270	0		18.73					
100	16QAM	1	1		18.14		20.0	0.0		
100	64QAM	1	1		18.16		20.0	0.0		
100	256QAM	1	1		17.30		18.5	4.5		
Channel				633090	633332	633688	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3495 3499.98 3505.02						
90	QPSK	1	1		18.65	18.63	20.0	0.0		
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3490.02 3499.98 3510						
80	QPSK	1	1		18.60	18.72	18.52	20.0	0.0	
Channel				632334	633332	634334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3485.01 3499.98 3515.01						
70	QPSK	1	1		18.58	18.70	18.58	20.0	0.0	
Channel				632000	633332	634668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3480 3499.98 3509.02						
60	QPSK	1	1		18.61	18.71	18.58	20.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3475.02 3499.98 3525						
50	QPSK	1	1		18.63	18.64	18.61	20.0	0.0	
Channel				631334	633332	635334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3470.01 3499.98 3530.01						
40	QPSK	1	1		18.54	18.61	18.61	20.0	0.0	
Channel				631000	633332	635668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3465 3499.98 3535.02						
30	QPSK	1	1		18.51	18.62	18.57	20.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3460.02 3499.98 3540						
20	QPSK	1	1		18.59	18.67	18.60	20.0	0.0	

Part27Q n78 PC2 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										
Frequency (MHz)				3499.98						
100	PI/2 BPSK	1	1		21.52					
100	PI/2 BPSK	1	137		21.83		23.0	0.0		
100	PI/2 BPSK	1	271		21.89					
100	PI/2 BPSK	135	0		21.15		22.5	0.5		
100	PI/2 BPSK	135	69		21.89		23.0	0.0		
100	PI/2 BPSK	135	138		21.51		22.5	0.5		
100	PI/2 BPSK	270	0		21.35					
100	QPSK	1	1		21.91					
100	QPSK	1	137		21.84		23.0	0.0		
100	QPSK	1	271		21.89					
100	QPSK	135	0		20.67		22.0	1.0		
100	QPSK	135	69		21.90		23.0	0.0		
100	QPSK	135	138		21.06		22.0	1.0		
100	QPSK	270	0		21.03					
100	16QAM	1	1		20.02		22.0	1.0		
100	64QAM	1	1		18.55		20.5	2.5		
100	256QAM	1	1		17.15		18.5	4.5		
Channel				633000	633332	633688	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3495 3499.98 3505.02						
90	QPSK	1	1		21.84	21.89	21.88	23.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3490.02 3499.98 3510						
80	QPSK	1	1		21.74	21.84	21.79	23.0	0.0	
Channel				632334	633332	634334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3485.01 3499.98 3515.01						
70	QPSK	1	1		21.74	21.84	21.81	23.0	0.0	
Channel				632000	633332	634668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3480 3499.98 3509.02						
60	QPSK	1	1		21.77	21.82	21.80	23.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3475.02 3499.98 3525						
50	QPSK	1	1		21.74	21.89	21.77	23.0	0.0	
Channel				631334	633332	635334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3470.01 3499.98 3530.01						
40	QPSK	1	1		21.80	21.85	21.76	23.0	0.0	
Channel				631000	633332	635668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3465 3499.98 3535.02						
30	QPSK	1	1		21.81	21.90	21.83	23.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3460.02 3499.98 3540						
20	QPSK	1	1		21.70	21.86	21.76	23.0	0.0	



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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				2546.01	2592.99	2640			
Frequency (MHz)									
100	PI2 BPSK	1	1	16.59	16.73	16.89			
100	PI2 BPSK	1	137	16.73	16.75	16.69		0.0	
100	PI2 BPSK	1	271	16.32	16.37	16.25			
100	PI2 BPSK	135	0	16.72	16.80	16.67	18.0	0.0	
100	PI2 BPSK	135	69	16.79	16.86	16.83	18.0	0.0	
100	PI2 BPSK	135	138	16.63	16.75	16.69	18.0	0.0	
100	PI2 BPSK	270	0	16.71	16.75	16.70			
100	QPSK	1	1	16.84	16.80	16.80			
100	QPSK	1	137	16.59	16.73	16.65	18.0	0.0	
100	QPSK	1	271	16.32	16.35	16.28			
100	QPSK	135	0	16.80	16.82	16.67	18.0	0.0	
100	QPSK	135	69	16.86	16.87	16.80	18.0	0.0	
100	QPSK	135	138	16.59	16.71	16.65	18.0	0.0	
100	QPSK	270	0	16.66	16.73	16.67			
100	16QAM	1	1	16.43	16.44	16.41	18.0	0.0	
100	64QAM	1	1	16.30	16.42	16.39	18.0	0.0	
100	256QAM	1	1	16.47	16.51	16.42	16.5	1.5	
Channel				50320	51858	53096	Tune-up limit (dB)	MPR	
Frequency (MHz)									
90	QPSK	1	1	16.79	16.79	16.73	18.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dB)	MPR	
Frequency (MHz)									
80	QPSK	1	1	16.82	16.74	16.72	18.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dB)	MPR	
Frequency (MHz)									
60	QPSK	1	1	16.81	16.78	16.75	18.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dB)	MPR	
Frequency (MHz)									
50	QPSK	1	1	16.74	16.80	16.77	18.0	0.0	
Channel				503002	518598	534000	Tune-up limit (dB)	MPR	
Frequency (MHz)									
40	QPSK	1	1	16.79	16.80	16.74	18.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dB)	MPR	
Frequency (MHz)									
30	QPSK	1	1	16.72	16.67	16.72	18.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dB)	MPR	
Frequency (MHz)									
20	QPSK	1	1	16.74	16.70	16.71	18.0	0.0	

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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				2546.01	2592.99	2640			
Frequency (MHz)									
100	PI2 BPSK	1	1	20.00	20.10	19.96			
100	PI2 BPSK	1	137	20.03	20.05	19.93	21.0	0.0	
100	PI2 BPSK	1	271	19.96	20.00	19.88			
100	PI2 BPSK	135	0	19.65	19.69	19.57	20.5	0.5	
100	PI2 BPSK	135	69	20.00	20.13	20.12	21.0	0.0	
100	PI2 BPSK	135	138	19.61	19.66	19.62	20.5	0.5	
100	PI2 BPSK	270	0	19.46	19.57	19.54			
100	QPSK	1	1	20.02	20.15	20.07			
100	QPSK	1	137	19.94	20.04	20.02	21.0	0.0	
100	QPSK	1	271	19.92	20.05	19.94			
100	QPSK	135	0	19.16	19.21	19.07	20.0	1.0	
100	QPSK	135	69	20.10	20.16	20.03	21.0	0.0	
100	QPSK	135	138	19.06	19.08	19.04	20.0	1.0	
100	QPSK	270	0	18.86	19.03	18.93			
100	16QAM	1	1	18.86	18.94	18.88	20.0	1.0	
100	64QAM	1	1	17.38	17.41	17.27	18.5	2.5	
100	256QAM	1	1	15.91	15.99	15.90	16.5	4.5	
Channel				507204	518598	529998	Tune-up limit (dB)	MPR	
Frequency (MHz)									
90	QPSK	1	1	19.96	20.00	19.98	21.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dB)	MPR	
Frequency (MHz)									
80	QPSK	1	1	19.90	20.01	19.90	21.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dB)	MPR	
Frequency (MHz)									
60	QPSK	1	1	19.94	20.05	19.93	21.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dB)	MPR	
Frequency (MHz)									
50	QPSK	1	1	19.90	20.06	19.95	21.0	0.0	
Channel				503002	518598	534000	Tune-up limit (dB)	MPR	
Frequency (MHz)									
40	QPSK	1	1	19.87	20.08	20.01	21.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dB)	MPR	
Frequency (MHz)									
30	QPSK	1	1	19.95	20.08	19.92	21.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dB)	MPR	
Frequency (MHz)									
20	QPSK	1	1	20.00	20.03	19.93	21.0	0.0	

Part270 n77 Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	21.13	21.20	21.08			
100	PI2 BPSK	1	137	21.01	21.02	21.11	23.0	0.0	
100	PI2 BPSK	1	271	21.15	21.01	21.11			
100	PI2 BPSK	135	0	21.10	21.14	21.07	23.0	0.0	
100	PI2 BPSK	135	69	21.09	21.08	21.12	23.0	0.0	
100	PI2 BPSK	135	138	21.06	21.11	21.01	23.0	0.0	
100	PI2 BPSK	270	0	21.06	21.10	21.05			
100	QPSK	1	1	21.40	21.46	21.37			
100	QPSK	1	137	21.09	21.07	21.04	23.0	0.0	
100	QPSK	1	271	21.02	21.08	21.15			
100	QPSK	135	0	21.10	21.09	21.02	23.0	0.0	
100	QPSK	135	69	21.07	21.12	21.06	23.0	0.0	
100	QPSK	135	138	21.10	21.10	21.10	23.0	0.0	
100	QPSK	270	0	21.04	21.11	21.09			
100	16QAM	1	1	21.19	21.01	21.07	23.0	0.0	
100	64QAM	1	1	21.06	21.09	21.06	23.0	0.0	
100	256QAM	1	1	20.02	20.08	20.00	21.5	1.5	
Channel				647668	650000	663334	Tune-up limit (dB)	MPR	
Frequency (MHz)									
80	QPSK	1	1	21.27	21.48	21.22	23.0	0.0	
Channel				647668	650000	663334	Tune-up limit (dB)	MPR	
Frequency (MHz)									
60	QPSK	1	1	21.21	21.42	21.29	23.0	0.0	
Channel				644334	650000	663968	Tune-up limit (dB)	MPR	
Frequency (MHz)									
50	QPSK	1	1	21.37	21.47	21.27	23.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dB)	MPR	
Frequency (MHz)									
40	QPSK	1	1	21.34	21.44	21.31	23.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dB)	MPR	
Frequency (MHz)									
30	QPSK	1	1	21.27	21.46	21.33	23.0	0.0	
Channel				645334	650000	664568	Tune-up limit (dB)	MPR	
Frequency (MHz)									
20	QPSK	1	1	21.31	21.41	21.24	23.0	0.0	



Part270 n77 PC2 Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	24.01	24.02	24.01			
100	PI2 BPSK	1	137	24.08	24.18	24.15	26.0	0.0	
100	PI2 BPSK	1	271	24.13	24.15	24.10			
100	PI2 BPSK	135	0	24.42	23.53	24.40	25.5	0.5	
100	PI2 BPSK	135	69	24.07	24.21	24.15	26.0	0.0	
100	PI2 BPSK	135	138	23.65	23.77	23.74	25.5	0.5	
100	PI2 BPSK	270	0	23.72	23.80	23.72			
100	QPSK	1	1	24.39	24.46	24.38			
100	QPSK	1	137	24.01	24.14	24.04	26.0	0.0	
100	QPSK	1	271	24.01	24.12	24.09			
100	QPSK	135	0	23.06	23.01	23.02	25.0	1.0	
100	QPSK	135	69	24.01	24.03	24.01	26.0	0.0	
100	QPSK	135	138	23.23	23.26	23.13	25.0	1.0	
100	QPSK	270	0	23.03	23.05	23.01			
100	16QAM	1	1	23.02	23.05	23.01	25.0	1.0	
100	64QAM	1	1	21.55	21.61	21.51	23.5	2.5	
100	256QAM	1	1	19.85	19.96	19.94	21.5	4.5	
Channel				633334	635000	635968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	24.32	24.33	24.28	26.0	0.0	
Channel				648668	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	24.21	24.35	24.33	23.0	0.0	
Channel				643334	656000	663968	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	24.35	24.39	24.36	26.0	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	24.32	24.36	24.24	26.0	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	24.30	24.33	24.33	26.0	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	24.36	24.36	24.32	26.0	0.0	

Part27Q n77 Ant 7									
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					3500.01				
Frequency (MHz)									
100	PI2 BPSK	1	1		21.03				
100	PI2 BPSK	1	137		21.88		23.0	0.0	
100	PI2 BPSK	1	271		21.96				
100	PI2 BPSK	135	0		21.83		23.0	0.0	
100	PI2 BPSK	135	69		21.97		23.0	0.0	
100	PI2 BPSK	135	138		22.01		23.0	0.0	
100	PI2 BPSK	270	0		22.04				
100	QPSK	1	1		22.06				
100	QPSK	1	137		21.88		23.0	0.0	
100	QPSK	1	271		21.96				
100	QPSK	135	0		21.83		23.0	0.0	
100	QPSK	135	69		22.03		23.0	0.0	
100	QPSK	135	138		22.00		23.0	0.0	
100	QPSK	270	0		21.99				
100	16QAM	1	1		21.39		23.0	0.0	
100	64QAM	1	1		21.40		23.0	0.0	
100	256QAM	1	1		20.49		21.5	1.5	
Channel				632868	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	1	22.01	22.04	21.98	23.0	0.0	
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	1	21.87	22.00	21.83	23.0	0.0	
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3476.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	1	21.88	21.90	21.86	23.0	0.0	
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	1	21.98	21.93	21.93	23.0	0.0	
Channel				631000	633334	635668	Tune-up limit	MPR	
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)	
30	QPSK	1	1	21.90	21.92	21.92	23.0	0.0	
Channel				630668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	1	21.98	21.93	21.95	23.0	0.0	

Part27Q n77 PC2 Ant 7									
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					3500.01				
Frequency (MHz)									
100	PI2 BPSK	1	1		24.62				
100	PI2 BPSK	1	137		24.94		26.0	0.0	
100	PI2 BPSK	1	271		25.01				
100	PI2 BPSK	135	0		24.36		25.5	0.5	
100	PI2 BPSK	135	69		25.04		26.0	0.0	
100	PI2 BPSK	135	138		24.61		25.5	0.5	
100	PI2 BPSK	270	0		24.56				
100	QPSK	1	1		25.08				
100	QPSK	1	137		24.53		26.0	0.0	
100	QPSK	1	271		25.03				
100	QPSK	135	0		23.88		25.0	1.0	
100	QPSK	135	69		25.04		26.0	0.0	
100	QPSK	135	138		24.12		25.0	1.0	
100	QPSK	270	0		24.02				
100	16QAM	1	1		23.34		25.0	1.0	
100	64QAM	1	1		21.87		23.5	2.5	
100	256QAM	1	1		20.46		21.5	4.5	
Channel				632668	633334	634800	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	1	24.97	25.02	24.99	26.0	0.0	
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	1	24.94	24.99	24.94	23.0	0.0	
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3476.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	1	24.88	24.89	24.92	26.0	0.0	
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	1	24.91	24.91	24.89	26.0	0.0	
Channel				631000	633334	635668	Tune-up limit	MPR	
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)	
30	QPSK	1	1	24.93	24.96	24.85	26.0	0.0	
Channel				630668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	1	24.85	24.97	24.96	26.0	0.0	

Part270 n78 Ant 7										
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)										
100	PI2 BPSK	1	1	21.41	21.41					
100	PI2 BPSK	1	137	21.29	21.29		23.0	0.0		
100	PI2 BPSK	1	271	21.18	21.18		23.0	0.0		
100	PI2 BPSK	135	0	21.42	21.42		23.0	0.0		
100	PI2 BPSK	135	69	21.38	21.38		23.0	0.0		
100	PI2 BPSK	135	138	21.33	21.33		23.0	0.0		
100	PI2 BPSK	270	0	21.41	21.41		23.0	0.0		
100	QPSK	1	1	21.46	21.46		23.0	0.0		
100	QPSK	1	137	21.27	21.27		23.0	0.0		
100	QPSK	1	271	21.17	21.17		23.0	0.0		
100	QPSK	135	0	21.40	21.40		23.0	0.0		
100	QPSK	135	69	21.42	21.42		23.0	0.0		
100	QPSK	135	138	21.31	21.31		23.0	0.0		
100	QPSK	270	0	21.37	21.37		23.0	0.0		
100	16QAM	1	1	21.19	21.19		23.0	0.0		
100	16QAM	1	1	21.20	21.20		23.0	0.0		
100	256QAM	1	1	20.31	20.31		21.5	1.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	21.38	21.42	21.37	23.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	21.37	21.39	21.25	23.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	21.31	21.40	21.30	23.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	21.32	21.39	21.34	23.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.32	21.28	21.31	23.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	21.28	21.31	21.32	23.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	21.36	21.39	21.32	23.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	21.32	21.41	21.27	23.0	0.0		

Part270 n78 PC2 Ant 7										
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)										
100	PI2 BPSK	1	1	24.45	24.45					
100	PI2 BPSK	1	137	24.32	24.32		26.0	0.0		
100	PI2 BPSK	1	271	24.13	24.13		25.5	0.5		
100	PI2 BPSK	135	0	23.93	23.93		26.0	0.0		
100	PI2 BPSK	135	69	24.40	24.40		25.5	0.5		
100	PI2 BPSK	135	138	23.85	23.85		26.0	0.0		
100	PI2 BPSK	270	0	23.93	23.93		26.0	0.0		
100	QPSK	1	1	24.46	24.46		26.0	0.0		
100	QPSK	1	137	24.28	24.28		26.0	0.0		
100	QPSK	1	271	24.13	24.13		25.0	1.0		
100	QPSK	135	0	23.44	23.44		26.0	0.0		
100	QPSK	135	69	24.42	24.42		25.0	1.0		
100	QPSK	135	138	23.33	23.33		25.0	1.0		
100	QPSK	270	0	23.38	23.38		25.0	1.0		
100	16QAM	1	1	23.20	23.20		25.0	1.0		
100	16QAM	1	1	21.75	21.75		23.5	2.5		
100	256QAM	1	1	20.38	20.38		21.5	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	24.32	24.35	24.31	26.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	24.17	24.32	24.19	26.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	24.19	24.29	24.25	26.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	24.22	24.28	24.18	26.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	24.18	24.33	24.25	26.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	24.29	24.30	24.26	26.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	24.23	24.28	24.19	26.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	24.26	24.32	24.29	26.0	0.0		

Part27Q n78 Ant 7										
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)										
100	PI2 BPSK	1	1	21.63	21.63					
100	PI2 BPSK	1	137	21.85	21.85		23.0	0.0		
100	PI2 BPSK	1	271	22.04	22.04		23.0	0.0		
100	PI2 BPSK	135	0	21.81	21.81		23.0	0.0		
100	PI2 BPSK	135	69	21.95	21.95		23.0	0.0		
100	PI2 BPSK	135	138	22.04	22.04		23.0	0.0		
100	PI2 BPSK	270	0	22.00	22.00		23.0	0.0		
100	QPSK	1	1	22.06	22.06		23.0	0.0		
100	QPSK	1	137	21.85	21.85		23.0	0.0		
100	QPSK	1	271	22.03	22.03		23.0	0.0		
100	QPSK	135	0	21.82	21.82		23.0	0.0		
100	QPSK	135	69	22.01	22.01		23.0	0.0		
100	QPSK	135	138	22.06	22.06		23.0	0.0		
100	QPSK	270	0	21.95	21.95		23.0	0.0		
100	16QAM	1	1	21.39	21.39		23.0	0.0		
100	16QAM	1	1	21.40	21.40		23.0	0.0		
100	256QAM	1	1	20.50	20.50		21.5	1.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	21.96	22.03	21.93	23.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	21.91	22.00	21.85	23.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	21.82	21.95	21.78	23.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	21.91	21.89	21.89	23.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.94	21.89	21.86	23.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	21.95	21.89	21.89	23.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	21.92	21.92	21.87	23.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	21.83	21.94	21.80	23.0	0.0		

Part27Q n78 PC2 Ant 7									
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				633900	633332	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3505.02			
100	PI/2 BPSK	1	1		24.04				
100	PI/2 BPSK	1	137		24.91		26.0	0.0	
100	PI/2 BPSK	1	271		25.01				
100	PI/2 BPSK	135	0		24.33		25.5	0.5	
100	PI/2 BPSK	135	69		24.99		26.0	0.0	
100	PI/2 BPSK	135	138		24.56				
100	PI/2 BPSK	270	0		24.50				
100	QPSK	1	1		25.06				
100	QPSK	1	137		24.02		26.0	0.0	
100	QPSK	1	271		25.07				
100	QPSK	135	0		24.85		25.0	1.0	
100	QPSK	135	69		25.01		26.0	0.0	
100	QPSK	135	138		24.07				
100	QPSK	270	0		23.06		25.0	1.0	
100	16QAM	1	1		23.37		25.0	1.0	
100	64QAM	1	1		21.90		23.5	2.5	
100	256QAM	1	1		20.50		21.5	4.5	
Channel				633900	633332	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3505.02			
90	QPSK	1	1	24.93	25.02	24.91	26.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	24.80	24.90	24.70	26.0	0.0	
Channel				632334	633332	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3486.01	3499.98	3515.01			
70	QPSK	1	1	24.87	24.93	24.79	26.0	0.0	
Channel				632000	633332	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3520.02			
60	QPSK	1	1	24.92	24.93	24.84	26.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	24.88	24.97	24.87	26.0	0.0	
Channel				631334	633332	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3530.01			
40	QPSK	1	1	24.83	25.00	24.77	26.0	0.0	
Channel				631000	633332	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3535.02			
30	QPSK	1	1	24.81	24.99	24.77	26.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	24.85	25.01	24.86	26.0	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	18.33	18.38	18.28			
100	PI2 BPSK	1	137	17.93	17.97	17.92		0.0	
100	PI2 BPSK	1	271	17.45	17.58	17.66			
100	PI2 BPSK	135	0	17.95	18.01	17.94	19.0	0.0	
100	PI2 BPSK	135	69	17.84	17.95	17.86	19.0	0.0	
100	PI2 BPSK	135	138	17.88	17.90	17.83	19.0	0.0	
100	PI2 BPSK	270	0	17.77	17.88	17.84			
100	QPSK	1	1	18.87	18.93	18.87			
100	QPSK	1	137	17.78	17.92	17.77	19.0	0.0	
100	QPSK	1	271	17.43	17.58	17.54			
100	QPSK	135	0	17.89	17.92	18.01	19.0	0.0	
100	QPSK	135	69	17.81	18.03	17.77	19.0	0.0	
100	QPSK	135	138	17.76	17.85	17.81	19.0	0.0	
100	QPSK	270	0	17.81	17.85	17.77			
100	16QAM	1	1	17.78	17.82	17.71	19.0	0.0	
100	16QAM	1	1	17.76	17.81	17.70	19.0	0.0	
100	256QAM	1	1	18.85	18.94	18.84	17.5	1.5	
Channel									
Frequency (MHz)				50320	51859	53598	Tune-up limit (dB)	MPR (dB)	
90	QPSK	1	1	18.84	18.89	18.74	19.0	0.0	
Channel									
Frequency (MHz)				507204	518598	529998	Tune-up limit (dB)	MPR (dB)	
80	QPSK	1	1	18.77	18.83	18.88	19.0	0.0	
Channel									
Frequency (MHz)				505200	518598	531998	Tune-up limit (dB)	MPR (dB)	
60	QPSK	1	1	18.77	18.88	18.78	19.0	0.0	
Channel									
Frequency (MHz)				504204	518598	532998	Tune-up limit (dB)	MPR (dB)	
50	QPSK	1	1	18.72	18.84	18.72	19.0	0.0	
Channel									
Frequency (MHz)				503202	518598	534000	Tune-up limit (dB)	MPR (dB)	
40	QPSK	1	1	18.81	18.92	18.73	19.0	0.0	
Channel									
Frequency (MHz)				50220	51859	53498	Tune-up limit (dB)	MPR (dB)	
30	QPSK	1	1	18.73	18.79	18.73	19.0	0.0	
Channel									
Frequency (MHz)				501204	518598	535998	Tune-up limit (dB)	MPR (dB)	
20	QPSK	1	1	18.74	18.83	18.77	19.0	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	21.58	21.71	21.57			
100	PI2 BPSK	1	137	21.23	21.38	21.30	22.0	0.0	
100	PI2 BPSK	1	271	21.53	21.57	21.48			
100	PI2 BPSK	135	0	21.10	21.21	21.15	21.5	0.5	
100	PI2 BPSK	135	69	21.48	21.50	21.48	22.0	0.0	
100	PI2 BPSK	135	138	21.00	21.05	20.93	21.5	0.5	
100	PI2 BPSK	270	0	20.89	20.92	20.78			
100	QPSK	1	1	21.96	21.72	21.88			
100	QPSK	1	137	21.29	21.35	21.21	22.0	0.0	
100	QPSK	1	271	21.35	21.46	21.37			
100	QPSK	135	0	20.81	20.67	20.53	21.0	1.0	
100	QPSK	135	69	21.37	21.45	21.42	22.0	0.0	
100	QPSK	135	138	20.49	20.50	20.39	21.0	1.0	
100	QPSK	270	0	20.29	20.40	20.38			
100	16QAM	1	1	20.30	20.33	20.25	21.0	1.0	
100	16QAM	1	1	18.74	18.78	18.76	19.5	2.5	
100	256QAM	1	1	17.23	17.37	17.24	17.5	4.5	
Channel									
Frequency (MHz)				50320	51859	53598	Tune-up limit (dB)	MPR (dB)	
90	QPSK	1	1	21.52	21.62	21.44	22.0	0.0	
Channel									
Frequency (MHz)				507204	518598	529998	Tune-up limit (dB)	MPR (dB)	
80	QPSK	1	1	21.83	21.70	21.50	22.0	0.0	
Channel									
Frequency (MHz)				505200	518598	531998	Tune-up limit (dB)	MPR (dB)	
60	QPSK	1	1	21.52	21.59	21.55	22.0	0.0	
Channel									
Frequency (MHz)				504204	518598	532998	Tune-up limit (dB)	MPR (dB)	
50	QPSK	1	1	21.99	21.71	21.53	22.0	0.0	
Channel									
Frequency (MHz)				503202	518598	534000	Tune-up limit (dB)	MPR (dB)	
40	QPSK	1	1	21.80	21.58	21.50	22.0	0.0	
Channel									
Frequency (MHz)				50220	51859	53498	Tune-up limit (dB)	MPR (dB)	
30	QPSK	1	1	21.17	21.84	21.50	22.0	0.0	
Channel									
Frequency (MHz)				501204	518598	535998	Tune-up limit (dB)	MPR (dB)	
20	QPSK	1	1	21.83	21.70	21.47	22.0	0.0	

Part270 n77 Ant 8									
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)				3750	3840	3930			
100	PI2 BPSK	1	1	17.25	17.40	17.31			
100	PI2 BPSK	1	137	17.16	17.18	17.12	19.0	0.0	
100	PI2 BPSK	1	271	17.15	17.27	17.13			
100	PI2 BPSK	135	0	17.28	17.33	17.18	19.0	0.0	
100	PI2 BPSK	135	69	17.17	17.24	17.11	19.0	0.0	
100	PI2 BPSK	135	138	17.24	17.27	17.18	19.0	0.0	
100	PI2 BPSK	270	0	17.28	17.28	17.14			
100	QPSK	1	1	17.70	17.89	17.81			
100	QPSK	1	137	17.02	17.14	17.04	19.0	0.0	
100	QPSK	1	271	17.23	17.29	17.26			
100	QPSK	135	0	17.31	17.23	17.29	19.0	0.0	
100	QPSK	135	69	17.41	17.52	17.40	19.0	0.0	
100	QPSK	135	138	17.33	17.26	17.36	19.0	0.0	
100	QPSK	270	0	17.30	17.40	17.36			
100	16QAM	1	1	17.08	17.14	17.10	19.0	0.0	
100	16QAM	1	1	17.05	17.12	17.06	19.0	0.0	
100	256QAM	1	1	18.10	18.23	18.21	17.5	1.5	
Channel									
Frequency (MHz)				645334	650000	655666	Tune-up limit (dB)	MPR (dB)	
80	QPSK	1	1	17.64	17.81	17.68	19.0	0.0	
Channel									
Frequency (MHz)				646668	650000	653334	Tune-up limit (dB)	MPR (dB)	
60	QPSK	1	1	17.56	17.74	17.73	19.0	0.0	
Channel									
Frequency (MHz)				648334	650000	653666	Tune-up limit (dB)	MPR (dB)	
50	QPSK	1	1	17.80	17.77	17.78	19.0	0.0	
Channel									
Frequency (MHz)				648000	650000	654000	Tune-up limit (dB)	MPR (dB)	
40	QPSK	1	1	17.66	17.75	17.68	19.0	0.0	
Channel									
Frequency (MHz)				647668	650000	654334	Tune-up limit (dB)	MPR (dB)	
30	QPSK	1	1	17.61	17.70	17.74	19.0	0.0	
Channel									
Frequency (MHz)				3750	3840	3930	Tune-up limit (dB)	MPR (dB)	
20	QPSK	1	1	17.58	17.79	17.75	19.0	0.0	



Part270 n77 PC2 Ant 8									
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)				3750	3840	3930			
100	PI2 BPSK	1	1	20.21	20.27	20.17			
100	PI2 BPSK	1	137	20.06	20.12	20.04	22.0	0.0	
100	PI2 BPSK	1	271	20.19	20.22	20.19			
100	PI2 BPSK	135	0	19.71	19.80	19.87	21.5	0.5	
100	PI2 BPSK	135	69	20.19	20.29	20.18	22.0	0.0	
100	PI2 BPSK	135	138	19.71	19.80	19.72	21.5	0.5	
100	PI2 BPSK	270	0	19.89	19.81	19.78			
100	QPSK	1	1	20.65	20.83	20.85			
100	QPSK	1	137	20.08	20.10	20.09	22.0	0.0	
100	QPSK	1	271	20.09	20.20	20.06			
100	QPSK	135	0	19.41	19.52	19.48	21.0	1.0	
100	QPSK	135	69	20.39	20.51	20.41	22.0	0.0	
100	QPSK	135	138	19.31	19.41	19.36	21.0	1.0	
100	QPSK	270	0	19.36	19.41	19.36			
100	16QAM	1	1	19.08	19.10	19.02	21.0	1.0	
100	64QAM	1	1	17.57	17.61	17.58	19.5	2.5	
100	256QAM	1	1	16.26	16.28	16.28	17.5	4.5	
Channel									
Frequency (MHz)				63334	63500	63666			
80	QPSK	1	1	20.59	20.62	20.51	22.0	0.0	
Channel									
Frequency (MHz)				64868	65000	65334			
60	QPSK	1	1	20.04	20.59	20.53	22.0	0.0	
Channel									
Frequency (MHz)				64334	65500	66368			
50	QPSK	1	1	20.56	20.68	20.80	22.0	0.0	
Channel									
Frequency (MHz)				64800	65500	66400			
40	QPSK	1	1	20.63	20.68	20.81	22.0	0.0	
Channel									
Frequency (MHz)				64768	65500	66434			
30	QPSK	1	1	20.81	20.62	20.57	22.0	0.0	
Channel									
Frequency (MHz)				64334	65000	65334			
20	QPSK	1	1	20.51	20.57	20.84	22.0	0.0	

Part27Q n77 Ant 8									
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)				3500.01					
100	PI2 BPSK	1	1		17.09				
100	PI2 BPSK	1	137		17.67		19.0	0.0	
100	PI2 BPSK	1	271		18.01				
100	PI2 BPSK	135	0		17.40		19.0	0.0	
100	PI2 BPSK	135	69		17.70		19.0	0.0	
100	PI2 BPSK	135	138		17.90		19.0	0.0	
100	PI2 BPSK	270	0		17.88				
100	QPSK	1	1		18.05				
100	QPSK	1	137		17.89		19.0	0.0	
100	QPSK	1	271		18.02				
100	QPSK	135	0		17.40		19.0	0.0	
100	QPSK	135	69		17.90		19.0	0.0	
100	QPSK	135	138		17.83		19.0	0.0	
100	QPSK	270	0		17.89				
100	16QAM	1	1		16.84		18.0	1.0	
100	64QAM	1	1		16.87		18.0	1.0	
100	256QAM	1	1		15.95		17.5	1.5	
Channel									
Frequency (MHz)				63288	63334	63400			
80	QPSK	1	1	17.99	18.03	17.92	19.0	0.0	
Channel									
Frequency (MHz)				63200	63334	63468			
60	QPSK	1	1	17.67	17.53	17.83	19.0	0.0	
Channel									
Frequency (MHz)				63168	63334	63500			
50	QPSK	1	1	17.93	17.96	17.91	19.0	0.0	
Channel									
Frequency (MHz)				63134	63334	63534			
40	QPSK	1	1	17.98	17.89	17.77	19.0	0.0	
Channel									
Frequency (MHz)				63100	63334	63568			
30	QPSK	1	1	17.63	17.96	17.79	19.0	0.0	
Channel									
Frequency (MHz)				3480.02	3500.01	3540			
20	QPSK	1	1	17.95	17.92	17.77	19.0	0.0	

Part27Q n77 PC2 Ant 8									
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)				3500.01					
100	PI2 BPSK	1	1		20.11				
100	PI2 BPSK	1	137		20.64		22.0	0.0	
100	PI2 BPSK	1	271		21.00				
100	PI2 BPSK	135	0		19.93		21.5	0.5	
100	PI2 BPSK	135	69		20.80		22.0	0.0	
100	PI2 BPSK	135	138		20.48		21.5	0.5	
100	PI2 BPSK	270	0		20.34				
100	QPSK	1	1		21.07				
100	QPSK	1	137		20.84		22.0	0.0	
100	QPSK	1	271		21.00				
100	QPSK	135	0		19.45		21.0	1.0	
100	QPSK	135	69		20.80		22.0	0.0	
100	QPSK	135	138		20.92		21.0	1.0	
100	QPSK	270	0		19.75				
100	16QAM	1	1		18.84		20.0	2.0	
100	64QAM	1	1		17.61		19.5	2.5	
100	256QAM	1	1		16.12		17.5	4.5	
Channel									
Frequency (MHz)				63868	63334	63400			
80	QPSK	1	1	20.92	20.95	20.91	22.0	0.0	
Channel									
Frequency (MHz)				63200	63334	63468			
60	QPSK	1	1	20.82	20.90	20.84	22.0	0.0	
Channel									
Frequency (MHz)				63168	63334	63500			
50	QPSK	1	1	20.83	20.80	20.82	22.0	0.0	
Channel									
Frequency (MHz)				63134	63334	63534			
40	QPSK	1	1	20.88	20.80	20.81	22.0	0.0	
Channel									
Frequency (MHz)				63100	63334	63568			
30	QPSK	1	1	20.79	20.84	20.80	22.0	0.0	
Channel									
Frequency (MHz)				63868	63334	63500			
20	QPSK	1	1	20.81	20.85	20.86	22.0	0.0	



Part270 n78 Ant 8									
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)				3750	3750	3750			
100	PI2 BPSK	1	1	17.77	17.77	17.77			
100	PI2 BPSK	1	137	17.65	17.65	17.65	19.0	0.0	
100	PI2 BPSK	1	271	17.44	17.44	17.44	19.0	0.0	
100	PI2 BPSK	135	0	17.75	17.75	17.75	19.0	0.0	
100	PI2 BPSK	135	69	17.69	17.69	17.69	19.0	0.0	
100	PI2 BPSK	135	138	17.60	17.60	17.60	19.0	0.0	
100	PI2 BPSK	270	0	17.72	17.72	17.72	19.0	0.0	
100	QPSK	1	1	17.85	17.85	17.85	19.0	0.0	
100	QPSK	1	137	17.65	17.65	17.65	19.0	0.0	
100	QPSK	1	271	17.46	17.46	17.46	19.0	0.0	
100	QPSK	135	0	17.70	17.70	17.70	19.0	0.0	
100	QPSK	135	69	17.75	17.75	17.75	19.0	0.0	
100	QPSK	135	138	17.59	17.59	17.59	19.0	0.0	
100	QPSK	270	0	17.71	17.71	17.71	19.0	0.0	
100	16QAM	1	1	17.81	17.81	17.81	19.0	0.0	
100	64QAM	1	1	17.58	17.58	17.58	19.0	0.0	
100	256QAM	1	1	18.70	18.70	18.70	17.5	1.5	
Channel				649868	650000	650334	Tune-up limit (dB)	MPR	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	17.82	17.81	17.83	19.0	0.0	
Channel									
Frequency (MHz)				649334	650000	650668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	17.69	17.72	17.52	19.0	0.0	
Channel									
Frequency (MHz)				649000	650000	651000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	17.76	17.77	17.78	19.0	0.0	
Channel									
Frequency (MHz)				648668	650000	651334	Tune-up limit (dB)	MPR	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	17.78	17.83	17.72	19.0	0.0	
Channel									
Frequency (MHz)				648334	650000	651668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	17.76	17.73	17.79	19.0	0.0	
Channel									
Frequency (MHz)				648000	650000	652000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	17.75	17.74	17.89	19.0	0.0	
Channel									
Frequency (MHz)				647668	650000	652334	Tune-up limit (dB)	MPR	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	17.77	17.74	17.81	19.0	0.0	
Channel									
Frequency (MHz)				647334	650000	652668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	17.81	17.84	17.88	19.0	0.0	

Part270 n78 PC2 Ant 8									
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)				3750	3750	3750			
100	PI2 BPSK	1	1	20.81	20.81	20.81	22.0	0.0	
100	PI2 BPSK	1	137	20.57	20.57	20.57	22.0	0.0	
100	PI2 BPSK	1	271	20.36	20.36	20.36	21.5	0.5	
100	PI2 BPSK	135	0	20.24	20.24	20.24	22.0	0.0	
100	PI2 BPSK	135	69	20.70	20.70	20.70	22.0	0.0	
100	PI2 BPSK	135	138	20.11	20.11	20.11	21.5	0.5	
100	PI2 BPSK	270	0	20.21	20.21	20.21	22.0	0.0	
100	QPSK	1	1	20.82	20.82	20.82	22.0	0.0	
100	QPSK	1	137	20.56	20.56	20.56	22.0	0.0	
100	QPSK	1	271	20.38	20.38	20.38	21.0	1.0	
100	QPSK	135	0	19.72	19.72	19.72	22.0	0.0	
100	QPSK	135	69	20.73	20.73	20.73	21.0	1.0	
100	QPSK	135	138	19.60	19.60	19.60	21.0	1.0	
100	QPSK	270	0	19.69	19.69	19.69	21.0	1.0	
100	16QAM	1	1	19.57	19.57	19.57	21.0	1.0	
100	64QAM	1	1	18.11	18.11	18.11	19.5	2.5	
100	256QAM	1	1	18.70	18.70	18.70	17.5	4.5	
Channel				649868	650000	650334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	20.71	20.76	20.72	22.0	0.0	
Channel									
Frequency (MHz)				649334	650000	650668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	20.09	20.67	20.69	22.0	0.0	
Channel									
Frequency (MHz)				649000	650000	651000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	20.57	20.71	20.65	22.0	0.0	
Channel									
Frequency (MHz)				648668	650000	651334	Tune-up limit (dB)	MPR	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	20.58	20.65	20.64	22.0	0.0	
Channel									
Frequency (MHz)				648334	650000	651668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	20.65	20.73	20.86	22.0	0.0	
Channel									
Frequency (MHz)				648000	650000	652000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	20.80	20.74	20.87	22.0	0.0	
Channel									
Frequency (MHz)				647668	650000	652334	Tune-up limit (dB)	MPR	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	20.57	20.69	20.65	22.0	0.0	
Channel									
Frequency (MHz)				647334	650000	652668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	20.57	20.62	20.62	22.0	0.0	

Part27Q n78 Ant 8									
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)				3499.98	3499.98	3499.98			
100	PI2 BPSK	1	1	17.05	17.05	17.05	19.0	0.0	
100	PI2 BPSK	1	137	17.25	17.25	17.25	19.0	0.0	
100	PI2 BPSK	1	271	17.90	17.90	17.90	19.0	0.0	
100	PI2 BPSK	135	0	17.35	17.35	17.35	19.0	0.0	
100	PI2 BPSK	135	69	17.64	17.64	17.64	19.0	0.0	
100	PI2 BPSK	135	138	17.84	17.84	17.84	19.0	0.0	
100	PI2 BPSK	270	0	17.64	17.64	17.64	19.0	0.0	
100	QPSK	1	1	17.98	17.98	17.98	19.0	0.0	
100	QPSK	1	137	17.58	17.58	17.58	19.0	0.0	
100	QPSK	1	271	17.97	17.97	17.97	19.0	0.0	
100	QPSK	135	0	17.38	17.38	17.38	19.0	0.0	
100	QPSK	135	69	17.85	17.85	17.85	19.0	0.0	
100	QPSK	135	138	17.73	17.73	17.73	19.0	0.0	
100	QPSK	270	0	17.64	17.64	17.64	19.0	0.0	
100	16QAM	1	1	16.81	16.81	16.81	18.0	1.0	
100	64QAM	1	1	16.86	16.86	16.86	18.0	1.0	
100	256QAM	1	1	15.95	15.95	15.95	17.5	1.5	
Channel				633000	633332	633668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3495	3499.98	3500.02			
90	QPSK	1	1	17.86	17.92	17.88	19.0	0.0	
Channel									
Frequency (MHz)				632668	633332	634000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3490.02	3499.98	3500.02			
80	QPSK	1	1	17.74	17.77	17.73	19.0	0.0	
Channel									
Frequency (MHz)				632334	633332	634334	Tune-up limit (dB)	MPR	
Frequency (MHz)				3485.01	3499.98	3505.01			
70	QPSK	1	1	17.81	17.80	17.81	19.0	0.0	
Channel									
Frequency (MHz)				632000	633332	634668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3480	3499.98	3509.02			
60	QPSK	1	1	17.76	17.88	17.74	19.0	0.0	
Channel									
Frequency (MHz)				631668	633332	635000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3475.02	3499.98	3505			
50	QPSK	1	1	17.83	17.85	17.75	19.0	0.0	
Channel									
Frequency (MHz)				631334	633332	635334	Tune-up limit (dB)	MPR	
Frequency (MHz)				3470.01	3499.98	3500.01			
40	QPSK	1	1	17.82	17.90	17.86	19.0	0.0	
Channel									
Frequency (MHz)				631000	633332	635668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3465	3499.98	3507.02			
30	QPSK	1	1	17.85	17.70	17.89	19.0	0.0	
Channel									
Frequency (MHz)				630668	633332	636000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3460.02	3499.98	3504			
20	QPSK	1	1	17.78	17.83	17.77	19.0	0.0	

Part27Q n78 PC2 Ant 8									
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				633332					
Frequency (MHz)				3499.98					
100	PI/2 BPSK	1	1		20.18				
100	PI/2 BPSK	1	137		20.81		22.0	0.0	
100	PI/2 BPSK	1	271		21.00				
100	PI/2 BPSK	135	0		19.89		21.5	0.5	
100	PI/2 BPSK	135	69		20.72		22.0	0.0	
100	PI/2 BPSK	135	138		20.46				
100	PI/2 BPSK	270	0		20.27				
100	QPSK	1	1		21.05				
100	QPSK	1	137		20.81		22.0	0.0	
100	QPSK	1	271		21.02				
100	QPSK	135	0		19.43		21.0	1.0	
100	QPSK	135	69		20.77		22.0	0.0	
100	QPSK	135	138		19.93				
100	QPSK	270	0		19.80		21.0	1.0	
100	16QAM	1	1		19.01		21.0	1.0	
100	64QAM	1	1		17.45		18.5	-3.5	
100	256QAM	1	1		16.05		17.5	-4.5	
Channel				633900	633332	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3505.02			
90	QPSK	1	1	20.96	21.03	20.92	22.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	20.07	20.97	20.83	22.0	0.0	
Channel				632334	633332	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3486.01	3499.98	3515.01			
70	QPSK	1	1	20.84	20.91	20.81	22.0	0.0	
Channel				632000	633332	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3520.02			
60	QPSK	1	1	20.82	20.96	20.80	22.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	20.85	20.94	20.80	22.0	0.0	
Channel				631334	633332	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3530.01			
40	QPSK	1	1	20.86	20.88	20.89	22.0	0.0	
Channel				631000	633332	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3535.02			
30	QPSK	1	1	20.81	20.88	20.83	22.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	20.94	20.99	20.83	22.0	0.0	



n2 Ant 4									
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				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	12.28	12.40	12.35			
20	PI2 BPSK	1	53	12.35	12.37	12.42	13.5	0.0	
20	PI2 BPSK	1	104	12.46	12.54	12.37			
20	PI2 BPSK	50	0	12.30	12.44	12.34	13.5	0.0	
20	PI2 BPSK	50	28	12.42	12.57	12.45	13.5	0.0	
20	PI2 BPSK	50	56	12.47	12.44	12.34	13.5	0.0	
20	PI2 BPSK	100	0	12.55	12.50	12.30			
20	QPSK	1	1	12.49	12.61	12.52			
20	QPSK	1	53	12.46	12.46	12.32	13.5	0.0	
20	QPSK	1	104	12.40	12.49	12.26			
20	QPSK	50	0	12.49	12.46	12.49	13.5	0.0	
20	QPSK	50	28	12.54	12.55	12.30	13.5	0.0	
20	QPSK	50	56	12.43	12.50	12.32	13.5	0.0	
20	QPSK	100	0	12.49	12.52	12.37			
20	16QAM	1	1	12.24	12.44	12.29	13.5	0.0	
20	16QAM	1	1	12.34	12.55	12.41	13.5	0.0	
20	256QAM	1	1	12.50	12.50	12.33	13.5	0.0	
Channel				371500	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	12.47	12.47	12.34	13.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	12.46	12.51	12.33	13.5	0.0	
Channel				370500	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	12.52	12.53	12.29	13.5	0.0	

Reduced Power Mode for Sensor On									
n5 Ant 4									
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				168800	167300	167800			
Frequency (MHz)				834	838.5	839			
20	PI2 BPSK	1	1	11.93	11.97	11.96			
20	PI2 BPSK	1	53	12.03	12.15	12.13	13.0	0.0	
20	PI2 BPSK	1	104	11.97	12.00	11.83			
20	PI2 BPSK	50	0	11.97	12.03	11.99	13.0	0.0	
20	PI2 BPSK	50	28	11.96	12.14	12.09	13.0	0.0	
20	PI2 BPSK	50	56	11.94	12.01	11.85	13.0	0.0	
20	PI2 BPSK	100	0	11.97	12.02	12.03			
20	QPSK	1	1	11.89	12.16	11.99			
20	QPSK	1	53	11.95	12.08	12.05	13.0	0.0	
20	QPSK	1	104	11.88	11.98	11.84			
20	QPSK	50	0	11.92	11.98	11.95	13.0	0.0	
20	QPSK	50	28	11.97	12.13	12.11	13.0	0.0	
20	QPSK	50	56	11.93	11.95	11.86	13.0	0.0	
20	QPSK	100	0	11.94	12.11	12.03			
20	16QAM	1	1	11.93	11.96	11.90	13.0	0.0	
20	16QAM	1	1	11.96	12.15	12.12	13.0	0.0	
20	256QAM	1	1	11.87	11.91	11.83	13.0	0.0	
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	838.5	841.5			
15	QPSK	1	1	11.95	12.03	12.02	13.0	0.0	
Channel				168800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				839	838.5	841			
10	QPSK	1	1	11.87	12.05	12.01	13.0	0.0	
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				836.5	836.5	846.5			
5	QPSK	1	1	11.95	12.05	12.08	13.0	0.0	

n7 Ant 4									
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				502000	507000	512000			
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	9.86	9.75	9.55			
20	PI2 BPSK	1	53	9.79	9.86	9.66	11.0	0.0	
20	PI2 BPSK	1	104	9.57	9.75	9.67			
20	PI2 BPSK	50	0	9.80	9.77	9.62	11.0	0.0	
20	PI2 BPSK	50	28	9.78	9.86	9.69	11.0	0.0	
20	PI2 BPSK	50	56	9.60	9.84	9.66	11.0	0.0	
20	PI2 BPSK	100	0	9.77	9.83	9.72			
20	QPSK	1	1	9.71	9.98	9.85			
20	QPSK	1	53	9.86	9.86	9.70	11.0	0.0	
20	QPSK	1	104	9.59	9.70	9.71			
20	QPSK	50	0	9.81	9.78	9.58	11.0	0.0	
20	QPSK	50	28	9.68	9.94	9.70	11.0	0.0	
20	QPSK	50	56	9.66	9.84	9.69	11.0	0.0	
20	QPSK	100	0	9.81	9.86	9.78			
20	16QAM	1	1	9.80	9.78	9.66	11.0	0.0	
20	16QAM	1	1	9.79	9.87	9.66	11.0	0.0	
20	256QAM	1	1	9.64	9.81	9.77	11.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2538	2562.5			
15	QPSK	1	1	9.86	9.82	9.73	11.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2538	2565			
10	QPSK	1	1	9.84	9.80	9.71	11.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2536	2567.5			
5	QPSK	1	1	9.78	9.84	9.73	11.0	0.0	

n26 Ant 4									
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				164800	166300	167800			
Frequency (MHz)				824	831.5	839			
20	Pi/2 BPSK	1	1	15.83	15.93	15.94			
20	Pi/2 BPSK	1	53	15.98	16.00	15.99	17.0	0.0	
20	Pi/2 BPSK	1	104	15.95	15.93	15.97			
20	Pi/2 BPSK	50	0	15.88	16.01	15.91	17.0	0.0	
20	Pi/2 BPSK	50	28	15.98	16.11	15.97	17.0	0.0	
20	Pi/2 BPSK	50	86	15.99	15.98	15.91	17.0	0.0	
20	Pi/2 BPSK	100	0	15.95	16.00	15.92			
20	QPSK	1	1	15.98	16.14	16.12			
20	QPSK	1	53	15.95	16.06	15.98	17.0	0.0	
20	QPSK	1	104	15.84	15.89	15.96			
20	QPSK	50	0	15.91	15.97	15.96	17.0	0.0	
20	QPSK	50	28	15.92	16.01	15.96	17.0	0.0	
20	QPSK	50	56	15.97	15.97	16.00	17.0	0.0	
20	QPSK	100	0	15.95	16.02	15.98			
20	16QAM	1	1	15.87	16.05	15.95	17.0	0.0	
20	64QAM	1	1	15.94	16.10	16.02	17.0	0.0	
20	256QAM	1	1	15.97	15.93	15.93	17.0	0.0	
Channel				168200	169700	171200			
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	15.99	16.04	15.97	17.0	0.0	
Channel				163300	166300	168800			
Frequency (MHz)				818	831.5	844			
10	QPSK	1	1	15.99	16.02	15.91	17.0	0.0	
Channel				163300	166300	169300			
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	15.93	16.08	15.98	17.0	0.0	

n66 Ant 4									
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				345000	349000	353000			
Frequency (MHz)				1725	1745	1765			
30	Pi/2 BPSK	1	1	11.70	11.96	11.78			
30	Pi/2 BPSK	1	80	11.91	11.98	11.80	13.0	0.0	
30	Pi/2 BPSK	1	158	11.91	11.92	11.75			
30	Pi/2 BPSK	80	0	11.73	11.95	11.75	13.0	0.0	
30	Pi/2 BPSK	80	40	11.85	11.95	11.96	13.0	0.0	
30	Pi/2 BPSK	80	80	11.93	11.95	11.73	13.0	0.0	
30	Pi/2 BPSK	160	0	11.80	12.00	11.91			
30	QPSK	1	1	11.92	12.01	11.93			
30	QPSK	1	80	11.91	12.00	11.87	13.0	0.0	
30	QPSK	1	158	11.79	11.98	11.75			
30	QPSK	80	0	11.71	11.89	11.74	13.0	0.0	
30	QPSK	80	40	11.86	12.00	11.82	13.0	0.0	
30	QPSK	80	80	11.82	11.93	11.75	13.0	0.0	
30	QPSK	160	0	11.87	11.95	11.84			
30	16QAM	1	1	11.70	11.89	11.68	13.0	0.0	
30	64QAM	1	1	11.88	11.93	11.84	13.0	0.0	
30	256QAM	1	1	11.90	11.88	11.72	13.0	0.0	
Channel				349000	349000	349000			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	11.86	11.95	11.94	13.0	0.0	
Channel				343500	349000	354500			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	11.89	11.94	11.89	13.0	0.0	
Channel				343000	349000	355000			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	11.84	11.93	11.93	13.0	0.0	
Channel				342500	349000	355500			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	11.85	12.00	11.93	13.0	0.0	

n71 Ant 4									
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				134600	136100	137600			
Frequency (MHz)				673	680.5	688			
20	Pi/2 BPSK	1	1	16.83	16.76	16.89			
20	Pi/2 BPSK	1	53	16.75	16.76	16.77	18.5	0.0	
20	Pi/2 BPSK	1	104	16.67	16.68	16.57			
20	Pi/2 BPSK	50	0	16.80	16.82	16.65	18.5	0.0	
20	Pi/2 BPSK	50	28	16.89	16.75	16.78	18.5	0.0	
20	Pi/2 BPSK	50	56	16.85	16.85	16.58			
20	Pi/2 BPSK	100	0	16.85	16.77	16.64	18.5	0.0	
20	QPSK	1	1	16.89	17.29	16.99			
20	QPSK	1	53	16.78	16.73	16.74	18.5	0.0	
20	QPSK	1	104	16.77	16.78	16.67			
20	QPSK	50	0	16.73	16.80	16.84	18.5	0.0	
20	QPSK	50	28	16.85	17.10	16.80	18.5	0.0	
20	QPSK	50	56	16.79	16.67	16.64	18.5	0.0	
20	QPSK	100	0	16.83	16.82	16.60			
20	16QAM	1	1	16.80	16.84	16.76	18.5	0.0	
20	64QAM	1	1	16.56	16.68	16.61	18.5	0.0	
20	256QAM	1	1	16.71	16.61	16.59	18.5	0.0	
Channel				134100	135100	136100			
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	16.67	16.75	16.57	18.5	0.0	
Channel				133600	136100	138600			
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	16.65	16.70	16.64	18.5	0.0	
Channel				133100	136100	139100			
Frequency (MHz)				665.5	680.5	695.5			
5	QPSK	1	1	16.63	16.69	16.61	18.5	0.0	

n38 Ant 4									
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				518000	519000	520000			
Frequency (MHz)				2590	2595	2600			
40	PI/2 BPSK	1	1	13.65	13.76	13.82			
40	PI/2 BPSK	1	53	13.71	13.92	13.84	15.0	0.0	
40	PI/2 BPSK	1	104	13.83	13.90	13.83			
40	PI/2 BPSK	50	0	13.69	13.78	13.71	15.0	0.0	
40	PI/2 BPSK	50	28	13.73	13.87	13.87	15.0	0.0	
40	PI/2 BPSK	50	56	13.90	13.87	13.71			
40	PI/2 BPSK	100	0	13.88	13.84	13.80	15.0	0.0	
40	QPSK	1	1	13.86	14.00	13.80			
40	QPSK	1	53	13.83	13.89	13.77	15.0	0.0	
40	QPSK	1	104	13.88	13.87	13.78			
40	QPSK	50	0	13.70	13.92	13.85	15.0	0.0	
40	QPSK	50	28	13.91	13.96	13.89	15.0	0.0	
40	QPSK	50	56	13.82	13.83	13.72			
40	QPSK	100	0	13.91	13.83	13.82	15.0	0.0	
40	16QAM	1	1	13.66	13.70	13.72	15.0	0.0	
40	64QAM	1	1	13.74	13.95	13.85	15.0	0.0	
40	256QAM	1	1	13.86	13.83	13.78	15.0	0.0	
Channel				517000	519000	521000			
Frequency (MHz)				2585	2595	2605			
30	QPSK	1	1	13.71	13.92	13.84	15.0	0.0	
Channel				516000	519000	522000			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	13.71	13.92	13.84	15.0	0.0	

n41 PC3&PC2 Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	13.87	13.89	13.70			
100	PI/2 BPSK	1	137	13.72	13.89	13.71	15.0	0.0	
100	PI/2 BPSK	1	271	13.67	13.86	13.78			
100	PI/2 BPSK	135	0	13.83	13.90	13.74	15.0	0.0	
100	PI/2 BPSK	135	69	13.75	13.82	13.67	15.0	0.0	
100	PI/2 BPSK	135	138	13.65	13.86	13.81			
100	PI/2 BPSK	270	0	13.91	13.96	13.72	15.0	0.0	
100	QPSK	1	1	13.84	14.04	13.98			
100	QPSK	1	137	13.91	13.91	13.77	15.0	0.0	
100	QPSK	1	271	13.82	13.94	13.87			
100	QPSK	135	0	13.85	14.00	13.82	15.0	0.0	
100	QPSK	135	69	13.96	14.02	13.94	15.0	0.0	
100	QPSK	135	138	13.82	13.97	13.88			
100	QPSK	270	0	13.88	13.98	13.74	15.0	0.0	
100	16QAM	1	1	13.88	13.85	13.75	15.0	0.0	
100	64QAM	1	1	13.74	13.92	13.67	15.0	0.0	
100	256QAM	1	1	13.68	13.78	13.79	15.0	0.0	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	13.91	13.98	13.74	15.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	13.90	13.93	13.82	15.0	0.0	
Channel				506200	518598	531996			
Frequency (MHz)				2526	2592.99	2639.98			
60	QPSK	1	1	13.87	13.97	13.82	15.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	13.91	13.95	13.80	15.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	13.90	13.92	13.81	15.0	0.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	13.87	13.90	13.81	15.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	13.90	13.96	13.75	15.0	0.0	

Part270 n77 PC3&PC2 Ant 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	15.94	16.09	16.02		
100	PI2 BPSK	1	137	15.95	16.02	15.87	17.5	0.0
100	PI2 BPSK	1	271	16.09	16.24	16.11		
100	PI2 BPSK	135	0	15.85	16.06	16.04	17.5	0.0
100	PI2 BPSK	135	69	15.96	16.06	15.96	17.5	0.0
100	PI2 BPSK	135	138	16.16	16.23	16.17		
100	PI2 BPSK	270	0	16.12	16.17	16.11	17.5	0.0
100	QPSK	1	1	16.23	16.31	16.12		
100	QPSK	1	137	15.91	16.02	16.03	17.5	0.0
100	QPSK	1	271	16.12	16.22	16.09		
100	QPSK	135	0	15.85	16.04	16.02	17.5	0.0
100	QPSK	135	69	16.07	16.24	16.10	17.5	0.0
100	QPSK	135	138	16.01	16.09	15.95	17.5	0.0
100	QPSK	270	0	16.14	16.15	16.12		
100	16QAM	1	1	15.88	16.08	16.10	17.5	0.0
100	64QAM	1	1	16.04	16.02	15.90	17.5	0.0
100	256QAM	1	1	16.16	16.26	16.20	17.5	0.0
Channel				649334	659000	662668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	QPSK	1	1	16.13	16.19	16.07	17.5	0.0
Channel				649668	659000	633334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	1	16.12	16.23	16.09	17.5	0.0
Channel				648334	659000	663668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	1	16.13	16.24	16.14	17.5	0.0
Channel				649000	659000	664000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	16.11	16.17	16.04	17.5	0.0
Channel				647868	659000	664334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840	3963.01	(dBm)	(dB)
30	QPSK	1	1	16.14	16.13	16.07	17.5	0.0
Channel				647334	659000	664668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	16.07	16.21	16.04	17.5	0.0

Part27Q n77 PC3&PC2 Ant 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1		15.84			
100	PI2 BPSK	1	137		16.07		17.5	0.0
100	PI2 BPSK	1	271		16.14			
100	PI2 BPSK	135	0		15.96		17.5	0.0
100	PI2 BPSK	135	69		16.04		17.5	0.0
100	PI2 BPSK	135	138		16.18			
100	PI2 BPSK	270	0		16.21		17.5	0.0
100	QPSK	1	1		16.25			
100	QPSK	1	137		16.13		17.5	0.0
100	QPSK	1	271		16.17			
100	QPSK	135	0		15.91		17.5	0.0
100	QPSK	135	69		16.17		17.5	0.0
100	QPSK	135	138		16.15		17.5	0.0
100	QPSK	270	0		16.12			
100	16QAM	1	1		15.94		17.5	0.0
100	64QAM	1	1		16.10		17.5	0.0
100	256QAM	1	1		16.22		17.5	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	16.16	16.18	16.09	17.5	0.0
Channel				632000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	1	16.15	16.10	16.04	17.5	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	16.13	16.14	16.09	17.5	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	16.08	16.10	16.05	17.5	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3532.02	(dBm)	(dB)
30	QPSK	1	1	16.08	16.10	16.07	17.5	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	16.16	16.17	16.09	17.5	0.0

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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)				3750				
100	PI2 BPSK	1	1		15.77			
100	PI2 BPSK	1	137		15.80		17.5	0.0
100	PI2 BPSK	1	271		15.82			
100	PI2 BPSK	135	0		15.79		17.5	0.0
100	PI2 BPSK	135	69		15.77		17.5	0.0
100	PI2 BPSK	135	138		15.79			
100	PI2 BPSK	270	0		15.74		17.5	0.0
100	QPSK	1	1		16.04			
100	QPSK	1	137		15.77		17.5	0.0
100	QPSK	1	271		15.99			
100	QPSK	135	0		15.75		17.5	0.0
100	QPSK	135	69		15.88		17.5	0.0
100	QPSK	135	138		15.77		17.5	0.0
100	QPSK	270	0		15.76			
100	16QAM	1	1		15.75		17.5	0.0
100	64QAM	1	1		15.72		17.5	0.0
100	256QAM	1	1		15.79		17.5	0.0
Channel				649668	659000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	15.87	15.86	15.82	17.5	0.0
Channel				649334	659000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	15.87	15.87	15.85	17.5	0.0
Channel				649000	659000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1	15.85	15.88	15.80	17.5	0.0
Channel				648668	659000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	1	15.82	15.91	15.85	17.5	0.0
Channel				648334	659000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1	15.85	15.85	15.77	17.5	0.0
Channel				648000	659000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	15.84	15.86	15.81	17.5	0.0
Channel				647668	659000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	1	15.87	15.91	15.86	17.5	0.0
Channel				647334	659000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	15.89	15.91	15.82	17.5	0.0

Part27Q n78 PC3&PC2 Ant 3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633332	633332			
Frequency (MHz)				3499.98				
100	PV2 BPSK	1	1	15.93				
100	PV2 BPSK	1	137	15.96			17.5	0.0
100	PV2 BPSK	1	271	16.07				
100	PV2 BPSK	135	0	15.90			17.5	0.0
100	PV2 BPSK	135	69	16.03			17.5	0.0
100	PV2 BPSK	135	138	16.10				
100	PV2 BPSK	270	0	16.03			17.5	0.0
100	QPSK	1	1	16.19				
100	QPSK	1	137	16.00			17.5	0.0
100	QPSK	1	271	16.07				
100	QPSK	135	0	15.88			17.5	0.0
100	QPSK	135	69	16.07			17.5	0.0
100	QPSK	135	138	16.00				
100	QPSK	270	0	16.03			17.5	0.0
100	16QAM	1	1	15.86			17.5	0.0
100	64QAM	1	1	16.00			17.5	0.0
100	256QAM	1	1	16.05			17.5	0.0
Channel				633000	633332	633668	Tune-up limit	MPR
Frequency (MHz)				3495	3499.98	3505.02	(dBm)	(dB)
90	QPSK	1	1	16.12	16.06	15.95	17.5	0.0
Channel				632668	633332	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3499.98	3500	(dBm)	(dB)
80	QPSK	1	1	16.06	16.03	15.97	17.5	0.0
Channel				632334	633332	634334	Tune-up limit	MPR
Frequency (MHz)				3485.01	3499.98	3514.01	(dBm)	(dB)
70	QPSK	1	1	16.11	15.99	16.07	17.5	0.0
Channel				632000	633332	634668	Tune-up limit	MPR
Frequency (MHz)				3480	3499.98	3520.02	(dBm)	(dB)
60	QPSK	1	1	16.10	16.08	16.01	17.5	0.0
Channel				631668	633332	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)
50	QPSK	1	1	16.03	16.04	16.03	17.5	0.0
Channel				631334	633332	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3499.98	3530.01	(dBm)	(dB)
40	QPSK	1	1	16.08	16.09	16.05	17.5	0.0
Channel				631000	633332	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3499.98	3535.02	(dBm)	(dB)
30	QPSK	1	1	16.10	16.01	16.06	17.5	0.0
Channel				630668	633332	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)
20	QPSK	1	1	16.02	15.99	16.04	17.5	0.0

n41 PC3&PC2 Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch / Freq.	Middle Ch / Freq.	High Ch / Freq.		
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PV2 BPSK	1	1	15.40	15.64	15.46		
100	PV2 BPSK	1	137	15.38	15.37	15.52	16.0	0.0
100	PV2 BPSK	1	271	15.45	15.39	15.46		
100	PV2 BPSK	135	0	15.40	15.63	15.48	16.0	0.0
100	PV2 BPSK	135	69	15.55	15.55	15.66	16.0	0.0
100	PV2 BPSK	135	138	15.35	15.49	15.64		
100	PV2 BPSK	270	0	15.38	15.57	15.64	16.0	0.0
100	QPSK	1	1	15.53	15.69	15.52		
100	QPSK	1	137	15.47	15.35	15.36	16.0	0.0
100	QPSK	1	271	15.48	15.39	15.51		
100	QPSK	135	0	15.32	15.61	15.50	16.0	0.0
100	QPSK	135	69	15.58	15.63	15.51	16.0	0.0
100	QPSK	135	138	15.43	15.63	15.31		
100	QPSK	270	0	15.45	15.47	15.37	16.0	0.0
100	16QAM	1	1	15.33	15.54	15.56	16.0	0.0
100	64QAM	1	1	15.41	15.56	15.53	16.0	0.0
100	256QAM	1	1	15.48	15.58	15.41	16.0	0.0
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	15.46	15.64	15.35	16.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	15.41	15.52	15.39	16.0	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2525	2592.99	2659.98		
60	QPSK	1	1	15.42	15.62	15.41	16.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	15.51	15.53	15.44	16.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	15.48	15.61	15.46	16.0	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	15.41	15.65	15.35	16.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	15.35	15.53	15.42	16.0	0.0

Part270 n77 PC3&PC2 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				65000	65000	66000			
Frequency (MHz)				3750	3940	3930			
100	PI2 BPSK	1	1	13.29	13.39	13.39			
100	PI2 BPSK	1	137	13.30	13.34	13.38	15.0	0.0	
100	PI2 BPSK	1	271	13.25	13.34	13.33			
100	PI2 BPSK	135	0	13.29	13.35	13.31	15.0	0.0	
100	PI2 BPSK	135	69	13.40	13.34	13.33	15.0	0.0	
100	PI2 BPSK	135	138	13.15	13.42	13.48			
100	PI2 BPSK	270	0	13.32	13.31	13.43	15.0	0.0	
100	QPSK	1	1	13.46	13.63	13.40			
100	QPSK	1	137	13.29	13.35	13.26	15.0	0.0	
100	QPSK	1	271	13.33	13.34	13.35			
100	QPSK	135	0	13.16	13.32	13.42	15.0	0.0	
100	QPSK	135	69	13.39	13.48	13.35	15.0	0.0	
100	QPSK	135	138	13.32	13.33	13.19	15.0	0.0	
100	QPSK	270	0	13.20	13.22	13.21			
100	16QAM	1	1	13.17	13.36	13.47	15.0	0.0	
100	64QAM	1	1	13.43	13.44	13.36	15.0	0.0	
100	256QAM	1	1	13.31	13.41	13.36	15.0	0.0	
Channel				649334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	13.38	13.45	13.34	15.0	0.0	
Channel				649668	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	13.35	13.46	13.34	15.0	0.0	
Channel				648334	656000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	13.39	13.49	13.30	15.0	0.0	
Channel				649000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	13.44	13.44	13.33	15.0	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3940	3960.01	(dBm)	(dB)	
30	QPSK	1	1	13.32	13.45	13.27	15.0	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	13.34	13.50	13.31	15.0	0.0	

Part27Q n77 PC3&PC2 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				63334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	14.08					
100	PI2 BPSK	1	137	13.88			15.0	0.0	
100	PI2 BPSK	1	271	13.83					
100	PI2 BPSK	135	0	14.00			15.0	0.0	
100	PI2 BPSK	135	69	13.84			15.0	0.0	
100	PI2 BPSK	135	138	13.99					
100	PI2 BPSK	270	0	14.01			15.0	0.0	
100	QPSK	1	1	14.11					
100	QPSK	1	137	13.78			15.0	0.0	
100	QPSK	1	271	13.92					
100	QPSK	135	0	13.89			15.0	0.0	
100	QPSK	135	69	13.99			15.0	0.0	
100	QPSK	135	138	13.98			15.0	0.0	
100	QPSK	270	0	13.99					
100	16QAM	1	1	13.98			15.0	0.0	
100	64QAM	1	1	14.06			15.0	0.0	
100	256QAM	1	1	14.07			15.0	0.0	
Channel				632668	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	1	13.74	13.30	13.97	15.0	0.0	
Channel				633000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	1	13.75	13.94	13.96	15.0	0.0	
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	1	13.74	13.91	13.93	15.0	0.0	
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	1	13.68	13.99	13.99	15.0	0.0	
Channel				631000	633334	635668	Tune-up limit	MPR	
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)	
30	QPSK	1	1	13.73	13.97	13.92	15.0	0.0	
Channel				630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	1	13.75	13.90	13.94	15.0	0.0	

Part270 n78 PC3&PC2 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				65000	65000	65000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	13.96					
100	PI2 BPSK	1	137	13.34			15.0	0.0	
100	PI2 BPSK	1	271	13.35					
100	PI2 BPSK	135	0	13.57			15.0	0.0	
100	PI2 BPSK	135	69	13.44			15.0	0.0	
100	PI2 BPSK	135	138	13.50					
100	PI2 BPSK	270	0	13.37			15.0	0.0	
100	QPSK	1	1	13.61					
100	QPSK	1	137	13.30			15.0	0.0	
100	QPSK	1	271	13.26					
100	QPSK	135	0	13.40			15.0	0.0	
100	QPSK	135	69	13.54			15.0	0.0	
100	QPSK	135	138	13.44			15.0	0.0	
100	QPSK	270	0	13.42					
100	16QAM	1	1	13.46			15.0	0.0	
100	64QAM	1	1	13.47			15.0	0.0	
100	256QAM	1	1	13.38			15.0	0.0	
Channel				649668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1	13.38	13.44	13.43	15.0	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	13.30	13.39	13.37	15.0	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	13.20	13.35	13.40	15.0	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	13.40	13.46	13.34	15.0	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	13.37	13.42	13.30	15.0	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	13.33	13.41	13.37	15.0	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	13.36	13.48	13.30	15.0	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	13.30	13.35	13.43	15.0	0.0	

Part27Q n78 PC3&PC2 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				633332					
Frequency (MHz)				3499.98					
100	PV2 BPSK	1	1		13.91				
100	PV2 BPSK	1	137		13.85		15.0	0.0	
100	PV2 BPSK	1	271		13.85				
100	PV2 BPSK	135	0		13.95		15.0	0.0	
100	PV2 BPSK	135	69		13.87		15.0	0.0	
100	PV2 BPSK	135	138		13.88				
100	PV2 BPSK	270	0		13.92		15.0	0.0	
100	QPSK	1	1		14.09				
100	QPSK	1	137		13.93		15.0	0.0	
100	QPSK	1	271		13.89				
100	QPSK	135	0		13.95		15.0	0.0	
100	QPSK	135	69		13.90		15.0	0.0	
100	QPSK	135	138		13.89				
100	QPSK	270	0		13.86		15.0	0.0	
100	16QAM	1	1		14.07				
100	64QAM	1	1		13.93		15.0	0.0	
100	256QAM	1	1		14.04		15.0	0.0	
Channel				633000			633332	633668	MPR
Frequency (MHz)				3495			3499.98	3505.02	(dBm)
90	QPSK	1	1		13.98	13.94	14.04	15.0	0.0
Channel				632668			633332	634000	MPR
Frequency (MHz)				3490.02			3499.98	3510.02	(dBm)
80	QPSK	1	1		13.91	13.97	13.96	15.0	0.0
Channel				632334			633332	634334	MPR
Frequency (MHz)				3485.01			3499.98	3514.01	(dBm)
70	QPSK	1	1		13.91	13.96	14.03	15.0	0.0
Channel				632000			633332	634668	MPR
Frequency (MHz)				3480			3499.98	3520.02	(dBm)
60	QPSK	1	1		13.90	13.96	14.04	15.0	0.0
Channel				631668			633332	635000	MPR
Frequency (MHz)				3475.02			3499.98	3525	(dBm)
50	QPSK	1	1		13.92	13.86	14.04	15.0	0.0
Channel				631334			633332	635334	MPR
Frequency (MHz)				3470.01			3499.98	3530.01	(dBm)
40	QPSK	1	1		14.00	13.94	13.98	15.0	0.0
Channel				631000			633332	635668	MPR
Frequency (MHz)				3465			3499.98	3535.02	(dBm)
30	QPSK	1	1		13.97	13.91	13.98	15.0	0.0
Channel				630668			633332	636000	MPR
Frequency (MHz)				3460.02			3499.98	3540	(dBm)
20	QPSK	1	1		13.98	13.95	14.04	15.0	0.0



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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				526200	518598	529200				
Frequency (MHz)				2546.01	2592.99	2640				
100	PI2 BPSK	1	1	11.91	12.09	11.93				
100	PI2 BPSK	1	137	11.87	12.00	11.84	13.0	0.0		
100	PI2 BPSK	1	271	11.89	11.89	12.06				
100	PI2 BPSK	135	0	12.02	12.05	11.94	13.0	0.0		
100	PI2 BPSK	135	69	11.98	11.98	12.06	13.0	0.0		
100	PI2 BPSK	135	138	11.86	12.05	12.10	13.0	0.0		
100	PI2 BPSK	270	0	11.92	11.96	12.11				
100	QPSK	1	1	12.07	12.20	12.03				
100	QPSK	1	137	12.02	11.88	11.82	13.0	0.0		
100	QPSK	1	271	11.89	11.84	11.97				
100	QPSK	135	0	11.86	12.06	12.03	13.0	0.0		
100	QPSK	135	69	11.99	12.15	12.03	13.0	0.0		
100	QPSK	135	138	11.82	12.03	11.83	13.0	0.0		
100	QPSK	270	0	11.83	11.91	11.86				
100	16QAM	1	1	11.82	12.09	11.88	13.0	0.0		
100	16QAM	1	1	12.02	11.95	12.13	13.0	0.0		
100	256QAM	1	1	11.88	12.04	12.00	13.0	0.0		
Channel				530200	518598	533998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2541	2592.99	2644.98				
90	QPSK	1	1	11.91	12.08	11.99	13.0	0.0		
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2538.02	2592.99	2649.99				
80	QPSK	1	1	11.90	12.00	11.89	13.0	0.0		
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2526	2592.99	2659.98				
60	QPSK	1	1	12.05	12.07	11.98	13.0	0.0		
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2521.02	2592.99	2654.99				
50	QPSK	1	1	11.95	12.12	11.92	13.0	0.0		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2516.01	2592.99	2670				
40	QPSK	1	1	11.98	12.07	11.93	13.0	0.0		
Channel				502200	518598	535998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2511	2592.99	2674.98				
30	QPSK	1	1	11.97	12.15	11.90	13.0	0.0		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2506.02	2592.99	2679.99				
20	QPSK	1	1	11.94	12.13	11.99	13.0	0.0		

Part270 n77 PC3&PC2 Ant 7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				650000	650000	650000				
Frequency (MHz)				3750	3840	3930				
100	PI2 BPSK	1	1	9.16	9.17	9.11				
100	PI2 BPSK	1	137	9.16	9.32	9.24	11.0	0.0		
100	PI2 BPSK	1	271	9.28	9.26	9.22				
100	PI2 BPSK	135	0	9.08	9.12	9.13	11.0	0.0		
100	PI2 BPSK	135	69	9.18	9.34	9.25	11.0	0.0		
100	PI2 BPSK	135	138	9.18	9.20	9.18	11.0	0.0		
100	PI2 BPSK	270	0	9.43	9.48	9.37				
100	QPSK	1	1	9.49	9.51	9.54				
100	QPSK	1	137	9.14	9.23	9.08	11.0	0.0		
100	QPSK	1	271	9.10	9.25	9.24				
100	QPSK	135	0	9.24	9.35	9.34	11.0	0.0		
100	QPSK	135	69	9.49	9.54	9.44	11.0	0.0		
100	QPSK	135	138	9.05	9.19	9.16	11.0	0.0		
100	QPSK	270	0	9.35	9.50	9.37				
100	16QAM	1	1	9.14	9.07	9.13	11.0	0.0		
100	16QAM	1	1	9.19	9.23	9.28	11.0	0.0		
100	256QAM	1	1	9.22	9.28	9.25	11.0	0.0		
Channel				645334	650000	650998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3740.01	3840	3940.02				
80	QPSK	1	1	9.36	9.43	9.43	11.0	0.0		
Channel				646868	650000	653334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3730.02	3840	3950.01				
60	QPSK	1	1	9.33	9.49	9.33	11.0	0.0		
Channel				645334	650000	653998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3725.01	3840	3955.02				
50	QPSK	1	1	9.36	9.43	9.34	11.0	0.0		
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3840	3960				
40	QPSK	1	1	9.42	9.45	9.39	11.0	0.0		
Channel				647868	650000	654334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3715.02	3840	3965.01				
30	QPSK	1	1	9.35	9.49	9.40	11.0	0.0		
Channel				645334	650000	656998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3840	3970.02				
20	QPSK	1	1	9.43	9.45	9.41	11.0	0.0		

Part27Q n77 PC3&PC2 Ant 7										
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				633334						
Frequency (MHz)				3500.01						
100	PI2 BPSK	1	1		9.83					
100	PI2 BPSK	1	137		9.89		11.0	0.0		
100	PI2 BPSK	1	271		9.96					
100	PI2 BPSK	135	0		9.83		11.0	0.0		
100	PI2 BPSK	135	69		9.97		11.0	0.0		
100	PI2 BPSK	135	138		10.01		11.0	0.0		
100	PI2 BPSK	270	0		9.86					
100	QPSK	1	1		10.09					
100	QPSK	1	137		10.07		11.0	0.0		
100	QPSK	1	271		10.05					
100	QPSK	135	0		10.01		11.0	0.0		
100	QPSK	135	69		10.02		11.0	0.0		
100	QPSK	135	138		9.99		11.0	0.0		
100	QPSK	270	0		9.92					
100	16QAM	1	1		9.81		11.0	0.0		
100	16QAM	1	1		9.93		11.0	0.0		
100	256QAM	1	1		10.03		11.0	0.0		
Channel				632868	633334	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3490.02	3500.01	3510				
80	QPSK	1	1	9.93	9.96	9.98	11.0	0.0		
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3480	3500.01	3520.02				
60	QPSK	1	1	9.99	10.08	10.02	11.0	0.0		
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3475.02	3500.01	3525				
50	QPSK	1	1	9.92	9.90	10.04	11.0	0.0		
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3470.01	3500.01	3530.01				
40	QPSK	1	1	9.95	10.03	10.06	11.0	0.0		
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3465	3500.01	3535.02				
30	QPSK	1	1	10.01	10.05	10.06	11.0	0.0		
Channel				630998	633334	636000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3460.02	3500.01	3540				
20	QPSK	1	1	10.01	10.04	9.98	11.0	0.0		

Part270 n78 PC3&PC2 Ant 7									
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)									
100	PI/2 BPSK	1	1		9.57				
100	PI/2 BPSK	1	137		9.46		11.0	0.0	
100	PI/2 BPSK	1	271		9.36				
100	PI/2 BPSK	135	0		9.51		11.0	0.0	
100	PI/2 BPSK	135	69		9.47		11.0	0.0	
100	PI/2 BPSK	135	138		9.52		11.0	0.0	
100	PI/2 BPSK	270	0		9.53				
100	QPSK	1	1		9.38				
100	QPSK	1	137		9.34		11.0	0.0	
100	QPSK	1	271		9.50				
100	QPSK	135	0		9.51		11.0	0.0	
100	QPSK	135	69		9.55		11.0	0.0	
100	QPSK	135	138		9.48		11.0	0.0	
100	QPSK	270	0		9.48				
100	16QAM	1	1		9.51		11.0	0.0	
100	16QAM	1	1		9.45		11.0	0.0	
100	256QAM	1	1		9.55		11.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	9.41	9.29	9.45	11.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	9.43	9.24	9.47	11.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	9.47	9.28	9.41	11.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	9.47	9.32	9.41	11.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	9.45	9.23	9.38	11.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	9.43	9.27	9.39	11.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	9.43	9.27	9.43	11.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	9.42	9.24	9.41	11.0	0.0	

Part270 n78 PC3&PC2 Ant 7									
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)									
100	PI/2 BPSK	1	1		9.85				
100	PI/2 BPSK	1	137		9.95		11.0	0.0	
100	PI/2 BPSK	1	271		9.99				
100	PI/2 BPSK	135	0		9.89		11.0	0.0	
100	PI/2 BPSK	135	69		9.93		11.0	0.0	
100	PI/2 BPSK	135	138		10.00		11.0	0.0	
100	PI/2 BPSK	270	0		10.05				
100	QPSK	1	1		10.08				
100	QPSK	1	137		9.99		11.0	0.0	
100	QPSK	1	271		10.02				
100	QPSK	135	0		10.01		11.0	0.0	
100	QPSK	135	69		10.08		11.0	0.0	
100	QPSK	135	138		10.03		11.0	0.0	
100	QPSK	270	0		9.95				
100	16QAM	1	1		9.82		11.0	0.0	
100	16QAM	1	1		9.95		11.0	0.0	
100	256QAM	1	1		10.07		11.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	9.98	10.02	10.06	11.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	10.04	9.91	9.97	11.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	10.02	9.95	10.07	11.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	10.00	9.93	10.02	11.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	9.99	9.97	10.07	11.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	10.05	9.95	10.06	11.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	10.00	9.97	9.97	11.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	10.01	9.94	10.03	11.0	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				50202	51698	52600			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	14.13	14.42	14.24			
100	PI2 BPSK	1	137	14.25	14.25	14.32	15.0	0.0	
100	PI2 BPSK	1	271	14.25	14.28	14.32			
100	PI2 BPSK	135	0	14.22	14.40	14.35	15.0	0.0	
100	PI2 BPSK	135	69	14.30	14.35	14.35	15.0	0.0	
100	PI2 BPSK	135	138	14.18	14.36	14.41	15.0	0.0	
100	PI2 BPSK	270	0	14.31	14.36	14.39			
100	QPSK	1	1	14.25	14.48	14.36			
100	QPSK	1	137	14.21	14.24	14.19	15.0	0.0	
100	QPSK	1	271	14.30	14.26	14.37			
100	QPSK	135	0	14.11	14.33	14.33	15.0	0.0	
100	QPSK	135	69	14.34	14.42	14.39	15.0	0.0	
100	QPSK	135	138	14.20	14.19	14.16			
100	QPSK	270	0	14.07	14.28	14.08			
100	16QAM	1	1	14.14	14.31	14.38	15.0	0.0	
100	16QAM	1	1	14.27	14.29	14.44	15.0	0.0	
100	256QAM	1	1	14.24	14.39	14.29	15.0	0.0	
Channel				50200	51698	52600			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	14.22	14.41	14.31	15.0	0.0	
Channel				507204	516988	529988			
Frequency (MHz)				2536.02	2592.99	2640.99			
80	QPSK	1	1	14.10	14.42	14.28	15.0	0.0	
Channel				505200	516988	531988			
Frequency (MHz)				2528	2592.99	2649.98			
60	QPSK	1	1	14.20	14.40	14.22	15.0	0.0	
Channel				504204	516988	532988			
Frequency (MHz)				2521.02	2592.99	2644.99			
50	QPSK	1	1	14.09	14.37	14.31	15.0	0.0	
Channel				503202	516988	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	14.21	14.39	14.24	15.0	0.0	
Channel				502200	516988	533990			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	14.12	14.37	14.30	15.0	0.0	
Channel				501204	516988	535988			
Frequency (MHz)				2502.02	2592.99	2673.99			
20	QPSK	1	1	14.10	14.41	14.30	15.0	0.0	

Part270 n77 PC3&PC2 Ant 8									
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				693000	699000	692000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	14.26	14.27	14.21			
100	PI2 BPSK	1	137	14.10	14.15	14.01	16.0	0.0	
100	PI2 BPSK	1	271	14.14	14.23	14.15			
100	PI2 BPSK	135	0	14.25	14.27	14.14	16.0	0.0	
100	PI2 BPSK	135	69	14.07	14.14	14.06	16.0	0.0	
100	PI2 BPSK	135	138	14.20	14.26	14.23	16.0	0.0	
100	PI2 BPSK	270	0	14.33	14.43	14.33			
100	QPSK	1	1	14.81	14.92	14.79			
100	QPSK	1	137	14.17	14.19	14.19	16.0	0.0	
100	QPSK	1	271	14.22	14.27	14.14			
100	QPSK	135	0	14.35	14.37	14.35	16.0	0.0	
100	QPSK	135	69	14.50	14.60	14.53	16.0	0.0	
100	QPSK	135	138	14.35	14.44	14.36			
100	QPSK	270	0	14.35	14.55	14.46	16.0	0.0	
100	16QAM	1	1	14.24	14.22	14.17	16.0	0.0	
100	16QAM	1	1	14.02	14.13	14.06	16.0	0.0	
100	256QAM	1	1	14.19	14.22	14.17	16.0	0.0	
Channel				649334	656000	652990			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	14.45	14.49	14.43	16.0	0.0	
Channel				648668	656000	663334			
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	14.30	14.49	14.43	16.0	0.0	
Channel				648334	656000	663668			
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	14.40	14.48	14.39	16.0	0.0	
Channel				648000	656000	664000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	14.42	14.48	14.37	16.0	0.0	
Channel				647668	656000	664334			
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	14.44	14.48	14.43	16.0	0.0	
Channel				647334	656000	664668			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	14.40	14.45	14.44	16.0	0.0	

Part27Q n77 PC3&PC2 Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334	633334			
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1				14.88		
100	PI2 BPSK	1	137				14.87		0.0
100	PI2 BPSK	1	271				14.80		
100	PI2 BPSK	135	0				14.93		16.0
100	PI2 BPSK	135	69				14.80		16.0
100	PI2 BPSK	135	138				14.84		16.0
100	PI2 BPSK	270	0				14.84		
100	QPSK	1	1				15.06		
100	QPSK	1	137				14.92		16.0
100	QPSK	1	271				15.04		
100	QPSK	135	0				14.91		16.0
100	QPSK	135	69				14.95		16.0
100	QPSK	135	138				14.85		16.0
100	QPSK	270	0				14.85		
100	16QAM	1	1				14.89		16.0
100	16QAM	1	1				14.85		16.0
100	256QAM	1	1				14.79		16.0
Channel				632868	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	14.96	14.74	14.97	16.0	0.0	
Channel				632000	633334	634668			
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	15.01	14.79	14.90	16.0	0.0	
Channel				631668	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	14.97	14.83	14.99	16.0	0.0	
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	14.98	14.78	14.95	16.0	0.0	
Channel				631000	633334	635668			
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	14.93	14.77	14.99	16.0	0.0	
Channel				630668	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	14.98	14.83	14.97	16.0	0.0	



Part270 n78 PC3&PC2 Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1	14.79					
100	PI/2 BPSK	1	137	14.78			16.0	0.0	
100	PI/2 BPSK	1	271	14.80					
100	PI/2 BPSK	135	0	14.77			16.0	0.0	
100	PI/2 BPSK	135	69	14.75			16.0	0.0	
100	PI/2 BPSK	135	138	14.75			16.0	0.0	
100	PI/2 BPSK	270	0	14.71					
100	QPSK	1	1	14.84			16.0	0.0	
100	QPSK	1	137	14.78					
100	QPSK	1	271	14.73					
100	QPSK	135	0	14.75			16.0	0.0	
100	QPSK	135	69	14.81			16.0	0.0	
100	QPSK	135	138	14.79			16.0	0.0	
100	QPSK	270	0	14.79					
100	16QAM	1	1	14.81			16.0	0.0	
100	16QAM	1	1	14.78			16.0	0.0	
100	256QAM	1	1	14.78			16.0	0.0	
Channel				649888	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	14.83	14.80	14.75	16.0	0.0	
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	14.82	14.79	14.72	16.0	0.0	
Channel				649000	650000	651000			
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	14.83	14.75	14.74	16.0	0.0	
Channel				648668	650000	651334			
Frequency (MHz)				3730.02	3750	3730.01			
60	QPSK	1	1	14.80	14.73	14.79	16.0	0.0	
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	14.76	14.72	14.80	16.0	0.0	
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	14.81	14.80	14.75	16.0	0.0	
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3725.01			
30	QPSK	1	1	14.82	14.72	14.78	16.0	0.0	
Channel				647334	650000	653668			
Frequency (MHz)				3710.01	3750	3780.02			
20	QPSK	1	1	14.82	14.80	14.80	16.0	0.0	

Part27Q n78 PC3&PC2 Ant 8									
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				633332	633332	633332			
Frequency (MHz)				3499.98					
100	PI/2 BPSK	1	1	14.80					
100	PI/2 BPSK	1	137	14.86			16.0	0.0	
100	PI/2 BPSK	1	271	14.97					
100	PI/2 BPSK	135	0	14.76			16.0	0.0	
100	PI/2 BPSK	135	69	14.76			16.0	0.0	
100	PI/2 BPSK	135	138	14.98			16.0	0.0	
100	PI/2 BPSK	270	0	14.77					
100	QPSK	1	1	15.03			16.0	0.0	
100	QPSK	1	137	14.82					
100	QPSK	1	271	15.03					
100	QPSK	135	0	14.81			16.0	0.0	
100	QPSK	135	69	14.92			16.0	0.0	
100	QPSK	135	138	14.90			16.0	0.0	
100	QPSK	270	0	14.90					
100	16QAM	1	1	14.80			16.0	0.0	
100	16QAM	1	1	14.79			16.0	0.0	
100	256QAM	1	1	14.99			16.0	0.0	
Channel				633000	633332	633668			
Frequency (MHz)				3495	3499.98	3505.02			
90	QPSK	1	1	14.97	14.90	14.88	16.0	0.0	
Channel				632668	633332	634000			
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	14.98	14.93	14.93	16.0	0.0	
Channel				632334	633332	634334			
Frequency (MHz)				3485.01	3499.98	3515.01			
70	QPSK	1	1	14.91	14.93	14.88	16.0	0.0	
Channel				632000	633332	634668			
Frequency (MHz)				3480	3499.98	3520.02			
60	QPSK	1	1	14.99	14.87	14.98	16.0	0.0	
Channel				631668	633332	635000			
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	14.99	14.89	14.93	16.0	0.0	
Channel				631334	633332	635334			
Frequency (MHz)				3470.01	3499.98	3530.01			
40	QPSK	1	1	14.99	14.92	14.98	16.0	0.0	
Channel				631000	633332	635668			
Frequency (MHz)				3465	3499.98	3535.02			
30	QPSK	1	1	14.94	14.88	14.89	16.0	0.0	
Channel				630668	633332	636000			
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	14.93	14.98	14.93	16.0	0.0	



Part270 n77 PC3&PC2 Ant 3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	15.94	16.09	16.02	17.5	0.0		
100	PI2 BPSK	1	137	15.95	16.02	15.87				
100	PI2 BPSK	1	271	16.09	16.24	16.11				
100	PI2 BPSK	135	0	15.85	16.08	16.04	17.5	0.0		
100	PI2 BPSK	135	69	15.96	16.09	15.96	17.5	0.0		
100	PI2 BPSK	135	138	16.16	16.23	16.17	17.5	0.0		
100	PI2 BPSK	270	0	16.12	16.17	16.11				
100	QPSK	1	1	16.23	16.31	16.12				
100	QPSK	1	137	15.91	16.02	16.03	17.5	0.0		
100	QPSK	1	271	16.12	16.08	16.07				
100	QPSK	135	0	15.85	16.04	16.02	17.5	0.0		
100	QPSK	135	69	16.07	16.24	16.10	17.5	0.0		
100	QPSK	135	138	16.01	16.09	15.95	17.5	0.0		
100	QPSK	270	0	16.14	16.15	16.12				
100	16QAM	1	1	15.88	16.08	16.10	17.5	0.0		
100	64QAM	1	1	16.04	16.02	15.90	17.5	0.0		
100	256QAM	1	1	16.16	16.20	16.20	17.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	16.13	16.19	16.07	17.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	16.12	16.23	16.09	17.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	16.13	16.24	16.14	17.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	16.11	16.17	16.04	17.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	16.14	16.13	16.07	17.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	16.07	16.21	16.04	17.5	0.0		

Reduced Power Mode for Sensor off										
Part27Q n77 PC3&PC2 Ant 3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1		3500.01		17.5	0.0		
100	PI2 BPSK	1	137		15.84					
100	PI2 BPSK	1	271		16.14					
100	PI2 BPSK	135	0		15.96		17.5	0.0		
100	PI2 BPSK	135	69		16.04		17.5	0.0		
100	PI2 BPSK	135	138		16.18		17.5	0.0		
100	PI2 BPSK	270	0		16.21					
100	QPSK	1	1		16.25					
100	QPSK	1	137		16.13		17.5	0.0		
100	QPSK	1	271		16.17					
100	QPSK	135	0		15.91		17.5	0.0		
100	QPSK	135	69		16.17		17.5	0.0		
100	QPSK	135	138		16.15		17.5	0.0		
100	QPSK	270	0		16.12					
100	16QAM	1	1		15.94		17.5	0.0		
100	64QAM	1	1		16.10		17.5	0.0		
100	256QAM	1	1		16.22		17.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	16.16	16.18	15.99	17.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	16.15	16.10	16.04	17.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	16.13	16.14	16.09	17.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	16.08	16.10	16.05	17.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	16.06	16.10	16.07	17.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	16.16	16.17	15.99	17.5	0.0		

Part270 n78 PC3&PC2 Ant 3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1		3750		17.5	0.0		
100	PI2 BPSK	1	137		15.77					
100	PI2 BPSK	1	271		15.82					
100	PI2 BPSK	135	0		15.79		17.5	0.0		
100	PI2 BPSK	135	69		15.77		17.5	0.0		
100	PI2 BPSK	135	138		15.79		17.5	0.0		
100	PI2 BPSK	270	0		15.74					
100	QPSK	1	1		15.04					
100	QPSK	1	137		15.77		17.5	0.0		
100	QPSK	1	271		15.89					
100	QPSK	135	0		15.75		17.5	0.0		
100	QPSK	135	69		15.88		17.5	0.0		
100	QPSK	135	138		15.77		17.5	0.0		
100	QPSK	270	0		15.76					
100	16QAM	1	1		15.75		17.5	0.0		
100	64QAM	1	1		15.72		17.5	0.0		
100	256QAM	1	1		15.72		17.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	15.87	15.85	15.82	17.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	15.87	15.87	15.85	17.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	15.85	15.88	15.80	17.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	15.82	15.91	15.85	17.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	15.85	15.85	15.77	17.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	15.84	15.86	15.81	17.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	15.87	15.91	15.88	17.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	15.89	15.91	15.82	17.5	0.0		

Part27Q n78 PC3&PC2 Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				3499.98						
Frequency (MHz)				633332						
100	Pi/2 BPSK	1	1		15.93					
100	Pi/2 BPSK	1	137		15.96		17.5	0.0		
100	Pi/2 BPSK	1	271		16.07					
100	Pi/2 BPSK	135	0		15.90		17.5	0.0		
100	Pi/2 BPSK	135	69		16.03					
100	Pi/2 BPSK	135	138		16.10		17.5	0.0		
100	Pi/2 BPSK	270	0		16.03					
100	QPSK	1	1		16.16					
100	QPSK	1	137		16.00		17.5	0.0		
100	QPSK	1	271		16.07					
100	QPSK	135	0		15.89		17.5	0.0		
100	QPSK	135	69		16.07					
100	QPSK	135	138		16.00		17.5	0.0		
100	QPSK	270	0		16.03					
100	16QAM	1	1		15.86		17.5	0.0		
100	64QAM	1	1		16.00					
100	256QAM	1	1		16.05		17.5	0.0		
Channel				633000	633332	633668	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3495	3499.98	3505.02				
90	QPSK	1	1	16.12	16.06	15.95	17.5	0.0		
Channel				632668	633332	634000	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3497.02	3499.98	3501.94				
80	QPSK	1	1	16.09	16.03	15.97	17.5	0.0		
Channel				632334	633332	634334	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3515.01				
70	QPSK	1	1	16.11	15.98	16.07	17.5	0.0		
Channel				632000	633332	634668	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3490	3499.98	3509.02				
60	QPSK	1	1	16.10	16.08	16.01	17.5	0.0		
Channel				631668	633332	635000	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525				
50	QPSK	1	1	16.03	16.04	16.03	17.5	0.0		
Channel				631334	633332	635334	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3530.01				
40	QPSK	1	1	16.08	16.09	16.05	17.5	0.0		
Channel				631000	633332	635668	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3465	3499.98	3535.02				
30	QPSK	1	1	16.10	16.01	16.06	17.5	0.0		
Channel				630668	633332	636000	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540				
20	QPSK	1	1	16.02	15.99	16.04	17.5	0.0		



n2 Ant 4									
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				370000	370000	380000			
Frequency (MHz)				1860	1860	1900			
20	PI2 BPSK	1	1	20.33	20.40	20.29			
20	PI2 BPSK	1	53	20.42	20.50	20.46	21.5	0.0	
20	PI2 BPSK	1	104	20.57	20.45	20.34			
20	PI2 BPSK	50	0	20.28	20.50	20.35	21.5	0.0	
20	PI2 BPSK	50	28	20.48	20.52	20.53	21.5	0.0	
20	PI2 BPSK	50	56	20.38	20.54	20.28	21.5	0.0	
20	PI2 BPSK	100	0	20.33	20.50	20.45			
20	QPSK	1	1	20.40	20.56	20.51			
20	QPSK	1	53	20.46	20.51	20.40	21.5	0.0	
20	QPSK	1	104	20.44	20.52	20.24			
20	QPSK	50	0	20.35	20.51	20.44	21.5	0.0	
20	QPSK	50	28	20.55	20.56	20.54	21.5	0.0	
20	QPSK	50	56	20.45	20.51	20.35	21.5	0.0	
20	QPSK	100	0	20.40	20.53	20.37			
20	16QAM	1	1	20.07	20.12	20.03	21.5	0.0	
20	64QAM	1	1	20.25	20.27	20.17	21.5	0.0	
20	256QAM	1	1	18.77	18.85	18.76	19.5	2.0	
Channel				371500	370000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1860	1902.5			
15	QPSK	1	1	20.33	20.52	20.45	21.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1860	1905			
10	QPSK	1	1	20.34	20.45	20.44	21.5	0.0	
Channel				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1860	1907.5			
5	QPSK	1	1	20.28	20.50	20.38	21.5	0.0	

n5 Ant 4									
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				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	22.96	23.01	22.93			
20	PI2 BPSK	1	53	23.01	23.10	23.09	24.0	0.0	
20	PI2 BPSK	1	104	22.92	22.95	22.89			
20	PI2 BPSK	50	0	22.80	22.86	22.56	23.5	0.5	
20	PI2 BPSK	50	28	23.10	23.11	23.01	24.0	0.0	
20	PI2 BPSK	50	56	22.43	22.56	22.46	23.5	0.5	
20	PI2 BPSK	100	0	22.48	22.62	22.41			
20	QPSK	1	1	22.90	23.15	22.94			
20	QPSK	1	53	22.93	23.07	23.05	24.0	0.0	
20	QPSK	1	104	22.73	22.94	22.87			
20	QPSK	50	0	22.07	22.19	22.10	23.0	1.0	
20	QPSK	50	28	23.04	23.10	23.07	24.0	0.0	
20	QPSK	50	56	22.02	22.09	22.03	23.0	1.0	
20	QPSK	100	0	22.03	22.13	22.13			
20	16QAM	1	1	21.82	21.77	21.76	23.0	1.0	
20	64QAM	1	1	20.42	20.44	20.33	21.5	2.5	
20	256QAM	1	1	19.09	19.12	18.94	19.5	4.5	
Channel				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.82	22.91	22.82	24.0	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.77	23.01	22.89	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				828.5	836.5	846.5			
5	QPSK	1	1	22.77	22.84	22.91	24.0	0.0	

n7 Ant 4									
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				502000	507000	513000			
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	22.82	22.80	22.60			
20	PI2 BPSK	1	53	22.74	22.89	22.67	24.0	0.0	
20	PI2 BPSK	1	104	22.82	22.80	22.71			
20	PI2 BPSK	50	0	22.30	22.37	22.20	23.5	0.5	
20	PI2 BPSK	50	28	22.84	22.91	22.92	24.0	0.0	
20	PI2 BPSK	50	56	22.41	22.40	22.28	23.5	0.5	
20	PI2 BPSK	100	0	22.23	22.38	22.19			
20	QPSK	1	1	22.77	22.97	22.86			
20	QPSK	1	53	22.81	22.83	22.74	24.0	0.0	
20	QPSK	1	104	22.62	22.75	22.70			
20	QPSK	50	0	21.77	21.85	21.82	23.0	1.0	
20	QPSK	50	28	22.78	22.85	22.75	24.0	0.0	
20	QPSK	50	56	21.72	21.86	21.81	23.0	1.0	
20	QPSK	100	0	21.84	21.86	21.80			
20	16QAM	1	1	21.48	21.49	21.38	23.0	1.0	
20	64QAM	1	1	20.04	20.05	19.86	21.5	2.5	
20	256QAM	1	1	18.54	18.64	18.59	19.5	4.5	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	22.82	22.84	22.69	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	22.72	22.98	22.60	24.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	22.82	22.76	22.66	24.0	0.0	



n26 Ant 4									
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				164500	166300	167600			
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	22.89	22.99	22.90			
20	PI2 BPSK	1	53	22.93	23.06	22.98	24.0	0.0	
20	PI2 BPSK	1	104	22.99	22.98	22.95			
20	PI2 BPSK	50	0	22.85	22.84	22.51	23.5	0.5	
20	PI2 BPSK	50	28	23.12	23.10	22.84	24.0	0.0	
20	PI2 BPSK	50	56	22.52	22.63	22.58	23.5	0.5	
20	PI2 BPSK	100	0	22.57	22.64	22.64			
20	QPSK	1	1	23.00	23.17	23.13			
20	QPSK	1	53	22.96	23.04	22.91	24.0	0.0	
20	QPSK	1	104	22.85	22.98	22.81			
20	QPSK	50	0	21.96	22.15	22.11	23.0	1.0	
20	QPSK	50	28	22.99	23.16	23.07	24.0	0.0	
20	QPSK	50	56	22.13	22.13	22.10	23.0	1.0	
20	QPSK	100	0	22.10	22.15	22.07			
20	16QAM	1	1	21.62	21.74	21.76	23.0	1.0	
20	64QAM	1	1	20.20	20.41	20.23	21.5	2.5	
20	256QAM	1	1	18.35	18.36	18.27	19.5	4.5	
Channel				164330	166300	166300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.99	23.11	22.81	24.0	0.0	
Channel				163800	166300	168800	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.88	23.00	22.90	24.0	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.82	23.03	22.98	24.0	0.0	

n66 Ant 4									
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				345000	349000	353000			
Frequency (MHz)				1725	1745	1765			
30	PI2 BPSK	1	1	22.28	22.42	22.23			
30	PI2 BPSK	1	80	22.42	22.49	22.26	23.5	0.0	
30	PI2 BPSK	1	168	22.43	22.39	22.25			
30	PI2 BPSK	80	0	21.80	22.06	21.81	23.5	0.0	
30	PI2 BPSK	80	40	22.45	22.51	22.45	23.5	0.0	
30	PI2 BPSK	80	80	22.01	22.10	21.93	23.5	0.0	
30	PI2 BPSK	160	0	22.01	22.11	21.98			
30	QPSK	1	1	22.50	22.57	22.42			
30	QPSK	1	80	22.37	22.47	22.39	23.5	0.0	
30	QPSK	1	168	22.34	22.42	22.21			
30	QPSK	80	0	22.00	22.07	21.93	23.0	0.5	
30	QPSK	80	40	22.28	22.35	22.22	23.5	0.0	
30	QPSK	80	80	22.44	22.46	22.42	23.0	0.5	
30	QPSK	160	0	21.98	22.05	21.84			
30	16QAM	1	1	21.55	21.71	21.69	23.0	0.5	
30	64QAM	1	1	20.24	20.29	20.24	21.5	2.0	
30	256QAM	1	1	18.83	18.90	18.86	19.5	4.0	
Channel				345000	349000	349000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	22.42	22.45	22.34	23.5	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	22.42	22.50	22.29	23.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.43	22.41	22.27	23.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1772.5			
5	QPSK	1	1	22.39	22.46	22.29	23.5	0.0	

n70									
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				345500	345500				
Frequency (MHz)				1702.5					
15	PI2 BPSK	1	1						
15	PI2 BPSK	1	40				0.0	0.0	
15	PI2 BPSK	1	77						
15	PI2 BPSK	36	0				-0.5	0.5	
15	PI2 BPSK	36	22				0.0	0.0	
15	PI2 BPSK	36	43						
15	PI2 BPSK	36	62				-0.5	0.5	
15	PI2 BPSK	75	0						
15	QPSK	1	1				0.0	0.0	
15	QPSK	1	40						
15	QPSK	1	77						
15	QPSK	36	0				-1.0	1.0	
15	QPSK	36	22				0.0	0.0	
15	QPSK	36	43				-1.0	1.0	
15	QPSK	75	0						
15	16QAM	1	1				-1.0	1.0	
15	64QAM	1	1				-2.5	2.5	
15	256QAM	1	1				-4.5	4.5	
Channel				340000	340500	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1				0.0	0.0	
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1				0.0	0.0	

n71 Ant 4								
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				133600	136100	137600		
Frequency (MHz)				673	680.5	688		
20	PI2 BPSK	1	1	22.29	22.29	22.21		
20	PI2 BPSK	1	53	22.01	22.23	22.25	24.0	0.0
20	PI2 BPSK	1	104	22.21	22.15	22.07		
20	PI2 BPSK	50	0	21.73	21.90	21.73	23.5	0.5
20	PI2 BPSK	50	28	22.18	22.39	22.21	24.0	0.0
20	PI2 BPSK	50	58	21.71	21.82	21.70		
20	PI2 BPSK	100	0	21.71	21.90	21.78		
20	QPSK	1	1	22.37	22.32	22.48		
20	QPSK	1	53	22.17	22.23	22.10	24.0	0.0
20	QPSK	1	104	22.28	22.17	22.09		
20	QPSK	50	0	21.40	21.44	21.39	23.0	1.0
20	QPSK	50	28	22.24	22.42	22.34	24.0	0.0
20	QPSK	50	58	21.19	21.37	21.30		
20	QPSK	100	0	21.25	21.42	21.40	23.0	1.0
20	16QAM	1	1	21.14	21.09	21.11	23.0	1.0
20	16QAM	1	1	19.61	19.71	19.65	21.5	2.5
20	256QAM	1	1	18.38	18.40	18.18	19.5	4.5
Channel				134100	136100	138100		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	22.39	22.48	22.10	24.0	0.0
Channel				133600	136100	138600		
Frequency (MHz)				668	680.5	692		
10	QPSK	1	1	22.19	22.35	22.19	24.0	0.0
Channel				133100	136100	139100		
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	22.19	22.41	22.13	24.0	0.0



n38 Ant 4								
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				518000	519000	520000		
Frequency (MHz)				2590	2595	2600		
40	PI2 BPSK	1	1	23.25	23.36	23.36		
40	PI2 BPSK	1	53	23.32	23.50	23.48	24.5	0.0
40	PI2 BPSK	1	104	23.45	23.47	23.37		
40	PI2 BPSK	50	0	22.87	22.95	22.81	24.0	0.5
40	PI2 BPSK	50	28	23.40	23.52	23.39	24.5	0.0
40	PI2 BPSK	50	56	22.93	22.99	22.90	24.0	0.5
40	PI2 BPSK	100	0	22.81	22.87	22.77		
40	QPSK	1	1	23.44	23.35	23.43		
40	QPSK	1	53	23.47	23.47	23.40	24.5	0.0
40	QPSK	1	104	23.43	23.42	23.35		
40	QPSK	50	0	22.43	22.48	22.37	23.5	1.0
40	QPSK	50	28	23.31	23.49	23.39	24.5	0.0
40	QPSK	50	56	22.36	22.50	22.31	23.5	1.0
40	QPSK	100	0	22.40	22.44	22.41		
40	16QAM	1	1	21.90	22.10	22.03	23.5	1.0
40	16QAM	1	1	20.53	20.65	20.67	22.0	2.5
40	256QAM	1	1	19.06	19.27	19.21	20.0	4.5
Channel				517000	516000	521000		
Frequency (MHz)				2585	2595	2605		
30	QPSK	1	1	23.28	23.50	23.29	24.5	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	23.30	23.41	23.35	24.5	0.0

n41 Ant 4								
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				520200	518500	523000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	23.01	23.06	23.04		
100	PI2 BPSK	1	137	22.88	23.08	23.00	24.5	0.0
100	PI2 BPSK	1	271	22.96	23.05	23.04		
100	PI2 BPSK	135	0	23.00	23.07	23.09	24.5	0.0
100	PI2 BPSK	135	69	23.14	23.21	23.12	24.5	0.0
100	PI2 BPSK	135	138	23.16	23.25	23.22	24.5	0.0
100	PI2 BPSK	270	0	22.82	23.11	23.11		
100	QPSK	1	1	22.98	23.29	23.13		
100	QPSK	1	137	23.07	23.05	22.91	24.5	0.0
100	QPSK	1	271	22.90	23.01	22.94		
100	QPSK	135	0	22.94	23.04	23.06	24.5	0.0
100	QPSK	135	69	23.12	23.23	23.05	24.5	0.0
100	QPSK	135	138	23.14	23.18	23.07	24.5	0.0
100	QPSK	270	0	22.92	23.08	23.00		
100	16QAM	1	1	22.66	22.72	22.71	24.5	0.0
100	16QAM	1	1	22.78	22.75	22.54	24.5	0.0
100	256QAM	1	1	21.77	21.87	21.89	23.0	1.5
Channel				503200	518500	539500		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.92	23.22	22.85	24.5	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.89	23.14	22.80	24.5	0.0
Channel				505200	518598	531998		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	22.90	23.24	22.93	24.5	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	22.79	23.15	22.87	24.5	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.79	23.21	22.97	24.5	0.0
Channel				502210	518598	532998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.89	23.10	22.86	24.5	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2502.02	2592.99	2679.99		
20	QPSK	1	1	22.91	23.09	23.00	24.5	0.0

n41 PC2 Ant 4								
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				520200	518500	523000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	25.83	25.86	25.51		
100	PI2 BPSK	1	137	25.51	25.70	25.50	27.0	0.0
100	PI2 BPSK	1	271	25.47	25.82	25.58		
100	PI2 BPSK	135	0	25.43	25.59	25.44	27.0	0.0
100	PI2 BPSK	135	69	25.65	25.68	25.57	27.0	0.0
100	PI2 BPSK	135	138	25.83	25.78	25.77	27.0	0.0
100	PI2 BPSK	270	0	25.62	25.85	25.60		
100	QPSK	1	1	25.88	25.91	25.78		
100	QPSK	1	137	25.89	25.74	25.57	27.0	0.0
100	QPSK	1	271	25.58	25.73	25.69		
100	QPSK	135	0	25.03	25.14	24.93	26.5	0.5
100	QPSK	135	69	25.54	25.74	25.68	27.0	0.0
100	QPSK	135	138	25.11	25.16	25.00	26.5	0.5
100	QPSK	270	0	24.97	25.15	24.93		
100	16QAM	1	1	25.03	25.02	24.83	26.5	0.5
100	16QAM	1	1	23.17	23.38	23.26	25.0	2.0
100	256QAM	1	1	21.87	21.90	21.70	23.0	4.0
Channel				503200	518500	539500		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	25.56	25.71	25.61	27.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	25.55	25.72	25.63	27.0	0.0
Channel				505200	518598	531998		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	25.58	25.69	25.67	27.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	25.55	25.77	25.64	27.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	25.63	25.73	25.66	27.0	0.0
Channel				502210	518598	532998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	25.53	25.73	25.60	27.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2502.02	2592.99	2679.99		
20	QPSK	1	1	25.53	25.77	25.70	27.0	0.0

n41 Ant 5									
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				599202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	21.21	21.25	21.22			
100	PI/2 BPSK	1	137	21.03	21.07	20.94	22.0	0.0	
100	PI/2 BPSK	1	271	20.72	20.85	20.76			
100	PI/2 BPSK	135	0	21.08	21.22	21.17	22.0	0.0	
100	PI/2 BPSK	135	69	21.14	21.19	21.13	22.0	0.0	
100	PI/2 BPSK	135	138	21.10	21.19	21.06	22.0	0.0	
100	PI/2 BPSK	270	0	21.05	21.13	21.04			
100	QPSK	1	1	21.29	21.41	21.32			
100	QPSK	1	137	20.97	21.04	21.01	22.0	0.0	
100	QPSK	1	271	20.69	20.83	20.71			
100	QPSK	135	0	21.13	21.18	21.07	22.0	0.0	
100	QPSK	135	69	21.09	21.16	21.10	22.0	0.0	
100	QPSK	135	138	21.10	21.15	21.02	22.0	0.0	
100	QPSK	270	0	21.04	21.12	21.10			
100	16QAM	1	1	20.91	20.94	20.80	22.0	0.0	
100	64QAM	1	1	20.93	20.97	20.87	22.0	0.0	
100	256QAM	1	1	20.03	20.11	20.08	20.5	1.5	
Channel				582000	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.20	21.14	21.13	22.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	21.08	21.38	21.25	22.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	21.03	21.37	21.05	22.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2621.02	2592.99	2664.99			
50	QPSK	1	1	21.23	21.29	21.06	22.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.23	21.22	21.25	22.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.04	21.18	21.29	22.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.06	21.26	21.18	22.0	0.0	

n41 PC2 Ant 5									
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				599202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	24.18	24.29	24.13			
100	PI/2 BPSK	1	137	24.08	24.28	24.02	25.0	0.0	
100	PI/2 BPSK	1	271	24.21	24.23	24.07			
100	PI/2 BPSK	135	0	23.73	23.95	23.83	24.5	0.5	
100	PI/2 BPSK	135	69	24.32	24.56	24.33	25.0	0.0	
100	PI/2 BPSK	135	138	24.24	24.35	24.07	24.5	0.5	
100	PI/2 BPSK	270	0	23.89	24.08	23.89			
100	QPSK	1	1	24.38	24.66	24.48			
100	QPSK	1	137	24.15	24.29	24.24	25.0	0.0	
100	QPSK	1	271	24.04	24.16	24.12			
100	QPSK	135	0	23.30	23.52	23.25	24.0	1.0	
100	QPSK	135	69	24.67	24.75	24.49	25.0	0.0	
100	QPSK	135	138	23.55	23.68	23.62	24.0	1.0	
100	QPSK	270	0	23.37	23.40	23.42			
100	16QAM	1	1	23.20	23.30	23.21	24.0	1.0	
100	64QAM	1	1	21.52	21.79	21.64	22.5	2.5	
100	256QAM	1	1	20.22	20.32	20.25	20.5	4.5	
Channel				582000	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	24.17	24.56	24.33	25.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	24.24	24.50	24.30	25.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	24.27	24.41	24.37	25.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2621.02	2592.99	2664.99			
50	QPSK	1	1	24.33	24.62	24.29	25.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	24.17	24.50	24.33	25.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	24.20	24.52	24.23	25.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	24.28	24.48	24.44	25.0	0.0	



Part270 n77 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										
Frequency (MHz)				3750	3840	3930				
100	PI2 BPSK	1	1	18.06	18.28	18.04				
100	PI2 BPSK	1	137	18.04	18.25	18.13	20.0	0.0		
100	PI2 BPSK	1	271	18.23	18.40	18.38				
100	PI2 BPSK	135	0	18.32	18.37	18.20	20.0	0.0		
100	PI2 BPSK	135	69	18.21	18.34	18.16	20.0	0.0		
100	PI2 BPSK	135	138	18.37	18.40	18.17	20.0	0.0		
100	PI2 BPSK	270	0	18.18	18.40	18.38				
100	QPSK	1	1	18.51	18.70	18.52				
100	QPSK	1	137	18.02	18.25	18.17	20.0	0.0		
100	QPSK	1	271	18.36	18.45	18.35				
100	QPSK	135	0	18.38	18.48	18.45	20.0	0.0		
100	QPSK	135	69	18.49	18.52	18.46	20.0	0.0		
100	QPSK	135	138	18.23	18.41	18.15	20.0	0.0		
100	QPSK	270	0	18.43	18.49	18.42				
100	16QAM	1	1	18.08	18.06	18.03	20.0	0.0		
100	16QAM	1	1	18.01	18.07	18.02	20.0	0.0		
100	256QAM	1	1	17.11	17.22	17.16	18.5	1.5		
Channel										
Frequency (MHz)				648668	656000	663668	Tune-up limit (dB)	MPR (dB)		
80	QPSK	1	1	18.28	18.44	18.37	20.0	0.0		
Channel										
Frequency (MHz)				648668	656000	663334	Tune-up limit (dB)	MPR (dB)		
80	QPSK	1	1	18.24	18.20	18.16	20.0	0.0		
Channel										
Frequency (MHz)				648334	656000	663668	Tune-up limit (dB)	MPR (dB)		
50	QPSK	1	1	18.24	18.21	18.29	20.0	0.0		
Channel										
Frequency (MHz)				648000	656000	664000	Tune-up limit (dB)	MPR (dB)		
40	QPSK	1	1	18.22	18.27	18.15	20.0	0.0		
Channel										
Frequency (MHz)				647668	656000	664334	Tune-up limit (dB)	MPR (dB)		
30	QPSK	1	1	18.26	18.34	18.40	20.0	0.0		
Channel										
Frequency (MHz)				647334	656000	664668	Tune-up limit (dB)	MPR (dB)		
20	QPSK	1	1	18.16	18.40	18.23	20.0	0.0		

Part270 n77 PC2 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										
Frequency (MHz)				3750	3840	3930				
100	PI2 BPSK	1	1	21.03	21.24	21.06				
100	PI2 BPSK	1	137	21.21	21.28	21.13	23.0	0.0		
100	PI2 BPSK	1	271	21.38	21.41	21.31				
100	PI2 BPSK	135	0	20.85	20.85	20.89	22.5	0.5		
100	PI2 BPSK	135	69	21.13	21.34	21.13	23.0	0.0		
100	PI2 BPSK	135	138	20.85	20.91	20.75	22.5	0.5		
100	PI2 BPSK	270	0	20.88	20.91	20.81				
100	QPSK	1	1	21.38	21.33	21.41				
100	QPSK	1	137	21.01	21.24	21.02	23.0	0.0		
100	QPSK	1	271	21.24	21.42	21.21				
100	QPSK	135	0	20.39	20.45	20.40	22.0	1.0		
100	QPSK	135	69	21.42	21.45	21.42	23.0	0.0		
100	QPSK	135	138	20.37	20.41	20.35	22.0	1.0		
100	QPSK	270	0	20.47	20.49	20.44				
100	16QAM	1	1	20.04	20.11	20.03	22.0	1.0		
100	16QAM	1	1	18.56	18.59	18.55	20.5	2.5		
100	256QAM	1	1	17.17	17.23	17.07	18.5	4.5		
Channel										
Frequency (MHz)				3740.01	3840	3940.02	Tune-up limit (dB)	MPR (dB)		
80	QPSK	1	1	21.01	21.33	21.08	23.0	0.0		
Channel										
Frequency (MHz)				648668	656000	663334	Tune-up limit (dB)	MPR (dB)		
80	QPSK	1	1	21.02	21.31	21.03	23.0	0.0		
Channel										
Frequency (MHz)				648334	656000	663668	Tune-up limit (dB)	MPR (dB)		
50	QPSK	1	1	21.01	21.22	21.13	23.0	0.0		
Channel										
Frequency (MHz)				648000	656000	664000	Tune-up limit (dB)	MPR (dB)		
40	QPSK	1	1	21.01	21.18	21.09	23.0	0.0		
Channel										
Frequency (MHz)				647668	656000	664334	Tune-up limit (dB)	MPR (dB)		
30	QPSK	1	1	21.06	21.33	21.11	23.0	0.0		
Channel										
Frequency (MHz)				647334	656000	664668	Tune-up limit (dB)	MPR (dB)		
20	QPSK	1	1	21.07	21.28	21.25	23.0	0.0		

Part27Q n77 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										
Frequency (MHz)							3500.01			
100	PI2 BPSK	1	1				18.26			
100	PI2 BPSK	1	137				18.54		20.0	0.0
100	PI2 BPSK	1	271				18.89			
100	PI2 BPSK	135	0				18.48		20.0	0.0
100	PI2 BPSK	135	69				18.65		20.0	0.0
100	PI2 BPSK	135	138				18.75		20.0	0.0
100	PI2 BPSK	270	0				18.65			
100	QPSK	1	1				18.86			
100	QPSK	1	137				18.58		20.0	0.0
100	QPSK	1	271				18.87			
100	QPSK	135	0				18.49		20.0	0.0
100	QPSK	135	69				18.74		20.0	0.0
100	QPSK	135	138				18.70		20.0	0.0
100	QPSK	270	0				18.64			
100	16QAM	1	1				18.12		20.0	0.0
100	16QAM	1	1				18.04		20.0	0.0
100	256QAM	1	1				17.15		18.5	1.5
Channel										
Frequency (MHz)				636668	633334	634000	Tune-up limit (dB)	MPR (dB)		
80	QPSK	1	1	18.65	18.74	18.88	20.0	0.0		
Channel										
Frequency (MHz)				632000	633334	634668	Tune-up limit (dB)	MPR (dB)		
60	QPSK	1	1	18.59	18.60	18.44	20.0	0.0		
Channel										
Frequency (MHz)				631668	633334	635000	Tune-up limit (dB)	MPR (dB)		
50	QPSK	1	1	18.58	18.53	18.48	20.0	0.0		
Channel										
Frequency (MHz)				631334	633334	635334	Tune-up limit (dB)	MPR (dB)		
40	QPSK	1	1	18.59	18.53	18.96	20.0	0.0		
Channel										
Frequency (MHz)				631000	633334	635668	Tune-up limit (dB)	MPR (dB)		
30	QPSK	1	1	18.51	18.54	18.58	20.0	0.0		
Channel										
Frequency (MHz)				630668	633334	636000	Tune-up limit (dB)	MPR (dB)		
20	QPSK	1	1	18.61	18.57	18.51	20.0	0.0		



Part27Q n77 PC2 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				63334						
Frequency (MHz)				3500.01						
100	PI2 BPSK	1	1		21.69					
100	PI2 BPSK	1	137		21.83		23.0	0.0		
100	PI2 BPSK	1	271		21.81					
100	PI2 BPSK	135	0		21.34		22.5	0.5		
100	PI2 BPSK	135	69		21.73		23.0	0.0		
100	PI2 BPSK	135	138		21.29		22.5	0.5		
100	PI2 BPSK	270	0		21.24					
100	QPSK	1	1		21.96					
100	QPSK	1	137		21.72		23.0	0.0		
100	QPSK	1	271		21.83					
100	QPSK	135	0		20.74		22.0	1.0		
100	QPSK	135	69		21.82		23.0	0.0		
100	QPSK	135	138		20.86		22.0	1.0		
100	QPSK	270	0		20.81					
100	16QAM	1	1		20.25		22.0	1.0		
100	16QAM	1	1		18.56		20.5	2.5		
100	256QAM	1	1		17.15		18.5	4.5		
Channel				63268	63334	63468				
Frequency (MHz)				3490.02	3500.01	3510				
80	QPSK	1	1		21.58	21.65	21.52	23.0	0.0	
Channel				63200	63334	63468				
Frequency (MHz)				3480	3500.01	3500.02				
60	QPSK	1	1		21.57	21.52	21.58	23.0	0.0	
Channel				63168	63334	63500				
Frequency (MHz)				3475.02	3500.01	3525				
50	QPSK	1	1		21.30	21.60	21.34	23.0	0.0	
Channel				63134	63334	63534				
Frequency (MHz)				3470.01	3500.01	3530.01				
40	QPSK	1	1		21.44	21.61	21.49	23.0	0.0	
Channel				63100	63334	63568				
Frequency (MHz)				3465	3500.01	3535.02				
30	QPSK	1	1		21.46	21.57	21.38	23.0	0.0	
Channel				63068	63334	63600				
Frequency (MHz)				3460.02	3500.01	3540				
20	QPSK	1	1		21.35	21.62	21.26	23.0	0.0	

Part27O n78 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				65000						
Frequency (MHz)				3750						
100	PI2 BPSK	1	1		18.61					
100	PI2 BPSK	1	137		18.42		20.0	0.0		
100	PI2 BPSK	1	271		18.44					
100	PI2 BPSK	135	0		18.46		20.0	0.0		
100	PI2 BPSK	135	69		18.50		20.0	0.0		
100	PI2 BPSK	135	138		18.49		20.0	0.0		
100	PI2 BPSK	270	0		18.50					
100	QPSK	1	1		18.69					
100	QPSK	1	137		18.43		20.0	0.0		
100	QPSK	1	271		18.43					
100	QPSK	135	0		18.48		20.0	0.0		
100	QPSK	135	69		18.49		20.0	0.0		
100	QPSK	135	138		18.48		20.0	0.0		
100	QPSK	270	0		18.45					
100	16QAM	1	1		18.20		20.0	0.0		
100	16QAM	1	1		18.21		20.0	0.0		
100	256QAM	1	1		17.35		18.5	1.5		
Channel				64968	65000	65034				
Frequency (MHz)				3745.02	3750	3755.01				
90	QPSK	1	1		18.58	18.65	18.59	20.0	0.0	
Channel				64934	65000	65068				
Frequency (MHz)				3740.01	3750	3760.02				
80	QPSK	1	1		18.56	18.50	18.51	20.0	0.0	
Channel				64900	65000	65100				
Frequency (MHz)				3735	3750	3765				
70	QPSK	1	1		18.45	18.50	18.40	20.0	0.0	
Channel				64868	65000	65134				
Frequency (MHz)				3730.02	3750	3770.01				
60	QPSK	1	1		18.36	18.39	18.32	20.0	0.0	
Channel				64834	65000	65168				
Frequency (MHz)				3725.01	3750	3775.02				
50	QPSK	1	1		18.46	18.59	18.41	20.0	0.0	
Channel				64800	65000	65200				
Frequency (MHz)				3720	3750	3780				
40	QPSK	1	1		18.55	18.40	18.51	20.0	0.0	
Channel				64768	65000	65234				
Frequency (MHz)				3715.02	3750	3785.01				
30	QPSK	1	1		18.48	18.39	18.44	20.0	0.0	
Channel				64734	65000	65268				
Frequency (MHz)				3710.01	3750	3790.02				
20	QPSK	1	1		18.41	18.56	18.49	20.0	0.0	

Part27O n78 PC2 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				65000						
Frequency (MHz)				3750						
100	PI2 BPSK	1	1		21.40					
100	PI2 BPSK	1	137		21.38		23.0	0.0		
100	PI2 BPSK	1	271		21.36					
100	PI2 BPSK	135	0		20.94		22.5	0.5		
100	PI2 BPSK	135	69		21.47		23.0	0.0		
100	PI2 BPSK	135	138		20.98		22.5	0.5		
100	PI2 BPSK	270	0		21.02					
100	QPSK	1	1		21.49					
100	QPSK	1	137		21.37		23.0	0.0		
100	QPSK	1	271		21.36					
100	QPSK	135	0		20.45		22.0	1.0		
100	QPSK	135	69		21.49		23.0	0.0		
100	QPSK	135	138		20.47		22.0	1.0		
100	QPSK	270	0		20.45					
100	16QAM	1	1		20.03		22.0	1.0		
100	16QAM	1	1		18.57		20.5	2.5		
100	256QAM	1	1		17.16		18.5	4.5		
Channel				64968	65000	65034				
Frequency (MHz)				3745.02	3750	3755.01				
90	QPSK	1	1		21.26	21.33	21.28	23.0	0.0	
Channel				64934	65000	65068				
Frequency (MHz)				3740.01	3750	3760.02				
80	QPSK	1	1		21.16	21.23	21.22	23.0	0.0	
Channel				64900	65000	65100				
Frequency (MHz)				3735	3750	3765				
70	QPSK	1	1		21.13	21.22	21.18	23.0	0.0	
Channel				64868	65000	65134				
Frequency (MHz)				3730.02	3750	3770.01				
60	QPSK	1	1		21.19	21.25	21.15	23.0	0.0	
Channel				64834	65000	65168				
Frequency (MHz)				3725.01	3750	3775.02				
50	QPSK	1	1		21.11	21.21	21.20	23.0	0.0	
Channel				64800	65000	65200				
Frequency (MHz)				3720	3750	3780				
40	QPSK	1	1		21.19	21.25	21.25	23.0	0.0	
Channel				64768	65000	65234				
Frequency (MHz)				3715.02	3750	3785.01				
30	QPSK	1	1		21.23	21.32	21.22	23.0	0.0	
Channel				64734	65000	65268				
Frequency (MHz)				3710.01	3750	3790.02				
20	QPSK	1	1		21.19	21.29	21.14	23.0	0.0	



Part27Q n78 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										
Frequency (MHz)				633332			3499.98			
100	PI/2 BPSK	1	1		18.39					
100	PI/2 BPSK	1	137		18.58		20.0	0.0		
100	PI/2 BPSK	1	271		18.74					
100	PI/2 BPSK	135	0		18.50		20.0	0.0		
100	PI/2 BPSK	135	69		18.79		20.0	0.0		
100	PI/2 BPSK	135	138		18.73		20.0	0.0		
100	PI/2 BPSK	270	0		18.72					
100	QPSK	1	1		18.62		20.0	0.0		
100	QPSK	1	137		18.58					
100	QPSK	1	271		18.72					
100	QPSK	135	0		18.49		20.0	0.0		
100	QPSK	135	69		18.64		20.0	0.0		
100	QPSK	135	138		18.54		20.0	0.0		
100	QPSK	270	0		18.73					
100	16QAM	1	1		18.14		20.0	0.0		
100	64QAM	1	1		18.16		20.0	0.0		
100	256QAM	1	1		17.90		18.5	1.5		
Channel				633000	633332	633668				
Frequency (MHz)				3495	3499.98	3505.02				
90	QPSK	1	1	18.65	18.74	18.83	20.0	0.0		
Channel										
Frequency (MHz)				632668	633332	634000				
80	QPSK	1	1	18.60	18.72	18.82	20.0	0.0		
Channel										
Frequency (MHz)				632334	633332	634334				
70	QPSK	1	1	18.56	18.70	18.58	20.0	0.0		
Channel										
Frequency (MHz)				632000	633332	634668				
60	QPSK	1	1	18.81	18.71	18.58	20.0	0.0		
Channel										
Frequency (MHz)				631668	633332	635000				
50	QPSK	1	1	18.83	18.84	18.81	20.0	0.0		
Channel										
Frequency (MHz)				3475.02	3499.98	3525				
40	QPSK	1	1	18.54	18.61	18.61	20.0	0.0		
Channel										
Frequency (MHz)				631000	633332	635668				
30	QPSK	1	1	18.54	18.62	18.57	20.0	0.0		
Channel										
Frequency (MHz)				630668	633332	636000				
20	QPSK	1	1	18.59	18.67	18.60	20.0	0.0		

Part27Q n78 PC2 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										
Frequency (MHz)				633332			3499.98			
100	PI/2 BPSK	1	1		21.52					
100	PI/2 BPSK	1	137		21.83		23.0	0.0		
100	PI/2 BPSK	1	271		21.89					
100	PI/2 BPSK	135	0		21.15		22.5	0.5		
100	PI/2 BPSK	135	69		21.89		23.0	0.0		
100	PI/2 BPSK	135	138		21.51		22.5	0.5		
100	PI/2 BPSK	270	0		21.35					
100	QPSK	1	1		21.91		23.0	0.0		
100	QPSK	1	137		21.84					
100	QPSK	1	271		21.89					
100	QPSK	135	0		20.67		22.0	1.0		
100	QPSK	135	69		21.90		23.0	0.0		
100	QPSK	135	138		21.06		22.0	1.0		
100	QPSK	270	0		21.03					
100	16QAM	1	1		20.02		22.0	1.0		
100	64QAM	1	1		18.55		20.5	2.5		
100	256QAM	1	1		17.15		18.5	4.5		
Channel				633000	633332	633668				
Frequency (MHz)				3495	3499.98	3505.02				
90	QPSK	1	1	21.84	21.89	21.88	23.0	0.0		
Channel										
Frequency (MHz)				632668	633332	634000				
80	QPSK	1	1	21.74	21.84	21.73	23.0	0.0		
Channel										
Frequency (MHz)				632334	633332	634334				
70	QPSK	1	1	21.74	21.84	21.81	23.0	0.0		
Channel										
Frequency (MHz)				632000	633332	634668				
60	QPSK	1	1	21.77	21.82	21.80	23.0	0.0		
Channel										
Frequency (MHz)				631668	633332	635000				
50	QPSK	1	1	21.74	21.89	21.77	23.0	0.0		
Channel										
Frequency (MHz)				3475.02	3499.98	3525				
40	QPSK	1	1	21.80	21.85	21.76	23.0	0.0		
Channel										
Frequency (MHz)				631000	633332	635668				
30	QPSK	1	1	21.81	21.90	21.83	23.0	0.0		
Channel										
Frequency (MHz)				630668	633332	636000				
20	QPSK	1	1	21.70	21.86	21.76	23.0	0.0		



n41 Ant 7									
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				50302	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	Pl2 BPSK	1	1	16.59	16.73	16.89			
100	Pl2 BPSK	1	137	16.73	16.75	16.89	18.0	0.0	
100	Pl2 BPSK	1	271	16.32	16.37	16.25			
100	Pl2 BPSK	135	0	16.72	16.80	16.87	18.0	0.0	
100	Pl2 BPSK	135	69	16.79	16.86	16.83	18.0	0.0	
100	Pl2 BPSK	135	138	16.63	16.75	16.89	18.0	0.0	
100	Pl2 BPSK	270	0	16.71	16.75	16.70			
100	QPSK	1	1	16.84	16.89	16.80			
100	QPSK	1	137	16.59	16.73	16.85	18.0	0.0	
100	QPSK	1	271	16.32	16.35	16.28			
100	QPSK	135	0	16.80	16.82	16.87	18.0	0.0	
100	QPSK	135	69	16.86	16.87	16.80	18.0	0.0	
100	QPSK	135	138	16.59	16.71	16.85	18.0	0.0	
100	QPSK	270	0	16.68	16.73	16.67			
100	16QAM	1	1	16.43	16.44	16.41	18.0	0.0	
100	16QAM	1	1	16.30	16.42	16.39	18.0	0.0	
100	256QAM	1	1	15.47	15.51	15.42	16.5	1.5	
Channel				50300	51898	52998			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	16.79	16.79	16.73	18.0	0.0	
Channel				507204	51898	52998			
Frequency (MHz)				2538.02	2592.99	2649.98			
80	QPSK	1	1	16.82	16.74	16.72	18.0	0.0	
Channel				505200	51898	53198			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	16.81	16.78	16.75	18.0	0.0	
Channel				504204	51898	53298			
Frequency (MHz)				2521.02	2592.99	2644.98			
50	QPSK	1	1	16.74	16.80	16.77	18.0	0.0	
Channel				503202	51898	53400			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	16.79	16.89	16.74	18.0	0.0	
Channel				502200	51898	53598			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	16.72	16.87	16.72	18.0	0.0	
Channel				501204	51898	53598			
Frequency (MHz)				2508.02	2592.99	2676.98			
20	QPSK	1	1	16.74	16.78	16.71	18.0	0.0	

n41 PC2 Ant 7									
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				50302	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	Pl2 BPSK	1	1	20.00	20.10	19.96			
100	Pl2 BPSK	1	137	20.03	20.05	19.93	21.0	0.0	
100	Pl2 BPSK	1	271	19.98	20.00	19.86			
100	Pl2 BPSK	135	0	19.85	19.89	19.57	20.5	0.5	
100	Pl2 BPSK	135	69	20.00	20.13	20.12	21.0	0.0	
100	Pl2 BPSK	135	138	19.61	19.68	19.62	20.5	0.5	
100	Pl2 BPSK	270	0	19.45	19.57	19.54			
100	QPSK	1	1	20.02	20.15	20.07			
100	QPSK	1	137	19.94	20.04	20.02	21.0	0.0	
100	QPSK	1	271	19.92	20.05	19.94			
100	QPSK	135	0	19.16	19.21	19.07	20.0	1.0	
100	QPSK	135	69	20.10	20.16	20.03	21.0	0.0	
100	QPSK	135	138	19.06	19.09	19.04	20.0	1.0	
100	QPSK	270	0	18.88	19.03	18.93			
100	16QAM	1	1	18.88	18.94	18.88	20.0	1.0	
100	16QAM	1	1	17.38	17.41	17.27	18.5	2.5	
100	256QAM	1	1	15.91	15.99	15.90	16.5	4.5	
Channel				50300	51898	52998			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.98	20.00	19.98	21.0	0.0	
Channel				507204	51898	52998			
Frequency (MHz)				2538.02	2592.99	2649.98			
80	QPSK	1	1	19.90	20.01	19.98	21.0	0.0	
Channel				505200	51898	53198			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	19.94	20.05	19.93	21.0	0.0	
Channel				504204	51898	53298			
Frequency (MHz)				2521.02	2592.99	2644.98			
50	QPSK	1	1	19.90	20.06	19.95	21.0	0.0	
Channel				503202	51898	53400			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.87	20.08	20.01	21.0	0.0	
Channel				502200	51898	53598			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.95	20.08	19.92	21.0	0.0	
Channel				501204	51898	53598			
Frequency (MHz)				2508.02	2592.99	2676.98			
20	QPSK	1	1	20.00	20.03	19.93	21.0	0.0	

Part270 n77 Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65600	66200			
Frequency (MHz)				3750	3840	3930			
100	Pl2 BPSK	1	1	21.13	21.20	21.08			
100	Pl2 BPSK	1	137	21.01	21.02	21.11	23.0	0.0	
100	Pl2 BPSK	1	271	21.15	21.01	21.11			
100	Pl2 BPSK	135	0	21.10	21.14	21.07	23.0	0.0	
100	Pl2 BPSK	135	69	21.09	21.08	21.12	23.0	0.0	
100	Pl2 BPSK	135	138	21.06	21.11	21.01	23.0	0.0	
100	Pl2 BPSK	270	0	21.08	21.10	21.05			
100	QPSK	1	1	21.40	21.48	21.37			
100	QPSK	1	137	21.09	21.07	21.04	23.0	0.0	
100	QPSK	1	271	21.02	21.08	21.15			
100	QPSK	135	0	21.10	21.09	21.02	23.0	0.0	
100	QPSK	135	69	21.07	21.12	21.08	23.0	0.0	
100	QPSK	135	138	21.10	21.10	21.10	23.0	0.0	
100	QPSK	270	0	21.04	21.11	21.09			
100	16QAM	1	1	21.19	21.01	21.07	23.0	0.0	
100	16QAM	1	1	21.06	21.09	21.06	23.0	0.0	
100	256QAM	1	1	20.02	20.08	20.00	21.5	1.5	
Channel				643334	65000	65600			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.27	21.48	21.22	23.0	0.0	
Channel				648668	65600	663334			
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	21.31	21.42	21.29	23.0	0.0	
Channel				643334	65600	663668			
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.37	21.47	21.27	23.0	0.0	
Channel				648000	65600	664000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	21.34	21.44	21.31	23.0	0.0	
Channel				647668	65600	664334			
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	21.27	21.43	21.33	23.0	0.0	
Channel				647334	65600	664668			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.31	21.41	21.24	23.0	0.0	



Part270 n77 PC2 Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR
Channel				650000	650000	650000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.01	24.02	24.01	
100	PI/2 BPSK	1	137	24.08	24.18	24.15	26.0
100	PI/2 BPSK	1	271	24.15	24.15	24.10	25.5
100	PI/2 BPSK	135	0	24.42	23.53	24.40	26.5
100	PI/2 BPSK	135	69	24.07	24.21	24.15	26.0
100	PI/2 BPSK	135	138	23.65	23.77	23.74	25.5
100	PI/2 BPSK	270	0	23.72	23.80	23.72	
100	QPSK	1	1	24.38	24.46	24.38	
100	QPSK	1	137	24.01	24.14	24.04	26.0
100	QPSK	1	271	24.01	24.12	24.08	
100	QPSK	135	0	23.08	23.01	23.02	25.0
100	QPSK	135	69	24.01	24.03	24.01	26.0
100	QPSK	135	138	23.23	23.26	23.13	25.0
100	QPSK	270	0	23.03	23.05	23.01	
100	16QAM	1	1	23.02	23.05	23.01	25.0
100	16QAM	1	1	21.85	21.81	21.51	23.5
100	256QAM	1	1	19.85	19.96	19.94	21.5
Channel				650000	650000	650000	
Frequency (MHz)				3750.01	3840	3930.02	
80	QPSK	1	1	24.32	24.33	24.28	26.0
Channel				648668	656000	663334	
Frequency (MHz)				3720.02	3840	3920.01	
60	QPSK	1	1	24.21	24.35	24.32	26.0
Channel				645334	656000	663668	
Frequency (MHz)				3725.01	3840	3955.02	
50	QPSK	1	1	24.35	24.39	24.36	26.0
Channel				648000	656000	664000	
Frequency (MHz)				3720	3840	3920	
40	QPSK	1	1	24.32	24.36	24.24	26.0
Channel				647668	656000	664334	
Frequency (MHz)				3715.02	3840	3955.01	
30	QPSK	1	1	24.30	24.33	24.33	26.0
Channel				647334	656000	664000	
Frequency (MHz)				3710.01	3840	3970.02	
20	QPSK	1	1	24.36	24.36	24.32	26.0

Part27Q n77 Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR
Channel				3500.01	3500.01	3500.01	
Frequency (MHz)				21.83	21.83	21.83	
100	PI/2 BPSK	1	1		21.83		
100	PI/2 BPSK	1	137		21.88		
100	PI/2 BPSK	1	271		21.96		23.0
100	PI/2 BPSK	135	0		21.83		23.0
100	PI/2 BPSK	135	69		21.97		23.0
100	PI/2 BPSK	135	138		22.01		23.0
100	PI/2 BPSK	270	0		22.04		
100	QPSK	1	1		22.96		
100	QPSK	1	137		21.88		23.0
100	QPSK	1	271		21.98		
100	QPSK	135	0		21.83		23.0
100	QPSK	135	69		22.03		23.0
100	QPSK	135	138		22.00		23.0
100	QPSK	270	0		21.99		
100	16QAM	1	1		21.39		23.0
100	16QAM	1	1		21.40		23.0
100	256QAM	1	1		20.49		21.5
Channel				632668	633334	634000	
Frequency (MHz)				3490.02	3500.01	3510	
80	QPSK	1	1	22.01	22.04	21.98	23.0
Channel				632000	633334	634668	
Frequency (MHz)				3490	3500.01	3520.02	
60	QPSK	1	1	21.87	22.00	21.83	23.0
Channel				631668	633334	635000	
Frequency (MHz)				3475.02	3500.01	3525	
50	QPSK	1	1	21.88	21.90	21.86	23.0
Channel				631334	633334	635334	
Frequency (MHz)				3470.01	3500.01	3530.01	
40	QPSK	1	1	21.96	21.93	21.93	23.0
Channel				631000	633334	635668	
Frequency (MHz)				3465	3500.01	3535.02	
30	QPSK	1	1	21.80	21.92	21.92	23.0
Channel				630668	633334	636000	
Frequency (MHz)				3460.02	3500.01	3540	
20	QPSK	1	1	21.98	21.93	21.95	23.0

Part27Q n77 PC2 Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR
Channel				3500.01	3500.01	3500.01	
Frequency (MHz)				21.83	21.83	21.83	
100	PI/2 BPSK	1	1		24.62		
100	PI/2 BPSK	1	137		24.64		26.0
100	PI/2 BPSK	1	271		25.01		25.5
100	PI/2 BPSK	135	0		24.38		26.0
100	PI/2 BPSK	135	69		25.04		26.0
100	PI/2 BPSK	135	138		24.61		25.5
100	PI/2 BPSK	270	0		24.58		
100	QPSK	1	1		25.99		
100	QPSK	1	137		24.93		26.0
100	QPSK	1	271		25.03		
100	QPSK	135	0		23.88		25.0
100	QPSK	135	69		25.04		26.0
100	QPSK	135	138		24.12		25.0
100	QPSK	270	0		24.02		
100	16QAM	1	1		23.34		25.0
100	16QAM	1	1		21.87		23.5
100	256QAM	1	1		20.48		21.5
Channel				632668	633334	634000	
Frequency (MHz)				3490.02	3500.01	3510	
80	QPSK	1	1	24.97	25.02	24.99	26.0
Channel				632000	633334	634668	
Frequency (MHz)				3490	3500.01	3520.02	
60	QPSK	1	1	24.84	24.99	24.84	23.0
Channel				631668	633334	635000	
Frequency (MHz)				3475.02	3500.01	3525	
50	QPSK	1	1	24.88	24.89	24.92	28.0
Channel				631334	633334	635334	
Frequency (MHz)				3470.01	3500.01	3530.01	
40	QPSK	1	1	24.91	24.91	24.89	26.0
Channel				631000	633334	635668	
Frequency (MHz)				3465	3500.01	3535.02	
30	QPSK	1	1	24.93	24.98	24.85	26.0
Channel				630668	633334	636000	
Frequency (MHz)				3460.02	3500.01	3540	
20	QPSK	1	1	24.85	24.97	24.96	26.0



Part270 n78 Ant 7

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)								
100	PI2 BPSK	1	1	21.41	3750			
100	PI2 BPSK	1	137	21.29	3750			
100	PI2 BPSK	1	271	21.18	3750		23.0	0.0
100	PI2 BPSK	135	0	21.42	3750		23.0	0.0
100	PI2 BPSK	135	69	21.38	3750		23.0	0.0
100	PI2 BPSK	135	138	21.33	3750		23.0	0.0
100	PI2 BPSK	270	0	21.41	3750			
100	QPSK	1	1	21.46	3750		23.0	0.0
100	QPSK	1	137	21.27	3750			
100	QPSK	1	271	21.17	3750			
100	QPSK	135	0	21.40	3750		23.0	0.0
100	QPSK	135	69	21.42	3750		23.0	0.0
100	QPSK	135	138	21.31	3750		23.0	0.0
100	QPSK	270	0	21.37	3750			
100	16QAM	1	1	21.19	3750		23.0	0.0
100	16QAM	1	1	21.20	3750		23.0	0.0
100	256QAM	1	1	20.31	3750		21.5	1.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.39	3750		23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.57	3750		23.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.31	3750		23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.32	3750		23.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.32	3750		23.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.28	3750		23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.38	3750		23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.32	3750		23.0	0.0

Part270 n78 PC2 Ant 7

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)								
100	PI2 BPSK	1	1	24.45	3750			
100	PI2 BPSK	1	137	24.32	3750		26.0	0.0
100	PI2 BPSK	1	271	24.13	3750		25.5	0.5
100	PI2 BPSK	135	0	23.93	3750		26.0	0.0
100	PI2 BPSK	135	69	24.40	3750		25.5	0.5
100	PI2 BPSK	135	138	23.85	3750		26.0	0.0
100	PI2 BPSK	270	0	23.93	3750			
100	QPSK	1	1	24.46	3750		26.0	0.0
100	QPSK	1	137	24.28	3750			
100	QPSK	1	271	24.13	3750			
100	QPSK	135	0	23.44	3750		25.0	1.0
100	QPSK	135	69	24.42	3750		26.0	0.0
100	QPSK	135	138	23.33	3750		25.0	1.0
100	QPSK	270	0	23.38	3750			
100	16QAM	1	1	23.20	3750		25.0	1.0
100	16QAM	1	1	21.75	3750		23.5	2.5
100	256QAM	1	1	20.35	3750		21.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	24.32	3750		26.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.17	3750		26.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	24.19	3750		26.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.22	3750		26.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	24.18	3750		26.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	24.29	3750		26.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	24.23	3750		26.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.26	3750		26.0	0.0

Part27Q n78 Ant 7

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)								
100	PI2 BPSK	1	1	21.83	3499.98			
100	PI2 BPSK	1	137	21.85	3499.98		23.0	0.0
100	PI2 BPSK	1	271	22.04	3499.98		23.0	0.0
100	PI2 BPSK	135	0	21.81	3499.98		23.0	0.0
100	PI2 BPSK	135	69	21.95	3499.98		23.0	0.0
100	PI2 BPSK	135	138	22.04	3499.98		23.0	0.0
100	PI2 BPSK	270	0	22.00	3499.98			
100	QPSK	1	1	22.05	3499.98		23.0	0.0
100	QPSK	1	137	21.85	3499.98			
100	QPSK	1	271	22.03	3499.98			
100	QPSK	135	0	21.82	3499.98		23.0	0.0
100	QPSK	135	69	22.01	3499.98		23.0	0.0
100	QPSK	135	138	22.00	3499.98		23.0	0.0
100	QPSK	270	0	21.98	3499.98			
100	16QAM	1	1	21.39	3499.98		23.0	0.0
100	16QAM	1	1	21.40	3499.98		23.0	0.0
100	256QAM	1	1	20.50	3499.98		21.5	1.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.96	3499.98		23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.91	3499.98		23.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.82	3499.98		23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.91	3499.98		23.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.84	3499.98		23.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.95	3499.98		23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.92	3499.98		23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.83	3499.98		23.0	0.0



Part27Q n78 PC2 Ant 7										
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				633332						
Frequency (MHz)				3499.98						
100	Pl/2 BPSK	1	1		24.64					
100	Pl/2 BPSK	1	137		24.61		26.0	0.0		
100	Pl/2 BPSK	1	271		25.01					
100	Pl/2 BPSK	135	0		24.33		25.5	0.5		
100	Pl/2 BPSK	135	69		24.99		26.0	0.0		
100	Pl/2 BPSK	135	138		24.56		25.5	0.5		
100	Pl/2 BPSK	270	0		24.50					
100	QPSK	1	1		25.08					
100	QPSK	1	137		24.92		26.0	0.0		
100	QPSK	1	271		25.07					
100	QPSK	135	0		24.65		25.0	1.0		
100	QPSK	135	69		25.01		26.0	0.0		
100	QPSK	135	138		24.07		25.0	1.0		
100	QPSK	270	0		23.99					
100	16QAM	1	1		23.37		25.0	1.0		
100	64QAM	1	1		21.90		23.5	2.5		
100	256QAM	1	1		20.50		21.5	4.5		
Channel				633000						
Frequency (MHz)				3496			3499.98	3505.02		
90	QPSK	1	1	24.93	25.02	24.91	26.0	0.0		
Channel				632668			633332	634000		
Frequency (MHz)				3490.02			3499.98	3510		
80	QPSK	1	1	24.80	24.90	24.79	26.0	0.0		
Channel				632334			633332	634334		
Frequency (MHz)				3485.01			3499.98	3516.01		
70	QPSK	1	1	24.87	24.93	24.79	26.0	0.0		
Channel				632000			633332	634668		
Frequency (MHz)				3476			3499.98	3520.02		
60	QPSK	1	1	24.92	24.93	24.84	26.0	0.0		
Channel				631668			633332	635000		
Frequency (MHz)				3476.02			3499.98	3525		
50	QPSK	1	1	24.86	24.87	24.87	26.0	0.0		
Channel				631334			633332	635334		
Frequency (MHz)				3470.01			3499.98	3530.01		
40	QPSK	1	1	24.83	25.00	24.77	26.0	0.0		
Channel				631000			633332	635668		
Frequency (MHz)				3462			3499.98	3533.02		
30	QPSK	1	1	24.81	24.99	24.77	26.0	0.0		
Channel				630668			633332	636000		
Frequency (MHz)				3460.02			3499.98	3540		
20	QPSK	1	1	24.85	25.01	24.86	26.0	0.0		



n41 PC3&PC2 Ant 8										
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				526200	518598	526200				
Frequency (MHz)				2546.01	2592.99	2640				
100	PI2 BPSK	1	1	14.13	14.42	14.24				
100	PI2 BPSK	1	137	14.25	14.25	14.32	15.0	0.0		
100	PI2 BPSK	1	271	14.25	14.28	14.32				
100	PI2 BPSK	135	0	14.22	14.40	14.35	15.0	0.0		
100	PI2 BPSK	135	69	14.30	14.35	14.35	15.0	0.0		
100	PI2 BPSK	135	138	14.18	14.36	14.41	15.0	0.0		
100	PI2 BPSK	270	0	14.31	14.36	14.39				
100	QPSK	1	1	14.25	14.46	14.38				
100	QPSK	1	137	14.21	14.24	14.19	15.0	0.0		
100	QPSK	1	271	14.30	14.26	14.37				
100	QPSK	135	0	14.11	14.33	14.33	15.0	0.0		
100	QPSK	135	69	14.34	14.42	14.39	15.0	0.0		
100	QPSK	135	138	14.20	14.19	14.16	15.0	0.0		
100	QPSK	270	0	14.07	14.25	14.09				
100	16QAM	1	1	14.14	14.31	14.38	15.0	0.0		
100	16QAM	1	1	14.27	14.29	14.44	15.0	0.0		
100	256QAM	1	1	14.24	14.39	14.29	15.0	0.0		
Channel				505200	518598	505200				
Frequency (MHz)				2541	2592.99	2644.98				
90	QPSK	1	1	14.22	14.41	14.31	15.0	0.0		
Channel				507204	518598	529998				
Frequency (MHz)				2536.02	2592.99	2649.99				
80	QPSK	1	1	14.18	14.42	14.30	15.0	0.0		
Channel				505200	518598	531998				
Frequency (MHz)				2526	2592.99	2659.98				
60	QPSK	1	1	14.20	14.40	14.22	15.0	0.0		
Channel				504204	518598	532998				
Frequency (MHz)				2521.02	2592.99	2654.99				
50	QPSK	1	1	14.09	14.37	14.31	15.0	0.0		
Channel				503202	518598	534000				
Frequency (MHz)				2516.01	2592.99	2670				
40	QPSK	1	1	14.21	14.39	14.24	15.0	0.0		
Channel				502200	518598	535998				
Frequency (MHz)				2511	2592.99	2674.98				
30	QPSK	1	1	14.12	14.37	14.30	15.0	0.0		
Channel				501204	518598	535998				
Frequency (MHz)				2506.02	2592.99	2679.99				
20	QPSK	1	1	14.14	14.41	14.30	15.0	0.0		

Part270 n77 PC3&PC2 Ant 8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				650000	650000	650000				
Frequency (MHz)				3750	3840	3930				
100	PI2 BPSK	1	1	14.26	14.27	14.21				
100	PI2 BPSK	1	137	14.10	14.15	14.01	16.0	0.0		
100	PI2 BPSK	1	271	14.14	14.23	14.16				
100	PI2 BPSK	135	0	14.25	14.27	14.14	16.0	0.0		
100	PI2 BPSK	135	69	14.07	14.14	14.06	16.0	0.0		
100	PI2 BPSK	135	138	14.20	14.26	14.23	16.0	0.0		
100	PI2 BPSK	270	0	14.33	14.43	14.33				
100	QPSK	1	1	14.81	14.92	14.79				
100	QPSK	1	137	14.17	14.19	14.19	16.0	0.0		
100	QPSK	1	271	14.22	14.27	14.14				
100	QPSK	135	0	14.35	14.37	14.35	16.0	0.0		
100	QPSK	135	69	14.50	14.60	14.53	16.0	0.0		
100	QPSK	135	138	14.35	14.44	14.36	16.0	0.0		
100	QPSK	270	0	14.35	14.55	14.46				
100	16QAM	1	1	14.24	14.22	14.17	16.0	0.0		
100	16QAM	1	1	14.02	14.13	14.06	16.0	0.0		
100	256QAM	1	1	14.19	14.22	14.17	16.0	0.0		
Channel				645334	650000	650000				
Frequency (MHz)				3740.01	3840	3940.02				
80	QPSK	1	1	14.45	14.49	14.43	16.0	0.0		
Channel				646868	650000	663334				
Frequency (MHz)				3730.02	3840	3950.01				
60	QPSK	1	1	14.39	14.49	14.43	16.0	0.0		
Channel				645334	650000	663668				
Frequency (MHz)				3725.01	3840	3955.02				
50	QPSK	1	1	14.40	14.48	14.39	16.0	0.0		
Channel				648000	650000	664000				
Frequency (MHz)				3720	3840	3950				
40	QPSK	1	1	14.42	14.46	14.37	16.0	0.0		
Channel				647868	650000	664334				
Frequency (MHz)				3715.02	3840	3955.01				
30	QPSK	1	1	14.44	14.46	14.43	16.0	0.0		
Channel				645334	650000	665668				
Frequency (MHz)				3710.01	3840	3970.02				
20	QPSK	1	1	14.40	14.45	14.44	16.0	0.0		

Part27Q n77 PC3&PC2 Ant 8										
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				630000	633334	630000				
Frequency (MHz)				3500.01						
100	PI2 BPSK	1	1		14.88					
100	PI2 BPSK	1	137		14.87		16.0	0.0		
100	PI2 BPSK	1	271		14.80					
100	PI2 BPSK	135	0		14.93		16.0	0.0		
100	PI2 BPSK	135	69		14.80		16.0	0.0		
100	PI2 BPSK	135	138		14.84		16.0	0.0		
100	PI2 BPSK	270	0		14.84					
100	QPSK	1	1		15.06					
100	QPSK	1	137		14.92		16.0	0.0		
100	QPSK	1	271		15.04					
100	QPSK	135	0		14.91		16.0	0.0		
100	QPSK	135	69		14.95		16.0	0.0		
100	QPSK	135	138		14.85		16.0	0.0		
100	QPSK	270	0		14.85					
100	16QAM	1	1		14.89		16.0	0.0		
100	16QAM	1	1		14.85		16.0	0.0		
100	256QAM	1	1		14.79		16.0	0.0		
Channel				632868	633334	634000				
Frequency (MHz)				3490.02	3500.01	3510				
80	QPSK	1	1	14.96	14.74	14.97	16.0	0.0		
Channel				632000	633334	634668				
Frequency (MHz)				3480	3500.01	3520.02				
60	QPSK	1	1	15.01	14.79	14.90	16.0	0.0		
Channel				631968	633334	635000				
Frequency (MHz)				3475.02	3500.01	3525				
50	QPSK	1	1	14.97	14.83	14.99	16.0	0.0		
Channel				631334	633334	635334				
Frequency (MHz)				3470.01	3500.01	3530.01				
40	QPSK	1	1	14.98	14.78	14.95	16.0	0.0		
Channel				631000	633334	635668				
Frequency (MHz)				3465	3500.01	3535.02				
30	QPSK	1	1	14.93	14.77	14.99	16.0	0.0		
Channel				630968	633334	636000				
Frequency (MHz)				3460.02	3500.01	3540				
20	QPSK	1	1	14.98	14.83	14.97	16.0	0.0		



Part270 n78 PC3&PC2 Ant 8							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel							
Frequency (MHz)				3750	3750	3750	
100	PI2 BPSK	1	1	14.78	14.78		
100	PI2 BPSK	1	137	14.78	14.78		16.0 0.0
100	PI2 BPSK	1	271	14.80	14.80		
100	PI2 BPSK	135	0	14.77	14.77		16.0 0.0
100	PI2 BPSK	135	69	14.76	14.76		16.0 0.0
100	PI2 BPSK	135	138	14.76	14.76		16.0 0.0
100	PI2 BPSK	270	0	14.71	14.71		16.0 0.0
100	QPSK	1	1	14.84	14.84		
100	QPSK	1	137	14.76	14.76		16.0 0.0
100	QPSK	1	271	14.73	14.73		
100	QPSK	135	0	14.76	14.76		16.0 0.0
100	QPSK	135	69	14.81	14.81		16.0 0.0
100	QPSK	135	138	14.78	14.78		16.0 0.0
100	QPSK	270	0	14.73	14.73		16.0 0.0
100	16QAM	1	1	14.81	14.81		16.0 0.0
100	64QAM	1	1	14.78	14.78		16.0 0.0
100	256QAM	1	1	14.78	14.78		16.0 0.0
Channel				64868	65000	65034	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01	
90	QPSK	1	1	14.83	14.80	14.75	16.0 0.0
Channel				649334	650000	650668	Tune-up limit (dB) MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02	
80	QPSK	1	1	14.82	14.79	14.72	16.0 0.0
Channel				649000	650000	651000	Tune-up limit (dB) MPR (dB)
Frequency (MHz)				3735	3750	3765	
70	QPSK	1	1	14.83	14.78	14.74	16.0 0.0
Channel				648688	650000	651334	Tune-up limit (dB) MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01	
60	QPSK	1	1	14.80	14.73	14.79	16.0 0.0
Channel				648334	650000	651668	Tune-up limit (dB) MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02	
50	QPSK	1	1	14.78	14.72	14.80	16.0 0.0
Channel				648000	650000	652000	Tune-up limit (dB) MPR (dB)
Frequency (MHz)				3720	3750	3780	
40	QPSK	1	1	14.81	14.80	14.75	16.0 0.0
Channel				647668	650000	652334	Tune-up limit (dB) MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01	
30	QPSK	1	1	14.82	14.72	14.79	16.0 0.0
Channel				647334	650000	652668	Tune-up limit (dB) MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02	
20	QPSK	1	1	14.82	14.80	14.80	16.0 0.0

Part27Q n78 PC3&PC2 Ant 8							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel							
Frequency (MHz)				3499.98			
100	PI2 BPSK	1	1	14.80	14.80		
100	PI2 BPSK	1	137	14.86	14.86		16.0 0.0
100	PI2 BPSK	1	271	14.97	14.97		
100	PI2 BPSK	135	0	14.76	14.76		16.0 0.0
100	PI2 BPSK	135	69	14.76	14.76		16.0 0.0
100	PI2 BPSK	135	138	14.98	14.98		16.0 0.0
100	PI2 BPSK	270	0	14.77	14.77		16.0 0.0
100	QPSK	1	1	15.03	15.03		
100	QPSK	1	137	14.82	14.82		16.0 0.0
100	QPSK	1	271	15.03	15.03		
100	QPSK	135	0	14.81	14.81		16.0 0.0
100	QPSK	135	69	14.92	14.92		16.0 0.0
100	QPSK	135	138	14.90	14.90		16.0 0.0
100	QPSK	270	0	14.90	14.90		16.0 0.0
100	16QAM	1	1	14.80	14.80		16.0 0.0
100	64QAM	1	1	14.79	14.79		16.0 0.0
100	256QAM	1	1	14.99	14.99		16.0 0.0
Channel				633000	633332	633668	Tune-up limit (dB) MPR (dB)
Frequency (MHz)				3495	3499.98	3505.02	
90	QPSK	1	1	14.97	14.90	14.88	16.0 0.0
Channel				632668	633332	634000	Tune-up limit (dB) MPR (dB)
Frequency (MHz)				3490.02	3499.98	3510	
80	QPSK	1	1	14.98	14.90	14.89	16.0 0.0
Channel				632334	633332	634334	Tune-up limit (dB) MPR (dB)
Frequency (MHz)				3485.01	3499.98	3515.01	
70	QPSK	1	1	14.91	14.93	14.88	16.0 0.0
Channel				632000	633332	634668	Tune-up limit (dB) MPR (dB)
Frequency (MHz)				3480	3499.98	3520.02	
60	QPSK	1	1	14.99	14.87	14.96	16.0 0.0
Channel				631668	633332	635000	Tune-up limit (dB) MPR (dB)
Frequency (MHz)				3475.02	3499.98	3525	
50	QPSK	1	1	14.99	14.89	14.93	16.0 0.0
Channel				631334	633332	635334	Tune-up limit (dB) MPR (dB)
Frequency (MHz)				3470.01	3499.98	3530.01	
40	QPSK	1	1	14.99	14.92	14.96	16.0 0.0
Channel				631000	633332	635668	Tune-up limit (dB) MPR (dB)
Frequency (MHz)				3465	3499.98	3535.02	
30	QPSK	1	1	14.94	14.88	14.89	16.0 0.0
Channel				630668	633332	636000	Tune-up limit (dB) MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540	
20	QPSK	1	1	14.93	14.96	14.93	16.0 0.0

<2.4GHz WLAN>

Mode	Channel	Frequency (MHz)	Full Power		Sensor on		Duty Cycle %
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11b 1Mbps	1	2412	17.40	19.00	9.94	11.50	100.00
	2	2417	15.62	17.50	9.91	11.50	
	6	2437	13.94	15.50	9.86	11.50	
	11	2462	14.85	16.50	9.81	11.50	
802.11g 6Mbps	1	2412	17.49	19.00		11.50	97.46
	6	2437	16.45	20.00		11.50	
	10	2457	17.62	19.00		11.50	
	11	2462	15.23	17.00		11.50	
802.11n-HT20 MCS0	3	2422	16.50	18.00	Not Required	11.50	97.30
	6	2437	17.38	19.00		11.50	
	10	2457	17.06	19.00		11.50	
	11	2462	14.09	18.00		11.50	
802.11n-HT40 MCS0	3	2422	13.51	15.00		11.50	94.71
	6	2437	15.93	17.50		11.50	
	9	2452	13.89	15.50		11.50	

<5.2GHz WLAN>

Mode	Channel	Frequency (MHz)	Full Power		Sensor on		Duty Cycle %
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11a 6Mbps	36	5186	15.05	16.50	Not Required	6.00	97.46
	40	5200	15.86	16.50		6.00	
	44	5220	16.03	16.50		6.00	
	48	5240	15.87	16.50		6.00	
802.11n-HT20 MCS0	36	5186	15.86	16.50	Not Required	6.00	97.18
	40	5200	15.93	16.50		6.00	
	44	5220	15.95	16.50		6.00	
	48	5240	15.90	16.50		6.00	
802.11n-HT40 MCS0	38	5196	14.73	16.00	Not Required	6.00	94.48
	46	5230	16.02	16.50		6.00	
	36	5186	15.81	16.50		6.00	
802.11ac-VHT20 MCS0	40	5200	15.90	16.50	Not Required	6.00	97.21
	44	5220	15.88	16.50		6.00	
	48	5240	15.85	16.50		6.00	
802.11ac-VHT40 MCS0	38	5196	14.89	16.00		6.00	94.33
802.11ac-VHT80 MCS0	46	5240	15.94	16.50		6.00	89.92
	42	5210	12.81	14.00		5.07	6.00

<5.3GHz WLAN>

Mode	Channel	Frequency (MHz)	Full Power		Sensor on		Duty Cycle %
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11a 6Mbps	52	5290	15.89	16.50	Not Required	6.00	97.46
	56	5286	16.04	16.50		6.00	
	60	5300	15.94	16.50		6.00	
	64	5320	16.04	16.50		6.00	
802.11n-HT20 MCS0	52	5290	15.96	16.50	Not Required	6.00	97.18
	56	5286	15.94	16.50		6.00	
	60	5300	15.95	16.50		6.00	
	64	5320	15.58	16.50		6.00	
802.11n-HT40 MCS0	54	5270	16.00	16.50	Not Required	6.00	94.48
	62	5310	13.94	15.50		6.00	
	52	5290	15.91	16.50		6.00	
802.11ac-VHT20 MCS0	56	5286	15.90	16.50	Not Required	6.00	97.21
	60	5300	15.93	16.50		6.00	
	64	5320	15.51	16.50		6.00	
802.11ac-VHT40 MCS0	54	5270	15.97	16.50		6.00	94.33
802.11ac-VHT80 MCS0	62	5310	13.90	15.50		6.00	89.92
	58	5290	12.23	14.00		5.07	6.00

<5.5GHz WLAN>

Mode	Channel	Frequency (MHz)	Full Power		Sensor on		Duty Cycle %	
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	100	5500	15.84	17.00	Not Required	5.50	97.46	
	116	5580	16.10	17.00		5.50		
	124	5600	16.07	17.00		5.50		
	132	5660	16.26	17.00		5.50		
	140	5700	16.08	17.00		5.50		
	144	5720	16.03	17.00		5.50		
802.11n-HT20 MCS0	100	5500	15.85	17.00	Not Required	5.50	97.18	
	116	5580	16.13	17.00		5.50		
	124	5620	16.13	17.00		5.50		
	132	5660	16.18	17.00		5.50		
	140	5700	16.09	17.00		5.50		
	144	5720	16.18	17.00		5.50		
802.11n-HT40 MCS0	102	5510	12.87	14.00	Not Required	5.50	94.48	
	110	5550	16.19	17.00		5.50		
	126	5630	16.24	17.00		5.50		
	134	5670	15.12	16.00		5.50		
	142	5710	16.31	17.00		5.50		
	100	5500	15.80	17.00		5.50		
802.11ac-VHT20 MCS0	116	5580	16.10	17.00	Not Required	5.50	97.21	
	124	5620	16.06	17.00		5.50		
	132	5660	16.14	17.00		5.50		
	140	5700	14.45	15.50		5.50		
	144	5720	16.11	17.00		5.50		
	102	5510	12.83	14.00		5.50		
802.11ac-VHT40 MCS0	110	5550	16.13	17.00	Not Required	5.50	94.33	
	126	5630	16.21	17.00		5.50		
	134	5670	15.06	16.00		5.50		
	142	5710	16.26	17.00		5.50		
	106	5530	13.04	14.00		4.82		5.50
	122	5610	16.04	17.00		4.77		5.50
802.11ac-VHT80 MCS0	138	5660	16.06	17.00		4.85	5.50	

<5.8GHz WLAN>

Mode	Channel	Frequency (MHz)	Full Power		Sensor on		Duty Cycle %	
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	149	5745	15.80	16.00	Not Required	6.50	97.46	
	157	5765	15.63	16.00		6.50		
	165	5825	15.84	16.00		6.50		
802.11n-HT20 MCS0	149	5745	15.66	16.00	Not Required	6.50	97.18	
	157	5765	15.69	16.00		6.50		
	165	5825	15.86	16.00		6.50		
802.11n-HT40 MCS0	151	5755	15.82	16.00	Not Required	6.50	94.48	
	159	5795	15.78	16.00		6.50		
	149	5745	15.61	16.00		6.50		
802.11ac-VHT20 MCS0	157	5765	15.64	16.00	Not Required	6.50	97.21	
	165	5825	15.63	16.00		6.50		
	151	5755	15.77	16.00		6.50		
802.11ac-VHT40 MCS0	159	5795	15.75	16.00		6.50	94.33	
802.11ac-VHT80 MCS0	155	5775	15.65	16.00		5.31	6.50	89.92

BT BR/EDR Ant1 Full power

Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	11.92	9.92	9.76	13.50
	CH 39	2441	12.16	10.13	10.15	13.50
	CH 78	2480	12.48	10.47	10.49	13.50

BLE 1M Ant1 Full power

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	-1.48
	CH 19	2440	-0.32
	CH 39	2480	-0.92
Tune-up Limit			0.00

BLE 2M Ant1 Full power

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	-1.07
	CH 19	2440	-0.23
	CH 39	2480	-0.50
Tune-up Limit			0.00