



Full Power Mode

<GSM Power State1>

GSM850_Ant 0					GSM850_Ant 1				
TX Channel					TX Channel				
Frequency (MHz)					Frequency (MHz)				
Burst Average Power (dBm)					Burst Average Power (dBm)				
Time-up					Time-up				
Time-down					Time-down				
Frame-Average Power (dBm)					Frame-Average Power (dBm)				
Time-up					Time-up				
Time-down					Time-down				
GSM 1 Tx slot									
GPRS/EDGE(GMSK) 1 Tx slot					GPRS/EDGE(GMSK) 1 Tx slot				
GPRS/EDGE(GMSK) 2 Tx slots					GPRS/EDGE(GMSK) 2 Tx slots				
GPRS/EDGE(GMSK) 3 Tx slots					GPRS/EDGE(GMSK) 3 Tx slots				
GPRS/EDGE(GMSK) 4 Tx slots					GPRS/EDGE(GMSK) 4 Tx slots				
EDGE 1 Tx slot					EDGE 1 Tx slot				
EDGE 2 Tx slots					EDGE 2 Tx slots				
EDGE 3 Tx slots					EDGE 3 Tx slots				
EDGE 4 Tx slots					EDGE 4 Tx slots				
DTM Multi-slot									
class 5					class 5				
GSM 1 Tx slot					GSM 1 Tx slot				
GPRS 1 Tx slot					GPRS 1 Tx slot				
GSM 1 Tx slot					GSM 1 Tx slot				
class 9					class 9				
GPRS 1 Tx slot					GPRS 1 Tx slot				
GSM 1 Tx slot					GSM 1 Tx slot				
class 11					class 11				
GPRS 2 Tx slots					GPRS 2 Tx slots				
GPRS 1 Tx slot					GPRS 1 Tx slot				
EDGE 1 Tx slot					EDGE 1 Tx slot				
EDGE 1 Tx slot					EDGE 1 Tx slot				
DTM Multi-slot					DTM Multi-slot				
class 5					class 5				
GSM 1 Tx slot					GSM 1 Tx slot				
GPRS 1 Tx slot					GPRS 1 Tx slot				
GSM 1 Tx slot					GSM 1 Tx slot				
class 9					class 9				
EDGE 1 Tx slot					EDGE 1 Tx slot				
EDGE 1 Tx slot					EDGE 1 Tx slot				
DTM Multi-slot					DTM Multi-slot				
class 11					class 11				
EDGE 2 Tx slots					EDGE 2 Tx slots				

GSM1900_Ant 4				GSM1900_Ant 5								
TX Channel				TX Channel								
Frequency (MHz)	1850.2	1850	1909.8	Limit	Frequency (MHz)	1850.2	1850	1909.8	Limit			
GSM 1 Tx slot	29.27	29.30	29.25	30.00	20.27	20.30	20.25	21.00	29.27	29.30	29.25	30.00
GPRS/EDGE(GMSK) 1 Tx slot	25.25	25.22	25.20	30.00	20.26	20.22	20.20	21.00	25.25	25.22	25.20	30.00
GPRS/EDGE(GMSK) 2 Tx slots	25.75	25.80	25.77	27.00	19.75	19.80	19.77	21.00	25.75	25.80	25.77	27.00
GPRS/EDGE(GMSK) 3 Tx slots	23.99	23.96	23.99	25.20	19.73	19.70	19.73	20.94	23.99	23.96	23.99	25.20
GPRS/EDGE(GMSK) 4 Tx slots	23.10	23.15	23.09	24.50	20.10	20.15	20.09	21.50	23.10	23.15	23.09	24.50
EDGE 1 Tx slot	25.00	24.96	24.91	26.00	15.00	15.96	15.91	17.00	25.00	24.96	24.91	26.00
EDGE 2 Tx slots	21.82	21.80	21.71	23.00	15.82	15.80	15.71	17.00	21.82	21.80	21.71	23.00
EDGE 3 Tx slots	19.71	19.61	19.73	21.20	15.45	15.35	15.47	16.94	19.71	19.61	19.73	21.20
EDGE 4 Tx slots	18.88	18.75	18.77	20.30	15.88	15.75	15.77	17.30	18.88	18.75	18.77	20.30
DTM Multi-slot	GSM 1 Tx slot				GSM 1 Tx slot				GSM 1 Tx slot			
class 5	GPRS 1 Tx slot				GPRS 1 Tx slot				GPRS 1 Tx slot			
DTM Multi-slot	GSM 1 Tx slot				GSM 1 Tx slot				GSM 1 Tx slot			
class 9	GPRS 1 Tx slot				GPRS 1 Tx slot				GPRS 1 Tx slot			
DTM Multi-slot	GSM 1 Tx slot				GSM 1 Tx slot				GSM 1 Tx slot			
class 11	GPRS 2 Tx slots				GPRS 2 Tx slots				GPRS 2 Tx slots			
DTM Multi-slot	EDGE 1 Tx slot				EDGE 1 Tx slot				EDGE 1 Tx slot			
class 5	EDGE 1 Tx slot				EDGE 1 Tx slot				EDGE 1 Tx slot			
DTM Multi-slot	EDGE 1 Tx slot				EDGE 1 Tx slot				EDGE 1 Tx slot			
class 9	EDGE 1 Tx slot				EDGE 1 Tx slot				EDGE 1 Tx slot			
DTM Multi-slot	GSM 1 Tx slot				GSM 1 Tx slot				GSM 1 Tx slot			
class 11	EDGE 2 Tx slots				EDGE 2 Tx slots				EDGE 2 Tx slots			

<WCDMA State1>

Band		WCDMA R99_Ant 4			WCDMA R99_Ant 4			Band				
TX Channel		5932	5400	5538	Time-up Limit (dBm)		1312	1413	1513	Time-up Limit (dBm)		
RX Channel		5932	5400	5538			1312	1413	1513			
Frequency (MHz)		1852.4	1850	1907.5			1712.4	1712.5	1752.5			
3GPP Rel 99	AMR 12.2Kbps	22.82	22.66	22.60	23.50	22.77	22.80	22.76	23.50	22.82	22.66	22.60
3GPP Rel 99	RMC 12.2Kbps	22.88	22.70	22.65	23.50	22.79	22.63	22.80	23.50	22.88	22.70	22.65
3GPP Rel 99	HSDPA Subtest-1	21.97	21.85	21.79	22.50	21.72	21.81	21.91	22.50	21.97	21.85	21.79
3GPP Rel 99	HSDPA Subtest-2	21.87	21.84	21.77	22.50	21.75	21.85	21.94	22.50	21.87	21.84	21.77
3GPP Rel 99	HSDPA Subtest-3	21.46	21.34	21.28	22.00	21.26	21.33	21.38	22.00	21.46	21.34	21.28
3GPP Rel 99	HSDPA Subtest-4	21.47	21.29	21.27	22.00	21.22	21.32	21.40	22.00	21.47	21.29	21.27
3GPP Rel 99	DC-HSDPA Subtest-1	21.95	21.81	21.77	22.50	21.70	21.78	21.83	22.50	21.95	21.81	21.77
3GPP Rel 99	DC-HSDPA Subtest-2	21.93	21.77	21.68	22.50	21.72	21.78	21.83	22.50	21.93	21.77	21.68
3GPP Rel 99	DC-HSDPA Subtest-3	21.38	21.33	21.25	22.00	21.17	21.24	21.30	22.00	21.38	21.33	21.25
3GPP Rel 99	DC-HSDPA Subtest-4	21.45	21.25	21.24	22.00	21.15	21.26	21.36	22.00	21.45	21.25	21.24
3GPP Rel 99	HSPA Subtest-1	21.99	21.89	21.89	22.50	21.81	21.85	21.98	22.50	21.99	21.89	21.89
3GPP Rel 99	HSPA Subtest-2	20.03	19.93	19.89	20.50	19.76	19.88	20.02	20.50	20.03	19.93	19.89
3GPP Rel 99	HSPA Subtest-3	20.00	19.93	19.86	20.50	19.88	19.87	19.99	20.50	20.00	19.93	19.86
3GPP Rel 99	HSPA Subtest-4	20.00	19.95	19.86	20.50	19.80	19.85	19.97	20.50	20.00	19.95	19.86
3GPP Rel 99	HSPA Subtest-5	22.00	21.90	21.80	22.50	21.80	21.90	22.00	22.50	22.00	21.90	21.80
3GPP Rel 7	HSPA+ (60QAM) Subtest-1	19.92	20.02	19.99	20.50	20.00	20.09	20.03	20.50	19.92	20.02	19.99

<WCDMA State1>

Band		WCDMA V. A-64			Turn-on Time (dBm)
TX Channel		4132	4182	4233	
Frequency (MHz)		4268	4300	4356	
3GPP Rel 99	AMR 12.2Kbps	23.91	23.95	23.88	24.30
3GPP Rel 99	RMC 12.2Kbps	23.96	23.89	23.92	24.30
3GPP Rel 99	HSDPA Subtest-1	23.05	23.02	22.98	23.30
3GPP Rel 99	HSDPA Subtest-2	22.58	22.54	22.45	22.80
3GPP Rel 99	HSDPA Subtest-3	22.50	22.48	22.40	22.80
3GPP Rel 99	DC-HSDPA Subtest-1	22.40	22.38	22.25	23.30
3GPP Rel 99	DC-HSDPA Subtest-2	22.92	22.86	22.87	23.30
3GPP Rel 99	DC-HSDPA Subtest-3	22.65	22.44	22.43	22.80
3GPP Rel 99	DC-HSDPA Subtest-4	22.40	22.38	22.24	22.80
3GPP Rel 99	HSPA Subtest-1	22.86	22.86	22.86	23.30
3GPP Rel 99	HSPA Subtest-2	21.03	21.06	20.92	21.30
3GPP Rel 99	HSPA Subtest-3	22.05	22.10	21.91	22.30
3GPP Rel 99	HSPA Subtest-4	20.75	20.87	20.91	21.30
3GPP Rel 99	HSPA Subtest-5	22.70	23.00	23.20	23.30
3GPP Rel 7	HSPA+ (MCS) Subtest-1	21.11	21.15	21.13	21.30

GSM850_Ant 1		Burst Average Power (dBm)		Tune-up		Frame Average Power (dBm)		Tune-up	
TX Channel		TX Channel		TX Channel		TX Channel		TX Channel	
Frequency (MHz)		824.2	836.4	848.8	860	872.2	884.4	896.8	908
GSM 1 Tx slot		33.30	33.33	33.30	34.00	24.30	24.33	24.20	25.00
GPRSEDGE (GSMK) 1 Tx slot		33.24	33.22	33.24	34.20	24.24	24.27	24.12	25.00
GPRSEDGE (GSMK) 1 Tx slot		29.80	29.85	29.87	31.00	20.80	20.85	20.77	21.00
GPRSEDGE (GSMK) 1 Tx slot		27.88	28.00	27.90	29.20	23.60	23.74	23.64	24.94
EDGE 1 Tx slot		26.87	27.00	26.87	28.00	22.60	22.74	22.64	23.94
EDGE 1 Tx slot		21.71	21.79	21.71	22.00	17.51	17.59	17.57	18.00
EDGE 2 Tx slot		23.72	23.51	23.79	25.00	17.72	17.51	17.79	19.00
EDGE 4 Tx slot		21.83	21.70	21.72	22.00	17.72	17.51	17.74	19.00
EDGE 4 Tx slot		20.91	20.80	20.74	22.50	17.91	17.80	17.74	18.54
DTM Multi-slot class 5		20.70	20.74	20.72	31.00	23.64	23.72	23.66	24.98
DTM Multi-slot class 5		20.62	20.75	20.62	31.00	23.76	23.78	23.68	24.98
class 9		20.74	20.75	20.77	31.00	23.70	23.81	23.68	24.94
DTM Multi-slot class 11		27.65	28.04	27.65	29.00	23.20	23.23	23.23	24.94
DTM Multi-slot class 11		27.58	28.09	27.52	29.00	23.20	23.23	23.23	24.94
DTM Multi-slot class 9		20.69	20.67	20.76	31.00	21.73	21.68	21.61	22.94
DTM Multi-slot class 9		20.62	20.76	20.62	31.00	21.73	21.68	21.61	22.94
DTM Multi-slot class 11		20.83	20.79	20.74	31.00	21.68	21.63	21.64	22.94
class 9		23.35	23.25	23.53	25.00	20.52	20.58	20.57	21.94
DTM Multi-slot class 11		22.87	22.86	22.86	25.00	20.52	20.58	20.57	21.94
class 11		21.60	21.40	21.48	23.20				

Band 2_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 Frequency (MHz)								
				18700	18900	19100		
20	QPSK	1	0	22.56	22.6	22.58	23.8	0
20	QPSK	1	49	22.5	22.55	22.56		
20	QPSK	1	99	22.38	22.35	22.38		
20	QPSK	50	0	21.55	21.64	21.58	22.8	1
20	QPSK	50	24	21.54	21.55	21.55		
20	QPSK	50	50	21.49	21.52	21.5		
20	QPSK	100	0	21.51	21.55	21.54	22.8	1
20	16QAM	1	0	21.92	21.73	21.68		
20	16QAM	1	49	21.79	21.84	21.78		
20	16QAM	1	99	21.6	21.72	21.73	21.8	2
20	16QAM	50	0	20.68	20.59	20.48		
20	16QAM	50	24	20.56	20.56	20.54		
20	16QAM	50	50	20.51	20.5	20.51	21.8	2
20	16QAM	100	0	20.53	20.54	20.55		
20	16QAM	100	0	20.78	20.68	20.72		
20	64QAM	1	49	20.7	20.68	20.65	20.8	3
20	64QAM	1	99	20.59	20.51	20.69		
20	64QAM	50	0	19.64	19.59	19.48		
20	64QAM	50	24	19.58	19.57	19.57	18.8	5
20	64QAM	50	50	19.5	19.52	19.54		
20	64QAM	100	0	19.55	19.54	19.55		
20	256QAM	1	0	17.62	17.65	17.52	17.51	5
20	256QAM	1	49	17.50	17.52	17.34		
20	256QAM	1	99	17.50	17.59	17.47		
20	256QAM	50	0	17.51	17.55	17.41	17.51	5
20	256QAM	50	24	17.41	17.60	17.50		
20	256QAM	50	50	17.46	17.65	17.60		
20	256QAM	100	0	17.48	17.55	17.55	23.8	0
15	QPSK	1	0	22.44	22.54	22.48		
15	QPSK	1	37	22.46	22.32	22.3		
15	QPSK	1	74	22.24	22.31	22.3	22.8	1
15	QPSK	36	0	21.52	21.44	21.41		
15	QPSK	36	20	21.5	21.5	21.46		
15	QPSK	36	39	21.38	21.4	21.43	22.8	1
15	QPSK	75	0	21.37	21.4	21.48		
15	16QAM	1	0	21.82	21.59	21.63		
15	16QAM	1	37	21.74	21.73	21.65	21.8	2
15	16QAM	1	74	21.5	21.58	21.68		
15	16QAM	36	0	20.59	20.45	20.35		
15	16QAM	36	20	20.47	20.48	20.41	18.8	5
15	16QAM	36	39	20.43	20.39	20.41		
15	16QAM	75	0	20.44	20.46	20.41		
15	64QAM	1	0	20.69	20.58	20.63	21.8	2
15	64QAM	1	37	20.64	20.56	20.59		
15	64QAM	1	74	20.53	20.42	20.57		
15	64QAM	36	0	19.6	19.5	19.43	20.8	3
15	64QAM	36	20	19.45	19.52	19.46		
15	64QAM	36	39	19.39	19.46	19.46		
15	64QAM	75	0	19.47	19.46	19.46	18.8	5
15	256QAM	1	0	17.58	17.57	17.43		
15	256QAM	1	37	17.46	17.48	17.20		
15	256QAM	1	74	17.44	17.45	17.35	18.8	5
15	256QAM	36	0	17.42	17.46	17.34		
15	256QAM	36	20	17.28	17.46	17.45		
15	256QAM	36	39	17.32	17.59	17.50	23.8	0
15	256QAM	75	0	17.41	17.42	17.42		
Channel Frequency (MHz)								
				18650	18850	19150		
10	QPSK	1	0	22.52	22.31	22.27	23.8	0
10	QPSK	1	25	22.48	22.45	22.49		
10	QPSK	1	49	22.32	22.31	22.31		
10	QPSK	25	0	21.59	21.51	21.51	22.8	1
10	QPSK	25	12	21.43	21.42	21.49		
10	QPSK	25	25	21.42	21.45	21.41		
10	QPSK	50	0	21.39	21.43	21.5	22.8	1
10	QPSK	50	25	21.37	21.43	21.39		
10	16QAM	1	0	21.87	21.61	21.59		
10	16QAM	1	25	21.74	21.73	21.69	21.8	2
10	16QAM	1	49	21.48	21.68	21.64		
10	16QAM	25	0	20.55	20.47	20.42		
10	16QAM	25	12	20.44	20.45	20.48	20.8	3
10	16QAM	25	25	20.47	20.39	20.43		
10	16QAM	50	0	20.41	20.49	20.42		
10	64QAM	1	0	20.65	20.62	20.61	21.8	2
10	64QAM	1	25	20.6	20.3	20.54		
10	64QAM	1	49	20.48	20.46	20.64		
10	64QAM	25	0	19.51	19.45	19.38	18.8	5
10	64QAM	25	12	19.45	19.5	19.49		
10	64QAM	25	25	19.38	19.46	19.44		
10	64QAM	50	0	19.41	19.41	19.5	18.8	5
10	256QAM	1	0	17.55	17.60	17.38		
10	256QAM	1	25	17.42	17.48	17.27		
10	256QAM	1	49	17.45	17.47	17.35	18.8	5
10	256QAM	25	0	17.45	17.43	17.45		
10	256QAM	25	12	17.32	17.48	17.41		
10	256QAM	25	25	17.32	17.55	17.53	23.8	0
10	256QAM	50	0	17.34	17.45	17.44		
Channel Frequency (MHz)								
				18625	18825	19175		
5	QPSK	1	0	22.43	22.4	22.27	23.8	0
5	QPSK	1	12	22.45	22.55	22.42		
5	QPSK	1	24	22.28	22.25	22.34		
5	QPSK	12	0	21.6	21.44	21.4	22.8	1
5	QPSK	12	7	21.44	21.5	21.48		
5	QPSK	12	13	21.36	21.48	21.43		
5	QPSK	25	0	21.46	21.4	21.48	22.8	1
5	QPSK	25	13	21.38	21.5	21.55		
5	16QAM	1	0	21.83	21.66	21.59		
5	16QAM	1	12	21.67	21.6	21.73	21.8	2
5	16QAM	1	24	21.52	21.6	21.62		
5	16QAM	12	0	20.57	20.45	20.35		
5	16QAM	12	7	20.46	20.45	20.5	21.8	2
5	16QAM	12	13	20.45	20.43	20.45		
5	16QAM	25	0	20.42	20.49	20.43		
5	16QAM	25	0	20.71	20.58	20.64	21.8	2
5	16QAM	25	1	20.58	20.59	20.69		
5	64QAM	1	0	20.5	20.39	20.61		
5	64QAM	12	0	19.56	19.47	19.4	20.8	3
5	64QAM	12	7	19.54	19.53	19.5		
5	64QAM	12	13	19.44	19.48	19.42		
5	64QAM	25	0	19.42	19.5	19.48	18.8	5
5	256QAM	1	0	17.49	17.61	17.47		
5	256QAM	1	12	17.46	17.46	17.30		
5	256QAM	1	24	17.47	17.49	17.41	18.8	5
5	256QAM	12	0	17.40	17.49	17.33		
5	256QAM	12	7	17.27	17.51	17.36		
5	256QAM	12	13	17.41	17.58	17.45	23.8	0
5	256QAM	25	0	17.44	17.48	17.51		
Channel Frequency (MHz)								
				18615	18815	19015		
3	QPSK	1	0	22.51	22.36	22.35	23.8	0
3	QPSK	1	8	22.43	22.54	22.52		
3	QPSK	1	14	22.29	22.31	22.33		
3	QPSK	8	0	21.52	21.43	21.42	22.8	1
3	QPSK	8	4	21.49	21.41	21.45		
3	QPSK	8	7	21.37	21.40	21.37		
3	QPSK	15	0	21.44	21.48	21.48	22.8	1
3	16QAM	1	0	21.87	21.64	21.57		
3	16QAM	1	8	21.65	21.77	21.66		
3	16QAM	1	14	21.53	21.58	21.65	21.8	2
3	16QAM	8	0	20.82	20.54	20.40		
3	16QAM	8	4	20.43	20.42	20.43		
3	16QAM	8	7	20.47	20.41	20.39	21.8	2
3	16QAM	15	0	20.43	20.42	20.50		
3	16QAM	15	0	20.65	20.61	20.60		
3	64QAM	1	8	20.66	20.63	20.58	20.8	3
3	64QAM	1	14	20.54	20.39	20.59		
3	64QAM	8	0	19.53	19.54	19.41		
3	64QAM	8	4	19.51	19.53	19.46	18.8	5
3	64QAM	8	7	19.44	19.43	19.41		
3	64QAM	15	0	19.44	19.48	19.46		
3	256QAM	1	0	17.50	17.53	17.48	18.8	5
3	256QAM	1	8	17.40	17.41	17.25		
3	256QAM	14	0	17.38	17.50	17.42		
3	256QAM	8	0	17.38	17.48	17.35	18.8	5
3	256QAM	8	4	17.35	17.38	17.42		
3	256QAM	8	7	17.35	17.59	17.52		
3	256QAM	15	0	17.37	17.40	17.43	23.8	0
3	256QAM	15	0	17.37	17.52	17.45		
Channel Frequency (MHz)								
				18607	18802	19103		
1.4	QPSK	1	0	22.50	22.5	22.51	23.8	0
1.4	QPSK	1	3	22.45	22.5	22.52		
1.4	QPSK	1	5	22.49	22.51	22.55		
1.4	QPSK	3	0	22.44	22.51	22.55	22.8	1
1.4	QPSK	3	1	22.52	22.50	22.42		
1.4	QPSK	3	3	22.50	22.56	22.59		
1.4	QPSK	6	0	21.76	21.68	21.61	22.8	1
1.4	16QAM	1	0	22.03	21.94	21.94		
1.4	16QAM	1	3	22.08	22.04	22.06		
1.4	16QAM	1	5	22.09	22.08	21.99	21.8	2
1.4	16QAM	3	0	21.78	21.79	21.77		
1.4	16QAM	3	1	21.90	21.78	21.72		
1.4	16QAM	3	3	21.87	21.77	21.65	18.8	5
1.4	64QAM	1	0	20.80	20.72	20.69		
1.4	64QAM	1	3	20.80	20.80	20.80		
1.4	64QAM	3	0	20.83	20.79	20.79	21.8	2
1.4	64QAM	3	1	20.82	20.75	20.75		
1.4	64QAM	3	3	20.85	20.78	20.68		
1.4	64QAM	6	0	20.80	19.62	19.69	20.8	3
1.4	256QAM	1	0	17.61	17.47	17.44		
1.4	256QAM	1	3	17.49	17.42	17.29		
1.4	256QAM	1	5	17.49	17.58	17.45	18.8	5
1.4	256QAM	3	0	17.49	17.52	17.35		
1.4	256QAM	3	1	17.37	17.52	17.45		
1.4	256QAM	3	3	17.39	17.59	17.49	18.8	5
1.4	256QAM	6	0	17.49	17.44	17.45		
1.4	256QAM	6	1	17.37	17.52	17.45		



Band 2_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)								
				18700	18900	19100		
				18700	18800	18900		
20	QPSK	1	0	23.53	23.55	23.45	24.3	0
20	QPSK	1	49	23.44	23.50	23.40		
20	QPSK	1	99	23.38	23.48	23.44		
20	QPSK	50	0	21.91	21.92	21.83	23.3	1
20	QPSK	50	24	21.89	21.90	21.80		
20	QPSK	50	50	21.81	21.89	21.76		
20	QPSK	100	0	21.89	21.98	21.94		
20	16QAM	1	0	21.87	21.98	21.87	23.3	1
20	16QAM	1	49	21.89	21.98	21.87		
20	16QAM	1	99	21.90	21.93	21.78		
20	16QAM	50	0	20.93	21.00	20.95		
20	16QAM	50	24	20.91	20.95	20.77	22.3	2
20	16QAM	50	50	20.93	20.99	20.82		
20	16QAM	100	0	20.98	21.02	20.97		
20	64QAM	1	0	21.01	21.05	21.00		
20	64QAM	1	49	20.91	21.10	21.10	22.3	2
20	64QAM	1	99	20.82	20.98	20.91		
20	64QAM	50	0	19.90	19.95	19.89		
20	64QAM	50	24	19.69	19.88	19.79	21.3	3
20	256QAM	1	0	19.81	20.00	19.93		
20	256QAM	100	0	19.98	19.98	19.96		
20	256QAM	1	0	17.91	17.98	17.94	19.3	5
20	256QAM	1	49	17.98	18.05	17.98		
20	256QAM	1	99	17.79	17.86	17.93		
20	256QAM	50	0	17.91	17.98	17.93		
20	256QAM	50	24	17.82	17.92	17.76	19.3	5
20	256QAM	50	50	17.87	18.00	17.85		
20	256QAM	100	0	17.83	18.02	17.94		
Channel Frequency (MHz)								
				18875	18900	19025	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	23.50	23.40	23.37	24.3	0
15	QPSK	1	25	23.26	23.47	23.23		
15	QPSK	1	74	23.28	23.48	23.39		
15	QPSK	36	0	21.76	21.95	21.83	23.3	1
15	QPSK	36	20	21.80	21.81	21.74		
15	QPSK	36	39	21.77	21.72	21.68		
15	QPSK	75	0	21.87	21.85	21.81	23.3	1
15	16QAM	1	0	21.78	21.88	21.68		
15	16QAM	1	37	21.71	21.93	21.84	23.3	1
15	16QAM	1	74	21.81	21.82	21.73		
15	16QAM	36	0	20.92	20.91	20.84	22.3	2
15	16QAM	36	20	20.81	20.87	20.87		
15	16QAM	36	39	20.80	20.80	20.69		
15	16QAM	75	0	20.91	20.92	20.82		
15	64QAM	1	0	20.87	20.87	20.86	22.3	2
15	64QAM	1	37	20.77	20.98	20.96		
15	64QAM	1	74	20.79	20.80	20.86	22.3	2
15	64QAM	36	0	19.81	19.91	19.80	21.3	3
15	64QAM	36	20	19.82	19.69	19.72		
15	64QAM	36	39	19.81	19.99	19.93		
15	64QAM	75	0	19.73	19.80	19.83		
15	256QAM	1	0	17.81	17.84	17.84	19.3	5
15	256QAM	1	37	17.98	17.94	17.94		
15	256QAM	1	74	17.69	17.93	17.93		
15	256QAM	36	0	17.83	17.87	17.85	19.3	5
15	256QAM	36	20	17.71	17.87	17.85		
15	256QAM	36	39	17.89	17.87	17.77		
15	256QAM	75	0	17.80	17.98	17.91		
Channel Frequency (MHz)								
				18925	18950	19075	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	23.37	23.50	23.38	24.3	0
10	QPSK	1	25	23.43	23.48	23.25		
10	QPSK	1	49	23.22	23.36	23.39		
10	QPSK	1	74	23.27	23.44	21.91		
10	QPSK	25	12	21.73	21.92	21.71	23.3	1
10	QPSK	25	25	21.70	21.80	21.67		
10	QPSK	50	0	21.89	21.88	21.87	23.3	1
10	QPSK	50	25	21.85	21.92	21.70		
10	16QAM	1	0	21.85	21.92	21.71	23.3	1
10	16QAM	1	25	21.77	21.92	21.71		
10	16QAM	1	49	21.76	21.82	21.68		
10	16QAM	25	0	20.87	20.99	20.89	22.3	2
10	16QAM	25	12	20.82	20.82	20.68		
10	16QAM	25	25	20.91	20.94	20.80		
10	16QAM	50	0	20.85	20.85	20.84	21.3	3
10	64QAM	1	0	20.96	20.91	20.95		
10	64QAM	1	25	20.87	21.02	21.06	22.3	2
10	64QAM	1	49	20.67	20.95	20.76		
10	64QAM	25	0	19.76	19.88	19.75		
10	64QAM	25	12	19.63	19.87	19.73		
10	64QAM	25	25	19.69	19.98	19.81		
10	64QAM	50	0	19.70	19.90	19.80		
10	256QAM	1	0	17.78	17.85	17.81	19.3	5
10	256QAM	1	25	17.82	18.02	17.78		
10	256QAM	1	49	17.83	17.91	17.87		
10	256QAM	25	0	17.80	17.85	17.82		
10	256QAM	25	12	17.83	17.73	17.57	19.3	5
10	256QAM	25	25	17.73	17.80	17.81		
10	256QAM	50	0	17.70	18.01	17.81		
Channel Frequency (MHz)								
				18925	18950	19075	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	23.44	23.42	23.41	24.3	0
5	QPSK	1	12	23.26	23.41	23.25		
5	QPSK	1	24	23.26	23.41	23.42		
5	QPSK	12	0	21.71	21.95	21.53	23.3	1
5	QPSK	12	7	21.77	21.84	21.78		
5	QPSK	12	13	21.62	21.80	21.57		
5	QPSK	25	0	21.79	21.77	21.77	23.3	1
5	16QAM	1	0	21.77	21.98	21.85	23.3	1
5	16QAM	1	12	21.73	21.91	21.84		
5	16QAM	1	24	21.73	21.90	21.71		
5	16QAM	12	0	20.88	20.93	20.90	22.3	2
5	16QAM	12	7	20.77	20.78	20.63		
5	16QAM	12	13	20.75	20.80	20.64		
5	16QAM	25	0	20.90	20.92	20.89	22.3	2
5	64QAM	1	0	20.98	21.04	20.97		
5	64QAM	1	12	20.82	20.91	21.01	22.3	2
5	64QAM	1	24	20.70	20.93	20.79		
5	64QAM	12	0	19.74	19.78	19.73		
5	64QAM	12	7	19.65	19.73	19.75	21.3	3
5	64QAM	12	13	19.71	19.97	19.83		
5	64QAM	25	0	19.69	19.98	19.79		
5	256QAM	1	0	17.85	17.81	17.88	19.3	5
5	256QAM	1	12	17.86	17.95	17.82		
5	256QAM	1	24	17.74	17.98	17.88		
5	256QAM	12	0	17.80	17.93	17.82		
5	256QAM	12	7	17.72	17.74	17.66	19.3	5
5	256QAM	12	13	17.77	17.86	17.85		
5	256QAM	25	0	17.72	18.02	17.83		
Channel Frequency (MHz)								
				18815	18900	19095	Tune-up limit (dBm)	MPR (dB)
3	QPSK	1	0	23.39	23.46	23.29	24.3	0
3	QPSK	1	8	23.26	23.49	23.22		
3	QPSK	1	14	23.34	23.48	23.38		
3	QPSK	8	0	21.88	21.94	21.87	23.3	1
3	QPSK	8	4	21.74	21.88	21.72		
3	QPSK	8	7	21.72	21.87	21.68		
3	16QAM	1	0	21.74	21.88	21.75	23.3	1
3	16QAM	1	8	21.78	21.85	21.81		
3	16QAM	1	14	21.79	21.77	21.80		
3	16QAM	8	0	20.85	20.94	20.87	22.3	2
3	16QAM	8	4	20.80	20.88	20.66		
3	16QAM	8	7	20.82	20.85	20.71		
3	16QAM	15	0	20.95	20.87	20.94		
3	64QAM	1	0	20.93	21.05	20.92	22.3	2
3	64QAM	1	8	20.78	20.91	20.97		
3	64QAM	1	14	20.85	20.79	20.74		
3	64QAM	8	0	19.85	19.80	19.84	21.3	3
3	64QAM	8	4	19.59	19.83	19.69		
3	64QAM	8	7	19.63	19.92	19.75		
3	64QAM	15	0	19.86	19.95	19.96		
3	256QAM	1	0	17.82	17.89	17.85	19.3	5
3	256QAM	1	8	17.91	17.98	17.87		
3	256QAM	1	14	17.72	17.81	17.86		
3	256QAM	8	0	17.88	17.85	17.90		
3	256QAM	8	4	17.79	17.78	17.73	19.3	5
3	256QAM	8	7	17.88	17.85	17.84		
3	256QAM	15	0	17.75	17.99	17.86		
Channel Frequency (MHz)								
				18807	18900	19093	Tune-up limit (dBm)	MPR (dB)
1.4	QPSK	1	0	23.40	23.47	23.28	24.3	0
1.4	QPSK	1	3	23.36	23.38	23.38		
1.4	QPSK	1	5	23.30	23.45	23.44		
1.4	QPSK	3	0	23.36	23.54	23.32		
1.4	QPSK	3	1	23.63	23.46	23.28	24.3	1
1.4	QPSK	3	3	23.48	23.43	23.43		
1.4	QPSK	6	0	21.75	21.75	21.79	23.3	1
1.4	16QAM	1	0	21.85	21.98	21.82	23.3	1
1.4	16QAM	1	3	21.83	21.94	21.83		
1.4	16QAM	1	5	21.74	21.79	21.83		
1.4	16QAM	3	0	21.88	21.78	21.85		

Band 4_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								
Frequency (MHz)				20050	20175	20300		
				1720	17325	1745		
20	QPSK	1	0	22.55	22.65	22.6	23.4	0
20	QPSK	1	49	22.53	22.6	22.58		
20	QPSK	1	99	22.44	22.48	22.54		
20	QPSK	50	0	21.56	21.66	21.63	22.4	1
20	QPSK	50	24	21.51	21.57	21.61		
20	QPSK	50	50	21.5	21.56	21.6		
20	QPSK	100	0	21.5	21.63	21.58	22.4	1
20	16QAM	1	0	21.84	21.81	21.86		
20	16QAM	1	49	21.72	21.55	21.84		
20	16QAM	1	99	21.69	21.79	21.7	21.4	2
20	16QAM	50	0	20.5	20.54	20.58		
20	16QAM	50	24	20.56	20.58	20.65		
20	16QAM	50	50	20.52	20.55	20.64	21.4	2
20	16QAM	100	0	20.56	20.61	20.64		
20	64QAM	1	0	20.78	20.75	20.7		
20	64QAM	1	49	20.69	20.67	20.77	21.4	2
20	64QAM	1	99	20.68	20.63	20.7		
20	64QAM	50	0	19.49	19.53	19.56		
20	64QAM	50	24	19.54	19.54	19.56	20.4	3
20	64QAM	50	50	19.53	19.57	19.64		
20	64QAM	100	0	19.56	19.58	19.65		
20	256QAM	1	0	17.48	17.65	17.63	18.4	5
20	256QAM	1	49	17.69	17.69	17.64		
20	256QAM	1	99	17.65	17.70	17.54		
20	256QAM	50	0	17.62	17.66	17.49	18.4	5
20	256QAM	50	24	17.51	17.58	17.56		
20	256QAM	50	50	17.45	17.60	17.48		
20	256QAM	100	0	17.46	17.63	17.47		
Channel								
Frequency (MHz)				20050	20175	20300	Tune-up limit (dBm)	MPR (dB)
				1717.5	1732.5	1747.5		
15	QPSK	1	0	22.35	22.41	22.52	23.4	0
15	QPSK	1	37	22.43	22.63	22.4		
15	QPSK	1	74	22.36	22.4	22.51		
15	QPSK	36	0	21.39	21.39	21.54	22.4	1
15	QPSK	36	20	21.46	21.4	21.65		
15	QPSK	36	39	21.49	21.54	21.47		
15	QPSK	75	0	21.44	21.42	21.53	22.4	1
15	16QAM	1	0	21.68	21.64	21.68		
15	16QAM	1	37	21.58	21.87	21.96		
15	16QAM	1	74	21.61	21.69	21.53	21.4	2
15	16QAM	36	0	20.49	20.53	20.57		
15	16QAM	36	20	20.39	20.42	20.48		
15	16QAM	36	39	20.51	20.52	20.63	21.4	2
15	16QAM	75	0	20.49	20.47	20.57		
15	64QAM	1	0	20.75	20.65	20.67		
15	64QAM	1	37	20.54	20.52	20.73	21.4	2
15	64QAM	1	74	20.68	20.51	20.7		
15	64QAM	36	0	19.31	19.52	19.4		
15	64QAM	36	20	19.48	19.42	19.58	20.4	3
15	64QAM	36	39	19.36	19.4	19.47		
15	64QAM	75	0	19.5	19.52	19.59		
15	256QAM	1	0	17.48	17.51	17.63	18.4	5
15	256QAM	1	37	17.64	17.67	17.59		
15	256QAM	1	74	17.57	17.60	17.46		
15	256QAM	36	0	17.44	17.61	17.31	18.4	5
15	256QAM	36	20	17.34	17.58	17.33		
15	256QAM	36	39	17.33	17.42	17.36		
15	256QAM	75	0	17.29	17.60	17.30		
Channel								
Frequency (MHz)				20050	20175	20300	Tune-up limit (dBm)	MPR (dB)
				1715	1732.5	1750		
10	QPSK	1	0	22.26	22.33	22.5	23.4	0
10	QPSK	1	25	22.38	22.57	22.48		
10	QPSK	1	49	22.31	22.29	22.39		
10	QPSK	25	0	21.47	21.32	21.53	22.4	1
10	QPSK	25	12	21.44	21.57	21.59		
10	QPSK	25	25	21.37	21.4	21.43		
10	QPSK	50	0	21.31	21.56	21.57	22.4	1
10	16QAM	1	0	21.73	21.8	21.73		
10	16QAM	1	25	21.71	21.88	21.96		
10	16QAM	1	49	21.61	21.63	21.51	21.4	2
10	16QAM	25	0	20.51	20.59	20.53		
10	16QAM	25	12	20.4	20.54	20.49		
10	16QAM	25	25	20.34	20.54	20.46	21.4	2
10	16QAM	50	0	20.54	20.45	20.62		
10	64QAM	1	0	20.72	20.73	20.64		
10	64QAM	1	25	20.64	20.62	20.83	21.4	2
10	64QAM	1	49	20.59	20.58	20.67		
10	64QAM	25	0	19.35	19.35	19.44		
10	64QAM	25	12	19.54	19.47	19.64	20.4	3
10	64QAM	25	25	19.41	19.48	19.52		
10	64QAM	50	0	19.45	19.47	19.54		
10	256QAM	1	0	17.44	17.65	17.58	18.4	5
10	256QAM	1	25	17.53	17.58	17.48		
10	256QAM	1	49	17.67	17.59	17.46		
10	256QAM	25	0	17.61	17.62	17.48	18.4	5
10	256QAM	25	12	17.45	17.45	17.44		
10	256QAM	25	25	17.29	17.48	17.32		
10	256QAM	50	0	17.38	17.51	17.39		
Channel								
Frequency (MHz)				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
				1742.5	1742.5	1742.5		
5	QPSK	1	0	22.35	22.52	22.43	23.4	0
5	QPSK	1	12	22.35	22.48	22.4		
5	QPSK	1	24	22.35	22.46	22.36		
5	QPSK	12	0	21.48	21.37	21.41	22.4	1
5	QPSK	12	7	21.52	21.39	21.54		
5	QPSK	12	13	21.46	21.46	21.47		
5	QPSK	25	0	21.39	21.42	21.48	22.4	1
5	16QAM	1	0	21.84	21.64	21.76		
5	16QAM	1	12	21.8	21.82	21.89		
5	16QAM	1	24	21.62	21.74	21.7	21.4	2
5	16QAM	12	0	20.39	20.48	20.47		
5	16QAM	12	7	20.45	20.45	20.54		
5	16QAM	12	13	20.44	20.42	20.56	21.4	2
5	16QAM	25	0	20.48	20.51	20.56		
5	64QAM	1	0	20.73	20.58	20.65		
5	64QAM	1	12	20.59	20.58	20.78	21.4	2
5	64QAM	1	24	20.51	20.48	20.53		
5	64QAM	12	0	19.41	19.42	19.5		
5	64QAM	12	7	19.43	19.55	19.53	20.4	3
5	64QAM	12	13	19.47	19.53	19.58		
5	64QAM	25	0	19.47	19.44	19.56		
5	256QAM	1	0	17.29	17.50	17.44	18.4	5
5	256QAM	1	12	17.54	17.54	17.49		
5	256QAM	1	24	17.52	17.62	17.41		
5	256QAM	12	0	17.44	17.50	17.31	18.4	5
5	256QAM	12	7	17.44	17.57	17.43		
5	256QAM	12	13	17.38	17.60	17.41		
5	256QAM	25	0	17.46	17.54	17.47		
Channel								
Frequency (MHz)				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
				1741.5	1741.5	1741.5		
3	QPSK	1	0	22.32	22.45	22.35	23.4	0
3	QPSK	1	8	22.38	22.52	22.51		
3	QPSK	1	14	22.38	22.48	22.44		
3	QPSK	8	0	21.40	21.39	21.51	22.4	1
3	QPSK	8	4	21.47	21.39	21.48		
3	QPSK	8	7	21.38	21.38	21.45		
3	QPSK	15	0	21.35	21.41	21.47	21.4	2
3	16QAM	1	0	21.75	21.70	21.85		
3	16QAM	1	8	21.68	21.60	21.80		
3	16QAM	1	14	21.55	21.79	21.54	21.4	2
3	16QAM	8	0	20.49	20.42	20.57		
3	16QAM	8	4	20.41	20.55	20.50		
3	16QAM	8	7	20.33	20.46	20.45	21.4	2
3	16QAM	15	0	20.50	20.58	20.58		
3	64QAM	1	0	20.77	20.57	20.69		
3	64QAM	1	8	20.57	20.63	20.76	20.4	3
3	64QAM	1	14	20.58	20.45	20.60		
3	64QAM	8	0	19.34	19.43	19.43		
3	64QAM	8	4	19.37	19.42	19.47	20.4	3
3	64QAM	8	7	19.39	19.39	19.54		
3	64QAM	15	0	19.42	19.50	19.51		
3	256QAM	1	0	17.55	17.61	17.50	18.4	5
3	256QAM	1	8	17.47	17.58	17.36		
3	256QAM	1	14	17.59	17.61	17.46		
3	256QAM	8	0	17.48	17.43	17.47	18.4	5
3	256QAM	8	4	17.31	17.48	17.34		
3	256QAM	8	7	17.35	17.59	17.38		
Channel								
Frequency (MHz)				1710.7	1732.5	1754.3	Tune-up limit (dBm)	MPR (dB)
				1705.5	1727.3	1749.1		
1.4	QPSK	1	0	22.27	22.43	22.44	23.4	0
1.4	QPSK	1	3	22.26	22.49	22.44		
1.4	QPSK	1	5	22.26	22.37	22.36		
1.4	QPSK	3	0	22.38	22.35	22.45	22.4	1
1.4	QPSK	3	1	22.21	22.48	22.44		
1.4	QPSK	3	3	22.27	22.51	22.45		
1.4	QPSK	6	0	21.36	21.46	21.46	22.4	1
1.4	16QAM	1	0	21.79	21.79	21.82		
1.4	16QAM	1	3	21.85	21.88	21.87		
1.4	16QAM	1	5	21.67	21.83	21.83	22.4	1
1.4	16QAM	3	0	20.41	20.51	20.51		
1.4	16QAM	3	1	20.52	20.58	20.61		
1.4	16QAM	3	3	20.47	20.49	20.58	21.4	2
1.4	16QAM	6	0	20.49	20.49	20.57		
1.4	64QAM	1	0	20.65	20.75	20.57		
1.4	64QAM	1	3	20.50	20.69	20.67	21.4	2
1.4	64QAM	1	5	20.65	20.54	20.67		
1.4	64QAM	3	0	20.69	20.71	20.61		
1.4	64QAM	3	1	20.62	20.67	20.67	20.4	3
1.4	64QAM	3	3	20.77	20.75	20.69		
1.4	64QAM	6	0	19.56	19.43	19.65		
1.4	256QAM	1	0	17.40	17.50	17.51	18.4	5
1.4	256QAM	1	3	17.53	17.61	17.42		
1.4	256QAM	3	0	17.65	17.47	17.47		
1.4	256QAM	3	1	17.39	17.57	17.38	18.4	5
1.4	256QAM	3	3	17.42	17.49	17.45		
1.4	256QAM	6	0	17.38	17.52	17		

Band 4_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)								
20050								
1200								
20175								
20300								
1732.5								
20	QPSK	1	0	23.05	23.10	23.02	24.3	0
20	QPSK	1	49	22.97	23.05	22.90		
20	QPSK	1	99	22.89	22.98	22.96		
20	QPSK	50	0	21.89	21.95	21.93	23.3	1
20	QPSK	50	24	21.85	21.90	21.74		
20	QPSK	50	50	21.81	21.87	21.90		
20	QPSK	100	0	21.90	21.92	21.87	23.3	1
20	16QAM	1	0	22.04	22.08	22.08		
20	16QAM	1	49	21.83	21.94	21.81		
20	16QAM	1	99	22.05	22.05	22.01	22.3	2
20	16QAM	50	0	20.83	21.00	20.85		
20	16QAM	50	24	20.85	20.97	20.94		
20	16QAM	50	50	21.01	21.02	20.84	22.3	2
20	16QAM	100	0	20.97	20.99	20.97		
20	64QAM	1	0	20.96	21.02	20.97		
20	64QAM	1	49	21.04	21.08	20.91	22.3	2
20	64QAM	1	99	20.98	21.15	21.10		
20	64QAM	50	0	19.91	19.98	19.87		
20	64QAM	50	24	19.89	19.89	19.71	21.3	3
20	64QAM	50	50	19.89	19.96	19.89		
20	64QAM	100	0	19.78	19.85	19.72		
20	256QAM	1	0	17.91	18.00	17.97	19.3	5
20	256QAM	1	49	18.02	18.05	17.91		
20	256QAM	1	99	18.15	18.16	17.97		
20	256QAM	50	0	17.98	18.02	17.92	19.3	5
20	256QAM	50	24	17.89	17.96	17.83		
20	256QAM	50	50	17.84	17.99	17.96		
20	256QAM	100	0	17.82	18.00	17.89	20.05	20.05
Channel								
Frequency (MHz)								
20025								
1717.5								
1722.5								
1727.5								
15	QPSK	1	0	23.33	23.47	23.47	24.3	0
15	QPSK	1	37	23.46	23.38	23.32		
15	QPSK	1	74	23.38	23.38	23.45		
15	QPSK	36	0	21.76	21.77	21.80	23.3	1
15	QPSK	36	36	21.77	21.77	21.63		
15	QPSK	36	39	21.88	21.96	21.90		
15	QPSK	75	0	21.80	21.76	21.73	23.3	1
15	16QAM	1	0	21.97	22.08	22.04		
15	16QAM	1	37	21.71	21.89	21.68		
15	16QAM	1	74	21.88	22.03	22.01	22.3	2
15	16QAM	36	0	20.80	20.96	20.83		
15	16QAM	36	20	20.78	20.79	20.87		
15	16QAM	36	39	20.87	20.96	20.70	22.3	2
15	16QAM	75	0	20.89	20.95	20.85		
15	64QAM	1	0	20.79	20.85	20.80		
15	64QAM	1	37	20.93	20.92	20.80	22.3	2
15	64QAM	1	74	20.79	21.12	20.91		
15	64QAM	36	0	19.72	19.84	19.68		
15	64QAM	36	20	19.72	19.78	19.54	21.3	3
15	64QAM	36	39	19.76	19.77	19.79		
15	64QAM	75	0	19.70	19.77	19.64		
15	256QAM	1	0	17.90	17.81	17.96	19.3	5
15	256QAM	1	37	17.90	17.91	17.79		
15	256QAM	1	74	18.03	18.07	17.85		
15	256QAM	36	0	17.86	17.86	17.89	19.3	5
15	256QAM	36	20	17.81	17.83	17.75		
15	256QAM	36	39	17.88	17.88	17.80		
15	256QAM	75	0	17.74	17.89	17.81	20.05	20.05
Channel								
Frequency (MHz)								
20000								
1715.5								
1720.5								
1725.5								
10	QPSK	1	0	23.38	23.43	23.43	24.3	0
10	QPSK	1	25	23.38	23.38	23.35		
10	QPSK	1	49	23.27	23.32	23.29		
10	QPSK	25	0	21.72	21.82	21.79	23.3	1
10	QPSK	25	12	21.81	21.86	21.73		
10	QPSK	25	25	21.79	21.84	21.91		
10	QPSK	50	0	21.71	21.80	21.80	23.3	1
10	QPSK	50	24	21.65	21.70	21.89		
10	16QAM	1	0	21.95	22.01	22.01		
10	16QAM	1	25	21.65	21.93	21.67	22.3	2
10	16QAM	1	49	21.63	21.88	21.69		
10	16QAM	25	0	20.85	20.85	20.68		
10	16QAM	25	12	20.85	20.92	20.85	22.3	2
10	16QAM	50	0	20.82	20.92	20.82		
10	16QAM	50	0	20.91	20.96	20.92		
10	64QAM	1	0	20.96	21.05	20.93	22.3	2
10	64QAM	1	49	20.86	21.08	20.98		
10	64QAM	25	0	19.77	19.89	19.73		
10	64QAM	25	12	19.80	19.84	19.62	21.3	3
10	64QAM	25	25	19.71	19.93	19.71		
10	64QAM	50	0	19.61	19.69	19.55		
10	256QAM	1	0	17.79	17.82	17.85	19.3	5
10	256QAM	1	25	17.95	17.92	17.84		
10	256QAM	1	49	18.07	18.03	17.89		
10	256QAM	25	0	17.85	17.86	17.78	19.3	5
10	256QAM	25	12	17.72	17.92	17.86		
10	256QAM	25	25	17.88	17.86	17.80		
10	256QAM	50	0	17.77	17.85	17.84	20.05	20.05
Channel								
Frequency (MHz)								
19975								
1712.5								
1717.5								
1722.5								
5	QPSK	1	0	23.42	23.47	23.50	24.3	0
5	QPSK	1	12	23.39	23.37	23.23		
5	QPSK	1	24	23.28	23.43	23.29		
5	QPSK	12	0	21.75	21.86	21.89	23.3	1
5	QPSK	12	7	21.67	21.90	21.71		
5	QPSK	12	13	21.85	21.80	21.92		
5	QPSK	25	0	21.84	21.87	21.78	23.3	1
5	16QAM	1	0	22.03	21.98	21.99		
5	16QAM	1	12	21.71	21.75	21.67		
5	16QAM	1	24	21.90	21.92	21.95	22.3	2
5	16QAM	12	0	20.75	20.94	20.78		
5	16QAM	12	7	20.80	20.78	20.89		
5	16QAM	12	13	20.82	20.94	20.85	22.3	2
5	16QAM	25	0	20.94	20.82	20.94		
5	64QAM	1	0	20.93	21.00	20.94		
5	64QAM	1	12	20.94	20.89	20.81	21.3	3
5	64QAM	1	24	20.86	21.12	20.98		
5	64QAM	12	0	19.98	19.92	19.84		
5	64QAM	12	7	19.72	19.84	19.54	19.3	5
5	64QAM	12	13	19.76	19.87	19.78		
5	64QAM	25	0	19.71	19.78	19.65		
5	256QAM	1	0	17.77	17.86	17.83	19.3	5
5	256QAM	1	12	17.84	17.90	17.73		
5	256QAM	1	24	18.03	18.04	17.85		
5	256QAM	12	0	17.97	17.85	17.91	19.3	5
5	256QAM	12	7	17.79	17.89	17.73		
5	256QAM	12	13	17.82	17.83	17.84		
5	256QAM	25	0	17.76	17.90	17.83	20.05	20.05
Channel								
Frequency (MHz)								
19950								
1711.5								
1716.5								
1721.5								
3	QPSK	1	0	23.46	23.53	23.52	24.3	0
3	QPSK	1	8	23.50	23.40	23.24		
3	QPSK	1	14	23.22	23.48	23.38		
3	QPSK	8	0	21.79	21.87	21.84	23.3	1
3	QPSK	8	4	21.69	21.78	21.74		
3	QPSK	8	7	21.84	21.82	21.83		
3	QPSK	15	0	21.79	21.88	21.82	23.3	1
3	16QAM	1	0	21.93	21.97	22.01		
3	16QAM	1	8	21.79	21.75	21.81		
3	16QAM	1	16	22.05	21.84	21.84	22.3	2
3	16QAM	8	0	20.73	20.93	20.76		
3	16QAM	8	4	20.67	20.78	20.76		
3	16QAM	15	0	20.88	21.02	20.71	22.3	2
3	64QAM	1	0	20.97	20.83	20.97		
3	64QAM	1	8	20.84	20.83	20.85		
3	64QAM	1	8	21.03	20.99	20.90	21.3	3
3	64QAM	12	0	19.73	19.84	19.74		
3	64QAM	12	7	19.74	19.80	19.74		
3	64QAM	15	0	19.75	19.82	19.69	19.3	5
3	256QAM	1	0	17.79	17.87	17.85		
3	256QAM	1	8	17.91	17.89	17.80		
3	256QAM	1	14	17.99	18.06	17.81	19.3	5
3	256QAM	8	0	17.92	17.82	17.86		
3	256QAM	8	4	17.84	17.84	17.78		
3	256QAM	8	7	17.68	17.84	17.80	19.3	5
3	256QAM	15	0	17.74	17.88	17.81		
3	256QAM	15	0	17.77	17.85	17.84		
Channel								
Frequency (MHz)								
19925								
1710.5								
1715.5								
1720.5								
1.4	QPSK	1	0	23.38	23.48	23.48	24.3	0
1.4	QPSK	1	5	23.49	23.47	23.25		
1.4	QPSK	1	3	23.31	23.40	23.40		
1.4	QPSK	3	0	23.22	23.32	23.29	23.3	1
1.4	QPSK	3	1	23.16	23.11	23.02		
1.4	QPSK	3	3	23.36	23.25	23.32		
1.4	16QAM	1	0	21.85	21.93	21.79	23.3	1
1.4	16QAM	1	3	21.70	21.83	21.79		
1.4	16QAM	1	0	21.84	21.89	21.87		
1.4	16QAM	3	1	21.69	21.79	21.88	22.3	2
1.4	16QAM	3	2	21.92	22.00	21.75		
1.4	16QAM	6	0	20.79	20.83	20.79		
1.4	16QAM	6	0	20.85	20.88	20.86	22.3	2
1.4	64QAM	1	5	20.80	20.96	20.92		
1.4	64QAM	3	0	20.72	20.81	20.68		
1.4	64QAM	3	0	20.75	20.79	20.67	21.3	3
1.4	64QAM	3	3	20.77	20.86	20.77		
1.4	64QAM	6	0	19.69	19.84	19.63		
1.4	256QAM	1	5	17.69	17.83	17.83	19.3	5
1.4	256QAM	1	3	17.98	17.90	17.87		
1.4	256QAM	1	5	18.00	18.13	17.82		
1.4	256QAM	1	5	17.69	17.83	17.83	19.3	5
1.4	256QAM	3	1	17.89	17.91	17.83		
1.4	256QAM	3	1	17.84	17.96	17.86		
1.4	256QAM	6	0	17.72	17.82	17.79	19.3	5
1.4	256QAM	6	0	17.72	17.82	17.79		
1.4	256QAM	6	0	17.72	17.82	17.79		

Band 5_Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				836.5	836.5	844.5		
10	QPSK	1	0	23.82	23.86	23.77	24.8	0
10	QPSK	1	25	23.77	23.84	23.72		
10	QPSK	1	49	23.68	23.72	23.61		
10	QPSK	25	0	22.81	22.90	22.78	23.8	1
10	QPSK	25	12	22.76	22.89	22.78		
10	QPSK	25	25	22.80	22.85	22.78		
10	QPSK	50	0	22.74	22.88	22.80	23.8	1
10	16QAM	1	0	23.09	23.18	23.18		
10	16QAM	1	25	23.16	23.14	23.19		
10	16QAM	1	49	23.15	23.11	23.21	22.8	2
10	16QAM	25	0	21.77	21.80	21.78		
10	16QAM	25	12	21.78	21.89	21.83		
10	16QAM	25	25	21.79	21.87	21.75	22.8	2
10	16QAM	50	0	21.73	21.85	21.78		
10	64QAM	1	0	22.01	22.02	21.82		
10	64QAM	1	25	22.00	22.02	22.06	22.8	2
10	64QAM	1	49	22.01	21.98	21.97		
10	64QAM	25	0	20.78	20.79	20.72		
10	64QAM	25	12	20.79	20.91	20.85	21.8	3
10	64QAM	25	25	20.85	20.85	20.71		
10	64QAM	50	0	20.72	20.85	20.80		
10	256QAM	1	0	18.97	19.00	18.81	19.8	5
10	256QAM	1	18.85	18.93	19.02	18.90		
10	256QAM	1	49	18.78	18.85	18.86		
10	256QAM	1	0	18.83	18.88	18.80	19.8	5
10	256QAM	25	0	18.88	18.88	18.87		
10	256QAM	25	25	18.77	18.85	18.85		
10	256QAM	50	0	18.88	19.00	18.82	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20643		
Frequency (MHz)				836.5	836.5	846.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	23.75	23.71	23.67		
5	QPSK	1	12	23.81	23.82	23.81	24.8	0
5	QPSK	1	24	23.76	23.68	23.61		
5	QPSK	12	0	22.80	22.73	22.68	23.8	1
5	QPSK	12	7	22.89	22.85	22.78		
5	QPSK	12	13	22.88	22.80	22.71		
5	QPSK	25	0	22.87	22.74	22.64	23.8	1
5	16QAM	1	0	23.18	23.13	23.12		
5	16QAM	1	12	23.24	23.21	23.05		
5	16QAM	1	24	23.09	23.03	22.97	22.8	2
5	16QAM	12	0	21.84	21.82	21.70		
5	16QAM	12	7	21.98	21.88	21.85		
5	16QAM	12	13	21.91	21.83	21.78	22.8	2
5	64QAM	1	0	21.98	21.72	21.68		
5	64QAM	1	0	22.02	21.98	21.98		
5	64QAM	1	12	22.05	22.18	21.98	21.8	3
5	64QAM	12	0	21.85	21.85	20.82		
5	64QAM	12	7	20.92	20.87	20.81		
5	64QAM	12	13	20.98	20.82	20.73	19.8	5
5	64QAM	25	0	20.89	20.76	20.66		
5	256QAM	1	0	18.95	18.95	18.80		
5	256QAM	1	12	18.93	18.97	18.90	19.8	5
5	256QAM	1	24	18.78	18.78	18.78		
5	256QAM	12	0	18.74	18.75	18.74		
5	256QAM	12	7	18.80	18.75	18.78	19.8	5
5	256QAM	12	13	18.75	18.93	18.82		
5	256QAM	25	0	18.79	18.87	18.89		
Channel				20450	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	847.5		
3	QPSK	1	0	23.78	23.65	23.55	24.8	0
3	QPSK	1	8	23.82	23.81	23.87		
3	QPSK	1	14	23.77	23.71	23.57		
3	QPSK	8	0	22.86	22.75	22.67	23.8	1
3	QPSK	8	4	22.88	22.82	22.67		
3	QPSK	8	7	22.87	22.79	22.71		
3	16QAM	1	0	23.06	22.70	22.61	23.8	1
3	16QAM	1	8	23.27	23.33	23.14		
3	16QAM	1	14	23.03	23.07	22.91		
3	16QAM	8	0	22.01	21.80	21.75	22.8	2
3	16QAM	8	4	21.99	21.91	21.78		
3	16QAM	8	7	21.97	21.86	21.75		
3	16QAM	15	0	21.88	21.73	21.67	22.8	2
3	64QAM	1	0	22.16	21.91	21.87		
3	64QAM	1	8	22.14	21.88	21.83		
3	64QAM	1	14	22.09	21.91	21.89	21.8	3
3	64QAM	8	0	20.93	20.77	20.71		
3	64QAM	8	4	20.97	20.80	20.73		
3	64QAM	8	7	20.93	20.85	20.80	19.8	5
3	64QAM	15	0	20.89	20.75	20.64		
3	256QAM	1	0	18.81	18.89	18.83		
3	256QAM	1	8	18.83	18.91	18.95	19.8	5
3	256QAM	1	14	18.68	18.83	18.84		
3	256QAM	8	0	18.74	18.84	18.78		
3	256QAM	8	4	18.77	18.70	18.75	19.8	5
3	256QAM	8	7	18.74	18.81	18.90		
3	256QAM	15	0	18.71	18.80	18.70		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	833.5	843.3		
1.4	QPSK	1	0	23.75	23.75	23.57	24.8	0
1.4	QPSK	1	3	23.82	23.75	23.63		
1.4	QPSK	1	5	23.82	23.68	23.64		
1.4	QPSK	3	0	23.53	23.78	23.70	23.8	1
1.4	QPSK	3	1	23.81	23.80	23.71		
1.4	QPSK	3	3	23.81	23.80	23.71		
1.4	16QAM	1	0	23.28	23.31	23.17	23.8	1
1.4	16QAM	1	3	23.43	23.23	23.17		
1.4	16QAM	1	5	23.28	23.13	23.02		
1.4	16QAM	3	0	23.01	22.95	22.82	22.8	2
1.4	16QAM	3	1	23.10	22.92	22.91		
1.4	16QAM	3	3	23.03	22.85	22.94		
1.4	16QAM	6	0	21.98	21.84	21.81	21.8	3
1.4	64QAM	1	0	22.05	21.99	21.88		
1.4	64QAM	1	3	22.04	22.15	21.84		
1.4	64QAM	1	5	22.00	22.02	21.88	22.8	2
1.4	64QAM	3	0	21.98	21.89	21.81		
1.4	64QAM	3	1	21.98	21.91	21.87		
1.4	64QAM	3	3	21.95	21.94	21.79	21.8	3
1.4	64QAM	6	0	20.86	20.77	20.75		
1.4	256QAM	1	0	18.89	18.84	18.83		
1.4	256QAM	1	3	18.76	18.91	18.82	19.8	5
1.4	256QAM	1	5	18.86	18.78	18.86		
1.4	256QAM	3	0	18.80	18.70	18.71		
1.4	256QAM	3	1	18.74	18.74	18.84	19.8	5
1.4	256QAM	3	3	18.86	18.84	18.92		
1.4	256QAM	6	0	18.85	18.89	18.85		

Band 5_Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	23.89	24.00	23.84	24.8	0
10	QPSK	1	25	23.87	23.95	23.80		
10	QPSK	1	49	23.85	23.87	23.75		
10	QPSK	25	0	22.96	23.05	23.01	23.8	1
10	QPSK	25	12	22.90	23.02	22.96		
10	QPSK	25	25	22.93	23.03	22.86		
10	QPSK	50	0	22.88	23.01	22.90	23.8	1
10	16QAM	1	0	23.38	23.38	23.37		
10	16QAM	1	25	23.34	23.36	23.12		
10	16QAM	1	49	23.36	23.40	23.18	22.8	2
10	16QAM	25	0	21.83	21.86	21.86		
10	16QAM	25	12	21.81	22.05	21.84		
10	16QAM	25	25	21.84	22.00	21.87	22.8	2
10	16QAM	50	0	21.89	22.00	21.92		
10	64QAM	1	0	22.16	22.30	22.13		
10	64QAM	1	25	22.29	22.23	22.10	22.8	2
10	64QAM	1	49	22.10	22.14	22.18		
10	64QAM	25	0	20.90	20.97	20.88		
10	64QAM	25	12	20.90	21.08	20.92	21.8	3
10	64QAM	25	25	20.94	20.97	20.90		
10	256QAM	50	0	20.89	20.99	20.89	19.8	5
10	256QAM	1	19.03	19.05	18.87			
10	256QAM	1	25	18.91	19.00	18.85		
10	256QAM	1	49	18.84	18.85	18.79	19.8	5
10	256QAM	25	18.88	18.92	18.97			
10	256QAM	25	12	18.90	18.92	18.83		
10	256QAM	25	25	18.90	18.96	18.86	19.8	5
10	256QAM	50	0	18.85	18.83			
Channel				20425	20525	20625		
Frequency (MHz)				826.5 <th>836.5<th>846.5<th>Tune-up limit (dBm)</th><th>MPR (dB)</th></th></th>	836.5 <th>846.5<th>Tune-up limit (dBm)</th><th>MPR (dB)</th></th>	846.5 <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	23.92	23.89	23.76	24.8	0
5	QPSK	1	12	23.92	23.90	23.85		
5	QPSK	1	24	23.89	23.90	23.73		
5	QPSK	12	0	22.95	22.87	22.78	23.8	1
5	QPSK	12	7	23.05	22.96	22.86		
5	QPSK	12	13	23.00	22.91	22.81		
5	QPSK	25	0	22.99	22.98	22.75	23.8	1
5	16QAM	1	0	23.29	23.18	23.23		
5	16QAM	1	23.45	23.29	23.29			
5	16QAM	1	24	23.32	23.21	23.05	22.8	2
5	16QAM	12	0	21.99	21.81			
5	16QAM	12	7	22.08	22.01	21.94		
5	16QAM	12	13	22.06	21.93	21.86	22.8	2
5	16QAM	25	0	22.04	21.89	21.73		
5	64QAM	1	0	22.20	22.16	22.11		
5	64QAM	1	12	22.37	22.05	22.16	22.8	2
5	64QAM	1	24	22.19	22.19	22.04		
5	64QAM	12	0	20.97	20.97	20.83		
5	64QAM	12	7	21.08	21.01	20.91	21.8	3
5	64QAM	12	13	21.08	21.08	20.87		
5	64QAM	25	0	21.04	20.99	20.77		
5	256QAM	1	0	19.01	18.92	18.76	19.8	5
5	256QAM	1	12	18.89	18.90	18.85		
5	256QAM	1	24	18.74	18.80	18.82		
5	256QAM	12	0	18.84	18.89	18.83	19.8	5
5	256QAM	12	7	18.72	18.82	18.70		
5	256QAM	12	13	18.75	18.89	18.89		
5	256QAM	25	0	18.67	18.83	18.77	19.8	5
Channel				20415	20515	20615		
Frequency (MHz)				825.5	835.5	845.5		
3	QPSK	1	0	23.90	23.78	23.76	24.8	0
3	QPSK	1	8	23.91	23.83	23.66		
3	QPSK	1	14	23.89	23.80	23.67		
3	QPSK	8	0	23.04	22.87	22.76	23.8	1
3	QPSK	8	4	23.07	22.88	22.81		
3	QPSK	8	7	23.03	22.92	22.84		
3	QPSK	15	0	23.01	22.83	22.76	23.8	1
3	16QAM	1	0	23.30	23.23	23.18		
3	16QAM	1	8	23.44	23.40	23.21		
3	16QAM	1	14	23.31	23.15	23.16	22.8	2
3	16QAM	8	0	22.13	21.94	21.97		
3	16QAM	8	4	22.17	22.03	21.87		
3	16QAM	8	7	22.12	22.02	21.95	22.8	2
3	16QAM	15	0	22.05	21.87	21.77		
3	64QAM	1	0	22.26	22.05	22.00		
3	64QAM	1	8	22.28	22.04	22.10	21.8	3
3	64QAM	1	22.13	22.18	21.86			
3	64QAM	8	0	21.08	20.87	20.78		
3	64QAM	8	4	21.09	21.07	20.84	19.8	5
3	64QAM	8	7	21.06	21.00	20.91		
3	64QAM	15	0	21.04	20.90	20.78		
3	256QAM	1	0	18.88	19.05	18.70	19.8	5
3	256QAM	1	18.89	18.87				
3	256QAM	1	14	18.71	18.63	18.63		
3	256QAM	6	0	18.72	18.95	18.97	19.8	5
3	256QAM	6	7	18.78	18.82	18.69		
3	256QAM	8	7	18.79	18.79	18.77		
3	256QAM	15	0	18.60	18.67	18.74	19.8	5
Channel				20425	20525	20625		
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	23.87	23.81	23.70	24.8	0
1.4	QPSK	1	3	23.87	23.81	23.78		
1.4	QPSK	1	5	23.85	23.87	23.75		
1.4	QPSK	3	0	23.93	23.90	23.79	23.8	1
1.4	QPSK	3	1	23.98	23.88	23.80		
1.4	QPSK	3	3	23.93	23.89	23.76		
1.4	QPSK	6	0	21.98	21.82	21.83	22.8	1
1.4	16QAM	1	0	23.38	23.37	23.13		
1.4	16QAM	1	3	23.37	23.35	23.16		
1.4	16QAM	1	23.50	23.32	23.08	22.8	1	
1.4	16QAM	3	0	23.21	23.08			23.02
1.4	16QAM	3	1	23.17	23.10			22.92
1.4	16QAM	3	23.23	23.04	22.96	22.8	2	
1.4	16QAM	6	0	22.01	21.81			21.87
1.4	64QAM	1	0	22.21	22.15			21.99
1.4	64QAM	1	22.19	22.17	22.05	22.8	2	
1.4	64QAM	1	5	22.15	22.12			21.88
1.4	64QAM	3	0	22.11	21.89			21.96
1.4	64QAM	3	22.15	22.03	21.91	21.8	3	
1.4	64QAM	3	3	22.17	22.03			21.92
1.4	64QAM	6	0	21.01	20.86			20.86
1.4	256QAM	1	18.92	18.92	18.82	19.8	5	
1.4	256QAM	1	3	18.84	18.94			18.69
1.4	256QAM	1	5	18.70	18.92			18.70
1.4	256QAM	3	18.81	18.85	18.84	19.8	5	
1.4	256QAM	3	1	18.75	18.84			18.78
1.4	256QAM	3	3	18.86	18.77			18.77
1.4	256QAM	6	0	18.77	18.74	18.66	19.8	5

Band 7_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				20650	21100	21350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				20650	20935	20995		
20	QPSK	1	0	22.36	22.45	22.39	22.7	0
20	QPSK	1	49	22.33	22.33	22.36		
20	QPSK	1	99	22.32	22.31	22.29		
20	QPSK	50	0	21.51	21.54	21.44	21.7	1
20	QPSK	50	24	21.5	21.5	21.43		
20	QPSK	50	50	21.49	21.48	21.41		
20	QPSK	100	0	21.49	21.52	21.51	21.7	1
20	16QAM	1	0	21.99	21.52	21.55		
20	16QAM	1	49	21.7	21.65	21.69		
20	16QAM	1	99	21.68	21.62	21.67	20.7	2
20	16QAM	50	0	20.55	20.41	20.42		
20	16QAM	50	24	20.55	20.5	20.45		
20	16QAM	50	50	20.51	20.5	20.51	20.7	2
20	16QAM	100	0	20.51	20.49	20.49		
20	16QAM	1	0	20.58	20.53	20.59		
20	64QAM	1	49	20.51	20.57	20.8	20.7	2
20	64QAM	1	99	20.55	20.52	20.39		
20	64QAM	50	0	19.51	19.44	19.41		
20	64QAM	50	24	19.54	19.5	19.41	19.7	3
20	64QAM	50	50	19.49	19.5	19.46		
20	64QAM	100	0	19.51	19.49	19.5		
20	256QAM	1	0	16.88	17.05	17.01	17.7	5
20	256QAM	1	49	17.03	17.11	16.94		
20	256QAM	1	99	17.07	17.09	17.06		
20	256QAM	50	0	17.14	17.15	17.00	17.7	5
20	256QAM	50	24	16.85	17.02	16.97		
20	256QAM	50	50	16.96	17.06	16.94		
20	256QAM	100	0	17.07	17.10	17.08	Tune-up limit (dBm)	MPR (dB)
Channel				20975	21100	21350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				20975	21005	20995		
15	QPSK	1	0	22.33	22.34	22.15	22.7	0
15	QPSK	1	49	22.23	22.21	22.23		
15	QPSK	1	74	22.23	22.29	22.2		
15	QPSK	36	0	21.52	21.52	21.34	21.7	1
15	QPSK	36	24	21.5	21.38	21.43		
15	QPSK	36	39	21.41	21.39	21.45		
15	QPSK	75	0	21.44	21.42	21.44	21.7	1
15	16QAM	1	0	21.64	21.5	21.5		
15	16QAM	1	37	21.62	21.6	21.69		
15	16QAM	1	74	21.67	21.58	21.66	20.7	2
15	16QAM	36	0	20.47	20.34	20.3		
15	16QAM	36	20	20.43	20.4	20.43		
15	16QAM	36	39	20.49	20.48	20.5	20.7	2
15	16QAM	75	0	20.47	20.47	20.42		
15	64QAM	1	0	20.5	20.42	20.52		
15	64QAM	1	37	20.48	20.55	20.49	20.7	2
15	64QAM	1	74	20.51	20.5	20.45		
15	64QAM	36	0	19.43	19.36	19.31		
15	64QAM	36	20	19.5	19.4	19.36	19.7	3
15	64QAM	36	39	19.47	19.38	19.39		
15	64QAM	75	0	19.4	19.42	19.49		
15	256QAM	1	0	16.85	17.02	16.98	17.7	5
15	256QAM	1	37	16.98	17.05	16.92		
15	256QAM	1	74	17.03	16.98	16.95		
15	256QAM	36	0	17.04	17.06	16.92	17.7	5
15	256QAM	36	20	16.93	16.96	16.85		
15	256QAM	36	39	16.84	16.98	16.83		
15	256QAM	75	0	17.02	17.03	17.08	Tune-up limit (dBm)	MPR (dB)
Channel				20975	21100	21350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				20975	21005	20995		
10	QPSK	1	0	22.36	22.35	22.16	22.7	0
10	QPSK	1	25	22.3	22.26	22.23		
10	QPSK	1	49	22.27	22.2	22.13		
10	QPSK	12	0	21.5	21.38	21.37	21.7	1
10	QPSK	25	12	21.4	21.46	21.41		
10	QPSK	25	25	21.4	21.42	21.44		
10	QPSK	50	0	21.44	21.42	21.45	21.7	1
10	QPSK	50	12	21.42	21.43	21.47		
10	16QAM	1	0	21.62	21.4	21.53		
10	16QAM	1	25	21.6	21.59	21.67	20.7	2
10	16QAM	1	49	21.66	21.53	21.55		
10	16QAM	25	0	20.52	20.3	20.3		
10	16QAM	25	12	20.54	20.49	20.38	20.7	2
10	16QAM	25	25	20.46	20.39	20.42		
10	16QAM	50	0	20.39	20.43	20.38		
10	64QAM	1	0	20.53	20.46	20.55	20.7	2
10	64QAM	1	25	20.5	20.45	20.49		
10	64QAM	1	49	20.52	20.43	20.53		
10	64QAM	25	0	19.46	19.33	19.37	19.7	3
10	64QAM	25	12	19.53	19.44	19.31		
10	64QAM	25	25	19.4	19.46	19.4		
10	64QAM	50	0	19.43	19.48	19.48	17.7	5
10	256QAM	1	0	16.85	17.01	16.95		
10	256QAM	1	25	16.98	17.10	16.92		
10	256QAM	1	49	17.03	17.05	17.02	17.7	5
10	256QAM	25	0	17.08	17.10	16.95		
10	256QAM	25	12	16.82	16.92	16.86		
10	256QAM	25	25	16.85	16.97	16.82	Tune-up limit (dBm)	MPR (dB)
10	256QAM	50	0	17.02	16.99	16.96		
10	256QAM	50	0	17.075	21100	21426		
Channel				20975	21100	21350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				20975	21005	20995		
5	QPSK	1	0	22.35	22.26	22.21	22.7	0
5	QPSK	1	12	22.25	22.21	22.39		
5	QPSK	1	24	22.3	22.24	22.21		
5	QPSK	12	0	21.45	21.32	21.37	21.7	1
5	QPSK	12	7	21.4	21.46	21.41		
5	QPSK	12	13	21.41	21.41	21.49		
5	QPSK	25	0	21.42	21.37	21.44	21.7	1
5	16QAM	1	0	21.68	21.48	21.53		
5	16QAM	1	12	21.62	21.54	21.62		
5	16QAM	1	24	21.69	21.55	21.6	20.7	2
5	16QAM	12	0	20.45	20.38	20.37		
5	16QAM	12	7	20.45	20.44	20.42		
5	16QAM	12	13	20.45	20.43	20.42	20.7	2
5	16QAM	25	0	20.48	20.4	20.48		
5	64QAM	1	0	20.49	20.51	20.46		
5	64QAM	1	12	20.44	20.47	20.49	19.7	3
5	64QAM	1	24	20.45	20.45	20.53		
5	64QAM	12	0	19.46	19.35	19.3		
5	64QAM	12	7	19.44	19.48	19.32	17.7	5
5	64QAM	12	13	19.44	19.42	19.37		
5	64QAM	25	0	16.5	16.48	16.41		
5	256QAM	1	0	16.81	16.97	16.95	19.1	5
5	256QAM	1	12	17.01	17.08	16.89		
5	256QAM	1	24	17.04	17.07	16.99		
5	256QAM	12	0	17.05	17.06	16.93	17.7	5
5	256QAM	12	7	16.73	16.90	16.93		
5	256QAM	12	13	16.94	16.95	16.91		
5	256QAM	25	0	16.99	16.98	17.00	Tune-up limit (dBm)	MPR (dB)

Band 7_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				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	23.52	23.58	23.55	24.1	0
20	QPSK	1	49	23.40	23.53	23.52		
20	QPSK	1	99	23.44	23.45	23.51		
20	QPSK	50	0	22.51	22.56	22.54	23.1	1
20	QPSK	50	24	22.46	22.59	22.51		
20	QPSK	50	50	22.50	22.51	22.49		
20	QPSK	100	0	22.51	22.58	22.53	23.1	1
20	16QAM	1	0	22.87	22.81	22.76		
20	16QAM	1	49	23.00	22.83	22.81		
20	16QAM	1	99	22.77	22.80	22.75	22.1	2
20	16QAM	50	0	21.72	21.87	21.58		
20	16QAM	50	24	21.73	21.87	21.59		
20	16QAM	50	50	21.69	21.85	21.65	22.1	2
20	16QAM	100	0	21.72	21.84	21.65		
20	64QAM	1	0	21.76	21.68	21.67	22.1	2
20	64QAM	1	49	21.77	21.75	21.67		
20	64QAM	1	99	21.70	21.74	21.78		
20	64QAM	50	0	20.73	20.55	20.57	21.1	3
20	64QAM	50	24	20.74	20.65	20.65		
20	64QAM	50	50	20.89	20.65	20.65		
20	256QAM	100	0	20.71	20.65	20.65	19.1	5
20	256QAM	1	0	18.53	18.50	18.54		
20	256QAM	1	49	18.44	18.55	18.43		
20	256QAM	1	99	18.44	18.50	18.34	19.1	5
20	256QAM	50	0	18.49	18.49	18.48		
20	256QAM	50	24	18.58	18.59	18.46		
20	256QAM	50	50	18.43	18.62	18.60	19.1	5
20	256QAM	100	0	18.36	18.52	18.36		
Channel				20825	21100	21375		
Frequency (MHz)				2507.5 <th>2535<th>2562.5<td></td><td></td></th></th>	2535 <th>2562.5<td></td><td></td></th>	2562.5 <td></td> <td></td>		
15	QPSK	1	0	23.42	23.42	23.42	24.1	0
15	QPSK	1	37	23.35	23.38	23.43		
15	QPSK	1	74	23.37	23.35	23.35		
15	QPSK	36	0	22.56	22.57	22.49	23.1	1
15	QPSK	36	20	22.71	22.47	22.52		
15	QPSK	36	36	22.46	22.48	22.48		
15	QPSK	75	0	22.69	22.53	22.52	23.1	1
15	16QAM	1	0	22.85	22.66	22.59		
15	16QAM	1	37	22.92	22.81	22.81		
15	16QAM	1	74	22.58	22.69	22.57	22.1	2
15	16QAM	36	0	21.64	21.67	21.50		
15	16QAM	36	36	21.60	21.62	21.48		
15	16QAM	36	99	21.60	21.51	21.56	22.1	2
15	16QAM	75	0	21.54	21.61	21.47		
15	64QAM	1	0	21.57	21.60	21.48		
15	64QAM	1	37	21.64	21.65	21.56	22.1	2
15	64QAM	1	74	21.54	21.59	21.62		
15	64QAM	36	0	20.53	20.55	20.47		
15	64QAM	36	20	20.59	20.56	20.56	21.1	3
15	64QAM	36	36	20.81	20.63	20.57		
15	64QAM	75	0	20.59	20.55	20.55		
15	256QAM	1	0	18.38	18.58	18.39	19.1	5
15	256QAM	1	37	18.34	18.54	18.33		
15	256QAM	1	74	18.41	18.49	18.37		
15	256QAM	36	0	18.41	18.56	18.40	19.1	5
15	256QAM	36	20	18.46	18.55	18.34		
15	256QAM	36	36	18.28	18.45	18.45		
15	256QAM	75	0	18.24	18.39	18.24		
Channel <th>20800<th>21100<th>21400<td>Tune-up limit (dBm)</td><td>MPR (dB)</td></th></th></th>				20800 <th>21100<th>21400<td>Tune-up limit (dBm)</td><td>MPR (dB)</td></th></th>	21100 <th>21400<td>Tune-up limit (dBm)</td><td>MPR (dB)</td></th>	21400 <td>Tune-up limit (dBm)</td> <td>MPR (dB)</td>	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505 <th>2535<th>2565<td></td><td></td></th></th>	2535 <th>2565<td></td><td></td></th>	2565 <td></td> <td></td>		
10	QPSK	1	0	23.39	23.46	23.46	24.1	0
10	QPSK	1	23	23.34	23.43	23.39		
10	QPSK	1	49	23.44	23.37	23.33		
10	QPSK	25	0	22.70	22.38	22.44	23.1	1
10	QPSK	25	13	22.67	22.54	22.41		
10	QPSK	25	25	22.58	22.59	22.66		
10	QPSK	50	0	22.52	22.46	22.60	23.1	1
10	16QAM	1	0	22.85	22.65	22.61		
10	16QAM	1	25	22.95	22.81	23.01		
10	16QAM	1	49	22.60	22.71	22.84	22.1	2
10	16QAM	25	0	21.61	21.68	21.41		
10	16QAM	25	12	21.57	21.55	21.43		
10	16QAM	25	25	21.50	21.46	21.46	22.1	2
10	16QAM	50	0	21.07	21.58	21.69		
10	64QAM	1	0	21.62	21.65	21.53		
10	64QAM	1	25	21.76	21.63	21.66	21.1	3
10	64QAM	1	49	21.70	21.55	21.70		
10	64QAM	25	0	20.56	20.49	20.40		
10	64QAM	25	12	20.57	20.53	20.43	19.1	5
10	64QAM	25	25	20.64	20.60	20.60		
10	64QAM	50	0	20.53	20.50	20.47		
10	256QAM	1	0	18.45	18.56	18.46	19.1	5
10	256QAM	1	49	18.37	18.55	18.39		
10	256QAM	1	99	18.30	18.55	18.20		
10	256QAM	25	0	18.40	18.49	18.36	19.1	5
10	256QAM	25	12	18.41	18.44	18.44		
10	256QAM	25	25	18.24	18.50	18.41		
10	256QAM	50	0	18.24	18.43	18.24		
Channel <th>20775<th>21100<th>21425<td>Tune-up limit (dBm)</td><td>MPR (dB)</td></th></th></th>				20775 <th>21100<th>21425<td>Tune-up limit (dBm)</td><td>MPR (dB)</td></th></th>	21100 <th>21425<td>Tune-up limit (dBm)</td><td>MPR (dB)</td></th>	21425 <td>Tune-up limit (dBm)</td> <td>MPR (dB)</td>	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5 <th>2535<th>2567.5<td></td><td></td></th></th>	2535 <th>2567.5<td></td><td></td></th>	2567.5 <td></td> <td></td>		
5	QPSK	1	0	23.33	23.49	23.50	24.1	0
5	QPSK	1	24	23.25	23.49	23.33		
5	QPSK	1	12	23.33	23.39	23.43		
5	QPSK	12	0	22.53	22.38	22.45	23.1	1
5	QPSK	12	7	22.59	22.58	22.41		
5	QPSK	12	13	22.62	22.69	22.66		
5	QPSK	25	0	22.57	22.54	22.53	23.1	1
5	16QAM	1	0	22.88	22.67	22.59		
5	16QAM	1	12	22.92	22.70	23.09		
5	16QAM	1	24	22.65	22.78	22.61	22.1	2
5	16QAM	12	0	21.69	21.38	21.55		
5	16QAM	12	7	21.59	21.62	21.45		
5	16QAM	12	13	21.07	21.64	21.63	22.1	2
5	16QAM	25	0	21.05	21.55	21.53		
5	64QAM	1	0	21.65	21.69	21.56		
5	64QAM	1	12	21.04	21.71	21.59	22.1	2
5	64QAM	1	24	21.00	21.68	21.68		
5	64QAM	12	0	20.99	20.38	20.53		
5	64QAM	12	7	20.56	20.49	20.42	21.1	3
5	64QAM	12	13	20.69	20.65	20.65		
5	64QAM	25	0	20.54	20.56	20.46		
5	256QAM	1	0	18.45	18.55	18.46	19.1	5
5	256QAM	1	12	18.34	18.50	18.33		
5	256QAM	1	24	18.41	18.48	18.31		
5	256QAM	12	0	18.45	18.44	18.44	19.1	5
5	256QAM	12	7	18.52	18.51	18.40		
5	256QAM	12	13	18.43	18.60	18.60		
5	256QAM	25	0	18.24	18.42	18.24		

Band 7_Ant 6

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power Middle Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				20850	21100	21350		
20	QPSK	1	0	22.69	22.80	22.89	23.8	0
20	QPSK	1	49	22.68	22.76	22.81		
20	QPSK	1	99	22.56	22.72	22.53		
20	QPSK	50	0	21.61	21.70	21.57	22.8	1
20	QPSK	50	24	21.58	21.65	21.50		
20	QPSK	50	50	21.56	21.66	21.50		
20	QPSK	100	0	21.56	21.69	21.66	22.8	1
20	16QAM	1	0	21.85	21.90	21.87		
20	16QAM	1	49	21.72	21.88	21.79		
20	16QAM	1	99	21.75	21.85	21.78	21.8	2
20	16QAM	50	0	20.62	20.69	20.60		
20	16QAM	50	24	20.55	20.72	20.54		
20	16QAM	50	50	20.58	20.77	20.74	21.8	2
20	16QAM	100	0	20.63	20.85	20.82		
20	64QAM	1	0	20.97	21.00	20.83		
20	64QAM	1	49	20.95	20.95	20.93	21.8	2
20	64QAM	1	99	20.76	20.93	20.74		
20	64QAM	50	0	19.73	19.79	19.82		
20	64QAM	50	24	19.69	19.82	19.64	20.8	3
20	64QAM	50	50	19.76	19.84	19.75		
20	64QAM	100	0	19.64	19.77	19.64		
20	256QAM	1	0	17.70	17.77	17.62	18.8	5
20	256QAM	1	49	17.68	17.80	17.78		
20	256QAM	1	99	17.80	17.82	17.68		
20	256QAM	50	0	17.63	17.69	17.52	18.8	5
20	256QAM	50	24	17.59	17.72	17.53		
20	256QAM	50	50	17.49	17.65	17.64		
20	256QAM	100	0	17.56	17.69	17.50	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				20850	21100	21350		
15	QPSK	1	0	22.64	22.76	22.84	23.8	0
15	QPSK	1	49	22.60	22.71	22.60		
15	QPSK	1	99	22.43	22.61	22.41		
15	QPSK	36	0	21.51	21.60	21.38	22.8	1
15	QPSK	36	20	21.47	21.51	21.43		
15	QPSK	36	39	21.40	21.47	21.44		
15	QPSK	75	0	21.45	21.55	21.68	22.8	1
15	16QAM	1	0	21.85	21.85	21.79		
15	16QAM	1	37	21.60	21.69	21.69		
15	16QAM	1	74	21.60	21.70	21.84	21.8	2
15	16QAM	36	0	20.61	20.69	20.59		
15	16QAM	36	20	20.51	20.60	20.50		
15	16QAM	36	39	20.39	20.65	20.55	21.8	2
15	16QAM	75	0	20.54	20.48	20.53		
15	64QAM	1	0	20.88	20.87	20.74		
15	64QAM	1	37	20.87	20.78	20.85	21.8	2
15	64QAM	1	74	20.57	20.75	20.55		
15	64QAM	36	0	19.84	19.75	19.53		
15	64QAM	36	20	19.85	19.73	19.60	20.8	3
15	64QAM	36	39	19.63	19.81	19.82		
15	64QAM	75	0	19.82	19.73	19.52		
15	256QAM	1	0	17.61	17.67	17.53	18.8	5
15	256QAM	1	37	17.54	17.62	17.62		
15	256QAM	1	74	17.80	17.64	17.68		
15	256QAM	36	0	17.53	17.62	17.42	18.8	5
15	256QAM	36	20	17.48	17.61	17.42		
15	256QAM	36	39	17.31	17.51	17.46		
15	256QAM	75	0	17.39	17.65	17.65	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				20850	21100	21400		
10	QPSK	1	0	22.66	22.66	22.90	23.8	0
10	QPSK	1	25	22.68	22.72	22.82		
10	QPSK	1	49	22.54	22.70	22.34		
10	QPSK	25	0	21.56	21.61	21.42	22.8	1
10	QPSK	25	12	21.43	21.54	21.49		
10	QPSK	25	25	21.56	21.52	21.47		
10	QPSK	50	0	21.51	21.65	21.66	22.8	1
10	16QAM	1	0	21.79	21.74	21.74		
10	16QAM	1	25	21.53	21.87	21.73		
10	16QAM	1	49	21.60	21.77	21.63	21.8	2
10	16QAM	25	0	20.44	20.51	20.42		
10	16QAM	25	12	20.38	20.69	20.37		
10	16QAM	25	25	20.44	20.70	20.60	21.8	2
10	16QAM	50	0	20.52	20.49	20.51		
10	64QAM	1	0	20.86	20.83	20.72		
10	64QAM	1	25	20.79	20.88	20.76	21.8	2
10	64QAM	1	49	20.73	20.82	20.71		
10	64QAM	25	0	19.70	19.62	19.59		
10	64QAM	25	12	19.63	19.72	19.58	20.8	3
10	64QAM	25	25	19.59	19.72	19.58		
10	64QAM	50	0	19.63	19.58	19.63		
10	256QAM	1	0	17.56	17.76	17.48	18.8	5
10	256QAM	1	25	17.60	17.83	17.68		
10	256QAM	1	49	17.80	17.63	17.88		
10	256QAM	25	0	17.50	17.64	17.30	18.8	5
10	256QAM	25	12	17.47	17.58	17.41		
10	256QAM	25	25	17.33	17.48	17.48		
10	256QAM	50	0	17.36	17.54	17.33	Tune-up limit (dBm)	MPR (dB)
Channel				20775	21100	21426	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				20775	21100	21426		
5	QPSK	1	0	22.54	22.73	22.82	23.8	0
5	QPSK	1	12	22.82	22.61	22.80		
5	QPSK	1	24	22.46	22.59	22.46		
5	QPSK	12	0	21.51	21.60	21.38	22.8	1
5	QPSK	12	7	21.46	21.60	21.37		
5	QPSK	12	13	21.47	21.51	21.38		
5	QPSK	25	0	21.45	21.54	21.64	22.8	1
5	16QAM	1	0	21.77	21.83	21.68		
5	16QAM	1	12	21.56	21.82	21.72		
5	16QAM	1	24	21.70	21.68	21.69	21.8	2
5	16QAM	12	0	20.50	20.56	20.48		
5	16QAM	12	7	20.51	20.62	20.50		
5	16QAM	12	13	20.50	20.69	20.66	21.8	2
5	16QAM	25	0	20.62	20.50	20.61		
5	64QAM	1	0	20.84	20.88	20.70		
5	64QAM	1	12	20.89	20.85	20.87	21.8	2
5	64QAM	1	24	20.76	20.80	20.74		
5	64QAM	12	0	19.60	19.77	19.49		
5	64QAM	12	7	19.66	19.63	19.61	20.8	3
5	64QAM	12	13	19.68	19.83	19.67		
5	64QAM	25	0	19.52	19.60	19.52		
5	256QAM	1	0	17.52	17.64	17.44	18.8	5
5	256QAM	1	12	17.52	17.79	17.60		
5	256QAM	1	24	17.63	17.65	17.51		
5	256QAM	12	0	17.48	17.56	17.37	18.8	5
5	256QAM	12	7	17.43	17.59	17.37		
5	256QAM	12	13	17.37	17.52	17.53		
5	256QAM	25	0	17.42	17.58	17.36	Tune-up limit (dBm)	MPR (dB)

Band 7_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				20850	21100	21350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				20850	21100	21350		
20	QPSK	1	0	21.79	21.88	21.84	23	0
20	QPSK	1	49	21.78	21.83	21.68		
20	QPSK	1	99	21.65	21.80	21.68		
20	QPSK	50	0	21.01	21.05	20.96	22	1
20	QPSK	50	24	20.90	20.92	20.89		
20	QPSK	50	50	20.87	20.97	20.87		
20	QPSK	100	0	20.83	20.97	20.86	22	1
20	16QAM	1	0	20.48	20.55	20.38		
20	16QAM	1	49	20.35	20.51	20.38		
20	16QAM	1	99	20.39	20.45	20.37	21	2
20	16QAM	50	0	19.71	19.85	19.68		
20	16QAM	50	24	19.81	19.90	19.85		
20	16QAM	50	50	19.78	19.88	19.83	21	2
20	16QAM	100	0	19.81	19.92	19.76		
20	64QAM	1	0	19.86	19.90	19.87		
20	64QAM	1	49	19.72	19.84	19.72	21	2
20	64QAM	1	99	19.88	19.92	19.86		
20	64QAM	50	0	19.82	19.95	19.79		
20	64QAM	50	24	19.76	19.90	19.82	20	3
20	64QAM	50	50	19.78	19.90	19.88		
20	64QAM	100	0	19.75	19.85	19.68		
20	256QAM	1	0	16.81	16.88	16.78	18	5
20	256QAM	1	49	16.77	16.85	16.67		
20	256QAM	1	99	16.80	16.81	16.62		
20	256QAM	50	0	16.81	16.90	16.87	18	5
20	256QAM	50	24	16.69	16.87	16.70		
20	256QAM	50	50	16.73	16.92	16.86		
20	256QAM	100	0	16.68	16.84	16.73	Channel	
Frequency (MHz)				20825	21100	21375		
15	QPSK	1	0	21.77	21.75	21.81	23	0
15	QPSK	1	37	21.76	21.73	21.50		
15	QPSK	1	74	21.50	21.60	21.60		
15	QPSK	36	0	20.71	20.79	20.58	22	1
15	QPSK	36	20	20.87	20.99	20.82		
15	QPSK	36	36	20.82	20.89	20.89		
15	QPSK	75	0	20.69	20.80	20.69	22	1
15	16QAM	1	0	20.30	20.40	20.34		
15	16QAM	1	37	20.35	20.25	20.25		
15	16QAM	1	74	20.21	20.40	20.36	21	2
15	16QAM	36	0	19.62	19.81	19.59		
15	16QAM	36	36	19.67	19.75	19.71		
15	16QAM	36	36	19.66	19.74	19.70	21	2
15	16QAM	75	0	19.77	19.74	19.72		
15	64QAM	1	0	19.77	19.75	19.78		
15	64QAM	1	37	19.68	19.73	19.68	21	2
15	64QAM	1	74	19.87	19.81	19.85		
15	64QAM	36	0	19.64	19.83	19.61		
15	64QAM	36	20	18.64	18.85	18.70	20	3
15	64QAM	36	36	18.83	18.97	18.89		
15	64QAM	75	0	18.71	18.80	18.84		
15	256QAM	1	0	16.73	16.76	16.70	18	5
15	256QAM	1	37	16.76	16.74	16.66		
15	256QAM	1	74	16.76	16.87	16.58		
15	256QAM	36	0	16.72	16.75	16.78	18	5
15	256QAM	36	20	16.54	16.69	16.55		
15	256QAM	36	36	16.64	16.83	16.73		
15	256QAM	75	0	16.52	16.79	16.57	Channel	
Frequency (MHz)				20800	21100	21400		
10	QPSK	1	0	21.59	21.74	21.68	23	0
10	QPSK	1	21	21.63	21.61	21.64		
10	QPSK	1	49	21.50	21.74	21.62		
10	QPSK	25	0	20.90	20.89	20.61	22	1
10	QPSK	25	13	20.94	20.84	20.84		
10	QPSK	25	25	20.85	20.77	20.78		
10	QPSK	50	0	20.67	20.90	20.69	22	1
10	16QAM	1	0	20.41	20.53	20.21		
10	16QAM	1	25	20.31	20.39	20.28		
10	16QAM	1	49	20.22	20.44	20.35	21	2
10	16QAM	25	0	19.63	19.67	19.68		
10	16QAM	25	12	19.64	19.87	19.68		
10	16QAM	25	25	19.67	19.69	19.71	21	2
10	16QAM	50	0	19.76	19.66	19.76		
10	64QAM	1	0	19.79	19.86	19.80		
10	64QAM	1	25	19.89	19.72	19.69	20	3
10	64QAM	1	49	19.78	19.84	19.79		
10	64QAM	25	0	18.66	18.84	18.63		
10	64QAM	25	12	18.65	18.71	18.71	18	5
10	64QAM	25	25	18.79	18.95	18.81		
10	64QAM	50	0	18.69	18.70	18.62		
10	256QAM	1	0	16.80	16.82	16.77	18	5
10	256QAM	1	16	16.68	16.68	16.58		
10	256QAM	1	49	16.74	16.74	16.56		
10	256QAM	25	0	16.81	16.90	16.81	18	5
10	256QAM	25	12	16.82	16.73	16.86		
10	256QAM	25	25	16.73	16.88	16.88		
10	256QAM	50	0	16.60	16.60	16.57	Channel	
Frequency (MHz)				20925	21100	21425		
5	QPSK	1	0	21.72	21.70	21.70	23	0
5	QPSK	1	24	21.72	21.73	21.70		
5	QPSK	1	12	21.55	21.80	21.50		
5	QPSK	12	0	20.92	20.92	20.71	22	1
5	QPSK	12	7	20.92	20.87	20.91		
5	QPSK	12	13	20.89	20.88	20.84		
5	QPSK	25	0	20.97	20.69	20.64	22	1
5	16QAM	1	0	20.41	20.43	20.20		
5	16QAM	1	12	20.30	20.51	20.32		
5	16QAM	1	24	20.20	20.43	20.16	21	2
5	16QAM	12	0	19.68	19.80	19.65		
5	16QAM	12	7	19.74	19.73	19.78		
5	16QAM	12	13	19.66	19.72	19.70	20	3
5	16QAM	25	0	19.63	19.68	19.58		
5	64QAM	1	0	19.72	19.81	19.73		
5	64QAM	1	12	19.67	19.80	19.67	21	2
5	64QAM	1	24	19.79	19.92	19.77		
5	64QAM	12	0	18.79	18.92	18.76		
5	64QAM	12	7	18.73	18.78	18.79	18	5
5	64QAM	12	13	18.77	18.88	18.83		
5	256QAM	1	0	16.75	16.76	16.66		
5	256QAM	1	16	16.81	16.72	16.78	18	5
5	256QAM	1	12	16.61	16.81	16.51		
5	256QAM	1	24	16.62	16.79	16.44		
5	256QAM	12	0	16.56	16.87	16.72	18	5
5	256QAM	12	7	16.69	16.75	16.70		
5	256QAM	12	13	16.57	16.60	16.70		
5	256QAM	25	0	16.51	16.66	16.56	Channel	
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	21.70	21.70	21.70	23	0
5	QPSK	1	24	21.72	21.73	21.70		
5	QPSK	1	12	21.55	21.80	21.50		
5	QPSK	12	0	20.92	20.92	20.71	22	1
5	QPSK	12	7	20.92	20.87	20.91		
5	QPSK	12	13	20.89	20.88	20.84		
5	QPSK	25	0	20.97	20.69	20.64	22	1
5	16QAM	1	0	20.41	20.43	20.20		
5	16QAM	1	12	20.30	20.51	20.32		
5	16QAM	1	24	20.20	20.43	20.16	21	2
5	16QAM	12	0	19.68	19.80	19.65		
5	16QAM	12	7	19.74	19.73	19.78		
5	16QAM	12	13	19.66	19.72	19.70	20	3
5	16QAM	25	0	19.63	19.68	19.58		
5	64QAM	1	0	19.72	19.81	19.73		
5	64QAM	1	12	19.67	19.80	19.67	21	2
5	64QAM	1	24	19.79	19.92	19.77		
5	64QAM	12	0	18.79	18.92	18.76		
5	64QAM	12	7	18.73	18.78	18.79	18	5
5	64QAM	12	13	18.77	18.88	18.83		
5	256QAM	1	0	16.75	16.76	16.66		
5	256QAM	1	16	16.81	16.72	16.78	18	5
5	256QAM	1	12	16.61	16.81	16.51		
5	256QAM	1	24	16.62	16.79	16.44		
5	256QAM	12	0	16.56	16.87	16.72	18	5
5	256QAM	12	7	16.69	16.75	16.70		
5	256QAM	12	13	16.57	16.60	16.70		
5	256QAM	25	0	16.51	16.66	16.56	Channel	
Frequency (MHz)				2502.5	2535	2567.5		

Band 12_Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power Middle Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23065	23130		
Frequency (MHz)				704.5	707.5	711		
10	QPSK	1	0	23.69	23.82	23.69	24.3	0
10	QPSK	1	25	23.65	23.70	23.60		
10	QPSK	1	49	23.61	23.62	23.65		
10	QPSK	25	0	22.76	22.84	22.76	23.3	1
10	QPSK	25	12	22.71	22.71	22.71		
10	QPSK	25	25	22.74	22.74	22.69		
10	QPSK	50	0	22.71	22.79	22.74	23.3	1
10	16QAM	1	0	23.14	22.95	23.21		
10	16QAM	1	25	23.12	23.00	23.09		
10	16QAM	1	49	23.12	23.13	23.19	22.3	2
10	16QAM	25	0	21.70	21.70	21.74		
10	16QAM	25	12	21.82	21.75	21.86		
10	16QAM	25	25	21.75	21.83	21.83	22.3	2
10	16QAM	50	0	21.79	21.72	21.85		
10	84QAM	1	0	21.93	21.77	21.95		
10	84QAM	1	49	22.02	21.93	21.96	21.3	3
10	84QAM	25	0	20.72	20.70	20.75		
10	84QAM	25	12	20.79	20.76	20.83		
10	84QAM	25	25	20.78	20.81	20.81	19.3	5
10	84QAM	50	0	20.77	20.70	20.81		
10	256QAM	1	0	18.70	18.70	18.70		
10	256QAM	1	25	18.58	18.75	18.72	19.3	5
10	256QAM	1	49	18.61	18.77	18.63		
10	256QAM	25	0	18.74	18.72	18.69		
10	256QAM	25	12	18.58	18.79	18.56	19.3	5
10	256QAM	25	25	18.58	18.75	18.68		
10	256QAM	50	0	18.59	18.69	18.57		
Channel				23065	23065	23156		
Frequency (MHz)				704.5	707.5	713.5		
5	QPSK	1	0	23.58	23.57	23.62	24.3	0
5	QPSK	1	12	23.69	23.68	23.68		
5	QPSK	1	24	23.63	23.64	23.70		
5	QPSK	12	0	22.84	22.85	22.70	23.3	1
5	QPSK	12	7	22.74	22.75	22.82		
5	QPSK	12	13	22.70	22.76	22.79		
5	QPSK	25	0	22.90	22.85	22.89	23.3	1
5	16QAM	1	0	22.94	23.03	23.05		
5	16QAM	1	12	23.01	23.23	23.23		
5	16QAM	1	24	22.91	23.10	23.10	22.3	2
5	16QAM	12	0	21.67	21.73	21.72		
5	16QAM	12	7	21.81	21.81	21.81		
5	16QAM	12	13	21.78	21.81	21.83	21.3	3
5	16QAM	25	0	21.75	21.69	21.73		
5	84QAM	1	0	21.81	21.97	21.93		
5	84QAM	1	12	22.07	22.00	22.07	19.3	5
5	84QAM	1	24	21.90	21.93	22.01		
5	84QAM	12	0	20.70	20.73	20.72		
5	84QAM	12	7	20.82	20.80	20.86	19.3	5
5	84QAM	12	13	20.73	20.74	20.80		
5	84QAM	25	0	20.73	20.88	20.72		
5	256QAM	1	0	18.59	18.68	18.74	19.3	5
5	256QAM	1	12	18.56	18.69	18.71		
5	256QAM	1	24	18.48	18.72	18.59		
5	256QAM	12	0	18.84	18.88	18.67	19.3	5
5	256QAM	12	7	18.43	18.72	18.52		
5	256QAM	12	13	18.42	18.69	18.53		
5	256QAM	25	0	18.49	18.52	18.40		
Channel				23065	23065	23186		
Frequency (MHz)				704.5	707.5	714.5		
3	QPSK	1	0	23.68	23.66	23.58	24.3	0
3	QPSK	1	8	23.79	23.67	23.65		
3	QPSK	1	14	23.71	23.67	23.56		
3	QPSK	8	0	22.88	22.73	22.85	23.3	1
3	QPSK	8	4	22.89	22.81	22.87		
3	QPSK	8	7	22.87	22.80	22.72		
3	QPSK	15	0	22.83	22.68	22.62	23.3	1
3	16QAM	1	0	23.05	23.13	22.97		
3	16QAM	1	8	23.10	23.20	23.10		
3	16QAM	1	14	23.15	23.05	23.05	22.3	2
3	16QAM	8	0	21.99	21.74	21.74		
3	16QAM	8	4	21.97	21.92	21.73		
3	16QAM	8	7	21.95	21.85	21.77	21.3	2
3	84QAM	1	0	21.89	22.03	21.81		
3	84QAM	1	8	22.00	21.89	21.90		
3	84QAM	1	14	21.96	21.93	22.00	19.3	3
3	84QAM	8	0	20.88	20.81	20.71		
3	84QAM	8	4	20.96	20.85	20.67		
3	84QAM	8	7	20.87	20.81	20.72	19.3	5
3	84QAM	15	0	20.90	20.72	20.64		
3	256QAM	1	0	18.65	18.70	18.62		
3	256QAM	1	8	18.57	18.61	18.57	19.3	5
3	256QAM	1	14	18.61	18.73	18.56		
3	256QAM	8	0	18.63	18.77	18.59		
3	256QAM	8	4	18.56	18.70	18.45	19.3	5
3	256QAM	8	7	18.52	18.59	18.52		
3	256QAM	15	0	18.56	18.61	18.57		
Channel				23067	23065	23223		
Frequency (MHz)				69.7 <th>707.5</th> <th>714.5<th></th><th></th></th>	707.5	714.5 <th></th> <th></th>		
1.4	QPSK	1	0	23.73	23.68	23.61	24.3	0
1.4	QPSK	1	3	23.69	23.71	23.67		
1.4	QPSK	1	5	23.71	23.67	23.58		
1.4	QPSK	3	0	23.75	23.75	23.68	23.3	1
1.4	QPSK	3	1	23.72	23.72	23.73		
1.4	QPSK	3	3	23.76	23.75	23.69		
1.4	16QAM	1	0	23.22	23.22	23.06	23.3	1
1.4	16QAM	1	3	23.22	23.29	23.07		
1.4	16QAM	1	5	23.24	23.23	23.01		
1.4	16QAM	3	0	23.03	23.00	22.93	22.3	2
1.4	16QAM	3	1	23.07	22.92	22.82		
1.4	16QAM	3	3	23.01	22.94	22.86		
1.4	84QAM	1	0	21.92	21.73	21.78	21.3	2
1.4	84QAM	1	3	22.07	21.97	22.03		
1.4	84QAM	1	5	22.06	21.93	21.89		
1.4	84QAM	3	0	22.15	21.87	21.85	19.3	2
1.4	84QAM	3	1	22.02	21.93	21.79		
1.4	84QAM	3	3	22.02	21.97	21.89		
1.4	256QAM	1	0	18.65	18.67	18.60	19.3	3
1.4	256QAM	1	3	18.47	18.74	18.66		
1.4	256QAM	1	5	18.57	18.70	18.53		
1.4	256QAM	3	0	18.65	18.69	18.64	19.3	5
1.4	256QAM	3	1	18.48	18.70	18.46		
1.4	256QAM	3	3	18.57	18.66	18.56		
1.4	256QAM	6	0	18.47	18.52	18.41	19.3	5
1.4	256QAM	6	1	18.47	18.74	18.66		
1.4	256QAM	6	3	18.57	18.66	18.56		
1.4	256QAM	6	5	18.47	18.52	18.41	19.3	5
1.4	256QAM	6	3	18.47	18.74	18.66		
1.4	256QAM	6	5	18.57	18.66	18.56		

Band 12_Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23065	23130		
Frequency (MHz)				707.5	707.5	711		
10	QPSK	1	0	23.94	24.00	23.87	24.8	0
10	QPSK	1	25	23.90	23.90	23.81		
10	QPSK	1	49	23.92	23.88	23.86		
10	QPSK	25	0	22.95	23.01	22.93	23.8	1
10	QPSK	25	12	22.89	22.96	22.92		
10	QPSK	25	25	22.93	23.00	22.90		
10	QPSK	50	0	22.94	23.00	22.89	23.8	1
10	16QAM	1	0	23.22	23.28	23.18		
10	16QAM	1	49	23.23	23.25	23.23		
10	16QAM	1	25	21.88	21.83	21.88	22.8	2
10	16QAM	25	12	22.02	22.02	21.93		
10	16QAM	25	25	22.01	22.03	22.00		
10	16QAM	50	0	21.98	21.99	21.91	21.8	3
10	84QAM	1	0	22.11	22.17	21.94		
10	84QAM	1	25	22.09	22.28	22.27		
10	84QAM	1	49	22.14	22.30	22.22	22.8	2
10	84QAM	25	0	20.92	20.93	20.87		
10	84QAM	25	12	20.98	21.00	20.92		
10	84QAM	25	25	20.99	21.01	20.99	21.8	3
10	84QAM	50	0	20.97	21.01	20.86		
10	256QAM	1	0	18.92	18.92	18.84		
10	256QAM	1	25	18.76	18.95	18.92	19.8	5
10	256QAM	1	49	18.82	18.90	18.90		
10	256QAM	0	25	18.93	18.88	18.84		
10	256QAM	12	12	18.68	18.85	18.85	19.8	5
10	256QAM	12	25	18.80	18.83	18.92		
10	256QAM	50	0	18.84	18.84	18.68		
Channel				23035	23095	23156	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				707.5	707.5	713.5		
5	QPSK	1	0	23.78	23.85	23.82	24.8	0
5	QPSK	1	12	23.84	23.93	23.90		
5	QPSK	1	24	23.80	23.83	23.87		
5	QPSK	0	12	22.83	22.87	22.87	23.8	1
5	QPSK	12	7	22.95	22.96	23.00		
5	QPSK	12	13	22.92	22.94	22.98		
5	QPSK	25	0	22.50	22.85	22.88	23.8	1
5	16QAM	1	0	23.19	23.16	23.16		
5	16QAM	1	25	23.20	23.28	23.29		
5	16QAM	1	24	23.19	23.13	23.27	22.8	2
5	16QAM	12	7	21.86	21.92	21.90		
5	16QAM	12	13	22.01	22.05	22.04		
5	16QAM	25	0	21.91	21.85	21.88	21.8	3
5	16QAM	1	0	21.96	22.05	22.13		
5	84QAM	1	12	22.11	22.16	22.21		
5	84QAM	1	24	22.14	22.11	22.05	21.8	3
5	84QAM	12	0	20.88	20.88	20.88		
5	84QAM	12	7	20.98	21.01	21.04		
5	84QAM	12	13	20.88	20.99	20.96	19.8	5
5	84QAM	25	0	20.92	20.97	20.91		
5	256QAM	1	0	18.78	18.88	18.73		
5	256QAM	1	12	18.67	18.92	18.79	19.8	5
5	256QAM	1	24	18.65	18.82	18.84		
5	256QAM	12	0	18.81	18.74	18.72		
5	256QAM	12	7	18.82	18.82	18.79	19.8	5
5	256QAM	12	13	18.95	18.75	18.74		
5	256QAM	25	0	18.79	18.88	18.60		
Channel				23025	23095	23196	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				707.5	707.5	714.5		
3	QPSK	1	0	23.78	23.76	23.80	24.8	0
3	QPSK	1	8	23.90	23.83	23.89		
3	QPSK	1	14	23.78	23.78	23.85		
3	QPSK	8	0	22.91	22.83	22.88	23.8	1
3	QPSK	8	4	22.93	22.86	23.01		
3	QPSK	8	7	22.94	22.97	22.86		
3	QPSK	15	0	22.91	22.94	22.88	23.8	1
3	16QAM	1	0	23.14	23.20	23.10		
3	16QAM	1	23	23.08	23.20	23.20		
3	16QAM	1	14	23.19	23.18	23.11	22.8	2
3	16QAM	8	0	22.02	22.07	22.08		
3	16QAM	8	4	22.03	22.02	22.08		
3	16QAM	8	7	22.03	22.00	22.11	21.8	3
3	84QAM	1	0	21.97	22.20	22.11		
3	84QAM	1	8	22.07	22.16	22.11		
3	84QAM	1	14	22.07	22.13	22.13	19.8	5
3	84QAM	8	0	21.02	20.89	20.97		
3	84QAM	8	4	20.98	20.98	21.07		
3	84QAM	8	7	20.94	21.01	21.04	19.8	5
3	84QAM	15	0	20.84	20.97	20.91		
3	256QAM	1	0	18.77	18.98	18.84		
3	256QAM	1	18	18.62	18.81	18.75	19.8	5
3	256QAM	1	14	18.80	18.80	18.80		
3	256QAM	8	0	18.81	18.70	18.78		
3	256QAM	8	0	18.51	18.80	18.78	19.8	5
3	256QAM	8	7	18.82	18.81	18.92		
3	256QAM	15	0	18.69	18.80	18.59		
Channel				23018	23095	23193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	23.84	23.83	23.89	24.8	0
1.4	QPSK	3	0	23.81	23.89	23.89		
1.4	QPSK	1	5	23.81	23.81	23.89		
1.4	QPSK	3	0	23.85	23.89	23.93	23.8	1
1.4	QPSK	3	8	23.86	23.88	23.91		
1.4	QPSK	3	3	23.84	23.92	23.88		
1.4	QPSK	6	0	22.87	23.00	22.93	23.8	1
1.4	16QAM	1	0	23.17	23.22	23.20		
1.4	16QAM	1	3	23.27	23.26	23.23		
1.4	16QAM	3	0	23.18	23.29	23.29	22.8	2
1.4	16QAM	3	0	22.99	23.08	23.12		
1.4	16QAM	6	0	21.99	22.00	22.03		
1.4	84QAM	1	0	22.18	21.99	22.11	21.8	3
1.4	84QAM	3	0	22.22	22.22	22.28		
1.4	84QAM	3	1	21.98	22.06	22.04		
1.4	84QAM	3	3	21.98	22.06	22.12	19.8	5
1.4	84QAM	6	0	20.96	20.97	20.99		
1.4	256QAM	1	0	18.77	18.83	18.83		
1.4	256QAM	1	3	18.66	18.88	18.92	19.8	5
1.4	256QAM	1	5	18.73	18.80	18.73		
1.4	256QAM	3	0	18.79	18.86	18.71		
1.4	256QAM	3	1	18.51	18.77	18.74	19.8	5
1.4	256QAM	3	3	18.76	18.86	18.86		
1.4	256QAM	6	0	18.51	18.79	18.59		

Band 13_Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23230			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				762				
10	QPSK	1	0		23.78		24.3	0
10	QPSK	1	25		23.70			
10	QPSK	1	49		23.63			
10	QPSK	25	0		22.80		23.3	1
10	QPSK	25	12		22.78			
10	QPSK	25	25		22.73			
10	QPSK	50	0		22.78		23.3	1
10	16QAM	1	0		23.18			
10	16QAM	1	25		23.11			
10	16QAM	1	49		23.06		22.3	2
10	16QAM	25	0		21.79			
10	16QAM	25	12		21.81			
10	16QAM	25	25		21.75		22.3	2
10	16QAM	50	0		21.75			
10	64QAM	1	0		21.97			
10	64QAM	1	25		22.06		22.3	2
10	64QAM	1	49		22.00			
10	64QAM	25	0		20.80			
10	64QAM	25	12		20.82		21.3	3
10	64QAM	25	25		20.74			
10	64QAM	50	0		20.76			
10	256QAM	1	0		18.80		19.3	5
10	256QAM	1	25		18.77			
10	256QAM	1	49		18.75			
10	256QAM	25	0		18.70		19.3	5
10	256QAM	25	12		18.79			
10	256QAM	25	25		18.82			
10	256QAM	50	0		18.75			
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	762	784.5		
5	QPSK	1	0	23.74	23.73	23.70	24.3	0
5	QPSK	1	12	23.76	23.72	23.74		
5	QPSK	1	24	23.73	23.74	23.62		
5	QPSK	12	0	22.78	22.74	22.78	23.3	1
5	QPSK	12	7	22.86	22.73	22.78		
5	QPSK	12	13	22.82	22.72	22.75		
5	QPSK	25	0	22.84	22.73	22.78	23.3	1
5	16QAM	1	0	23.03	23.10	23.12		
5	16QAM	1	12	23.20	23.29	23.17		
5	16QAM	1	24	23.15	23.11	23.15	22.3	2
5	16QAM	12	0	21.78	21.83	21.81		
5	16QAM	12	7	21.97	21.79	21.84		
5	16QAM	12	13	21.86	21.80	21.84	22.3	2
5	16QAM	25	0	21.84	21.75	21.78		
5	64QAM	1	0	21.95	22.10	22.04		
5	64QAM	1	12	22.07	22.19	21.93	22.3	2
5	64QAM	1	24	22.08	22.15	22.02		
5	64QAM	12	0	20.84	20.79	20.80		
5	64QAM	12	7	20.94	20.81	20.82	21.3	3
5	64QAM	12	13	20.90	20.79	20.79		
5	64QAM	25	0	20.83	20.79	20.80		
5	256QAM	1	0	18.61	18.73	18.79	19.3	5
5	256QAM	1	12	18.58	18.58	18.65		
5	256QAM	1	24	18.75	18.75	18.69		
5	256QAM	12	0	18.69	18.55	18.64	19.3	5
5	256QAM	12	7	18.63	18.68	18.65		
5	256QAM	12	13	18.64	18.70	18.68		
5	256QAM	25	0	18.67	18.71	18.63		

Band 13_Ant 1

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				23230			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				762				
10	QPSK	1	0		23.05		24.8	0
10	QPSK	1	25		23.80			
10	QPSK	1	49		23.89			
10	QPSK	25	0		22.99		23.8	1
10	QPSK	25	12		22.97			
10	QPSK	25	25		22.90			
10	QPSK	50	0		22.95		23.8	1
10	16QAM	1	0		23.20			
10	16QAM	1	25		23.22			
10	16QAM	1	49		23.24		22.8	2
10	16QAM	25	0		22.00			
10	16QAM	25	12		21.99			
10	16QAM	25	25		21.96		22.8	2
10	16QAM	50	0		21.97			
10	64QAM	1	0		22.15			
10	64QAM	1	25		22.21		22.8	2
10	64QAM	1	49		22.14			
10	64QAM	25	0		21.01			
10	64QAM	25	12		20.98		21.8	3
10	64QAM	25	25		20.91			
10	64QAM	50	0		20.95			
10	256QAM	1	0		19.06		19.8	5
10	256QAM	1	25		19.62			
10	256QAM	1	49		19.00			
10	256QAM	25	0		18.95		19.8	5
10	256QAM	25	12		19.00			
10	256QAM	25	25		18.98			
10	256QAM	50	0		18.94			
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	762	784.5		
5	QPSK	1	0	23.80	23.84	23.76	24.8	0
5	QPSK	1	12	23.88	23.81	23.83		
5	QPSK	1	24	23.85	23.81	23.68		
5	QPSK	12	0	22.82	22.81	22.88	23.8	1
5	QPSK	12	7	22.95	22.85	22.89		
5	QPSK	12	13	22.90	22.80	22.84		
5	QPSK	25	0	22.92	22.82	22.83	23.8	1
5	16QAM	1	0	23.20	23.06	23.22		
5	16QAM	1	12	23.30	23.25	23.27		
5	16QAM	1	24	23.22	23.14	23.06	22.8	2
5	16QAM	12	0	21.85	21.86	21.90		
5	16QAM	12	7	21.98	21.88	21.96		
5	16QAM	12	13	21.99	21.87	21.93	22.8	2
5	16QAM	25	0	21.94	21.85	21.85		
5	64QAM	1	0	22.09	22.18	22.08		
5	64QAM	1	12	22.19	22.18	22.02	22.8	2
5	64QAM	1	24	22.17	22.08	22.06		
5	64QAM	12	0	20.88	20.89	20.91		
5	64QAM	12	7	20.96	20.87	20.92	21.8	3
5	64QAM	12	13	20.99	20.84	20.93		
5	64QAM	25	0	20.95	20.85	20.85		
5	256QAM	1	0	18.99	19.01	18.99	19.8	5
5	256QAM	1	12	19.00	19.00	18.87		
5	256QAM	1	24	18.85	18.99	18.86		
5	256QAM	12	0	18.81	18.84	18.81	19.8	5
5	256QAM	12	7	18.84	18.89	18.84		
5	256QAM	12	13	18.74	18.82	18.83		
5	256QAM	25	0	18.75	18.89	18.80		

Band 17_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23780	23790	23800			
Frequency (MHz)				708	710	711			
10	QPSK	1	0	23.63	23.78	23.85	24.3	0	
10	QPSK	1	25	23.60	23.75	23.81			
10	QPSK	1	49	23.55	23.70	23.68			
10	QPSK	25	0	22.79	22.82	22.76	23.3	1	
10	QPSK	25	12	22.73	22.78	22.73			
10	QPSK	25	25	22.73	22.69	22.71			
10	QPSK	50	0	22.78	22.80	22.75	23.3	1	
10	16QAM	1	0	23.09	23.07	23.06			
10	16QAM	1	25	23.01	23.16	23.07			
10	16QAM	1	49	23.29	23.26	23.26	22.3	2	
10	16QAM	25	0	21.73	21.75	21.75			
10	16QAM	25	12	21.86	21.81	21.81			
10	16QAM	25	25	21.84	21.84	21.86	22.3	2	
10	16QAM	50	0	21.79	21.75	21.76			
10	64QAM	1	0	21.81	21.86	21.81			
10	64QAM	1	25	21.95	22.13	22.08	22.3	2	
10	64QAM	1	49	22.03	22.03	21.95			
10	64QAM	25	0	20.71	20.71	20.72			
10	64QAM	25	12	20.81	20.77	20.79	21.3	3	
10	64QAM	25	25	20.77	20.83	20.85			
10	64QAM	50	0	20.81	20.72	20.73			
10	256QAM	1	0	18.71	18.75	18.70	19.3	5	
10	256QAM	1	25	18.54	18.72	18.61			
10	256QAM	1	49	18.74	18.77	18.73			
10	256QAM	25	0	18.52	18.70	18.60	19.3	5	
10	256QAM	25	12	18.63	18.79	18.71			
10	256QAM	25	25	18.80	18.80	18.79			
10	256QAM	50	0	18.66	18.74	18.61	Tune-up limit (dBm)		MPR (dB)
Channel				23785	23790	23805			
Frequency (MHz)				708.5	710	713.5			
5	QPSK	1	0	23.59	23.66	23.67	24.3	0	
5	QPSK	1	12	23.72	23.69	23.71			
5	QPSK	1	24	23.69	23.69	23.64			
5	QPSK	12	0	22.68	22.70	22.71	23.3	1	
5	QPSK	12	7	22.80	22.73	22.83			
5	QPSK	12	13	22.76	22.79	22.81			
5	QPSK	25	0	22.76	22.69	22.72	23.3	1	
5	16QAM	1	0	23.11	23.10	23.06			
5	16QAM	1	12	23.19	23.20	23.21			
5	16QAM	1	24	22.99	23.11	23.16	22.3	1	
5	16QAM	12	0	21.72	21.73	21.73			
5	16QAM	12	7	21.83	21.79	21.89			
5	16QAM	12	13	21.89	21.86	21.84	22.3	2	
5	16QAM	25	0	21.77	21.72	21.77			
5	64QAM	1	0	22.07	21.96	21.93			
5	64QAM	1	12	22.04	21.89	22.04	22.3	2	
5	64QAM	1	24	22.07	21.94	21.96			
5	64QAM	12	0	20.66	20.74	20.72			
5	64QAM	12	7	20.80	20.79	20.88	21.3	3	
5	64QAM	12	13	20.76	20.82	20.83			
5	64QAM	25	0	20.77	20.72	20.70			
5	256QAM	1	0	18.55	18.59	18.70	19.3	5	
5	256QAM	1	12	18.36	18.64	18.45			
5	256QAM	1	24	18.58	18.61	18.69			
5	256QAM	12	0	18.45	18.59	18.59	19.3	5	
5	256QAM	12	7	18.50	18.68	18.58			
5	256QAM	12	13	18.66	18.74	18.61			
5	256QAM	25	0	18.50	18.56	18.59			

Band 17_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23780	23790	23800			
Frequency (MHz)				710	710	711			
10	QPSK	1	0	23.82	23.99	23.80	24.8	0	
10	QPSK	1	25	23.80	23.85	23.76			
10	QPSK	1	49	23.77	23.82	23.75			
10	QPSK	25	0	22.89	22.99	22.97	23.8	1	
10	QPSK	25	12	22.81	22.85	22.96			
10	QPSK	25	25	22.88	22.89	22.89			
10	QPSK	50	0	22.93	22.97	22.94	23.8	1	
10	16QAM	1	0	23.26	23.20	23.20			
10	16QAM	1	25	23.25	23.11	23.30			
10	16QAM	1	49	23.27	23.26	23.23	22.8	2	
10	16QAM	25	0	21.88	21.89	21.92			
10	16QAM	25	12	22.03	21.85	21.87			
10	16QAM	25	25	22.03	22.04	22.05	22.8	2	
10	16QAM	50	0	21.89	21.85	21.88			
10	64QAM	1	0	22.08	22.07	22.12			
10	64QAM	1	25	22.09	22.10	22.27	22.8	2	
10	64QAM	1	49	22.14	22.27	22.27			
10	64QAM	25	0	20.87	20.88	21.09			
10	64QAM	25	12	21.05	20.93	20.96	21.8	3	
10	64QAM	25	25	20.99	21.01	21.02			
10	64QAM	50	0	20.98	20.92	20.84			
10	256QAM	1	0	18.89	18.96	18.86	19.8	5	
10	256QAM	1	25	18.89	18.82	18.87			
10	256QAM	1	49	18.87	18.88	18.72			
10	256QAM	25	0	18.84	18.84	18.71	19.8	5	
10	256QAM	25	12	18.96	19.00	18.99			
10	256QAM	25	25	18.76	18.90	18.74			
10	256QAM	50	0	18.75	18.87	18.80			
Channel				23785	23790	23825			
Frequency (MHz)				708.5	710	713.5			
5	QPSK	1	0	23.73	23.82	23.75	24.8	0	
5	QPSK	1	12	23.85	23.88	23.85			
5	QPSK	1	24	23.79	23.79	23.81			
5	QPSK	12	0	22.78	22.77	22.80	23.8	1	
5	QPSK	12	7	22.88	22.81	22.91			
5	QPSK	12	13	22.85	22.88	22.91			
5	QPSK	25	0	22.84	22.79	22.80	23.8	1	
5	16QAM	1	0	23.21	23.15	23.09			
5	16QAM	1	12	23.27	23.27	23.30			
5	16QAM	1	24	23.13	23.02	23.29	22.8	2	
5	16QAM	12	0	21.82	21.84	21.83			
5	16QAM	12	7	21.92	21.90	21.99			
5	16QAM	12	13	21.95	21.96	21.98	22.8	2	
5	16QAM	25	0	21.86	21.83	21.83			
5	64QAM	1	0	21.94	21.92	22.08			
5	64QAM	1	12	22.02	22.07	22.19	22.8	2	
5	64QAM	1	24	22.05	22.05	22.02			
5	64QAM	12	0	20.77	20.81	20.90			
5	64QAM	12	7	20.94	20.90	20.92	21.8	3	
5	64QAM	12	13	20.93	20.97	20.92			
5	64QAM	25	0	20.85	20.81	20.86			
5	256QAM	1	0	18.85	18.82	18.67	19.8	5	
5	256QAM	1	12	18.81	18.82	18.85			
5	256QAM	1	24	18.70	18.80	18.72			
5	256QAM	12	0	18.68	18.88	18.55	19.8	5	
5	256QAM	12	7	18.81	18.83	18.85			
5	256QAM	12	13	18.67	18.81	18.67			
5	256QAM	25	0	18.64	18.80	18.77			

Band 25_Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power Middle Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
26140 26340 26590										
20	QPSK	1	0	1860	1880	1905	23.4	0		
20	QPSK	1	49	22.61	22.65	22.55				
20	QPSK	1	99	22.6	22.49	22.48				
20	QPSK	50	0	21.63	21.69	21.59	22.4	1		
20	QPSK	50	24	21.6	21.62	21.54				
20	QPSK	50	50	21.62	21.56	21.58				
20	QPSK	100	0	21.63	21.66	21.52	22.4	1		
20	16QAM	1	0	21.62	21.65	21.7				
20	16QAM	1	49	21.9	21.8	22.08				
20	16QAM	1	99	21.66	21.66	21.62	21.4	2		
20	16QAM	50	0	20.7	20.56	20.52				
20	16QAM	50	24	20.69	20.64	20.54				
20	16QAM	50	50	20.84	20.57	20.59	21.4	2		
20	16QAM	100	0	20.88	20.61	20.54				
20	64QAM	1	0	20.88	20.75	20.75				
20	64QAM	1	49	20.99	20.67	20.72	21.4	2		
20	64QAM	1	99	20.96	20.57	20.6				
20	64QAM	50	0	19.74	19.59	19.53				
20	64QAM	50	24	19.67	19.67	19.56	20.4	3		
20	64QAM	50	50	19.62	19.56	19.56				
20	64QAM	100	0	19.66	19.6	19.52				
20	256QAM	1	0	17.40	17.56	17.55	18.4	5		
20	256QAM	1	49	17.59	17.60	17.47				
20	256QAM	1	99	17.53	17.66	17.48				
20	256QAM	50	0	17.44	17.52	17.52	18.4	5		
20	256QAM	50	24	17.47	17.59	17.54				
20	256QAM	50	50	17.48	17.59	17.49				
20	256QAM	100	0	17.39	17.58	17.47	Tune-up limit (dBm)	MPR (dB)		
26115 26340 26515										
1867.5 1880 1907.5										
15	QPSK	1	0	22.59	22.42	22.35	23.4	0		
15	QPSK	1	37	22.43	22.33	22.45				
15	QPSK	1	74	22.37	22.41	22.3				
15	QPSK	36	0	21.52	21.56	21.48	22.4	1		
15	QPSK	36	20	21.67	21.5	21.41				
15	QPSK	36	39	21.62	21.54	21.56				
15	QPSK	75	0	21.6	21.46	21.37	22.4	1		
15	16QAM	1	0	21.74	21.64	21.54				
15	16QAM	1	37	21.73	21.67	21.68				
15	16QAM	1	74	21.52	21.52	21.55	21.4	2		
15	16QAM	36	0	20.54	20.43	20.36				
15	16QAM	36	20	20.61	20.46	20.46				
15	16QAM	36	39	20.58	20.44	20.53	21.4	2		
15	16QAM	75	0	20.58	20.43	20.46				
15	64QAM	1	0	20.83	20.57	20.7				
15	64QAM	1	37	20.95	20.56	20.68	21.4	2		
15	64QAM	1	74	20.46	20.49	20.5				
15	64QAM	36	0	19.56	19.43	19.35				
15	64QAM	36	20	19.53	19.64	19.44	20.4	3		
15	64QAM	36	39	19.56	19.48	19.53				
15	64QAM	75	0	19.58	19.42	19.42				
15	256QAM	1	0	17.21	17.56	17.36	18.4	5		
15	256QAM	1	37	17.57	17.55	17.43				
15	256QAM	1	74	17.47	17.53	17.42				
15	256QAM	36	0	17.34	17.52	17.42	18.4	5		
15	256QAM	36	20	17.30	17.40	17.37				
15	256QAM	36	39	17.47	17.45	17.48				
15	256QAM	75	0	17.38	17.58	17.44	Tune-up limit (dBm)	MPR (dB)		
26070 26340 26590										
1865 1880 1910										
10	QPSK	1	0	22.53	22.41	22.39	23.4	0		
10	QPSK	1	25	22.52	22.4	22.3				
10	QPSK	1	49	22.23	22.45	22.29				
10	QPSK	25	12	21.56	21.57	21.47	22.4	1		
10	QPSK	25	25	21.56	21.5	21.36				
10	QPSK	25	25	21.5	21.43	21.44				
10	QPSK	50	0	21.44	21.39	21.47	22.4	1		
10	16QAM	1	0	21.69	21.78	21.51				
10	16QAM	1	25	21.77	21.8	21.86				
10	16QAM	1	49	21.5	21.54	21.53	21.4	2		
10	16QAM	25	0	20.53	20.38	20.35				
10	16QAM	25	12	20.53	20.61	20.38				
10	16QAM	25	25	20.56	20.39	20.53	21.4	2		
10	16QAM	50	0	20.64	20.6	20.52				
10	64QAM	1	0	20.73	20.57	20.6				
10	64QAM	1	25	20.87	20.55	20.49	21.4	2		
10	64QAM	1	49	20.46	20.45	20.5				
10	64QAM	25	0	19.72	19.59	19.51				
10	64QAM	25	12	19.65	19.58	19.58	20.4	3		
10	64QAM	25	25	19.59	19.51	19.56				
10	64QAM	50	0	19.65	19.46	19.51				
10	256QAM	1	0	17.35	17.55	17.50	18.4	5		
10	256QAM	1	25	17.42	17.52	17.30				
10	256QAM	1	49	17.49	17.66	17.44				
10	256QAM	25	0	17.38	17.40	17.44	18.4	5		
10	256QAM	25	12	17.46	17.59	17.53				
10	256QAM	25	25	17.42	17.43	17.43				
10	256QAM	50	0	17.22	17.44	17.30	Tune-up limit (dBm)	MPR (dB)		
26065 26340 26665										
1852.5 1850 1912.5										
5	QPSK	1	0	22.58	22.41	22.34	23.4	0		
5	QPSK	1	12	22.48	22.41	22.35				
5	QPSK	1	24	22.22	22.33	22.2				
5	QPSK	12	0	21.58	21.54	21.52	22.4	1		
5	QPSK	12	7	21.59	21.43	21.52				
5	QPSK	12	13	21.46	21.44	21.37				
5	QPSK	25	0	21.48	21.53	21.48	22.4	1		
5	16QAM	1	0	21.65	21.73	21.63				
5	16QAM	1	12	21.61	21.61	21.96				
5	16QAM	1	24	21.67	21.62	21.6	21.4	2		
5	16QAM	12	0	20.65	20.4	20.47				
5	16QAM	12	7	20.62	20.61	20.47				
5	16QAM	12	13	20.44	20.42	20.52	21.4	2		
5	16QAM	25	0	20.58	20.58	20.49				
5	64QAM	1	0	20.84	20.6	20.71				
5	64QAM	1	12	20.86	20.58	20.59	21.4	2		
5	64QAM	1	24	20.53	20.54	20.57				
5	64QAM	12	0	19.72	19.41	19.51				
5	64QAM	12	7	19.52	19.58	19.43	20.4	3		
5	64QAM	12	13	19.45	19.45	19.42				
5	64QAM	25	0	19.57	19.55	19.45				
5	256QAM	1	0	17.34	17.53	17.45	18.4	5		
5	256QAM	1	12	17.53	17.43	17.41				
5	256QAM	1	24	17.43	17.58	17.38				
5	256QAM	12	0	17.41	17.41	17.45	18.4	5		
5	256QAM	12	7	17.29	17.47	17.36				
5	256QAM	12	13	17.41	17.40	17.42				
5	256QAM	25	0	17.31	17.59	17.35	Tune-up limit (dBm)	MPR (dB)		
26055 26340 26675										
1851.5 1880 1913.5										
3	QPSK	1	0	22.51	22.36	22.33	23.4	0		
3	QPSK	1	8	22.60	22.32	22.37				
3	QPSK	14	0	22.38	22.37	22.39				
3	QPSK	8	0	21.50	21.51	21.52	22.4	1		
3	QPSK	8	4	21.51	21.45	21.38				
3	QPSK	8	7	21.53	21.55	21.38				
3	QPSK	15	0	21.49	21.47	21.33	22.4	1		
3	16QAM	1	0	21.82	21.80	21.63				
3	16QAM	1	8	21.63	21.61	21.97				
3	16QAM	1	14	21.55	21.50	21.53	21.4	2		
3	16QAM	8	0	20.60	20.51	20.42				
3	16QAM	8	4	20.51	20.55	20.36				
3	16QAM	8	7	20.57	20.43	20.52	21.4	2		
3	16QAM	15	0	20.58	20.42	20.46				
3	64QAM	1	0	20.70	20.75	20.57				
3	64QAM	1	8	20.76	20.64	20.68	21.4	2		
3	64QAM	1	14	20.41	20.58	20.45				
3	64QAM	8	0	19.60	19.41	19.39	20.4	3		
3	64QAM	8	4	19.48	19.62	19.39				
3	64QAM	8	7	19.59	19.57	19.45				
3	64QAM	15	0	19.66	19.44	19.52	18.4	5		
3	256QAM	1	0	17.26	17.55	17.41				
3	256QAM	1	8	17.46	17.45	17.45				
3	256QAM	1	14	17.43	17.55	17.35	18.4	5		
3	256QAM	12	0	17.29	17.52	17.37				
3	256QAM	12	7	17.47	17.47	17.44				
3	256QAM	8	7	17.36	17.41	17.37	18.4	5		
3	256QAM	15	0	17.37	17.47	17.44				
3	256QAM	15	0	17.30	17.46	17.45				
Channel										
Frequency (MHz)										
1850.7 1880 1914.3										
1.4	QPSK	1	0	22.60	22.45	22.45	23.4	0		
1.4	QPSK	1	3	22.58	22.41	22.39				
1.4	QPSK	1	5	22.33	22.43	22.17				
1.4	QPSK	3	0	22.48	22.47	22.43	22.4	1		
1.4	QPSK	3	1	22.58	22.28	22.31				
1.4	QPSK	3	3	22.45	22.28	22.49				
1.4	16QAM	1	0	21.59	21.55	21.62	22.4	1		
1.4	16QAM	1	3	21.67	21.30	21.64				
1.4	16QAM	1	3	21.76	21.76	21.86				
1.4	16QAM	3	0	21.65	21.59	21.66	22.4	1		
1.4	16QAM	3	1	21.71	21.78	21.53				
1.4	16QAM	3	1	21.84	21.54	21.53				
1.4	16QAM	6	0	20.55	20.58	20.43	21.4	2		
1.4	64QAM	1	0	20.80	20.70	20.67				
1.4	64QAM	3	0	20.84	20.51	20.51				
1.4	64QAM	1	5	20.39	20.46	20.43	21.4	2		
1.4	64QAM	3	0	20.95	20.52	20.68				
1.4	64QAM	3	0	20.80	20.53	20.63				
1.4	64QAM	3	3	20.99	20.67	20.72	20.4	3		
1.4	64QAM	6	0	19.61	19.43	19.47				
1.4	256QAM	1	0	17.26	17.41	17.41				
1.4	256QAM	1	3	17.45	17.42	17.33	18.4	5		
1.4	256QAM	1	3	17.36	17.64	17.31				
1.4	256QAM	1	3	17.35	17.43	17.39				
1.4	256QAM	3	1	17.40	17.59	17.47	18.4	5		
1.4	256QAM	3	1	17.46	17.39	17.47				
1.4	256QAM	3	1	17.20	17.46	17.46				

Band 25_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)				26140	26340	26590		
20	QPSK	1	0	23.54	23.56	23.48	24.3	0
20	QPSK	1	49	23.49	23.50	23.47		
20	QPSK	1	99	23.29	23.44	23.30		
20	QPSK	50	0	22.34	22.52	22.49		
20	QPSK	50	24	22.29	22.45	22.36	23.3	1
20	QPSK	50	50	22.31	22.49	22.30		
20	QPSK	100	0	22.32	22.48	22.28		
20	16QAM	1	0	22.31	22.50	22.39		
20	16QAM	1	49	22.29	22.48	22.34	23.3	1
20	16QAM	1	99	22.33	22.48	22.41		
20	16QAM	50	0	21.35	21.51	21.42		
20	16QAM	50	24	21.33	21.50	21.42	22.3	2
20	16QAM	50	50	21.41	21.45	21.35		
20	16QAM	100	0	21.38	21.53	21.38		
20	16QAM	1	0	21.52	21.55	21.39		
20	16QAM	1	49	21.38	21.52	21.43	22.3	2
20	16QAM	1	99	21.40	21.47	21.30		
20	16QAM	50	0	20.43	20.50	20.33		
20	16QAM	50	24	20.31	20.38	20.35	21.3	3
20	16QAM	50	50	20.35	20.45	20.32		
20	16QAM	100	0	20.37	20.52	20.44		
20	256QAM	1	0	18.41	18.55	18.50		
20	256QAM	1	49	18.51	18.52	18.34	19.3	5
20	256QAM	1	99	18.46	18.47	18.35		
20	256QAM	50	0	18.48	18.50	18.50		
20	256QAM	50	24	18.34	18.46	18.40	19.3	5
20	256QAM	50	50	18.37	18.51	18.49		
20	256QAM	100	0	18.25	18.40	18.22		
Channel								
Frequency (MHz)				26115	26340	26616	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	1857.5 <td>1880<td>1907.5</td><td>24.3</td><td>0</td></td>	1880 <td>1907.5</td> <td>24.3</td> <td>0</td>	1907.5	24.3	0
15	QPSK	1	37	23.42	23.52	23.38		
15	QPSK	1	74	23.20	23.26	23.16		
15	QPSK	36	0	22.33	22.36	22.39		
15	QPSK	36	36	22.21	22.41	22.30	23.3	1
15	QPSK	36	36	22.35	22.43	22.20		
15	QPSK	75	0	22.24	22.40	22.17		
15	16QAM	1	0	22.26	22.38	22.37		
15	16QAM	1	37	22.25	22.29	22.18	23.3	1
15	16QAM	1	74	22.28	22.44	22.22		
15	16QAM	36	0	21.20	21.33	21.29		
15	16QAM	36	20	21.23	21.43	21.32	22.3	2
15	16QAM	36	36	21.27	21.27	21.17		
15	16QAM	75	0	21.23	21.42	21.27		
15	16QAM	1	0	21.44	21.47	21.31	22.3	2
15	16QAM	1	37	21.27	21.45	21.34		
15	16QAM	1	74	21.34	21.31	21.24		
15	16QAM	36	0	20.28	20.44	20.16		
15	16QAM	36	20	20.19	20.39	20.23	21.3	3
15	16QAM	36	36	20.23	20.25	20.20		
15	16QAM	75	0	20.28	20.34	20.35		
15	256QAM	1	0	18.27	18.38	18.36		
15	256QAM	1	37	18.43	18.43	18.26	19.3	5
15	256QAM	1	74	18.40	18.44	18.29		
15	256QAM	36	0	18.33	18.43	18.35		
15	256QAM	36	20	18.29	18.43	18.35	19.3	5
15	256QAM	36	36	18.32	18.40	18.44		
15	256QAM	75	0	18.15	18.31	18.12		
Channel								
Frequency (MHz)				26090	26340	26640	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	1855 <td>1880<td>1910</td><td>24.3</td><td>0</td></td>	1880 <td>1910</td> <td>24.3</td> <td>0</td>	1910	24.3	0
10	QPSK	1	25	23.47	23.48	23.48		
10	QPSK	1	49	23.13	23.41	23.47		
10	QPSK	25	0	22.28	22.46	22.47		
10	QPSK	25	12	22.16	22.32	22.36	23.3	1
10	QPSK	25	12	22.35	22.45	22.18		
10	QPSK	50	0	22.20	22.27	22.11		
10	16QAM	1	0	22.12	22.38	22.35		
10	16QAM	1	25	22.18	22.38	22.21	23.3	1
10	16QAM	1	49	22.19	22.43	22.29		
10	16QAM	25	0	21.31	21.49	21.38		
10	16QAM	25	12	21.33	21.38	21.42	22.3	2
10	16QAM	25	12	21.33	21.28	21.27		
10	16QAM	50	0	21.36	21.38	21.36		
10	16QAM	50	0	21.35	21.38	21.22	22.3	2
10	16QAM	1	0	21.21	21.38	21.28		
10	16QAM	1	49	21.38	21.32	21.28		
10	16QAM	25	0	20.25	20.32	20.15		
10	16QAM	25	12	20.12	20.41	20.18	21.3	3
10	16QAM	25	12	20.29	20.38	20.26		
10	16QAM	50	0	20.22	20.41	20.29		
10	256QAM	1	0	18.40	18.48	18.49		
10	256QAM	1	25	18.35	18.51	18.16	19.3	5
10	256QAM	1	49	18.43	18.30	18.32		
10	256QAM	25	0	18.44	18.33	18.46		
10	256QAM	25	12	18.31	18.27	18.37	19.3	5
10	256QAM	25	12	18.35	18.50	18.48		
10	256QAM	50	0	18.14	18.21	18.11		
Channel								
Frequency (MHz)				26065	26340	26666	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	1823.5 <td>1830<td>1847.5</td><td>24.3</td><td>0</td></td>	1830 <td>1847.5</td> <td>24.3</td> <td>0</td>	1847.5	24.3	0
5	QPSK	1	12	23.32	23.34	23.30		
5	QPSK	1	24	23.13	23.33	23.12		
5	QPSK	12	0	22.28	22.34	22.40		
5	QPSK	12	7	22.14	22.27	22.35	23.3	1
5	QPSK	12	13	22.37	22.28	22.30		
5	QPSK	25	0	22.29	22.29	22.23		
5	16QAM	1	0	22.26	22.33	22.30		
5	16QAM	1	12	22.27	22.31	22.30	23.3	1
5	16QAM	1	24	22.30	22.30	22.37		
5	16QAM	12	0	21.18	21.40	21.25		
5	16QAM	12	7	21.27	21.44	21.36	22.3	2
5	16QAM	12	13	21.30	21.38	21.24		
5	16QAM	25	0	21.30	21.34	21.30		
5	16QAM	1	0	21.49	21.42	21.36	22.3	2
5	16QAM	1	12	21.24	21.51	21.31		
5	16QAM	1	24	21.30	21.44	21.20		
5	16QAM	12	0	20.33	20.35	20.27		
5	16QAM	12	7	20.13	20.37	20.17	21.3	3
5	16QAM	12	13	20.22	20.42	20.19		
5	16QAM	25	0	20.22	20.44	20.29		
5	256QAM	1	0	18.30	18.50	18.35		
5	256QAM	1	12	18.40	18.48	18.23	19.3	5
5	256QAM	1	24	18.34	18.29	18.23		
5	256QAM	12	0	18.29	18.31	18.31		
5	256QAM	12	7	18.25	18.33	18.31	19.3	5
5	256QAM	12	13	18.26	18.32	18.38		
5	256QAM	25	0	18.21	18.33	18.15		
Channel								
Frequency (MHz)				1851.5	1880	1913.5	Tune-up limit (dBm)	MPR (dB)
3	QPSK	1	0	23.35	23.37	23.29	24.3	0
3	QPSK	1	8	23.46	23.46	23.46		
3	QPSK	1	14	23.13	23.36	23.11		
3	QPSK	8	0	22.25	22.43	22.44	23.3	1
3	QPSK	8	4	22.29	22.43	22.18		
3	QPSK	8	7	22.39	22.39	22.15		
3	QPSK	15	0	22.30	22.36	22.19		
3	16QAM	1	0	22.21	22.50	22.34		
3	16QAM	1	8	22.14	22.48	22.19	23.3	1
3	16QAM	1	14	22.25	22.31	22.25		
3	16QAM	8	0	21.19	21.43	21.26		
3	16QAM	8	4	21.16	21.49	21.25	22.3	2
3	16QAM	8	7	21.41	21.29	21.35		
3	16QAM	15	0	21.33	21.41	21.33		
3	16QAM	1	0	21.37	21.52	21.24	22.3	2
3	16QAM	1	8	21.25	21.38	21.32		
3	16QAM	1	14	21.38	21.43	21.28		
3	16QAM	8	0	20.30	20.35	20.20	21.3	3
3	16QAM	8	4	20.26	20.42	20.30		
3	16QAM	8	7	20.20	20.26	20.17		
3	16QAM	15	0	20.27	20.34	20.34		
3	256QAM	1	0	18.30	18.47	18.39		
3	256QAM	1	8	18.34	18.34	18.17	19.3	5
3	256QAM	1	14	18.31	18.36	18.20		
3	256QAM	8	0	18.45	18.45	18.47		
3	256QAM	8	4	18.23	18.28	18.29	19.3	5
3	256QAM	8	7	18.36	18.32	18.48		
3	256QAM	15	0	18.25	18.33	18.22		
Channel								
Frequency (MHz)				1850.7	1880	1914.3	Tune-up limit (dBm)	MPR (dB)
1.4	QPSK	1	0	23.37	23.38	23.46	24.3	0
1.4	QPSK	1	3	23.31	23.48	23.43		
1.4	QPSK	1	5	23.24	23.30	23.24		
1.4	QPSK	3	0	23.12	23.30	23.33		
1.4	QPSK	3	3	23.17	23.18	23.17	23.3	1
1.4	QPSK	3	3	23.35	23.25	23.15		
1.4	QPSK	6	0	22.14	22.33	22.10	23.3	1
1.4	16QAM	1	0	22.31	22.42	22.35		
1.4	16QAM	1	3	22.28	22.43	22.17		
1.4	16QAM	1	5	22.30	22.36	22.22	23.3	1
1.4	16QAM	3	0	22.25	22.43			

Band 26_Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				26765	26865	26965		
				831.5	831.5	841.5		
15	QPSK	1	0	23.81	23.95	23.83		
15	QPSK	1	37	23.52	23.64	23.60	24.3	0
15	QPSK	1	74	23.68	23.68	23.45		
15	QPSK	36	0	22.74	22.76	22.69		
15	QPSK	36	20	22.73	22.68	22.68	23.3	1
15	QPSK	36	39	22.71	22.73	22.62		
15	QPSK	75	0	22.77	22.80	22.68		
15	16QAM	1	0	22.84	22.91	22.86		
15	16QAM	1	37	22.97	22.85	22.81	23.3	1
15	16QAM	1	74	22.96	22.80	22.64		
15	16QAM	36	0	21.71	21.72	21.68		
15	16QAM	36	20	21.79	21.71	21.68	22.3	2
15	16QAM	36	39	21.79	21.75	21.68		
15	16QAM	75	0	21.79	21.87	21.68		
15	16QAM	1	1	21.80	21.85	21.80		
15	16QAM	1	37	21.85	21.78	21.77	22.3	2
15	16QAM	1	74	21.84	21.74	21.80		
15	16QAM	36	0	20.74	20.73	20.65		
15	16QAM	36	20	20.76	20.67	20.70	21.3	3
15	16QAM	36	39	20.73	20.73	20.86		
15	16QAM	75	0	20.77	20.69	20.69		
15	256QAM	1	0	18.62	18.77	18.71		
15	256QAM	1	37	18.54	18.70	18.65	19.3	5
15	256QAM	1	74	18.70	18.80	18.68		
15	256QAM	36	0	18.70	18.75	18.66		
15	256QAM	36	20	18.59	18.69	18.62	19.3	5
15	256QAM	36	39	18.72	18.74	18.59		
15	256QAM	75	0	18.63	18.79	18.74		
Channel								
Frequency (MHz)								
				26765	26865	26965		
				819	831.5	844		
10	QPSK	1	0	23.68	23.64	23.70	24.3	0
10	QPSK	1	26	23.42	23.63	23.71		
10	QPSK	1	49	23.44	23.66	23.62		
10	QPSK	25	0	22.76	22.82	22.77		
10	QPSK	25	12	22.87	22.85	22.82	23.3	1
10	QPSK	25	25	22.83	22.88	22.81		
10	QPSK	50	0	22.86	22.82	22.80		
10	16QAM	1	0	23.26	23.29	23.09		
10	16QAM	1	25	23.13	23.14	23.20	23.3	1
10	16QAM	1	49	23.29	23.20	23.01		
10	16QAM	25	0	21.83	21.84	21.76		
10	16QAM	25	12	21.93	21.88	21.87	22.3	
10	16QAM	25	25	21.89	21.90	21.83	2	
10	16QAM	50	0	21.86	21.82	21.81		
10	16QAM	1	0	21.99	22.04	22.05		
10	16QAM	1	25	22.07	22.02	21.79	22.3	2
10	16QAM	1	49	21.92	21.83	21.79		
10	16QAM	25	0	20.81	20.86	20.76		
10	16QAM	25	12	20.87	20.87	20.85	21.3	3
10	16QAM	25	25	20.96	20.91	20.80		
10	16QAM	50	0	20.87	20.82	20.84		
10	256QAM	1	0	18.45	18.68	18.70		
10	256QAM	1	25	18.51	18.64	18.63	19.3	5
10	256QAM	1	49	18.60	18.79	18.49		
10	256QAM	25	0	18.51	18.63	18.63		
10	256QAM	25	12	18.53	18.53	18.61	19.3	5
10	256QAM	25	25	18.59	18.58	18.45		
10	256QAM	50	0	18.48	18.79	18.60		
Channel								
Frequency (MHz)								
				26765	26865	26965		
				816.5	831.5	846.5		
5	QPSK	1	0	23.71	23.72	23.68	24.3	0
5	QPSK	1	12	23.73	23.74	23.71		
5	QPSK	1	24	23.74	23.68	23.65		
5	QPSK	12	0	22.76	22.81	22.72		
5	QPSK	12	7	22.87	22.83	22.75	23.3	1
5	QPSK	12	13	22.85	22.88	22.75		
5	QPSK	25	0	22.85	22.80	22.73		
5	16QAM	1	0	23.16	23.11	23.01		
5	16QAM	1	12	23.23	23.13	23.21	23.3	1
5	16QAM	1	24	23.07	23.14	23.06		
5	16QAM	12	0	21.86	21.84	21.73		
5	16QAM	12	7	21.92	21.88	21.79	22.3	2
5	16QAM	12	13	21.87	21.92	21.86		
5	16QAM	25	0	21.89	21.83	21.75		
5	16QAM	1	0	22.07	22.05	21.89	22.3	2
5	16QAM	1	12	22.09	22.09	22.08		
5	16QAM	1	24	21.94	22.02	21.82		
5	16QAM	12	0	20.82	20.84	20.69		
5	16QAM	12	7	20.93	20.89	20.75	21.3	3
5	16QAM	12	13	20.90	20.89	20.75		
5	16QAM	25	0	20.84	20.83	20.70		
5	256QAM	1	0	18.46	18.75	18.58		
5	256QAM	1	12	18.45	18.52	18.54	19.3	5
5	256QAM	1	24	18.61	18.67	18.60		
5	256QAM	12	0	18.63	18.68	18.54		
5	256QAM	12	7	18.42	18.63	18.61	19.3	5
5	256QAM	12	13	18.68	18.57	18.44		
5	256QAM	25	0	18.45	18.70	18.74		
Channel								
Frequency (MHz)								
				26765	26865	27026		
				814.7	831.5	848.3		
3	QPSK	1	0	23.67	23.66	23.60	24.3	0
3	QPSK	1	8	23.71	23.72	23.73		
3	QPSK	1	14	23.69	23.73	23.60		
3	QPSK	8	0	22.87	22.79	22.72		
3	QPSK	8	4	22.89	22.81	22.70	23.3	1
3	QPSK	8	7	22.82	22.88	22.78		
3	QPSK	15	0	22.80	22.79	22.68		
3	16QAM	1	0	23.24	23.12	22.99		
3	16QAM	1	8	23.28	23.12	23.01	23.3	1
3	16QAM	1	14	23.09	23.00	22.98		
3	16QAM	8	0	21.92	21.85	21.80		
3	16QAM	8	4	21.96	21.90	21.83	22.3	2
3	16QAM	8	7	21.88	21.89	21.82		
3	16QAM	15	0	21.81	21.79	21.66		
3	16QAM	1	0	21.88	22.02	21.87	22.3	2
3	16QAM	1	8	22.09	22.18	22.03		
3	16QAM	1	14	21.94	21.96	21.71		
3	16QAM	8	0	20.99	20.81	20.71		
3	16QAM	8	4	20.93	20.85	20.78	21.3	3
3	16QAM	8	7	20.91	20.96	20.82		
3	16QAM	15	0	20.89	20.82	20.69		
3	256QAM	1	0	18.52	18.76	18.61		
3	256QAM	1	8	18.47	18.59	18.57	19.3	5
3	256QAM	1	14	18.70	18.74	18.59		
3	256QAM	8	0	18.69	18.75	18.62		
3	256QAM	8	4	18.46	18.58	18.51	19.3	5
3	256QAM	8	7	18.70	18.64	18.54		
3	256QAM	15	0	18.55	18.69	18.62		
Channel								
Frequency (MHz)								
				26867	26865	27033		
				814.7	831.5	848.3		
1.4	QPSK	1	0	23.55	23.69	23.64	24.3	0
1.4	QPSK	1	3	23.73	23.72	23.72		
1.4	QPSK	1	5	23.86	23.72	23.64		
1.4	QPSK	3	0	23.71	23.73	23.70		
1.4	QPSK	3	1	23.70	23.73	23.69		
1.4	QPSK	3	3	23.73	23.70	23.72	23.3	1
1.4	QPSK	6	0	22.82	22.77	22.71		
1.4	16QAM	1	0	23.09	23.09	22.98		
1.4	16QAM	1	3	23.16	23.13	23.01	23.3	1
1.4	16QAM	1	5	23.16	23.16	22.92		
1.4	16QAM	3	0	22.96	22.82	22.82		
1.4	16QAM	3	1	22.93	22.80	22.87		
1.4	16QAM	3	3	22.99	22.81	22.86	22.3	2
1.4	16QAM	6	0	21.87	21.84	21.86		
1.4	16QAM	1	1	22.14	21.83	21.88	22.3	2
1.4	16QAM	1	3	22.06	22.00	21.98		
1.4	16QAM	1	5	22.10	21.92	21.96		
1.4	16QAM	3	1	21.99	21.89	21.83	22.3	2
1.4	16QAM	3	3	21.94	21.90	21.85		
1.4	16QAM	6	0	20.90	20.85	20.83	21.3	3
1.4	256QAM	1	0	18.55	18.74	18.54		
1.4	256QAM	1	3	18.48	18.67	18.61		
1.4	256QAM	1	5	18.59	18.70	18.53	19.3	5
1.4	256QAM	3	0	18.63	18.74	18.64		
1.4	256QAM	3	1	18.59	18.54	18.46		
1.4	256QAM	3	3	18.57	18.69	18.49	19.3	5
1.4	256QAM	6	0	18.60	18.73	18.69		

Band 26_Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Lower Ch. / Freq.	Power Middle Ch. / Freq.	Power Upper Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				26765	26865	26965		
				821.5	831.5	841.5		
15	QPSK	1	0	24.00	24.03	23.83		
15	QPSK	1	37	23.88	23.85	23.71	24.8	0
15	QPSK	1	74	23.62	23.73	23.53		
15	QPSK	36	0	22.80	22.94	22.85		
15	QPSK	36	39	22.83	22.87	22.79	23.8	1
15	QPSK	36	39	22.89	22.89	22.80		
15	QPSK	75	0	22.81	22.91	22.82		
15	16QAM	1	1	23.05	23.11	23.10	23.8	1
15	16QAM	1	37	23.09	23.11	23.00		
15	16QAM	1	74	22.95	23.12	22.89		
15	16QAM	36	0	21.88	21.92	21.79		
15	16QAM	36	39	21.84	21.96	21.83	22.8	2
15	16QAM	36	39	21.87	21.95	21.83		
15	16QAM	75	0	21.83	21.84	21.84		
15	64QAM	1	0	21.84	21.83	22.04		
15	64QAM	1	37	22.06	21.84	21.91	22.8	2
15	64QAM	1	74	21.82	22.00	21.73		
15	64QAM	36	0	20.82	20.89	20.81		
15	64QAM	36	39	20.88	20.93	20.80	21.8	3
15	64QAM	36	39	20.88	20.93	20.81		
15	64QAM	75	0	20.83	20.83	20.83		
15	256QAM	1	0	18.87	18.84	18.80		
15	256QAM	1	37	18.81	18.89	18.89	19.8	5
15	256QAM	1	74	18.78	18.80	18.79		
15	256QAM	36	36	18.87	18.82	18.88		
15	256QAM	36	39	18.73	18.88	18.77	19.8	5
15	256QAM	36	39	18.68	18.88	18.78		
15	256QAM	75	0	18.89	18.89	18.77		
Channel								
				26740	26865	26960	Tune-up limit (dBm)	MPR (dB)
				815	831.5	845		
10	QPSK	1	0	23.92	23.93	23.78		
10	QPSK	1	25	23.86	23.84	23.75	24.8	0
10	QPSK	1	49	23.84	23.78	23.66		
10	QPSK	0	75	22.86	22.87	22.82		
10	QPSK	25	12	22.87	22.91	22.88	23.8	1
10	QPSK	25	25	22.81	22.94	22.83		
10	QPSK	50	0	22.84	22.86	22.84		
10	16QAM	1	0	23.25	23.23	23.16		
10	16QAM	1	25	23.23	23.16	23.16	23.8	1
10	16QAM	25	49	23.22	23.29	23.17		
10	16QAM	25	0	21.90	21.91	21.82		
10	16QAM	25	12	21.88	21.92	21.87		
10	16QAM	25	25	21.98	21.94	21.84	22.8	2
10	16QAM	50	0	21.96	21.87	21.88		
10	64QAM	1	0	22.01	22.08	22.04		
10	64QAM	1	25	22.12	22.15	22.09	22.8	2
10	64QAM	1	49	22.08	22.00	21.93		
10	64QAM	25	0	20.89	20.90	20.80		
10	64QAM	25	12	20.95	20.91	20.89		
10	64QAM	25	25	20.90	20.85	20.79	21.8	3
10	64QAM	50	0	20.83	20.88	20.88		
10	256QAM	1	0	18.81	18.92	18.85		
10	256QAM	1	25	18.75	18.87	18.83	19.8	5
10	256QAM	1	49	18.84	18.77	18.74		
10	256QAM	25	0	18.75	18.81	18.85		
10	256QAM	25	12	18.73	18.71	18.68	19.8	5
10	256QAM	25	25	18.69	18.83	18.68		
10	256QAM	50	0	18.77	18.94	18.60		
Channel								
				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
				816.5	831.5	846.5		
5	QPSK	1	0	23.81	23.84	23.84		
5	QPSK	1	12	23.72	23.74	23.67	24.8	0
5	QPSK	1	24	23.63	23.67	23.66		
5	QPSK	12	0	22.86	22.86	22.71		
5	QPSK	12	7	22.87	22.89	22.74	23.8	1
5	QPSK	12	13	22.82	22.82	22.78		
5	QPSK	25	0	22.81	22.85	22.73		
5	16QAM	1	0	23.24	23.22	23.08	23.8	1
5	16QAM	1	12	23.25	23.27	23.25		
5	16QAM	1	24	23.25	23.16	23.07		
5	16QAM	12	0	21.80	21.89	21.77		
5	16QAM	12	7	21.88	21.96	21.84	22.8	2
5	16QAM	12	13	21.84	21.98	21.84		
5	16QAM	25	0	21.81	21.90	21.74		
5	16QAM	25	1	22.08	22.12	21.99		
5	64QAM	1	0	22.07	22.13	22.00	22.8	2
5	64QAM	1	24	22.08	22.04	21.92		
5	64QAM	12	0	20.81	20.86	20.86		
5	64QAM	12	7	20.88	20.81	20.79	21.8	3
5	64QAM	12	13	20.88	20.98	20.79		
5	64QAM	25	0	20.84	20.85	20.76		
5	256QAM	1	0	18.68	18.89	18.81		
5	256QAM	1	12	18.72	18.86	18.87	19.8	5
5	256QAM	1	24	18.67	18.82	18.69		
5	256QAM	12	0	18.80	18.77	18.89		
5	256QAM	12	7	18.70	18.73	18.66	19.8	5
5	256QAM	12	13	18.63	18.81	18.69		
5	256QAM	25	0	18.71	18.90	18.69		
Channel								
				26855	26865	27005	Tune-up limit (dBm)	MPR (dB)
				816.5	831.5	847.5		
3	QPSK	1	0	23.80	23.74	23.59		
3	QPSK	1	8	23.83	23.81	23.75	24.8	0
3	QPSK	1	14	23.82	23.75	23.61		
3	QPSK	8	0	22.84	22.85	22.73		
3	QPSK	8	4	22.86	22.89	22.78	23.8	1
3	QPSK	8	7	22.92	22.92	22.78		
3	QPSK	15	0	22.89	22.85	22.71		
3	16QAM	1	1	23.13	23.13	23.02	23.8	1
3	16QAM	1	8	23.11	23.17	23.17		
3	16QAM	1	14	23.04	23.14	23.02		
3	16QAM	8	0	22.02	21.90	21.85		
3	16QAM	8	4	22.04	22.00	21.79	22.8	2
3	16QAM	8	7	21.89	22.05	21.87		
3	16QAM	15	0	21.95	21.99	21.73		
3	64QAM	1	0	22.06	22.06	21.87		
3	64QAM	1	8	22.18	22.15	21.94	22.8	2
3	64QAM	1	14	22.15	21.98	21.73		
3	64QAM	8	0	20.88	20.89	20.76		
3	64QAM	8	4	20.89	20.96	20.86	21.8	3
3	64QAM	8	7	20.95	20.99	20.83		
3	64QAM	15	0	20.96	20.89	20.73		
3	256QAM	1	0	18.79	18.91	18.81		
3	256QAM	1	8	18.63	18.96	18.79	19.8	5
3	256QAM	1	14	18.67	18.82	18.73		
3	256QAM	8	0	18.69	18.75	18.78		
3	256QAM	8	4	18.64	18.81	18.65	19.8	5
3	256QAM	8	7	18.66	18.82	18.71		
3	256QAM	15	0	18.70	18.95	18.59		
Channel								
				26827	26865	27033	Tune-up limit (dBm)	MPR (dB)
				816.7	831.5	846.3		
1.4	QPSK	1	0	23.84	23.76	23.67		
1.4	QPSK	1	3	23.81	23.85	23.87	24.8	0
1.4	QPSK	1	5	23.84	23.82	23.71		
1.4	QPSK	3	0	23.85	23.86	23.74		
1.4	QPSK	3	1	23.80	23.80	23.77		
1.4	QPSK	3	3	23.85	23.86	23.72	23.8	1
1.4	QPSK	6	0	22.81	22.82	22.76		
1.4	16QAM	1	0	23.13	23.10	23.04		
1.4	16QAM	1	3	23.15	23.13	23.13	23.8	1
1.4	16QAM	1	5	23.19	23.15	23.07		
1.4	16QAM	3	0	23.11	22.98	22.87		
1.4	16QAM	3	1	23.08	22.98	22.83		
1.4	16QAM	3	3	23.07	23.02	22.91	22.8	2
1.4	16QAM	6	0	21.89	21.89	21.84		
1.4	64QAM	1	0	22.05	21.90	21.89		
1.4	64QAM	1	3	22.10	22.15	21.90	22.8	2
1.4	64QAM	1	5	22.02	22.03	21.87		
1.4	64QAM	3	0	22.08	21.97	21.78		
1.4	64QAM	3	1	22.04	21.97	21.85	21.8	3
1.4	64QAM	3	3	22.03	22.02	21.88		
1.4	64QAM	6	0	20.83	20.90	20.83		
1.4	64QAM	6	1	18.87	18.87	18.77	21.8	3
1.4	256QAM	1	0	18.77	18.87	18.74		
1.4	256QAM	1	3	18.74	18.72	18.78	19.8	5
1.4	256QAM	3	0	18.86	18.87	18.70		
1.4	256QAM	3	1	18.63	18.85	18.70		
1.4	256QAM	3	3	18.58	18.68	18.59	19.8	5
1.4	256QAM	6	0	18.84	18.88	18.74		

Band 30_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				27710			22.9	0	
Frequency (MHz)				2310					
10	QPSK	1	0		22.4		21.9	1	
10	QPSK	1	25		22.36				
10	QPSK	1	49		22.3				
10	QPSK	25	0		21.46		20.9	2	
10	QPSK	25	12		21.35				
10	QPSK	25	25		21.42				
10	QPSK	50	0		21.31		21.9	1	
10	16QAM	1	0		21.69				
10	16QAM	1	25		21.73				
10	16QAM	1	49		21.76		20.9	2	
10	16QAM	25	0		20.34				
10	16QAM	25	12		20.36				
10	16QAM	25	25		20.42		20.9	2	
10	16QAM	50	0		20.32				
10	64QAM	1	0		20.57				
10	64QAM	1	25		20.52		20.9	2	
10	64QAM	1	49		20.55				
10	64QAM	25	0		19.35				
10	64QAM	25	12		19.31		19.9	3	
10	64QAM	25	25		19.36				
10	64QAM	50	0		19.3				
10	256QAM	1	0		17.20		17.9	5	
10	256QAM	1	25		17.30				
10	256QAM	1	49		17.17				
10	256QAM	25	0		17.24		17.9	5	
10	256QAM	25	12		17.21				
10	256QAM	25	25		17.25				
10	256QAM	50	0		17.27				
Channel				27665	27710	27735	22.9	0	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	0	22.30	22.23	22.28	22.9	0	
5	QPSK	1	12	22.36	22.31	22.19			
5	QPSK	1	24	22.22	22.28	22.19			
5	QPSK	12	0	21.11	21.29	21.28	21.9	1	
5	QPSK	12	7	21.27	21.28	21.32			
5	QPSK	12	13	21.23	21.39	21.32			
5	QPSK	25	0	21.16	21.28	21.27	21.9	1	
5	16QAM	1	0	21.5	21.6	21.67			
5	16QAM	1	12	21.65	21.68	21.68			
5	16QAM	1	24	21.67	21.69	21.76	21.9	1	
5	16QAM	12	0	20.17	20.32	20.19			
5	16QAM	12	7	20.28	20.26	20.26			
5	16QAM	12	13	20.23	20.3	20.4	20.9	2	
5	16QAM	25	0	20.29	20.31	20.17			
5	64QAM	1	0	20.5	20.47	20.39			
5	64QAM	1	12	20.44	20.5	20.33	20.9	2	
5	64QAM	1	24	20.46	20.46	20.39			
5	64QAM	12	0	19.35	19.34	19.26			
5	64QAM	12	7	19.12	19.28	19.23	19.9	3	
5	64QAM	12	13	19.31	19.35	19.24			
5	64QAM	25	0	19.15	19.2	19.12			
5	256QAM	1	0	17.04	17.17	17.03	17.9	5	
5	256QAM	1	12	17.17	17.22	17.20			
5	256QAM	1	24	17.06	17.16	17.11			
5	256QAM	12	0	17.19	17.17	17.07	17.9	5	
5	256QAM	12	7	17.02	17.19	17.13			
5	256QAM	12	13	17.10	17.17	17.07			
5	256QAM	25	0	17.15	17.22	17.13			

Band 30_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				27710			24.3	0	
Frequency (MHz)				2310					
10	QPSK	1	0		23.68		23.3	1	
10	QPSK	1	25		23.60				
10	QPSK	1	49		23.65				
10	QPSK	25	0		22.76		23.3	1	
10	QPSK	25	12		22.70				
10	QPSK	25	25		22.73				
10	QPSK	50	0		22.69		23.3	1	
10	16QAM	1	0		23.10				
10	16QAM	1	25		23.95				
10	16QAM	1	49		23.16		22.3	2	
10	16QAM	25	0		21.69				
10	16QAM	25	12		21.71				
10	16QAM	25	25		21.75		22.3	2	
10	16QAM	50	0		21.69				
10	64QAM	1	0		21.94				
10	64QAM	1	25		21.93		22.3	2	
10	64QAM	1	49		21.72				
10	64QAM	25	0		20.99				
10	64QAM	25	12		20.99		21.3	3	
10	64QAM	25	25		20.73				
10	64QAM	50	0		20.64				
10	256QAM	1	0		18.60		19.3	5	
10	256QAM	1	25		18.55				
10	256QAM	1	49		18.52				
10	256QAM	25	0		18.50		19.3	5	
10	256QAM	25	12		18.57				
10	256QAM	25	25		18.59				
10	256QAM	50	0		18.51				
Channel				27665	27710	27735	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	0	23.58	23.58	23.63	24.3	0	
5	QPSK	1	12	23.47	23.56	23.54			
5	QPSK	1	24	23.64	23.55	23.58			
5	QPSK	12	0	22.53	22.48	22.50	23.3	1	
5	QPSK	12	7	22.63	22.54	22.51			
5	QPSK	12	13	22.70	22.69	22.62			
5	QPSK	25	0	22.49	22.58	22.53	23.3	1	
5	16QAM	1	0	23.00	23.06	23.02			
5	16QAM	1	12	22.88	23.04	23.03			
5	16QAM	1	24	23.05	23.12	22.99	22.3	2	
5	16QAM	12	0	21.62	21.56	21.62			
5	16QAM	12	7	21.70	21.60	21.70			
5	16QAM	12	13	21.56	21.71	21.56	22.3	2	
5	16QAM	25	0	21.50	21.57	21.50			
5	64QAM	1	0	21.85	21.80	21.85			
5	64QAM	1	12	21.83	21.86	21.83	22.3	2	
5	64QAM	1	24	21.64	21.71	21.64			
5	64QAM	12	0	20.51	20.67	20.51			
5	64QAM	12	7	20.61	20.65	20.61	21.3	3	
5	64QAM	12	13	20.70	20.64	20.70			
5	64QAM	25	0	20.61	20.57	20.61			
5	256QAM	1	0	18.47	18.49	18.47	19.3	5	
5	256QAM	1	12	18.54	18.52	18.54			
5	256QAM	1	24	18.37	18.47	18.37			
5	256QAM	12	0	18.45	18.31	18.45	19.3	5	
5	256QAM	12	7	18.53	18.53	18.53			
5	256QAM	12	13	18.42	18.52	18.42			
5	256QAM	25	0	18.33	18.35	18.33			

Band 30_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				27710			23.8	0	
Frequency (MHz)				2310					
10	QPSK	1	0		22.90		22.8	1	
10	QPSK	1	25		22.88				
10	QPSK	1	49		22.84				
10	QPSK	25	0		21.90		21.8	2	
10	QPSK	25	12		21.85				
10	QPSK	25	25		21.80				
10	QPSK	50	0		21.88		21.8	2	
10	16QAM	1	0		21.80				
10	16QAM	1	25		21.75				
10	16QAM	1	49		21.77		21.8	2	
10	16QAM	25	0		20.84				
10	16QAM	25	12		20.80				
10	16QAM	25	25		20.85		21.8	2	
10	16QAM	50	0		20.88				
10	64QAM	1	0		20.90				
10	64QAM	1	25		20.85		21.8	2	
10	64QAM	1	49		20.87				
10	64QAM	25	0		19.90				
10	64QAM	25	12		19.85		20.8	3	
10	64QAM	25	25		19.80				
10	64QAM	50	0		19.88				
10	256QAM	1	0		17.90		18.8	5	
10	256QAM	1	25		17.88				
10	256QAM	1	49		17.80				
10	256QAM	25	0		17.85		18.8	5	
10	256QAM	25	12		17.80				
10	256QAM	25	25		17.85				
10	256QAM	50	0		17.81		23.8	0	
Channel				27665	27710	27735			
Frequency (MHz)				2307.5	2310	2312.5	Tune-up limit (dBm)		
5	QPSK	1	0	22.88	22.74	22.85	23.8	0	
5	QPSK	1	12	22.75	22.83	22.74			
5	QPSK	1	24	22.76	22.77	22.65			
5	QPSK	12	0	21.81	21.85	21.84	22.8	1	
5	QPSK	12	7	21.67	21.85	21.83			
5	QPSK	12	13	21.70	21.84	21.81			
5	QPSK	25	0	21.82	21.73	21.69	21.8	2	
5	16QAM	1	0	21.66	21.71	21.77			
5	16QAM	1	12	21.59	21.74	21.66			
5	16QAM	1	24	21.69	21.62	21.63	21.8	2	
5	16QAM	12	0	20.79	20.79	20.67			
5	16QAM	12	7	20.84	20.71	20.71			
5	16QAM	12	13	20.81	20.78	20.70	21.8	2	
5	16QAM	25	0	20.72	20.67	20.73			
5	64QAM	1	0	20.84	20.79	20.86			
5	64QAM	1	12	20.66	20.83	20.74	21.8	2	
5	64QAM	1	24	20.76	20.66	20.67			
5	64QAM	12	0	19.76	19.90	19.85			
5	64QAM	12	7	19.73	19.76	19.75	20.8	3	
5	64QAM	12	13	19.76	19.67	19.72			
5	64QAM	25	0	19.72	19.73	19.84			
5	256QAM	1	0	17.88	17.86	17.83	18.8	5	
5	256QAM	1	12	17.85	17.84	17.84			
5	256QAM	1	24	17.68	17.64	17.71			
5	256QAM	12	0	17.75	17.84	17.85	18.8	5	
5	256QAM	12	7	17.89	17.75	17.73			
5	256QAM	12	13	17.76	17.85	17.68			
5	256QAM	25	0	17.74	17.74	17.64	18.8	5	
5	256QAM	25	0	17.74	17.74	17.64			

Band 30_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				27710			23.1	0	
Frequency (MHz)				2310					
10	QPSK	1	0		22.02		22.1	1	
10	QPSK	1	25		22.00				
10	QPSK	1	49		21.95				
10	QPSK	25	0		21.45		22.1	1	
10	QPSK	25	12		21.35				
10	QPSK	25	25		21.42				
10	QPSK	50	0		21.44		22.1	1	
10	16QAM	1	0		21.45				
10	16QAM	1	25		21.40				
10	16QAM	1	49		21.39		21.1	2	
10	16QAM	25	0		20.41				
10	16QAM	25	12		20.35				
10	16QAM	25	25		20.33		21.1	2	
10	16QAM	50	0		20.39				
10	64QAM	1	0		20.70				
10	64QAM	1	25		20.68		21.1	2	
10	64QAM	1	49		20.62				
10	64QAM	25	0		19.33				
10	64QAM	25	12		19.30		20.1	3	
10	64QAM	25	25		19.35				
10	64QAM	50	0		19.39				
10	256QAM	1	0		17.30		18.1	5	
10	256QAM	1	25		17.25				
10	256QAM	1	49		17.29				
10	256QAM	25	0		17.28		18.1	5	
10	256QAM	25	12		17.30				
10	256QAM	25	25		17.33				
10	256QAM	50	0		17.25		23.1	0	
Channel				27665	27710	27735			
Frequency (MHz)				2307.5	2310	2312.5	Tune-up limit (dbm)		
5	QPSK	1	0	21.98	22.00	21.97	23.1	0	
5	QPSK	1	12	21.85	21.89	21.86			
5	QPSK	1	24	21.93	21.90	21.90			
5	QPSK	12	0	21.33	21.25	21.22	22.1	1	
5	QPSK	12	7	21.28	21.19	21.32			
5	QPSK	12	13	21.40	21.28	21.37			
5	QPSK	25	0	21.39	21.40	21.36	22.1	1	
5	16QAM	1	0	21.29	21.29	21.43			
5	16QAM	1	12	21.35	21.37	21.27			
5	16QAM	1	24	21.29	21.39	21.34	21.1	2	
5	16QAM	12	0	20.26	20.29	20.26			
5	16QAM	12	7	20.17	20.35	20.24			
5	16QAM	12	13	20.21	20.14	20.16	21.1	2	
5	16QAM	25	0	20.39	20.20	20.29			
5	64QAM	1	0	20.62	20.60	20.53			
5	64QAM	1	12	20.65	20.49	20.51	21.1	2	
5	64QAM	1	24	20.61	20.55	20.57			
5	64QAM	12	0	19.27	19.15	19.31			
5	64QAM	12	7	19.27	19.17	19.28	20.1	3	
5	64QAM	12	13	19.21	19.34	19.26			
5	64QAM	25	0	19.30	19.33	19.25			
5	256QAM	1	0	17.21	17.30	17.13	18.1	5	
5	256QAM	1	12	17.07	17.07	17.14			
5	256QAM	1	24	17.23	17.11	17.23			
5	256QAM	12	0	17.10	17.12	17.12	18.1	5	
5	256QAM	12	7	17.20	17.22	17.13			
5	256QAM	12	13	17.32	17.21	17.31			
5	256QAM	25	0	17.25	17.25	17.06			

Band 66_Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power Middle Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	17.20	17.45	17.70	23.4	0		
20	QPSK	1	49	22.44	22.68	22.58				
20	QPSK	1	99	22.42	22.61	22.42				
20	QPSK	50	0	21.68	21.71	21.7	22.4	1		
20	QPSK	50	24	21.62	21.56	21.66				
20	QPSK	50	50	21.53	21.65	21.58				
20	QPSK	100	0	21.58	21.64	21.62	22.4	1		
20	16QAM	1	0	21.82	21.9	21.78				
20	16QAM	1	49	21.88	22.11	21.77				
20	16QAM	1	99	21.91	21.95	21.63	21.4	2		
20	16QAM	50	0	20.51	20.69	20.72				
20	16QAM	50	24	20.6	20.7	20.68				
20	16QAM	50	50	20.59	20.64	20.61	21.4	2		
20	16QAM	100	0	20.8	20.64	20.86				
20	64QAM	1	0	20.76	20.88	20.82				
20	64QAM	1	49	20.75	20.77	20.81	21.4	2		
20	64QAM	50	0	19.55	19.66	19.71				
20	64QAM	50	24	19.64	19.68	19.64				
20	64QAM	50	50	19.58	19.66	19.61	20.4	3		
20	64QAM	100	0	19.61	19.58	19.66				
20	256QAM	1	0	17.62	17.69	17.63				
20	256QAM	1	49	17.48	17.65	17.58	18.4	5		
20	256QAM	1	99	17.53	17.60	17.44				
20	256QAM	50	0	17.53	17.66	17.57				
20	256QAM	50	24	17.71	17.75	17.73	18.4	5		
20	256QAM	50	50	17.61	17.70	17.64				
20	256QAM	100	0	17.60	17.62	17.61				
Channel										
Frequency (MHz)										
15	QPSK	1	0	13.027	13.022	13.097	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	22	17.17	17.45	17.725	23.4	0		
15	QPSK	1	37	22.41	22.56	22.48				
15	QPSK	1	74	22.38	22.46	22.39				
15	QPSK	36	0	21.49	21.66	21.66	22.4	1		
15	QPSK	36	20	21.55	21.55	21.65				
15	QPSK	36	39	21.48	21.63	21.56				
15	QPSK	75	0	21.51	21.54	21.50	22.4	1		
15	16QAM	1	0	21.70	21.82	21.70				
15	16QAM	1	37	21.82	22.10	21.73				
15	16QAM	1	74	21.81	21.92	21.83	21.4	2		
15	16QAM	36	0	20.45	20.64	20.61				
15	16QAM	36	20	20.59	20.67	20.66				
15	16QAM	36	39	20.54	20.57	20.59	21.4	2		
15	16QAM	75	0	20.48	20.57	20.51				
15	64QAM	1	0	20.73	20.78	20.72				
15	64QAM	1	37	20.88	20.86	20.85	21.4	2		
15	64QAM	1	74	20.64	20.66	20.50				
15	64QAM	36	0	19.48	19.57	19.66				
15	64QAM	36	20	19.53	19.64	19.56	20.4	3		
15	64QAM	36	39	19.56	19.64	19.50				
15	64QAM	75	0	19.58	19.46	19.64				
15	256QAM	1	0	17.60	17.66	17.55	18.4	5		
15	256QAM	1	37	17.43	17.59	17.57				
15	256QAM	1	74	17.50	17.52	17.40				
15	256QAM	36	0	17.47	17.64	17.48	18.4	5		
15	256QAM	36	20	17.67	17.67	17.69				
15	256QAM	36	39	17.50	17.62	17.48				
15	256QAM	75	0	17.58	17.54	17.57	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	13.015	13.022	13.097	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	25	22.37	22.54	22.44	23.4	0		
10	QPSK	1	49	22.36	22.45	22.40				
10	QPSK	1	74	22.38	22.46	22.40				
10	QPSK	25	0	21.48	21.67	21.70	22.4	1		
10	QPSK	25	12	21.54	21.64	21.64				
10	QPSK	25	25	21.47	21.63	21.52				
10	QPSK	50	0	21.56	21.58	21.58	22.4	1		
10	16QAM	1	0	21.73	21.78	21.77				
10	16QAM	1	25	21.82	22.01	21.65				
10	16QAM	1	49	21.80	21.88	21.58	21.4	2		
10	16QAM	25	0	20.39	20.67	20.61				
10	16QAM	25	12	20.59	20.68	20.59				
10	16QAM	25	25	20.58	20.53	20.60	21.4	2		
10	16QAM	50	0	20.58	20.59	20.63				
10	64QAM	1	0	20.71	20.82	20.77				
10	64QAM	1	25	20.68	20.68	20.50	21.4	2		
10	64QAM	1	49	20.69	20.75	20.55				
10	64QAM	25	0	19.50	19.65	19.68				
10	64QAM	25	12	19.56	19.62	19.58	20.4	3		
10	64QAM	25	25	19.54	19.56	19.51				
10	64QAM	50	0	19.59	19.54	19.63				
10	256QAM	1	0	17.56	17.67	17.58	18.4	5		
10	256QAM	1	25	17.43	17.63	17.60				
10	256QAM	1	49	17.46	17.54	17.40				
10	256QAM	25	0	17.44	17.55	17.56	18.4	5		
10	256QAM	25	12	17.68	17.66	17.65				
10	256QAM	25	25	17.50	17.62	17.53				
10	256QAM	50	0	17.52	17.52	17.52	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
5	QPSK	1	0	13.097	13.022	13.097	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	12	22.32	22.52	22.46	23.4	0		
5	QPSK	1	24	22.34	22.44	22.48				
5	QPSK	12	0	21.41	21.66	21.61				
5	QPSK	12	7	21.55	21.49	21.60	22.4	1		
5	QPSK	12	13	21.50	21.58	21.53				
5	QPSK	25	0	21.56	21.56	21.58				
5	16QAM	1	0	21.73	21.78	21.72	22.4	1		
5	16QAM	1	12	21.87	22.09	21.76				
5	16QAM	1	24	21.89	21.93	21.78				
5	16QAM	12	0	20.43	20.61	20.64	21.4	2		
5	16QAM	12	7	20.59	20.61	20.57				
5	16QAM	12	13	20.54	20.59	20.55				
5	16QAM	25	0	20.59	20.54	20.63	21.4	2		
5	64QAM	1	0	20.73	20.74	20.74				
5	64QAM	1	12	20.70	20.86	20.89				
5	64QAM	1	24	20.69	20.67	20.56	20.4	3		
5	64QAM	12	0	19.45	19.63	19.65				
5	64QAM	12	7	19.58	19.56	19.53				
5	64QAM	12	13	19.53	19.62	19.54	18.4	5		
5	64QAM	25	0	19.56	19.50	19.57				
5	256QAM	1	0	17.56	17.63	17.61				
5	256QAM	1	12	17.43	17.56	17.59	18.4	5		
5	256QAM	1	24	17.46	17.59	17.34				
5	256QAM	12	0	17.44	17.55	17.50				
5	256QAM	12	7	17.70	17.72	17.61	18.4	5		
5	256QAM	12	13	17.57	17.68	17.53				
5	256QAM	25	0	17.53	17.61	17.55				
Channel										
Frequency (MHz)										
3	QPSK	1	0	17.115	17.45	17.785	Tune-up limit (dBm)	MPR (dB)		
3	QPSK	1	0	22.33	22.56	22.50	23.4	0		
3	QPSK	1	8	22.32	22.57	22.50				
3	QPSK	1	14	22.32	22.51	22.35				
3	QPSK	8	0	21.47	21.62	21.68	22.4	1		
3	QPSK	8	4	21.55	21.51	21.54				
3	QPSK	8	7	21.44	21.64	21.46				
3	QPSK	15	0	21.57	21.51	21.50	22.4	1		
3	16QAM	1	0	21.73	21.63	21.72				
3	16QAM	1	8	21.88	22.02	21.66				
3	16QAM	1	14	21.83	21.83	21.62	21.4	2		
3	16QAM	8	0	20.46	20.67	20.65				
3	16QAM	8	4	20.54	20.65	20.58				
3	16QAM	8	7	20.55	20.56	20.50	21.4	2		
3	16QAM	15	0	20.48	20.59	20.63				
3	64QAM	1	0	20.69	20.84	20.74				
3	64QAM	1	8	20.64	20.77	20.80	20.4	3		
3	64QAM	1	14	20.65	20.67	20.59				
3	64QAM	8	0	19.51	19.54	19.60				
3	64QAM	8	4	19.59	19.59	19.58	18.4	5		
3	64QAM	8	7	19.54	19.54	19.54				
3	64QAM	15	0	19.58	19.4		18.4	5		
3	256QAM	1	0	17.53	17.64	17.53				
3	256QAM	8	0	17.40	17.55	17.45	18.4	5		
3	256QAM	8	14	17.47	17.59	17.37				
3	256QAM	8	20	17.50	17.64	17.50				
3	256QAM	8	7	17.60	17.60	17.60	18.4	5		
3	256QAM	8	7	17.54	17.65	17.45				
3	256QAM	15	0	17.53	17.61	17.53				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	13.097	17.45	17.73	Tune-up limit (dBm)	MPR (dB)		
1.4	QPSK	1	0	22.56	22.60	22.56	23.4	0		
1.4	QPSK	1	3	22.52	22.55	22.55				
1.4	QPSK	1	5	22.58	22.61	22.56				
1.4	QPSK	3	0	22.61	22.62	22.62	22.4	1		
1.4	QPSK	3	1	22.61	22.55	22.56				
1.4	QPSK	3	3	22.62	22.60	22.54				
1.4	QPSK	1	0	21.58	21.60	21.56	22.4	1		
1.4	16QAM	1	3	22.05	22.16	22.02				
1.4	16QAM	1	3	22.01	22.21	22.05				
1.4	16QAM	1	3	21.94	22.06	22.06	21.4	2		
1.4	16QAM	3	1	21.81	21.97	21.91				
1.4	16QAM	3	1	21.70	22.01	21.77				
1.4	16QAM	6	0	20.72	20.85	20.76	21.4	2		
1.4	64QAM	1	0	20.80	20.89	20.83				
1.4	64QAM	3	0	20.79	20.87	20.81				
1.4	64QAM	1	5	20.69	21.07	20.78	21.4	2		
1.4	64QAM	3	0	20.72	20.92	20.79				
1.4	64QAM	3	3	20.77	20.82	20.82				
1.4	64QAM	3	3	20.64	20.44	20.80	20.4	3		
1.4	64QAM	6	0	19.81	19.85	19.66				
1.4	256QAM	3	0	17.54	17.65	17.55				
1.4	256QAM	3	1	17.38	17.59	17.58	18.4	5		
1.4	256QAM	1	5	17.49	17.69	17.39				
1.4	256QAM	3	1	17.51	17.62	17.48				
1.4	256QAM	3	1	17.60	17.68	17.72	18.4	5		
1.4	256QAM	3	3	17.52	17.61	17.51				
1.4	256QAM	3	3	17.50	17.61	17.51				

Band 66_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)										
20	QPSK	1	0	23.27	23.35	23.18	24.8	0		
20	QPSK	1	49	23.08	23.25	23.16				
20	QPSK	1	99	23.18	23.19	23.13				
20	QPSK	50	0	22.49	22.50	22.43	23.8	1		
20	QPSK	50	24	22.40	22.45	22.32				
20	QPSK	50	50	22.47	22.47	22.38				
20	QPSK	100	0	22.35	22.52	22.51	23.8	1		
20	16QAM	1	0	22.36	22.55	22.37				
20	16QAM	1	49	22.37	22.51	22.46				
20	16QAM	1	99	22.29	22.47	22.44	22.8	2		
20	16QAM	50	0	21.33	21.52	21.51				
20	16QAM	50	24	21.48	21.48	21.39				
20	16QAM	50	50	21.43	21.46	21.44	22.8	2		
20	16QAM	100	0	21.37	21.42	21.29				
20	64QAM	1	0	21.59	21.60	21.56				
20	64QAM	1	49	21.61	21.62	21.56	22.8	2		
20	64QAM	1	99	21.36	21.55	21.46				
20	64QAM	50	0	20.43	20.56	20.40				
20	64QAM	50	24	20.34	20.51	20.44	21.8	3		
20	64QAM	50	50	20.34	20.47	20.47				
20	64QAM	100	0	20.30	20.43	20.40				
20	256QAM	1	0	18.54	18.62	18.56	19.8	5		
20	256QAM	1	49	18.41	18.60	18.48				
20	256QAM	1	99	18.52	18.55	18.52				
20	256QAM	50	0	18.26	18.45	18.31	19.8	5		
20	256QAM	50	24	18.32	18.41	18.26				
20	256QAM	50	50	18.35	18.38	18.36				
20	256QAM	100	0	18.26	18.42	18.35	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.15	23.30	23.08	24.8	0		
15	QPSK	1	37	22.96	23.09	23.13				
15	QPSK	1	74	23.13	23.13	23.08				
15	QPSK	36	0	22.48	22.44	22.40	23.8	1		
15	QPSK	36	20	22.21	22.37	22.17				
15	QPSK	36	39	22.27	22.41	22.35				
15	QPSK	75	0	22.28	22.36	22.35	23.8	1		
15	16QAM	1	0	22.19	22.38	22.37				
15	16QAM	1	37	22.33	22.50	22.43				
15	16QAM	1	74	22.22	22.32	22.31	22.8	2		
15	16QAM	36	0	21.31	21.44	21.48				
15	16QAM	36	20	21.44	21.41	21.35				
15	16QAM	36	20	21.34	21.46	21.35	22.8	2		
15	16QAM	75	0	21.18	21.26	21.10				
15	64QAM	1	0	21.46	21.54	21.43				
15	64QAM	1	37	21.44	21.59	21.39	22.8	2		
15	64QAM	1	74	21.33	21.42	21.40				
15	64QAM	36	0	20.39	20.50	20.36				
15	64QAM	36	20	20.33	20.38	20.43	21.8	3		
15	64QAM	36	36	20.28	20.40	20.41				
15	64QAM	75	0	20.17	20.38	20.27				
15	256QAM	1	0	18.38	18.54	18.40	19.8	5		
15	256QAM	1	37	18.22	18.46	18.25				
15	256QAM	1	74	18.33	18.41	18.33				
15	256QAM	36	0	18.15	18.28	18.20	19.8	5		
15	256QAM	36	20	18.15	18.36	18.09				
15	256QAM	36	39	18.22	18.25	18.23				
15	256QAM	75	0	18.20	18.33	18.29	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.22	23.25	23.16	24.8	0		
10	QPSK	1	25	23.03	23.18	23.11				
10	QPSK	1	49	22.99	23.06	23.10				
10	QPSK	25	12	22.25	22.33	22.18	23.8	1		
10	QPSK	25	25	22.23	22.43	22.25				
10	QPSK	25	12	22.30	22.30	22.23				
10	16QAM	1	0	22.29	22.48	22.18	23.8	1		
10	16QAM	1	25	22.33	22.41	22.39				
10	16QAM	1	49	22.07	22.33	22.35				
10	16QAM	25	0	21.29	21.40	21.47	22.8	2		
10	16QAM	25	12	21.41	21.41	21.32				
10	16QAM	25	12	21.26	21.45	21.25				
10	16QAM	50	0	21.35	21.37	21.27	22.8	2		
10	64QAM	1	0	21.53	21.45	21.50				
10	64QAM	1	25	21.55	21.54	21.50				
10	64QAM	1	49	21.32	21.39	21.42	21.8	3		
10	64QAM	25	0	20.39	20.38	20.40				
10	64QAM	25	12	20.25	20.33	20.35				
10	64QAM	25	25	20.30	20.38	20.43	19.8	5		
10	64QAM	50	0	20.25	20.42	20.35				
10	256QAM	1	0	18.54	18.59	18.56				
10	256QAM	1	25	18.34	18.55	18.41	19.8	5		
10	256QAM	1	49	18.41	18.38	18.41				
10	256QAM	25	0	18.12	18.43	18.17				
10	256QAM	25	12	18.26	18.31	18.20	19.8	5		
10	256QAM	25	25	18.28	18.32	18.25				
10	256QAM	50	0	18.23	18.24	18.32				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.13	23.27	23.15	24.8	0		
5	QPSK	1	12	22.95	23.07	23.09				
5	QPSK	1	24	23.11	23.11	23.06				
5	QPSK	12	6	22.36	22.38	22.42	23.8	1		
5	QPSK	12	7	22.29	22.41	22.16				
5	QPSK	12	13	22.28	22.29	22.20				
5	QPSK	25	0	22.29	22.47	22.43	23.8	1		
5	16QAM	1	0	22.27	22.46	22.19				
5	16QAM	1	12	22.21	22.49	22.44				
5	16QAM	12	0	22.12	22.47	22.36	22.8	2		
5	16QAM	12	7	21.21	21.51	21.39				
5	16QAM	12	7	21.36	21.36	21.27				
5	16QAM	12	13	21.25	21.31	21.26	22.8	2		
5	16QAM	25	0	21.36	21.43	21.28				
5	64QAM	1	0	21.47	21.46	21.42				
5	64QAM	1	12	21.47	21.46	21.42	21.8	3		
5	64QAM	12	7	20.16	20.41	20.26				
5	64QAM	12	13	20.28	20.46	20.41				
5	64QAM	25	0	20.22	20.33	20.32	19.8	5		
5	256QAM	1	0	18.41	18.45	18.43				
5	256QAM	1	12	18.22	18.49	18.29				
5	256QAM	1	24	18.43	18.39	18.43	19.8	5		
5	256QAM	12	0	18.12	18.31	18.17				
5	256QAM	12	7	18.14	18.24	18.08				
5	256QAM	12	13	18.23	18.34	18.24	19.8	5		
5	256QAM	25	0	18.09	18.38	18.18				
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.27	23.27	23.17	24.8	0		
3	QPSK	1	8	22.91	23.10	23.00				
3	QPSK	1	14	23.15	23.08	23.08				
3	QPSK	8	0	22.38	22.44	22.33	23.8	1		
3	QPSK	8	4	22.38	22.38	22.14				
3	QPSK	8	7	22.39	22.29	22.27				
3	QPSK	15	0	22.27	22.33	22.39	23.8	1		
3	16QAM	1	0	22.25	22.39	22.21				
3	16QAM	1	8	22.22	22.49	22.32				
3	16QAM	1	14	22.20	22.33	22.27	22.8	2		
3	16QAM	8	0	21.29	21.38	21.47				
3	16QAM	8	4	21.36	21.45	21.27				
3	16QAM	8	7	21.35	21.46	21.36	22.8	2		
3	16QAM	15	0	21.27	21.42	21.19				
3	64QAM	1	0	21.45	21.41	21.42				
3	64QAM	1	8	21.45	21.54	21.40	21.8	3		
3	64QAM	1	14	21.19	21.53	21.29				
3	64QAM	8	0	20.41	20.53	20.38				
3	64QAM	8	4	20.20	20.38	20.30	19.8	5		
3	64QAM	8	7	20.16	20.47	20.29				
3	64QAM	15	0	20.18	20.41	20.28				
3	256QAM	1	0	18.38	18.58	18.40	19.8	5		
3	256QAM	1	8	18.23	18.60	18.30				



Band 66_Ant 7-EN-DC

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.96	23.07	22.93	24.3	0		
20	QPSK	1	49	23.04	23.06	22.94				
20	QPSK	1	99	22.88	23.01	22.99				
20	QPSK	50	0	21.98	22.13	22.06	23.3	1		
20	QPSK	50	24	22.06	22.10	22.00				
20	QPSK	50	50	21.99	22.05	21.95				
20	QPSK	100	0	22.05	22.06	22.04	23.3	1		
20	16QAM	1	0	22.10	22.10	21.99				
20	16QAM	1	49	21.95	22.06	22.06				
20	16QAM	1	99	21.83	21.98	21.83	22.3	2		
20	16QAM	50	0	21.01	21.16	21.10				
20	16QAM	50	24	20.98	21.03	20.97				
20	16QAM	50	50	21.01	21.06	20.93	22.3	2		
20	16QAM	100	0	21.08	21.10	21.08				
20	64QAM	1	0	21.24	21.32	21.29				
20	64QAM	1	49	21.12	21.26	21.26	22.3	2		
20	64QAM	1	99	20.96	21.06	20.94				
20	64QAM	50	0	20.03	20.13	20.07				
20	64QAM	50	24	20.08	20.14	20.10	21.3	3		
20	64QAM	50	50	20.21	20.21	20.15				
20	64QAM	100	0	20.05	20.16	20.14				
20	256QAM	1	0	17.85	17.85	17.82	19.3	5		
20	256QAM	1	49	17.78	17.83	17.82				
20	256QAM	1	99	17.86	17.85	17.83				
20	256QAM	50	0	17.83	17.89	17.81	19.3	5		
20	256QAM	50	24	17.90	17.86	17.87				
20	256QAM	50	50	17.77	17.84	17.80				
20	256QAM	100	0	17.81	17.88	17.80	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.85	23.06	22.80	24.3	0		
15	QPSK	1	37	22.91	22.95	22.84				
15	QPSK	1	74	22.72	23.00	22.89				
15	QPSK	36	0	21.98	22.07	22.02	23.3	1		
15	QPSK	36	36	21.98	22.04	21.95				
15	QPSK	36	39	21.95	22.00	21.81				
15	QPSK	75	0	21.95	21.94	21.92	23.3	1		
15	16QAM	1	0	21.96	22.02	21.88				
15	16QAM	1	37	21.88	21.94	22.05				
15	16QAM	1	74	21.72	21.89	21.81	22.3	2		
15	16QAM	36	0	20.88	21.02	21.00				
15	16QAM	36	20	20.87	21.01	20.96				
15	16QAM	36	39	20.91	21.02	20.92	22.3	2		
15	16QAM	75	0	21.00	21.02	21.00				
15	64QAM	1	0	21.14	21.30	21.15				
15	64QAM	1	37	20.98	21.14	21.21	22.3	2		
15	64QAM	1	74	20.92	21.03	20.93				
15	64QAM	36	0	19.92	20.02	19.92				
15	64QAM	36	20	20.01	20.01	19.96	21.3	3		
15	64QAM	36	39	20.16	20.11	20.15				
15	64QAM	75	0	19.97	20.16	20.02				
15	256QAM	1	0	17.81	17.85	17.71	19.3	5		
15	256QAM	1	37	17.75	17.83	17.74				
15	256QAM	1	74	17.86	17.81	17.68				
15	256QAM	36	0	17.88	17.84	17.77	19.3	5		
15	256QAM	36	20	17.86	17.86	17.81				
15	256QAM	36	39	17.77	17.80	17.78				
15	256QAM	75	0	17.77	17.73	17.58	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.86	23.03	22.84	24.3	0		
10	QPSK	1	25	22.90	23.01	22.83				
10	QPSK	1	49	22.81	22.99	22.97				
10	QPSK	25	12	21.95	22.02	21.99	23.3	1		
10	QPSK	25	12	21.90	22.09	21.88				
10	QPSK	25	25	21.93	22.01	21.80				
10	QPSK	50	0	22.01	21.98	22.01	23.3	1		
10	16QAM	1	0	22.03	22.02	21.89				
10	16QAM	1	25	21.95	22.00	21.92				
10	16QAM	1	49	21.79	21.83	21.78	22.3	2		
10	16QAM	25	0	20.95	21.03	21.00				
10	16QAM	25	12	20.77	20.93	20.82				
10	16QAM	25	25	20.95	20.97	20.97	21.3	3		
10	16QAM	50	0	21.01	21.07	21.02				
10	64QAM	1	0	21.15	21.19	21.22				
10	64QAM	1	25	21.08	21.20	21.18	22.3	2		
10	64QAM	1	49	20.84	20.96	20.85				
10	64QAM	25	0	20.00	20.02	20.05				
10	64QAM	25	12	19.95	20.03	20.01	21.3	3		
10	64QAM	25	25	20.07	20.20	20.13				
10	64QAM	50	0	20.01	20.11	20.04				
10	256QAM	1	0	17.83	17.82	17.78	19.3	5		
10	256QAM	1	25	17.74	17.92	17.79				
10	256QAM	1	49	17.74	17.85	17.82				
10	256QAM	25	0	17.78	17.78	17.77	19.3	5		
10	256QAM	25	12	17.80	17.93	17.83				
10	256QAM	25	25	17.84	17.75	17.71				
10	256QAM	50	0	17.81	17.75	17.60	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.90	22.95	22.87	24.3	0		
5	QPSK	1	12	22.89	23.02	22.90				
5	QPSK	1	24	22.79	22.98	22.85				
5	QPSK	12	7	21.83	22.02	22.04	23.3	1		
5	QPSK	12	7	21.91	22.04	21.98				
5	QPSK	12	13	21.87	22.02	21.89				
5	QPSK	25	0	21.90	22.01	21.99	23.3	1		
5	16QAM	1	0	22.07	22.03	21.87				
5	16QAM	1	12	21.87	21.96	22.06				
5	16QAM	1	24	21.76	21.98	21.89	22.3	2		
5	16QAM	12	0	20.90	21.14	21.04				
5	16QAM	12	7	20.85	20.99	20.87				
5	16QAM	12	13	20.94	20.92	20.81	22.3	2		
5	16QAM	25	0	21.05	21.09	20.92				
5	64QAM	1	0	21.17	21.21	21.28				
5	64QAM	1	12	20.98	21.13	21.11	22.3	2		
5	64QAM	1	24	20.90	20.96	20.89				
5	64QAM	12	0	20.03	19.98	19.97				
5	64QAM	12	7	19.96	20.04	19.95	21.3	3		
5	64QAM	12	13	20.20	20.19	20.15				
5	64QAM	25	0	19.95	20.10	20.07				
5	256QAM	1	0	17.73	17.81	17.81	19.3	5		
5	256QAM	1	12	17.69	17.92	17.77				
5	256QAM	1	24	17.80	17.89	17.68				
5	256QAM	12	0	17.74	17.78	17.80	19.3	5		
5	256QAM	12	7	17.79	17.89	17.79				
5	256QAM	12	13	17.63	17.84	17.73				
5	256QAM	25	0	17.78	17.83	17.73	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.81	22.99	22.90	24.3	0		
3	QPSK	1	8	22.84	23.04	22.90				
3	QPSK	1	14	22.80	22.97	22.87				
3	QPSK	8	0	21.81	21.99	21.91	23.3	1		
3	QPSK	8	4	22.04	22.05	21.89				
3	QPSK	8	7	21.88	22.02	21.83				
3	QPSK	15	0	21.81	22.02	22.03	23.3	1		
3	16QAM	1	0	22.02	22.08	21.90				
3	16QAM	1	8	21.85	21.94	21.94				
3	16QAM	1	14	21.82	21.90	21.79	22.3	2		
3	16QAM	8	0	21.01	21.04	20.95				
3	16QAM	8	4	20.77	20.93	20.83				
3	16QAM	8	7	20.87	21.01	20.85	22.3	2		
3	16QAM	15	0	20.97	21.05	20.93				
3	64QAM	1	0	21.17	21.26	21.17				
3	64QAM	1	8	21.08	21.18	21.18	21.3	3		
3	64QAM	1	14	20.94	20.91	20.80				
3	64QAM	8	0	19.92	20.09	19.94				
3	64QAM	8	4	19.96	20.08	20.02	19.3	5		
3	64QAM	15	0	20.13	20.20	20.07				
3	64QAM	15	0	19.92	20.07		Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.73	22.84	22.73	24.3	0		
1.4	QPSK	1	3	22.92	22.90	22.89				
1.4	QPSK	1	5	22.76	22.83	22.81				
1.4	QPSK	3	0	22.75	22.80	22.75	23.3	1		
1.4	QPSK	3	1	22.84	23.03	22.87				
1.4	QPSK	3	3	22.70	22.85	22.73				
1.4	QPSK	6	0	21.83	22.02	21.91	22.3	1		
1.4	16QAM	1	0	21.78	22.02	21.85				
1.4	16QAM	1	3	21.89	21.94	21.85				
1.4	16QAM	1	5	21.84	21.98	21.88	22.3	1		
1.4	16QAM	3	0	21.74	21.94	21.82				
1.4	16QAM	3	1	21.81	21.91	21.92				
1.4	16QAM	3	3	21.77	21.80	21.80	19.3	5		
1.4	16QAM	6	0	21.09	21.13	21.10				
1.4	64QAM	1	0	21.09	21.14	21.07				
1.4	64QAM	1	3	21.08	21.11	21.13	22.3	2		
1.4	64QAM	1	5	21.02	21.23	21.05				
1.4	64QAM	3	0	21.05	21.22	21.06				
1.4	64QAM	3	1	21.04	21.14	21.16	21.3	3		
1.4	64QAM	3	3	21.05	21.16	21.16				
1.4	64QAM	6	0	20.07	20.08	20.03				
1.4	256QAM	1	0	17.75	17.82	17.82	19.3	5		
1.4	256QAM	1	3	17.70	17.79	17.79				
1.4	256QAM	1	5	17.86	17.86	17.68				
1.4	256QAM	3	0	17.76	17.82	17.70	19.3	5		
1.4	256QAM	3	1	17.89	17.84	17.80				
1.4	256QAM	3	3	17.62	17.80	17.76				
1.4	256QAM	6	0	17.69	17.74	17.60	19.3	5		
1.4	256QAM	6	1	17.81	17.81	17.68				
1.4	256QAM	6	3	17.72	17.82	17.72				

Band 71_Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133297	133372	24.8	0
Frequency (MHz)				691	690.5	690.5		
20	QPSK	1	0	23.82	24.04	23.74	23.8	1
20	QPSK	1	49	23.80	23.84	23.71		
20	QPSK	1	99	23.78	23.83	23.61		
20	QPSK	50	0	23.11	23.14	23.07	22.8	2
20	QPSK	50	24	23.08	23.11	23.03		
20	QPSK	50	24	22.92	23.00	22.95		
20	QPSK	100	0	23.03	23.11	23.04	22.8	2
20	16QAM	1	0	23.21	23.29	23.27		
20	16QAM	1	49	23.13	23.14	23.08		
20	16QAM	1	99	23.16	23.20	23.19	22.8	2
20	16QAM	50	0	22.10	22.20	22.17		
20	16QAM	50	24	22.01	22.13	22.11		
20	16QAM	50	50	22.01	22.03	21.96	22.8	2
20	16QAM	100	0	22.03	22.04	21.98		
20	16QAM	1	0	22.28	22.27	22.18		
20	16QAM	1	49	22.22	22.28	22.19	21.8	3
20	16QAM	1	99	22.07	22.12	22.08		
20	16QAM	50	0	21.06	21.16	21.09		
20	16QAM	50	24	21.06	21.14	21.06	19.8	5
20	16QAM	50	50	20.90	20.96	20.90		
20	16QAM	100	0	21.01	21.12	21.00		
20	256QAM	1	0	18.82	18.95	18.86	19.8	5
20	256QAM	1	49	18.83	18.93	18.95		
20	256QAM	1	99	18.86	18.88	18.77		
20	256QAM	50	0	18.79	18.84	18.80	19.8	5
20	256QAM	50	24	18.89	18.96	18.94		
20	256QAM	50	50	18.82	18.90	18.84		
20	256QAM	100	0	18.83	18.87	18.70	19.8	5
Channel				133107	133297	133372		
Frequency (MHz)				690.5	690.5	690.5	24.8	0
15	QPSK	1	0	23.73	23.92	23.64		
15	QPSK	1	37	23.75	23.82	23.68	23.8	1
15	QPSK	1	74	23.74	23.82	23.58		
15	QPSK	36	0	22.87	23.11	22.83		
15	QPSK	36	20	23.10	23.08	23.04	23.8	1
15	QPSK	36	99	22.81	22.90	22.94		
15	QPSK	75	0	23.02	23.06	22.98		
15	16QAM	1	0	23.13	23.24	23.20	23.8	1
15	16QAM	1	37	23.06	23.11	23.03		
15	16QAM	1	74	23.04	23.18	23.15		
15	16QAM	36	0	22.13	22.13	22.16	22.8	2
15	16QAM	36	20	21.90	22.07	21.99		
15	16QAM	36	99	21.83	21.95	21.92		
15	16QAM	75	0	21.34	21.53	21.34	22.8	2
15	16QAM	1	0	22.15	22.18	22.09		
15	16QAM	1	37	22.11	22.23	22.11		
15	16QAM	1	74	21.97	22.00	22.05	21.8	3
15	16QAM	36	0	21.03	21.12	21.01		
15	16QAM	36	20	21.00	21.02	21.00		
15	16QAM	36	99	20.82	20.85	20.82	19.8	5
15	16QAM	75	0	20.96	21.06	20.94		
15	256QAM	1	0	18.77	18.87	18.78		
15	256QAM	1	37	18.72	18.83	18.80	19.8	5
15	256QAM	1	74	18.77	18.78	18.69		
15	256QAM	1	99	18.74	18.78	18.73		
15	256QAM	36	20	18.79	18.81	18.82	19.8	5
15	256QAM	36	99	18.76	18.82	18.72		
15	256QAM	75	0	18.81	18.85	18.66		
Channel				133172	133297	133447	24.8	0
Frequency (MHz)				690.5	690.5	690.5		
10	QPSK	1	0	23.81	24.02	23.58	23.8	1
10	QPSK	1	25	23.75	23.84	23.65		
10	QPSK	1	49	23.66	23.72	23.60		
10	QPSK	25	0	23.01	23.06	23.02	23.8	1
10	QPSK	25	12	23.01	23.05	23.05		
10	QPSK	25	25	22.82	22.85	22.82		
10	QPSK	50	0	22.88	22.89	22.99	23.8	1
10	16QAM	1	0	23.14	23.27	23.19		
10	16QAM	1	25	23.10	23.10	22.97		
10	16QAM	1	49	23.10	23.10	23.13	22.8	2
10	16QAM	25	0	22.00	22.14	22.07		
10	16QAM	25	12	21.84	22.03	22.05		
10	16QAM	25	25	21.80	22.01	21.86	22.8	2
10	16QAM	50	0	21.93	21.95	21.80		
10	16QAM	1	0	22.15	22.25	22.11		
10	16QAM	1	25	22.13	22.20	22.09	21.8	3
10	16QAM	1	49	22.03	22.07	22.01		
10	16QAM	25	0	21.01	21.07	20.96		
10	16QAM	25	12	20.96	21.02	21.05	19.8	5
10	16QAM	25	25	20.82	20.84	20.80		
10	16QAM	50	0	20.90	21.03	20.92		
10	256QAM	1	0	18.75	18.84	18.83	19.8	5
10	256QAM	1	25	18.75	18.87	18.75		
10	256QAM	1	49	18.82	18.84	18.69		
10	256QAM	25	0	18.65	18.75	18.75	19.8	5
10	256QAM	25	12	18.83	18.85	18.86		
10	256QAM	25	25	18.75	18.79	18.73		
10	256QAM	50	0	18.74	18.75	18.69	24.8	0
Channel				133147	133297	133447		
Frequency (MHz)				690.5	690.5	690.5	24.8	0
5	QPSK	1	0	23.73	23.97	23.68		
5	QPSK	1	12	23.71	23.91	23.67	23.8	1
5	QPSK	1	24	23.74	23.79	23.57		
5	QPSK	12	0	22.98	23.12	22.98		
5	QPSK	12	7	23.04	23.04	22.97	23.8	1
5	QPSK	12	13	22.86	22.92	22.84		
5	QPSK	25	0	22.98	23.09	23.02		
5	16QAM	1	0	23.11	23.18	23.20	23.8	1
5	16QAM	1	12	23.03	23.13	23.07		
5	16QAM	24	0	23.09	23.08	23.07		
5	16QAM	12	0	22.07	22.17	22.06	22.8	2
5	16QAM	12	7	21.82	22.07	22.07		
5	16QAM	12	13	21.07	21.86	21.80		
5	16QAM	25	0	21.91	22.01	21.91	22.8	2
5	16QAM	1	0	22.17	22.23	22.13		
5	16QAM	1	12	22.14	22.14	22.10		
5	16QAM	1	24	21.99	22.04	22.00	21.8	3
5	16QAM	12	0	20.99	21.13	21.05		
5	16QAM	12	13	20.88	20.92	20.84		
5	16QAM	25	0	20.93	21.05	20.97	19.8	5
5	256QAM	1	0	18.73	18.83	18.76		
5	256QAM	1	12	18.77	18.82	18.74		
5	256QAM	1	24	18.77	18.79	18.68	19.8	5
5	256QAM	12	0	18.77	18.78	18.70		
5	256QAM	12	7	18.88	18.89	18.91		
5	256QAM	12	13	18.75	18.85	18.80	19.8	5
5	256QAM	25	0	18.73	18.81	18.65		

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 38000 2500 2610											
Frequency (MHz)											
20	QPSK	1	0	22.8	22.85	22.76	23.4	0			
20	QPSK	1	49	22.75	22.89	22.77					
20	QPSK	1	99	22.77	22.85	22.84					
20	QPSK	50	0	21.89	21.91	21.81	22.4	1			
20	QPSK	50	24	21.84	21.78	21.72					
20	QPSK	50	50	21.79	21.82	21.79					
20	QPSK	100	0	21.81	21.89	21.73	22.4	1			
20	16QAM	1	0	22.12	21.9	21.89					
20	16QAM	1	49	22.25	22.35	22.28					
20	16QAM	50	0	20.8	20.74	20.66	21.4	2			
20	16QAM	50	24	20.93	20.78	20.79					
20	16QAM	50	50	20.88	20.85	20.8					
20	16QAM	100	0	20.9	20.76	20.7	21.4	2			
20	84QAM	1	0	20.97	20.79	20.87					
20	84QAM	1	49	20.91	20.94	20.9					
20	84QAM	1	99	20.91	20.91	20.79	21.4	2			
20	84QAM	50	0	19.78	19.72	19.69					
20	84QAM	50	24	19.89	19.76	19.76					
20	84QAM	50	50	19.89	19.85	19.8	20.4	3			
20	84QAM	100	0	19.92	19.76	19.71					
20	256QAM	1	0	17.43	17.45	17.43					
20	256QAM	1	49	17.45	17.49	17.47	18.4	5			
20	256QAM	1	99	17.36	17.52	17.40					
20	256QAM	50	0	17.35	17.42	17.28					
20	256QAM	50	24	17.42	17.48	17.34	18.4	5			
20	256QAM	50	50	17.43	17.50	17.49					
20	256QAM	100	0	17.35	17.43	17.27					
Channel 37125 38000 36150											
Frequency (MHz)											
15	QPSK	1	0	22.65	22.60	22.54	23.4	0			
15	QPSK	1	37	22.72	22.58	22.59					
15	QPSK	1	74	22.66	22.58	22.56					
15	QPSK	36	0	21.70	21.68	21.61	22.4	1			
15	QPSK	36	20	21.90	21.76	21.66					
15	QPSK	36	39	21.81	21.72	21.77					
15	QPSK	75	0	21.68	21.65	21.66	22.4	1			
15	16QAM	1	0	22.00	21.87	21.86					
15	16QAM	1	37	22.22	22.28	22.19					
15	16QAM	1	74	21.96	21.78	21.91	21.4	2			
15	16QAM	36	0	20.70	20.72	20.62					
15	16QAM	36	20	20.88	20.71	20.64					
15	16QAM	36	39	20.81	20.78	20.71	21.4	2			
15	16QAM	75	0	20.80	20.64	20.64					
15	84QAM	1	0	20.93	20.70	20.82		21.4	2		
15	84QAM	1	37	20.84	20.83	20.79					
15	84QAM	1	74	20.88	20.88	20.75		20.4	3		
15	84QAM	36	0	19.69	19.66	19.62					
15	84QAM	36	20	19.81	19.67	19.73	20.4	3			
15	84QAM	36	39	19.84	19.84	19.70					
15	84QAM	75	0	19.88	19.75	19.83					
15	256QAM	1	0	17.42	17.41	17.38	18.4	5			
15	256QAM	1	37	17.41	17.39	17.42					
15	256QAM	1	74	17.29	17.47	17.31					
15	256QAM	36	0	17.27	17.38	17.24	18.4	5			
15	256QAM	36	20	17.34	17.40	17.27					
15	256QAM	36	39	17.34	17.43	17.41					
15	256QAM	75	0	17.24	17.40	17.23	Tune-up limit (dBm) MPR (dB)				
Channel 37800 38000 36200											
Frequency (MHz)											
10	QPSK	1	0	22.75	22.65	22.64	23.4	0			
10	QPSK	1	25	22.75	22.60	22.58					
10	QPSK	1	49	22.68	22.61	22.57					
10	QPSK	25	0	21.76	21.72	21.54	22.4	1			
10	QPSK	25	12	21.87	21.74	21.71					
10	QPSK	25	25	21.88	21.71	21.73					
10	QPSK	50	0	21.79	21.61	21.60	22.4	1			
10	16QAM	1	0	22.07	21.89	21.79					
10	16QAM	1	25	22.22	22.28	22.16					
10	16QAM	1	49	21.93	21.80	21.80	21.4	2			
10	16QAM	25	0	20.78	20.71	20.61					
10	16QAM	25	12	20.67	20.77	20.62					
10	16QAM	25	25	20.77	20.79	20.69	21.4	2			
10	16QAM	50	0	20.83	20.71	20.61					
10	84QAM	1	0	20.88	20.71	20.80		21.4	2		
10	84QAM	1	25	20.86	20.85	20.81					
10	84QAM	1	49	20.79	20.90	20.70	20.4	3			
10	84QAM	25	0	19.71	19.60	19.57					
10	84QAM	25	12	19.84	19.75	19.66		18.4	5		
10	84QAM	25	25	19.82	19.62	19.74					
10	84QAM	50	0	19.85	19.67	19.70	18.4	5			
10	256QAM	1	0	17.37	17.41	17.41					
10	256QAM	1	25	17.43	17.42	17.40					
10	256QAM	1	49	17.42	17.45	17.35	18.4	5			
10	256QAM	25	0	17.34	17.52	17.27					
10	256QAM	25	12	17.31	17.39	17.33					
10	256QAM	25	25	17.31	17.43	17.40	20	3			
10	256QAM	50	0	17.34	17.40	17.20					
Channel 37775 38000 36225											
Frequency (MHz)											
5	QPSK	1	0	22.67	22.67	22.61	23.4	0			
5	QPSK	1	12	22.69	22.66	22.60					
5	QPSK	1	24	22.71	22.67	22.61					
5	QPSK	12	0	21.71	21.70	21.63	22.4	1			
5	QPSK	12	7	21.80	21.72	21.71					
5	QPSK	12	13	21.83	21.76	21.67					
5	QPSK	25	0	21.81	21.63	21.67	22.4	1			
5	16QAM	1	0	22.02	21.80	21.88					
5	16QAM	1	12	22.24	22.21	21.96					
5	16QAM	1	24	21.89	21.81	21.92	21.4	2			
5	16QAM	12	0	20.77	20.63	20.61					
5	16QAM	12	7	20.92	20.69	20.68					
5	16QAM	12	13	20.76	20.77	20.70	21.4	2			
5	16QAM	25	0	20.84	20.70	20.66					
5	16QAM	25	0	20.92	20.67	20.64					
5	84QAM	1	12	20.82	20.91	20.82	21.4	2			
5	84QAM	1	24	20.83	20.82	20.89					
5	84QAM	12	0	19.76	19.61	19.62		20.4	3		
5	84QAM	12	7	19.79	19.74	19.73					
5	84QAM	12	13	19.80	19.81	19.73	18.4	5			
5	84QAM	25	0	19.82	19.64	19.66					
5	256QAM	1	0	17.34	17.38	17.42					
5	256QAM	1	12	17.35	17.37	17.40	18.4	5			
5	256QAM	1	24	17.30	17.40	17.25					
5	256QAM	12	0	17.34	17.32	17.16					
5	256QAM	12	7	17.33	17.44	17.28	18.4	5			
5	256QAM	12	13	17.39	17.40	17.45					
5	256QAM	25	0	17.33	17.33	17.19					

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)				2500	2500	2610		
20	QPSK	1	0	24.16	24.20	24.11	24.8	0
20	QPSK	1	49	24.15	24.12	24.09		
20	QPSK	1	99	23.97	24.03	23.99		
20	QPSK	50	0	23.18	23.25	23.19	23.8	1
20	QPSK	50	24	23.16	23.16	23.15		
20	QPSK	50	50	23.10	23.11	23.08		
20	QPSK	100	0	23.16	23.18	23.04	23.8	1
20	16QAM	1	0	23.17	23.22	23.16		
20	16QAM	1	49	22.80	22.98	22.85		
20	16QAM	1	99	23.13	23.29	23.17	22.8	2
20	16QAM	50	24	22.16	22.15	22.07		
20	16QAM	50	50	22.27	22.08	22.06		
20	16QAM	100	0	22.26	22.20	22.22	22.8	
20	84QAM	1	0	22.23	22.20	22.19		
20	84QAM	1	49	22.25	22.14	22.16		22.8
20	84QAM	1	99	21.85	21.79	21.80	21.8	3
20	84QAM	50	24	21.19	21.05	21.17		
20	84QAM	50	50	21.28	21.25	21.13		
20	84QAM	100	0	21.28	21.02	21.04	19.8	5
20	256QAM	1	0	18.85	18.90	18.97		
20	256QAM	1	49	18.78	18.84	18.75		
20	256QAM	1	99	18.78	18.90	18.77	19.8	5
20	256QAM	50	24	18.84	18.86	18.89		
20	256QAM	50	50	18.84	18.81	18.74		
20	256QAM	50	50	19.01	19.01	19.00	19.8	5
20	256QAM	100	0	18.78	18.95	18.95		
Channel				37900	38000	38100		
Frequency (MHz)				2577.5	2586	2612.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	24.12	24.19	24.04	24.8	0
15	QPSK	1	49	24.09	24.00	24.00		
15	QPSK	1	74	23.79	23.85	23.81		
15	QPSK	36	0	22.99	23.10	22.81	23.8	1
15	QPSK	36	36	23.23	22.94	22.88		
15	QPSK	36	36	23.12	23.11	23.05		
15	QPSK	75	0	23.12	23.11	22.93	23.8	1
15	16QAM	1	37	22.89	22.96	23.01		
15	16QAM	1	74	23.05	23.26	23.07		
15	16QAM	36	0	21.97	22.10	21.81	22.8	2
15	16QAM	36	20	22.08	21.83	21.87		
15	16QAM	36	36	22.14	22.05	22.10		
15	16QAM	75	0	22.13	22.14	22.09	21.8	3
15	84QAM	1	37	22.06	21.81	21.86		
15	84QAM	1	74	21.74	21.79	21.69		
15	84QAM	36	0	21.13	20.93	21.01	21.8	3
15	84QAM	36	20	21.12	21.00	21.10		
15	84QAM	36	20	21.09	21.07	20.94		
15	84QAM	75	0	21.22	21.01	20.98	19.8	5
15	256QAM	1	0	18.84	18.94	18.96		
15	256QAM	1	37	18.75	18.75	18.75		
15	256QAM	1	74	18.66	18.75	18.65	19.8	5
15	256QAM	36	0	18.90	18.82	18.85		
15	256QAM	36	20	18.87	18.85	18.85		
15	256QAM	36	36	18.97	18.90	18.82	19.8	5
15	256QAM	75	0	18.73	18.73	18.90		
Channel				37950	38000	38050		
Frequency (MHz)				2575	2595	2615	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	24.08	24.04	23.93	24.8	0
10	QPSK	1	25	23.97	24.12	23.80		
10	QPSK	1	49	23.86	23.93	23.85		
10	QPSK	1	74	22.86	22.84	22.84	23.8	1
10	QPSK	25	12	23.05	23.01	23.17		
10	QPSK	25	25	23.05	23.23	22.98		
10	QPSK	50	0	23.26	23.07	22.87	23.8	1
10	16QAM	1	0	22.98	23.15	23.18		
10	16QAM	1	25	22.79	22.92	22.70		
10	16QAM	1	49	22.84	23.13	23.11	22.8	2
10	16QAM	25	0	22.03	22.11	21.94		
10	16QAM	25	12	22.16	22.20	21.95		
10	16QAM	25	12	22.19	22.30	22.10	22.8	2
10	16QAM	50	0	22.11	22.05	22.07		
10	84QAM	1	0	22.02	21.99	21.98		
10	84QAM	1	25	21.98	21.62	21.73	22.8	2
10	84QAM	1	49	21.68	21.73	21.63		
10	84QAM	25	0	21.13	21.05	21.01		
10	84QAM	25	12	21.07	21.04	21.03	21.8	3
10	84QAM	25	25	21.10	21.16	20.95		
10	84QAM	50	0	21.19	20.89	20.95		
10	256QAM	1	0	18.68	18.66	18.60	19.8	5
10	256QAM	1	25	18.72	18.77	18.69		
10	256QAM	1	49	18.78	18.89	18.77		
10	256QAM	25	0	18.84	18.83	18.79	19.8	5
10	256QAM	25	12	18.81	18.75	18.71		
10	256QAM	25	25	18.86	18.83	18.83		
10	256QAM	50	0	18.74	18.77	18.81		
Channel				3777.5	38000	38225		
Frequency (MHz)				2572.5	2595	2617.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	24.11	24.11	24.05	24.8	0
5	QPSK	1	12	24.14	24.03	23.90		
5	QPSK	1	24	23.85	23.97	23.92		
5	QPSK	12	0	23.02	22.99	22.91	23.8	1
5	QPSK	12	7	23.19	23.09	23.13		
5	QPSK	12	13	23.13	23.11	23.08		
5	QPSK	25	0	23.03	23.11	22.85	23.8	1
5	16QAM	1	0	23.15	23.11	23.16		
5	16QAM	1	12	22.74	22.97	22.76		
5	16QAM	1	24	22.84	23.11	22.89	22.8	2
5	16QAM	12	0	22.07	22.01	21.98		
5	16QAM	12	7	22.15	21.90	21.94		
5	16QAM	12	13	22.15	22.17	22.17	22.8	2
5	16QAM	25	0	22.06	22.19	22.02		
5	16QAM	1	0	22.20	22.18	22.18		
5	84QAM	1	12	22.03	21.79	21.83	22.8	2
5	84QAM	1	24	21.82	21.73	21.77		
5	84QAM	12	0	21.04	21.04	20.99		
5	84QAM	12	13	21.19	21.12	21.04	21.8	3
5	84QAM	25	0	21.18	20.85	20.96		
5	256QAM	1	0	18.71	18.84	18.83		
5	256QAM	1	12	18.70	18.80	18.67	19.8	5
5	256QAM	1	24	18.68	18.83	18.65		
5	256QAM	12	0	18.75	18.85	18.70		
5	256QAM	12	7	18.86	18.82	18.58	19.8	5
5	256QAM	12	13	18.80	18.81	18.75		
5	256QAM	25	0	18.80	18.67	18.77		



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										
Frequency (MHz)										
20	QPSK	1	0	22.85	22.89	22.9	22.85	22.86	23.4	0
20	QPSK	1	49	22.85	22.89	22.9	22.84	22.37		
20	QPSK	1	99	22.85	22.89	22.9	22.85	22.86		
20	QPSK	50	0	21.54	21.58	21.69	21.35	21.25	22.4	1
20	QPSK	50	24	21.61	21.53	21.49	21.48	21.27		
20	QPSK	50	50	21.56	21.48	21.47	21.45	21.32		
20	QPSK	100	0	21.59	21.53	21.68	21.45	21.26	22.4	1
20	16QAM	1	49	21.57	21.59	21.56	21.51	21.34		
20	16QAM	1	99	21.64	21.5	21.44	21.71	21.36		
20	16QAM	1	99	21.46	21.75	21.76	21.47	21.49	21.4	2
20	16QAM	50	0	20.64	20.66	20.54	20.46	20.33		
20	16QAM	50	24	20.69	20.81	20.54	20.59	20.33		
20	16QAM	50	50	20.64	20.77	20.64	20.53	20.41	21.4	2
20	16QAM	100	0	20.66	20.75	20.53	20.49	20.5		
20	64QAM	1	0	20.46	20.53	20.53	20.31	20.21		
20	64QAM	1	49	20.6	20.6	20.56	20.55	20.31	21.4	2
20	64QAM	1	20.42	20.7	20.68	20.56	20.38			
20	64QAM	50	0	19.6	19.63	19.52	19.44	19.31		
20	64QAM	50	24	19.69	19.79	19.55	19.54	19.38	20.4	3
20	64QAM	50	50	19.71	19.75	19.61	19.52	19.42		
20	64QAM	100	0	19.69	19.73	19.53	19.52	19.33		
20	256QAM	1	0	17.70	17.51	17.89	17.68	17.73	18.4	5
20	256QAM	1	49	17.59	17.42	17.72	17.56	17.43		
20	256QAM	1	99	17.55	17.70	17.51	17.59	17.55		
20	256QAM	50	0	17.61	17.54	17.61	17.53	17.52	18.4	5
20	256QAM	50	24	17.40	17.27	17.54	17.44	17.35		
20	256QAM	50	50	17.39	17.32	17.38	17.24	17.24		
20	256QAM	100	0	17.24	17.42	17.45	17.25	17.27	Tune-up limit (dBm) MPR (dB)	
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.56	22.58	22.52	22.60	22.51	23.40	0
15	QPSK	1	22.51	22.51	22.53	22.53	22.59	22.59		
15	QPSK	1	74	22.51	22.66	22.50	22.34	22.30		
15	QPSK	36	0	21.44	21.52	21.51	21.30	21.28	22.4	1
15	QPSK	36	20	21.54	21.41	21.54	21.36	21.29		
15	QPSK	36	39	21.51	21.45	21.53	21.41	21.20		
15	QPSK	75	0	21.60	21.48	21.60	21.43	21.29	22.4	1
15	16QAM	1	21.39	21.54	21.41	21.44	21.25	21.25		
15	16QAM	1	37	21.52	21.31	21.29	21.55	21.20		
15	16QAM	1	74	21.35	21.56	21.60	21.28	21.33	21.4	2
15	16QAM	36	0	20.46	20.36	20.36	20.45	20.33		
15	16QAM	36	20	20.58	20.68	20.44	20.48	20.28		
15	16QAM	36	39	20.54	20.64	20.54	20.41	20.40	21.4	2
15	16QAM	75	0	20.65	20.58	20.52	20.38	20.16		
15	64QAM	1	0	20.41	20.34	20.48	20.13	20.20		
15	64QAM	1	37	20.42	20.54	20.38	20.42	20.18	21.4	2
15	64QAM	1	74	20.25	20.59	20.49	20.54	20.22		
15	64QAM	36	0	19.54	19.61	19.46	19.33	19.29		
15	64QAM	36	20	19.64	19.56	19.46	19.47	19.19	20.4	3
15	64QAM	36	39	19.57	19.59	19.47	19.45	19.40		
15	64QAM	75	0	19.53	19.64	19.37	19.40	19.24		
15	256QAM	1	0	17.61	17.60	17.60	17.59	17.73	18.4	5
15	256QAM	1	74	17.43	17.26	17.56	17.51	17.33		
15	256QAM	1	74	17.46	17.65	17.49	17.56	17.54		
15	256QAM	36	0	17.47	17.47	17.47	17.34	17.37	18.4	5
15	256QAM	36	20	17.25	17.25	17.38	17.31	17.37		
15	256QAM	36	39	17.24	17.15	17.23	17.13	17.18		
15	256QAM	75	0	17.18	17.29	17.18	17.16	17.35	Tune-up limit (dBm) MPR (dB)	
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.53	22.56	22.53	22.53	22.55	23.40	0
10	QPSK	1	25	22.52	22.54	22.48	22.43	22.23		
10	QPSK	1	49	22.39	22.57	22.44	22.44	22.30		
10	QPSK	25	0	21.45	21.62	21.60	21.31	21.14	22.4	1
10	QPSK	25	12	21.59	21.52	21.39	21.53	21.22		
10	QPSK	25	25	21.53	21.44	21.49	21.49	21.34		
10	QPSK	50	0	21.64	21.57	21.64	21.39	21.20	22.4	1
10	16QAM	1	0	21.52	21.52	21.43	21.38	21.28		
10	16QAM	1	25	21.60	21.38	21.33	21.55	21.27		
10	16QAM	1	25	21.46	21.56	21.57	21.44	21.45	21.4	2
10	16QAM	25	0	20.59	20.64	20.49	20.41	20.22		
10	16QAM	25	12	20.59	20.62	20.45	20.59	20.21		
10	16QAM	25	25	20.55	20.68	20.55	20.47	20.37	21.4	2
10	16QAM	50	0	20.53	20.56	20.40	20.43	20.22		
10	64QAM	1	0	20.35	20.42	20.42	20.13	20.21		
10	64QAM	1	25	20.49	20.52	20.45	20.37	20.26	21.4	2
10	64QAM	1	49	20.41	20.54	20.50	20.49	20.12		
10	64QAM	25	0	19.54	19.55	19.46	19.29	19.30		
10	64QAM	25	12	19.50	19.65	19.36	19.45	19.20	20.4	3
10	64QAM	25	25	19.60	19.68	19.60	19.42	19.30		
10	64QAM	50	0	19.56	19.54	19.40	19.33	19.14		
10	256QAM	1	0	17.61	17.43	17.63	17.66	17.71	18.4	5
10	256QAM	1	25	17.43	17.35	17.56	17.43	17.27		
10	256QAM	1	49	17.51	17.52	17.54	17.45	17.41		
10	256QAM	25	0	17.47	17.37	17.47	17.53	17.46	18.4	5
10	256QAM	25	12	17.31	17.16	17.45	17.27	17.43		
10	256QAM	25	25	17.23	17.35	17.32	17.21	17.20		
10	256QAM	50	0	17.21	17.27	17.32	17.10	17.36	Tune-up limit (dBm) MPR (dB)	
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.63	22.54	22.67	22.54	22.56	23.40	0
5	QPSK	1	12	22.37	22.48	22.37	22.30	22.22		
5	QPSK	1	24	22.35	22.65	22.60	22.32	22.43		
5	QPSK	12	0	21.51	21.49	21.69	21.28	21.28	22.4	1
5	QPSK	12	7	21.66	21.49	21.49	21.47	21.25		
5	QPSK	12	13	21.65	21.38	21.45	21.41	21.36		
5	QPSK	25	0	21.55	21.56	21.62	21.48	21.32	22.4	1
5	16QAM	1	0	21.53	21.52	21.40	21.44	21.22		
5	16QAM	1	12	21.57	21.32	21.27	21.58	21.36		
5	16QAM	12	0	20.48	20.63	20.38	20.46	20.28	21.4	2
5	16QAM	12	7	20.55	20.70	20.41	20.53	20.26		
5	16QAM	12	13	20.54	20.74	20.54	20.49	20.38		
5	16QAM	25	0	20.61	20.59	20.48	20.46	20.18	21.4	2
5	64QAM	1	0	20.40	20.55	20.47	20.26	20.20		
5	64QAM	1	12	20.58	20.53	20.54	20.38	20.25		
5	64QAM	1	24	20.35	20.65	20.60	20.59	20.17	20.4	3
5	64QAM	12	0	19.49	19.49	19.41	19.37	19.30		
5	64QAM	12	7	19.66	19.66	19.52	19.39	19.38		
5	64QAM	12	13	19.53	19.59	19.43	19.36	19.29	18.4	5
5	64QAM	25	0	19.58	19.56	19.42	19.38	19.16		
5	256QAM	1	0	17.64	17.46	17.63	17.50	17.60		
5	256QAM	1	12	17.55	17.31	17.68	17.55	17.40	18.4	5
5	256QAM	1	24	17.36	17.52	17.39	17.51	17.42		
5	256QAM	12	0	17.45	17.50	17.45	17.45	17.49		
5	256QAM	12	7	17.26	17.26	17.40	17.43	17.54	18.4	5
5	256QAM	12	13	17.28	17.28	17.30	17.20	17.24		
5	256QAM	25	0	17.33	17.42	17.44	17.21	17.24		

Band 41_Ant 6

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										
Frequency (MHz)				39760	40165	40620	41065	41480		
				2508	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.56	23.55	23.59	23.51	23.49	24.3	0
20	QPSK	1	49	23.34	23.42	23.59	23.33	23.28		
20	QPSK	1	99	23.28	23.38	23.49	23.32	23.21	23.3	1
20	QPSK	50	0	22.40	22.56	22.60	22.49	22.35		
20	QPSK	50	24	22.52	22.39	22.44	22.43	22.30	23.3	1
20	QPSK	50	50	22.32	22.48	22.58	22.35	22.35		
20	QPSK	100	0	22.42	22.53	22.50	22.44	22.47	23.3	1
20	16QAM	1	0	22.44	22.54	22.59	22.38	22.32		
20	16QAM	1	49	22.56	22.42	22.61	22.38	22.51	22.3	1
20	16QAM	1	99	22.46	22.35	22.44	22.38	22.38		
20	16QAM	50	0	21.30	21.30	21.30	21.24	21.40	22.3	2
20	16QAM	50	24	21.54	21.44	21.48	21.44	21.13		
20	16QAM	50	50	21.40	21.43	21.51	21.19	21.52	22.3	2
20	16QAM	100	0	21.25	21.49	21.35	21.39	21.32		
20	64QAM	1	0	21.37	21.61	21.55	21.53	21.59	22.3	2
20	64QAM	1	49	21.43	21.75	21.52	21.69	21.41		
20	64QAM	50	0	20.38	20.23	20.29	20.30	20.25	21.3	3
20	64QAM	50	24	20.37	20.47	20.54	20.46	20.43		
20	64QAM	50	50	20.35	20.32	20.34	20.13	20.38	19.3	5
20	64QAM	100	0	20.27	20.47	20.42	20.24	20.37		
20	256QAM	1	0	18.20	18.40	18.26	18.30	18.29	19.3	5
20	256QAM	1	49	18.50	18.31	18.50	18.45	18.37		
20	256QAM	1	99	18.33	18.33	18.49	18.34	18.40	19.3	5
20	256QAM	50	0	18.39	18.23	18.44	18.18	18.28		
20	256QAM	50	24	18.26	18.37	18.36	18.50	18.41	19.3	5
20	256QAM	50	50	18.41	18.36	18.48	18.24	18.22		
20	256QAM	100	0	18.23	18.43	18.34	18.27	18.31	Tune-up limit MPR	
Channel				39765	40173	40620	41067	41515		
Frequency (MHz)				25015	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	23.48	23.43	23.53	23.49	23.48	24.30	0
15	QPSK	1	37	23.51	23.37	23.37	23.38	23.38		
15	QPSK	1	74	23.24	23.28	23.35	23.26	23.09	23.3	1
15	QPSK	36	0	22.34	22.40	22.28	22.42	22.31		
15	QPSK	36	20	22.50	22.32	22.35	22.32	22.39	23.3	1
15	QPSK	36	39	22.24	22.37	22.41	22.22	22.22		
15	QPSK	75	0	22.39	22.52	22.43	22.35	22.47	23.3	1
15	QPSK	75	0	22.43	22.35	22.46	22.30	22.26		
15	16QAM	1	37	22.55	22.29	22.32	22.24	22.36	23.3	1
15	16QAM	1	74	22.36	22.28	22.33	22.22	22.32		
15	16QAM	36	0	21.16	21.14	21.16	21.22	21.10	22.3	2
15	16QAM	36	20	21.36	21.38	21.30	21.27	21.15		
15	16QAM	36	39	21.22	21.27	21.33	21.10	21.24	22.3	2
15	16QAM	75	0	21.15	21.48	21.25	21.38	21.14		
15	64QAM	1	0	21.29	21.44	21.47	21.49	21.50	22.3	2
15	64QAM	1	37	21.36	21.65	21.45	21.53	21.23		
15	64QAM	1	74	21.33	21.60	21.42	21.21	21.46	21.3	3
15	64QAM	36	0	20.20	20.16	20.11	20.19	20.06		
15	64QAM	36	39	20.23	20.29	20.40	20.38	20.35	19.3	5
15	64QAM	36	39	20.26	20.28	20.25	20.02	20.27		
15	64QAM	75	0	20.11	20.31	20.26	20.12	20.20	19.3	5
15	256QAM	1	0	18.19	18.30	18.25	18.11	18.23		
15	256QAM	1	37	18.40	18.22	18.40	18.43	18.26	19.3	5
15	256QAM	1	74	18.26	18.25	18.42	18.18	18.40		
15	256QAM	36	0	18.35	18.17	18.40	18.01	18.25	19.3	5
15	256QAM	36	20	18.22	18.18	18.32	18.40	18.22		
15	256QAM	36	39	18.37	18.33	18.44	18.17	18.14	19.3	5
15	256QAM	75	0	18.11	18.35	18.22	18.21	18.27		
Channel										
Frequency (MHz)				39700	40160	40620	41063	41518	Tune-up limit (dBm)	MPR (dB)
				2501	2547	2593	2630	2665		
10	QPSK	1	0	23.45	23.55	23.52	23.32	23.33	24.30	0
10	QPSK	1	25	23.22	23.39	23.15	23.14	23.12		
10	QPSK	1	49	23.19	23.26	23.34	23.23	23.21	23.3	1
10	QPSK	25	0	22.30	22.55	22.24	22.49	22.21		
10	QPSK	25	12	22.44	22.29	22.28	22.26	22.26	23.3	1
10	QPSK	25	25	22.22	22.32	22.41	22.17	22.21		
10	QPSK	50	0	22.41	22.43	22.43	22.37	22.37	23.3	1
10	16QAM	1	0	22.37	22.39	22.44	22.30	22.28		
10	16QAM	1	25	22.47	22.24	22.58	22.18	22.36	22.3	1
10	16QAM	1	49	22.41	22.34	22.35	22.37	22.36		
10	16QAM	25	0	21.23	21.16	21.23	21.17	21.19	22.3	2
10	16QAM	25	12	21.45	21.30	21.39	21.30	21.17		
10	16QAM	25	25	21.30	21.32	21.41	21.01	21.47	22.3	2
10	16QAM	50	0	21.25	21.49	21.35	21.20	21.17		
10	64QAM	1	0	21.26	21.47	21.44	21.51	21.42	22.3	2
10	64QAM	1	25	21.26	21.69	21.35	21.60	21.39		
10	64QAM	1	49	21.36	21.63	21.45	21.25	21.35	21.3	3
10	64QAM	25	0	20.20	20.17	20.11	20.12	20.16		
10	64QAM	25	12	20.29	20.34	20.46	20.41	20.33	19.3	5
10	64QAM	25	25	20.21	20.15	20.20	20.10	20.09		
10	256QAM	50	0	18.13	18.43	18.49	18.43	18.42	19.3	5
10	256QAM	1	0	18.01	18.35	18.07	18.14	18.19		
10	256QAM	1	25	18.34	18.25	18.34	18.39	18.20	19.3	5
10	256QAM	1	49	18.24	18.31	18.40	18.16	18.24		
10	256QAM	25	0	18.55	18.08	18.40	18.16	18.25	19.3	5
10	256QAM	25	12	18.08	18.29	18.18	18.41	18.22		
10	256QAM	25	25	18.38	18.33	18.45	18.08	18.03	19.3	5
10	256QAM	50	0	18.20	18.24	18.31	18.22	18.18		
Channel										
Frequency (MHz)				39675	40148	40620	41063	41565	Tune-up limit (dBm)	MPR (dB)
				2498.5	2545.8	2593	2640.3	2687.5		
5	QPSK	1	0	23.42	23.41	23.42	23.51	23.45	24.30	0
5	QPSK	1	12	23.17	23.41	23.27	23.14	23.15		
5	QPSK	1	24	23.11	23.23	23.43	23.23	23.16	23.3	1
5	QPSK	12	0	22.36	22.39	22.40	22.41	22.34		
5	QPSK	12	7	22.44	22.31	22.29	22.26	22.28	23.3	1
5	QPSK	12	13	22.15	22.45	22.51	22.28	22.35		
5	QPSK	25	0	22.42	22.42	22.40	22.31	22.40	23.3	1
5	16QAM	1	0	22.40	22.46	22.52	22.34	22.23		
5	16QAM	1	12	22.49	22.30	22.60	22.20	22.49	22.3	1
5	16QAM	1	24	22.30	22.30	22.44	22.29	22.22		
5	16QAM	12	0	21.24	21.11	21.24	21.15	21.27	22.3	2
5	16QAM	12	7	21.41	21.29	21.35	21.39	21.02		
5	16QAM	12	13	21.39	21.30	21.50	21.08	21.44	22.3	2
5	16QAM	25	0	21.08	21.48	21.18	21.35	21.22		
5	64QAM	1	0	21.23	21.56	21.41	21.30	21.52	22.3	2
5	64QAM	1	12	21.36	21.71	21.45	21.65	21.41		
5	64QAM	1	24	21.25	21.60	21.34	21.24	21.33	21.3	3
5	64QAM	12	0	20.37	20.89	20.28	20.26	20.08		
5	64QAM	12	7	20.32	20.46	20.49	20.37	20.34	19.3	5
5	64QAM	12	13	20.19	20.26	20.28	19.99	20.16		
5	64QAM	25	0	20.14	20.44	20.29	20.19	20.35	19.3	5
5	64QAM	25	1	18.18	18.37	18.24	18.14	18.28		
5	256QAM	1	12	18.34	18.27	18.34	18.34	18.28	19.3	5
5	256QAM	1	24	18.28	18.26	18.44	18.30	18.38		
5	256QAM	12	0	18.26	18.26	18.31	18.17	18.14	19.3	5
5	256QAM	12	7	18.11	18.24	18.21	18.33	18.39		
5	256QAM	12	13	18.34	18.22	18.41	18.09	18.15	19.3	5
5	256QAM	25	0	18.10	18.22	18.21	18.24	18.24		



Band 41_Ant 5 (HPUE)

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.	Turn-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)										
				39700	40165	40620	41065	41460		
				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	26.03	26.09	26.10	26.05	26.05	26.8	0
20	QPSK	1	49	26.07	26.07	26.09	26.01	26.01		
20	QPSK	50	0	25.19	25.19	25.23	25.16	25.06		
20	QPSK	50	24	25.09	25.13	25.12	25.13	25.02		
20	QPSK	50	50	25.12	25.10	25.16	25.10	25.03	25.8	1
20	QPSK	100	0	24.44	24.44	24.49	24.37	24.18		
20	16QAM	1	0	25.42	25.46	25.26	25.33	25.23		
20	16QAM	1	49	25.34	25.50	25.50	25.30	25.40		
20	16QAM	1	99	25.40	25.59	25.42	25.48	25.34	24.8	2
20	16QAM	50	0	24.17	24.16	24.12	24.09	24.00		
20	16QAM	50	24	24.27	24.27	24.17	24.19	24.04		
20	16QAM	50	50	24.23	24.27	24.24	24.20	24.09		
20	16QAM	100	0	23.42	23.44	23.33	23.35	23.20	24.8	2
20	64QAM	1	0	24.37	24.26	24.28	24.30	24.11		
20	64QAM	1	99	24.39	24.38	24.39	24.32	24.38		
20	64QAM	1	99	24.23	24.30	24.36	24.36	24.24		
20	64QAM	50	0	23.16	23.13	23.12	23.07	22.97	24.8	2
20	64QAM	50	24	23.27	23.29	23.16	23.18	23.05		
20	64QAM	50	50	23.22	23.24	23.26	23.20	23.09		
20	64QAM	100	0	23.26	23.23	23.10	23.16	23.01		
20	256QAM	1	0	20.89	20.89	21.10	20.95	20.92	21.8	5
20	256QAM	1	49	20.97	20.99	21.05	20.98	21.04		
20	256QAM	1	99	21.01	20.95	21.00	20.83	20.88		
20	256QAM	50	0	20.86	20.95	21.00	20.93	20.98		
20	256QAM	50	24	21.03	21.00	21.06	21.03	21.03	21.8	5
20	256QAM	50	50	20.89	21.07	21.07	21.01	20.99		
20	256QAM	100	0	20.89	20.93	21.02	21.01	20.97		
Channel Frequency (MHz)										
				39725	40173	40620	41066	41515	Turn-up limit (dBm)	MPR (dB)
				2549.3	2593.5	2637.8	2682.5	2726.5		
15	QPSK	1	0	25.99	25.91	25.96	25.82	25.95	26.80	0
15	QPSK	1	37	25.94	25.98	25.97	25.10	24.90		
15	QPSK	1	74	25.98	25.97	26.02	26.00	25.92		
15	QPSK	36	0	24.99	25.15	24.99	25.03	24.82		
15	QPSK	36	20	25.26	25.21	25.04	25.16	24.95	25.8	1
15	QPSK	36	39	25.19	25.10	25.23	25.17	25.00		
15	16QAM	75	0	24.44	24.26	24.24	24.34	24.11		
15	16QAM	1	0	25.35	25.43	25.14	25.17	25.18		
15	16QAM	1	37	25.20	25.39	25.54	25.12	25.28	25.8	1
15	16QAM	1	74	25.27	25.52	25.26	25.37	25.18		
15	16QAM	36	0	24.97	24.07	24.02	24.09	23.98		
15	16QAM	36	39	24.12	24.11	24.02	24.03	23.99		
15	16QAM	75	0	23.98	23.98	24.07	24.07	23.97	24.8	2
15	16QAM	75	0	23.38	23.26	23.29	23.28	23.20		
15	64QAM	1	0	24.27	24.09	24.19	24.14	23.95		
15	64QAM	1	37	24.21	24.31	24.21	24.27	24.28		
15	64QAM	1	74	24.21	24.21	24.34	24.35	24.17	24.8	2
15	64QAM	36	0	22.99	23.07	22.85	22.98	22.79		
15	64QAM	36	20	23.25	23.26	23.14	23.18	22.99		
15	64QAM	36	39	23.17	23.05	23.20	23.02	23.07		
15	64QAM	75	0	23.09	23.05	22.83	23.16	22.82	23.8	3
15	256QAM	1	0	20.96	20.94	21.07	20.93	20.94		
15	256QAM	1	37	20.94	20.83	21.02	20.89	21.01		
15	256QAM	1	74	20.99	20.81	20.99	20.77	20.74		
15	256QAM	36	0	20.75	20.80	20.89	20.75	20.98	21.8	5
15	256QAM	36	20	20.95	20.89	20.98	21.03	20.88		
15	256QAM	36	39	20.75	21.00	20.84	20.98	20.90		
15	256QAM	75	0	20.75	20.85	20.88	20.88	20.85		
Channel Frequency (MHz)										
				2501	2547	2593	2639	2685	Turn-up limit (dBm)	MPR (dB)
				2501	2547	2593	2639	2685		
10	QPSK	1	0	25.82	25.88	25.84	25.81	25.84	26.80	0
10	QPSK	1	25	25.87	25.84	26.06	26.02	25.96		
10	QPSK	1	49	25.99	25.92	25.96	25.96	25.97		
10	QPSK	25	0	25.04	25.09	25.13	25.10	24.97		
10	QPSK	25	12	25.07	25.14	25.07	25.11	24.88	25.8	1
10	QPSK	25	25	25.09	25.09	25.10	25.10	25.02		
10	QPSK	50	0	24.41	24.36	24.30	24.34	24.02		
10	16QAM	1	0	25.38	25.35	25.11	25.31	25.07		
10	16QAM	1	25	25.21	25.41	25.53	25.22	25.21	25.8	1
10	16QAM	1	49	25.29	25.50	25.30	25.28	25.28		
10	16QAM	25	0	24.04	24.00	23.99	24.05	23.99		
10	16QAM	25	12	24.09	24.21	23.99	24.13	23.96		
10	16QAM	25	25	24.04	24.13	24.05	24.15	23.90	24.8	2
10	16QAM	50	0	23.40	23.37	23.31	23.18	23.05		
10	64QAM	1	0	24.23	24.18	24.15	24.16	23.97		
10	64QAM	1	25	24.20	24.23	24.20	24.19	24.18		
10	64QAM	1	49	24.17	24.18	24.30	24.33	24.11	24.8	2
10	64QAM	25	0	23.07	22.94	23.03	22.92	22.87		
10	64QAM	25	12	23.15	23.08	23.04	23.02	22.89		
10	64QAM	25	25	23.14	23.21	23.17	23.11	23.02		
10	64QAM	50	0	22.25	22.22	23.09	23.04	22.85	23.8	3
10	64QAM	50	0	20.88	20.95	20.99	20.82	20.95		
10	256QAM	1	25	20.95	20.85	21.03	20.81	21.02		
10	256QAM	1	49	20.81	20.94	20.91	20.76	20.70		
10	256QAM	25	0	20.86	20.83	21.00	20.76	20.96	21.8	5
10	256QAM	25	12	20.95	20.82	20.98	20.96	20.95		
10	256QAM	25	25	20.75	20.89	20.94	20.83	20.99		
10	256QAM	50	0	20.80	20.81	20.93	20.85	20.89		
Channel Frequency (MHz)										
				2498.5	2545.9	2591	2638.0	2684.5	Turn-up limit (dBm)	MPR (dB)
				2498.5	2545.9	2591	2638.0	2684.5		
5	QPSK	1	0	26.01	25.88	26.05	25.87	25.85	26.80	0
5	QPSK	1	12	25.96	26.00	25.99	25.92	25.89		
5	QPSK	1	24	25.90	25.96	25.96	25.90	25.88		
5	QPSK	12	0	25.12	25.04	24.94	24.94	24.91		
5	QPSK	12	7	25.13	25.21	24.94	25.01	24.97	25.8	1
5	QPSK	12	13	25.15	25.08	25.23	25.08	25.07		
5	QPSK	25	0	24.27	24.39	24.20	24.24	24.08		
5	16QAM	1	0	25.25	25.41	25.20	25.22	25.15		
5	16QAM	1	12	25.23	25.43	25.55	25.17	25.31	25.8	1
5	16QAM	1	24	25.23	25.50	25.29	25.41	25.25		
5	16QAM	12	0	24.12	24.11	24.07	24.00	23.96		
5	16QAM	12	7	24.12	24.20	24.02	24.05	23.89		
5	16QAM	12	13	24.06	24.14	24.07	24.18	23.92	24.8	2
5	16QAM	25	0	23.24	23.33	23.15	23.20	23.19		
5	64QAM	1	0	24.24	24.15	24.16	24.22	24.02		
5	64QAM	1	12	24.33	24.30	24.33	24.19	24.21		
5	64QAM	1	24	24.21	24.14	24.34	24.24	24.05	24.8	2
5	64QAM	12	0	23.00	23.12	22.96	22.98	22.87		
5	64QAM	12	7	23.22	23.22	23.11	23.01	23.03		
5	64QAM	12	13	23.08	23.23	23.11	23.12	22.96		
5	64QAM	25	0	23.20	23.12	23.04	23.14	22.90	23.8	3
5	256QAM	1	0	20.85	20.93	20.98	20.81	20.83		
5	256QAM	1	12	20.89	20.86	20.87	20.82	20.87		
5	256QAM	1	24	20.94	20.87	20.94	20.86	20.74		
5	256QAM	12	0	20.81	20.94	20.95	20.79	20.86	21.8	5
5	256QAM	12	7	20.87	20.92	20.90	20.98	21.00		
5	256QAM	12	13	20.82	20.97	21.01	21.01	20.98		
5	256QAM	25	0	20.84	20.85	20.94	20.84	20.82		

Band 48_Ant 6

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)									
20	QPSK	1	0	19.98	19.83	19.87	19.76	20.8	4
20	QPSK	1	49	23.81	23.82	23.83	23.76	24.8	0
20	QPSK	1	99	19.91	19.89	19.86	19.73	20.8	4
20	QPSK	50	0	23.11	23.08	23.10	22.99	23.8	1
20	QPSK	50	24	23.07	23.06	23.05	22.87	23.8	1
20	QPSK	50	50	23.04	23.04	23.09	22.98	23.8	1
20	QPSK	100	0	20.18	19.98	19.89	19.90	20.8	4
20	16QAM	1	0	19.98	19.89	19.75	19.71	19.8	4
20	16QAM	1	49	23.06	22.98	22.97	22.80	23.8	1
20	16QAM	1	99	19.00	18.89	18.97	18.87	19.8	4
20	16QAM	50	0	21.98	21.88	21.95	21.90	22.8	2
20	16QAM	50	24	22.12	22.09	22.00	21.91	22.8	2
20	16QAM	50	50	22.01	21.98	21.97	21.88	22.8	2
20	16QAM	100	0	19.90	19.89	19.00	18.82	19.8	4
20	64QAM	1	0	17.69	17.74	17.81	17.73	18.0	0
20	64QAM	1	49	21.83	21.74	21.83	21.73	22.8	2
20	64QAM	1	99	17.76	17.77	17.74	17.72	18.0	0
20	64QAM	50	0	20.96	20.94	20.93	20.99	21.8	3
20	64QAM	50	24	20.96	21.00	21.01	21.01	21.8	3
20	64QAM	50	50	20.93	20.90	20.95	20.85	21.8	3
20	64QAM	100	0	17.95	18.02	17.96	18.00	18.8	6
20	256QAM	1	0	14.86	15.00	14.78	14.90	15.8	9
20	256QAM	1	49	18.91	18.92	18.89	18.82	19.8	5
20	256QAM	1	99	14.98	14.78	14.89	15.01	15.8	9
20	256QAM	50	0	18.91	18.79	18.87	18.87	19.8	5
20	256QAM	50	24	18.91	19.09	18.92	18.80	19.8	5
20	256QAM	50	50	18.82	18.80	18.89	18.97	19.8	5
20	256QAM	100	0	16.06	16.09	16.12	16.22	16.8	8
Channel Frequency (MHz)									
15	QPSK	1	0	19.90	19.91	19.98	19.89	20.8	4
15	QPSK	1	37	23.74	23.74	23.81	24.8	0	
15	QPSK	1	74	19.98	20.08	19.96	20.02	20.8	4
15	QPSK	36	0	23.08	23.01	23.01	23.09	24.8	0
15	QPSK	36	36	23.08	23.06	22.99	23.03	24.8	0
15	QPSK	36	36	23.04	22.93	23.02	22.91	24.8	0
15	QPSK	75	0	21.04	21.12	21.14	21.18	21.8	3
15	16QAM	1	0	18.17	18.24	18.20	18.29	19.8	5
15	16QAM	1	37	22.63	22.73	22.68	22.68	23.8	1
15	16QAM	1	74	18.84	18.87	18.87	18.98	19.8	5
15	16QAM	36	0	22.05	22.02	22.13	22.06	22.8	2
15	16QAM	36	20	22.05	22.09	22.04	22.11	22.8	2
15	16QAM	36	36	22.13	22.08	22.08	22.13	22.8	2
15	16QAM	75	0	22.01	22.07	22.06	22.07	22.8	2
15	64QAM	1	0	19.07	19.07	19.01	19.08	19.8	5
15	64QAM	1	37	23.28	23.21	23.23	23.25	23.8	1
15	64QAM	1	74	19.10	19.07	19.06	19.11	19.8	5
15	64QAM	36	0	21.99	22.09	22.04	22.02	22.8	2
15	64QAM	36	20	22.10	22.07	22.19	22.06	22.8	2
15	64QAM	36	36	22.15	22.05	22.08	22.15	22.8	2
15	64QAM	75	0	22.12	22.13	22.17	22.18	22.8	2
15	256QAM	1	0	14.88	14.98	15.01	14.91	15.8	9
15	256QAM	1	37	19.04	19.09	19.07	19.02	19.8	5
15	256QAM	1	74	15.00	14.96	15.01	15.04	15.8	9
15	256QAM	36	0	19.07	19.05	19.11	19.02	19.8	5
15	256QAM	36	20	19.06	19.10	19.17	19.06	19.8	5
15	256QAM	36	36	19.08	19.12	19.09	19.11	19.8	5
15	256QAM	75	0	17.15	17.17	17.25	17.11	17.8	7
Channel Frequency (MHz)									
10	QPSK	1	0	3555	3607.5	3642.5	3695	3695	0
10	QPSK	1	25	23.63	23.62	23.70	23.72	24.8	0
10	QPSK	1	49	23.83	23.80	23.85	23.86	24.8	0
10	QPSK	1	74	23.80	23.77	23.81	23.89	24.8	0
10	QPSK	25	12	23.32	23.32	23.27	23.23	23.8	1
10	QPSK	25	25	23.28	23.23	23.30	23.30	23.8	1
10	QPSK	50	0	23.29	23.24	23.25	23.22	23.8	1
10	16QAM	1	0	22.25	22.12	22.26	22.15	22.8	1
10	16QAM	1	25	22.09	22.09	22.15	22.20	22.8	1
10	16QAM	25	0	22.28	22.31	22.35	22.34	23.8	1
10	16QAM	25	12	21.32	21.34	21.23	21.30	22.8	2
10	16QAM	25	25	21.36	21.35	21.35	21.29	22.8	2
10	64QAM	1	0	21.97	21.91	21.96	21.87	22.8	2
10	64QAM	1	25	22.08	22.10	21.95	22.03	22.8	2
10	64QAM	1	49	21.92	21.97	21.98	21.93	21.8	3
10	64QAM	25	0	21.09	21.02	20.99	21.10	21.8	3
10	64QAM	25	12	21.05	21.10	21.11	21.04	21.8	3
10	64QAM	25	25	21.01	21.05	20.93	20.93	21.8	3
10	64QAM	50	0	21.02	21.16	21.15	21.03	21.8	3
10	256QAM	1	0	18.34	18.29	18.22	18.35	19.8	5
10	256QAM	1	25	19.29	19.26	19.29	19.19	19.8	5
10	256QAM	1	49	18.29	18.31	18.24	18.26	19.8	5
10	256QAM	25	0	18.13	18.25	18.25	18.15	19.8	5
10	256QAM	25	12	19.29	19.25	19.28	19.25	19.8	5
10	256QAM	25	25	19.32	19.23	19.35	19.26	19.8	5
10	256QAM	50	0	19.22	19.33	19.20	19.27	19.8	5
Channel Frequency (MHz)									
5	QPSK	1	0	23.82	23.84	23.86	23.85	24.8	0
5	QPSK	1	12	23.86	23.73	23.85	23.83	24.8	0
5	QPSK	1	24	23.89	23.77	23.81	23.89	24.8	0
5	QPSK	12	0	23.26	23.22	23.28	23.24	23.8	1
5	QPSK	12	7	23.24	23.28	23.22	23.35	23.8	1
5	QPSK	12	13	23.35	23.28	23.35	23.31	23.8	1
5	QPSK	25	0	23.15	23.27	23.15	23.29	23.8	1
5	16QAM	1	0	23.10	23.11	23.18	23.10	23.8	1
5	16QAM	1	12	23.30	23.37	23.35	23.34	23.8	1
5	16QAM	1	24	23.17	23.21	23.20	23.27	23.8	1
5	16QAM	12	0	22.10	22.18	22.12	22.21	22.8	2
5	16QAM	12	7	22.37	22.38	22.31	22.39	22.8	2
5	16QAM	12	13	22.24	22.24	22.21	22.19	22.8	2
5	16QAM	25	0	22.25	22.25	22.25	22.27	22.8	2
5	64QAM	1	0	21.90	21.89	21.83	21.85	21.8	3
5	64QAM	1	12	22.03	22.01	21.95	21.95	22.8	2
5	64QAM	1	24	22.02	21.96	21.90	21.96	21.8	3
5	64QAM	12	0	21.08	21.11	21.11	21.10	21.8	3
5	64QAM	12	7	21.10	21.12	21.07	21.08	21.8	3
5	64QAM	12	13	20.99	21.00	20.95	21.01	21.8	3
5	64QAM	25	0	21.05	21.07	21.17	21.12	21.8	3
5	256QAM	1	0	18.01	18.04	18.06	18.06	19.8	5
5	256QAM	1	12	19.20	19.23	19.12	19.13	19.8	5
5	256QAM	1	24	18.96	18.10	18.86	18.97	19.8	5
5	256QAM	12	0	19.29	19.19	19.26	19.26	19.8	5
5	256QAM	12	7	19.12	19.14	19.23	19.26	19.8	5
5	256QAM	12	13	19.30	19.31	19.29	19.22	19.8	5
5	256QAM	25	0	19.23	19.13	19.21	19.16	19.8	5

Band 48_Ant 7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Low Middle Ch / Freq.	Power High Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dbm)	MPR (db)
Channel Frequency (MHz)									
20	QPSK	1	0	22.55	22.37	22.42	22.47	23.8	0
20	QPSK	1	49	22.56	22.37	22.34	22.49		
20	QPSK	1	99	22.49	22.41	22.35	22.34		
20	QPSK	50	0	21.68	21.65	21.49	21.55		
20	QPSK	50	24	21.59	21.48	21.54	21.61	22.8	1
20	QPSK	50	50	21.55	21.44	21.49	21.49		
20	QPSK	100	0	21.60	21.52	21.58	21.56		
20	16QAM	1	0	21.65	21.55	21.52	21.52		
20	16QAM	1	49	21.66	21.49	21.47	21.52	22.8	1
20	16QAM	1	99	21.69	21.65	21.68	21.61		
20	16QAM	50	0	20.62	20.43	20.51	20.57		
20	16QAM	50	24	20.58	20.39	20.53	20.48		
20	16QAM	50	50	20.55	20.47	20.38	20.55	21.8	2
20	16QAM	100	0	20.60	20.49	20.51	20.43		
20	64QAM	1	0	20.51	20.48	20.47	20.45		
20	64QAM	1	49	20.58	20.47	20.48	20.58		
20	64QAM	1	99	20.70	20.60	20.53	20.64	21.8	2
20	64QAM	50	0	19.56	19.55	19.37	19.53		
20	64QAM	50	24	19.50	19.32	19.35	19.39		
20	64QAM	50	50	19.40	19.40	19.42	19.47		
20	64QAM	100	0	19.65	19.46	19.56	19.48	20.8	3
20	256QAM	1	0	17.65	17.48	17.46	17.54		
20	256QAM	1	49	17.62	17.60	17.60	17.43		
20	256QAM	1	99	17.60	17.46	17.54	17.58		
20	256QAM	50	0	17.68	17.41	17.43	17.44	18.8	5
20	256QAM	50	24	17.58	17.59	17.56	17.56		
20	256QAM	50	50	17.52	17.47	17.48	17.48		
20	256QAM	100	0	17.69	17.66	17.53	17.52		
Channel Frequency (MHz)									
15	QPSK	1	0	22.44	22.20	22.41	22.47	23.8	0
15	QPSK	1	27	22.36	22.22	22.17	22.41		
15	QPSK	1	74	22.30	22.28	22.16	22.30		
15	QPSK	36	0	21.65	21.46	21.30	21.59		
15	QPSK	36	40	21.40	21.47	21.43	21.59	22.8	1
15	QPSK	36	89	21.25	21.44	21.45	21.34		
15	QPSK	75	0	21.44	21.40	21.48	21.49		
15	16QAM	1	0	21.62	21.38	21.46	21.38		
15	16QAM	1	37	21.60	21.30	21.37	21.58	22.8	1
15	16QAM	1	74	21.54	21.56	21.51	21.52		
15	16QAM	36	0	20.46	20.41	20.48	20.48		
15	16QAM	36	20	20.55	20.39	20.53	20.48		
15	16QAM	36	39	20.51	20.40	20.31	20.53	21.8	2
15	16QAM	75	0	20.43	20.46	20.48	20.38		
15	16QAM	1	0	20.46	20.35	20.34	20.40		
15	64QAM	1	37	20.44	20.31	20.32	20.44		
15	64QAM	1	74	20.67	20.57	20.50	20.52	21.8	2
15	64QAM	36	0	19.47	19.36	19.18	19.41		
15	64QAM	36	20	19.49	19.22	19.25	19.32		
15	64QAM	36	48	19.48	19.35	19.38	19.35		
15	64QAM	75	0	19.63	19.29	19.39	19.37	20.8	3
15	256QAM	1	0	17.52	17.37	17.35	17.48		
15	256QAM	1	25	17.55	17.46	17.56	17.29		
15	256QAM	1	74	17.44	17.38	17.46	17.40		
15	256QAM	36	0	17.41	17.30	17.32	17.41	18.8	5
15	256QAM	36	20	17.54	17.53	17.50	17.44		
15	256QAM	36	39	17.47	17.29	17.24	17.39		
15	256QAM	75	0	17.61	17.61	17.48	17.52		
Channel Frequency (MHz)									
10	QPSK	1	0	22.51	22.26	22.25	22.33	23.8	0
10	QPSK	39	0	22.39	22.20	22.34	22.40		
10	QPSK	1	49	22.41	22.23	22.35	22.17		
10	QPSK	25	0	21.53	21.49	21.40	21.36		
10	QPSK	25	0	21.57	21.32	21.45	21.39	22.8	1
10	QPSK	25	25	21.38	21.26	21.36	21.39		
10	QPSK	50	0	21.55	21.44	21.54	21.48		
10	16QAM	1	0	21.47	21.42	21.50	21.38		
10	16QAM	1	25	21.53	21.49	21.33	21.54	22.8	1
10	16QAM	1	50	21.55	21.58	21.61	21.50		
10	16QAM	25	0	20.50	20.43	20.51	20.47		
10	16QAM	25	12	20.53	20.37	20.51	20.29		
10	16QAM	25	25	20.51	20.35	20.39	20.43	21.8	2
10	16QAM	50	0	20.51	20.31	20.33	20.38		
10	64QAM	1	0	20.42	20.48	20.47	20.30		
10	64QAM	1	49	20.46	20.29	20.28	20.40		
10	64QAM	1	49	20.59	20.51	20.44	20.49	20.8	3
10	64QAM	25	0	19.55	19.39	19.21	19.36		
10	64QAM	25	49	19.49	19.28	19.31	19.42		
10	64QAM	25	25	19.42	19.38	19.40	19.38		
10	64QAM	50	0	19.50	19.27	19.37	19.36	18.8	5
10	256QAM	1	49	17.46	17.46	17.44	17.30		
10	256QAM	1	25	17.58	17.60	17.80	17.40		
10	256QAM	1	49	17.59	17.28	17.36	17.38		
10	256QAM	25	12	17.58	17.27	17.38	17.37	18.8	5
10	256QAM	25	12	17.54	17.55	17.52	17.39		
10	256QAM	25	25	17.34	17.47	17.42	17.44		
10	256QAM	50	0	17.52	17.56	17.43	17.47		
Channel Frequency (MHz)									
5	QPSK	1	0	22.52	22.37	22.43	22.35	23.8	0
5	QPSK	1	12	22.41	22.35	22.26	22.37		
5	QPSK	1	24	22.35	22.40	22.16	22.20		
5	QPSK	12	0	21.62	21.51	21.34	21.41		
5	QPSK	12	7	21.55	21.35	21.48	21.38	22.8	1
5	QPSK	12	13	21.42	21.44	21.42	21.39		
5	QPSK	25	0	21.51	21.43	21.47	21.37		
5	16QAM	1	0	21.63	21.52	21.40	21.43		
5	16QAM	1	12	21.61	21.34	21.28	21.69	22.8	1
5	16QAM	1	24	21.61	21.60	21.54	21.42		
5	16QAM	12	0	20.54	20.39	20.47	20.41		
5	16QAM	12	7	20.45	20.29	20.43	20.38		
5	16QAM	25	0	20.40	20.28	20.19	20.44	21.8	2
5	16QAM	25	0	20.46	20.44	20.46	20.25		
5	16QAM	25	12	20.46	20.37	20.36	20.32		
5	16QAM	1	12	20.55	20.45	20.46	20.40		
5	64QAM	1	24	20.58	20.59	20.52	20.58	20.8	3
5	64QAM	12	0	19.43	19.54	19.36	19.52		
5	64QAM	12	7	19.48	19.13	19.16	19.33		
5	64QAM	12	13	19.32	19.30	19.32	19.28		
5	64QAM	25	0	19.57	19.41	19.45	19.47	18.8	5
5	256QAM	1	12	17.59	17.35	17.33	17.41		
5	256QAM	1	12	17.61	17.41	17.41	17.24		
5	256QAM	1	12	17.42	17.28	17.36	17.54		
5	256QAM	12	0	17.40	17.33	17.35	17.32	18.8	5
5	256QAM	12	7	17.63	17.50	17.47	17.54		
5	256QAM	12	13	17.51	17.33	17.48	17.44		
5	256QAM	25	0	17.57	17.49	17.36	17.35		

Band 48_Ant 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)				55340 3590	55530 3690	56150 3641	56640 3690		
20	QPSK	1	0	23.57	23.42	23.44	23.31	24.8	0
20	QPSK	1	49	23.53	23.27	23.35	23.31		
20	QPSK	1	99	23.49	23.38	23.41	23.39		
20	QPSK	50	0	22.66	22.57	22.43	22.35		
20	QPSK	50	24	22.60	22.47	22.51	22.40	23.8	1
20	QPSK	50	50	22.56	22.38	22.38	22.39		
20	QPSK	100	0	22.60	22.49	22.50	22.40		
20	16QAM	1	0	22.72	22.59	22.48	22.45		
20	16QAM	1	49	22.70	22.58	22.35	22.39	23.8	1
20	16QAM	1	99	22.51	22.40	22.45	22.39		
20	16QAM	50	0	21.65	21.43	21.31	21.44		
20	16QAM	50	24	21.60	21.43	21.38	21.47		
20	16QAM	50	50	21.55	21.54	21.32	21.36	22.8	2
20	16QAM	100	0	21.54	21.34	21.50	21.46		
20	84QAM	1	0	21.63	21.41	21.42	21.39		
20	84QAM	1	49	21.67	21.37	21.33	21.35		
20	84QAM	1	99	21.60	21.51	21.40	21.49	22.8	2
20	84QAM	50	0	20.55	20.38	20.27	20.38		
20	84QAM	50	24	20.50	20.32	20.39	20.33		
20	84QAM	100	0	20.58	20.40	20.30	20.37		
20	84QAM	100	0	20.50	20.31	20.21	20.31	21.8	3
20	256QAM	1	0	18.50	18.58	18.54	18.49		
20	256QAM	1	49	18.55	18.64	18.64	18.65		
20	256QAM	1	99	18.53	18.59	18.48	18.50		
20	256QAM	50	0	18.58	18.65	18.57	18.52		
20	256QAM	50	24	18.61	18.61	18.58	18.56	19.8	5
20	256QAM	50	50	18.56	18.64	18.61	18.48		
20	256QAM	100	0	18.55	18.63	18.54	18.56		
Channel Frequency (MHz)				55515 3608	55600 3690	56150 3641	56640 3690	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	23.45	23.24	23.41	23.30	24.8	0
15	QPSK	1	49	23.53	23.17	23.17	23.29		
15	QPSK	1	74	23.38	23.18	23.31	23.31		
15	QPSK	36	0	22.61	22.46	22.30	22.18		
15	QPSK	36	20	22.43	22.46	22.18	22.29	23.8	1
15	QPSK	36	36	22.38	22.20	22.37	22.37		
15	QPSK	75	0	22.52	22.38	22.37	22.25		
15	16QAM	1	0	22.60	22.33	22.37	22.44		
15	16QAM	1	37	22.65	22.42	22.20	22.25	23.8	1
15	16QAM	1	74	22.37	22.37	22.30	22.32		
15	16QAM	36	0	21.52	21.46	21.14	21.26		
15	16QAM	36	20	21.59	21.27	21.20	21.30		
15	16QAM	36	36	21.41	21.32	21.32	21.27	22.8	2
15	16QAM	75	0	21.47	21.48	21.32	21.43		
15	84QAM	1	0	21.61	21.31	21.32	21.21		
15	84QAM	1	37	21.49	21.25	21.21	21.28		
15	84QAM	1	74	21.45	21.34	21.23	21.42	22.8	2
15	84QAM	36	0	20.40	20.39	20.27	20.32		
15	84QAM	36	20	20.32	20.32	20.30	20.15		
15	84QAM	36	36	20.40	20.22	20.12	20.26		
15	84QAM	75	0	20.34	20.24	20.14	20.29	21.8	3
15	256QAM	1	0	18.48	18.46	18.42	18.32		
15	256QAM	1	37	18.48	18.57	18.57	18.57		
15	256QAM	1	74	18.46	18.56	18.45	18.46		
15	256QAM	36	0	18.43	18.51	18.53	18.45	19.8	5
15	256QAM	36	20	18.57	18.56	18.53	18.46		
15	256QAM	36	36	18.51	18.63	18.60	18.38		
15	256QAM	75	0	18.40	18.60	18.60	18.43		
Channel Frequency (MHz)				55570 3615	55655 3697.5	56170 3641.5	56675 3691.5	Tune-up limit (dBm)	
10	QPSK	1	0	23.45	23.38	23.35	23.30	24.8	0
10	QPSK	1	25	23.46	23.21	23.27	23.27		
10	QPSK	1	49	23.36	23.31	23.41	23.35		
10	QPSK	25	12	22.44	22.42	22.30	22.30		
10	QPSK	25	12	22.48	22.29	22.19	22.25	23.8	1
10	QPSK	25	25	22.51	22.28	22.23	22.27		
10	QPSK	50	0	22.43	22.43	22.41	22.37		
10	16QAM	1	0	22.58	22.35	22.29	22.42		
10	16QAM	1	25	22.55	22.53	22.23	22.38	23.8	1
10	16QAM	1	49	22.37	22.29	22.34	22.30		
10	16QAM	25	0	21.46	21.27	21.15	21.40		
10	16QAM	25	12	21.58	21.37	21.30	21.44		
10	16QAM	25	12	21.52	21.47	21.25	21.30	22.8	2
10	16QAM	50	0	21.54	21.51	21.37	21.43		
10	84QAM	1	0	21.54	21.32	21.33	21.32		
10	84QAM	1	25	21.50	21.30	21.36	21.21		
10	84QAM	1	49	21.56	21.47	21.36	21.39	22.8	2
10	84QAM	25	0	20.50	20.20	20.06	20.33		
10	84QAM	25	12	20.35	20.28	20.35	20.29		
10	84QAM	25	25	20.54	20.37	20.27	20.22		
10	84QAM	50	0	20.43	20.17	20.07	20.17	21.8	3
10	256QAM	1	0	18.40	18.56	18.52	18.45		
10	256QAM	1	25	18.42	18.45	18.45	18.53		
10	256QAM	1	49	18.45	18.45	18.29	18.47		
10	256QAM	25	0	18.44	18.56	18.48	18.45	19.8	5
10	256QAM	25	12	18.57	18.48	18.45	18.55		
10	256QAM	25	25	18.45	18.50	18.47	18.53		
10	256QAM	50	0	18.48	18.57	18.48	18.55		
Channel Frequency (MHz)				55626 3680	55670 3691.5	56179 3641.5	56675 3691.5	Tune-up limit (dBm)	
5	QPSK	1	0	23.53	23.25	23.24	23.14	24.8	0
5	QPSK	1	12	23.46	23.39	23.16	23.19		
5	QPSK	1	24	23.40	23.21	23.25	23.26		
5	QPSK	12	0	22.43	22.40	22.40	22.19		
5	QPSK	12	7	22.45	22.38	22.15	22.25	23.8	1
5	QPSK	12	13	22.37	22.30	22.34	22.29		
5	QPSK	25	0	22.55	22.39	22.37	22.39		
5	16QAM	1	0	22.60	22.35	22.46	22.44		
5	16QAM	1	12	22.52	22.47	22.32	22.34	23.8	1
5	16QAM	1	24	22.44	22.38	22.30	22.39		
5	16QAM	12	0	21.54	21.40	21.28	21.38		
5	16QAM	12	7	21.45	21.37	21.30	21.37		
5	16QAM	12	13	21.45	21.52	21.30	21.22	22.8	2
5	16QAM	25	0	21.51	21.64	21.50	21.38		
5	84QAM	1	0	21.51	21.38	21.37	21.28		
5	84QAM	1	12	21.64	21.19	21.15	21.17		
5	84QAM	1	24	21.48	21.39	21.28	21.42	21.8	3
5	84QAM	12	0	20.55	20.29	20.17	20.38		
5	84QAM	12	7	20.43	20.16	20.23	20.27		
5	84QAM	12	13	20.54	20.32	20.22	20.19		
5	84QAM	25	0	20.33	20.12	20.02	20.22	19.8	5
5	256QAM	1	0	18.45	18.42	18.38	18.40		
5	256QAM	1	12	18.45	18.53	18.53	18.57		
5	256QAM	1	24	18.38	18.48	18.37	18.37		
5	256QAM	12	0	18.49	18.54	18.46	18.42		
5	256QAM	12	7	18.58	18.43	18.40	18.56	19.8	5
5	256QAM	12	13	18.54	18.58	18.55	18.44		
5	256QAM	25	0	18.51	18.62	18.53	18.41		

Band 48_Ant 13

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel Frequency (MHz)											
20	QPSK	1	0	55340	55580	56100	56640	20.8	4		
20	QPSK	1	49	19.71	19.65	19.56	19.60				
20	QPSK	1	99	19.73	19.63	19.58	19.67				
20	QPSK	50	0	22.84	22.85	22.72	22.76				
20	QPSK	50	24	22.80	22.68	22.70	22.79	23.8	1		
20	QPSK	50	50	22.81	22.68	22.66	22.63				
20	QPSK	100	0	19.90	19.79	19.84	19.75				
20	16QAM	1	0	18.64	18.54	18.60	18.63		19.8	5	
20	16QAM	1	49	22.66	22.47	22.57	22.54				
20	16QAM	1	99	18.66	18.57	18.61	18.59				
20	16QAM	50	0	21.85	21.77	21.61	21.72				
20	16QAM	50	24	21.88	21.77	21.77	21.79	22.8	2		
20	16QAM	50	50	21.81	21.61	21.73	21.72				
20	16QAM	100	0	18.61	18.65	18.76	18.65				
20	16QAM	1	0	17.75	17.67	17.63	17.70		18.8	6	
20	16QAM	1	49	21.85	21.65	21.80	21.78				
20	16QAM	1	99	17.79	17.74	17.74	17.70				
20	16QAM	50	0	20.87	20.72	20.72	20.75				
20	84QAM	1	49	21.85	21.75	21.73	20.81	21.8	3		
20	84QAM	50	24	20.86	20.73	20.73	20.84				
20	84QAM	50	50	20.81	20.72	20.73	20.84				
20	84QAM	100	0	17.91	17.84	17.74	17.86				
20	256QAM	1	0	14.87	14.86	14.77	14.81	15.8	8		
20	256QAM	1	49	18.67	18.63	18.63	18.62				
20	256QAM	1	99	14.80	14.70	14.61	14.69				
20	256QAM	50	0	18.63	18.64	18.65	18.64				
20	256QAM	50	24	18.62	18.74	18.66	18.72	19.8	5		
20	256QAM	50	50	18.61	18.67	18.63	18.65				
20	256QAM	100	0	15.88	15.68	15.73	15.71				
20	256QAM	100	0	15.88	15.68	15.73	15.71				
Channel Frequency (MHz)											
15	QPSK	1	0	3557.5	3608	3642	3692.5	16.8	MPR (dB)		
15	QPSK	1	0	19.63	19.51	19.43	19.43				
15	QPSK	1	37	21.66	21.56	21.40	21.55				
15	QPSK	1	74	19.68	19.58	19.50	19.50				
15	QPSK	36	0	22.82	22.65	22.76	22.62	23.8	1		
15	QPSK	36	36	22.67	22.75	22.75	22.68				
15	QPSK	36	39	22.77	22.69	22.72	22.72				
15	QPSK	75	0	20.92	20.75	20.81	20.75				
15	16QAM	1	0	17.68	17.74	17.72	17.70	21.8	3		
15	16QAM	1	37	21.95	21.90	21.75	21.76				
15	16QAM	1	74	17.75	17.58	17.62	17.67				
15	16QAM	36	36	20.88	20.69	20.66	20.71				
15	16QAM	36	20	20.88	20.81	20.74	20.81	18.8	6		
15	16QAM	36	39	18.74	18.58	18.50	18.50				
15	16QAM	36	39	18.62	18.50	18.53	18.47				
15	16QAM	1	0	18.76	18.60	18.71	18.70				
15	16QAM	1	37	22.79	22.72	22.71	22.74	23.8	1		
15	16QAM	1	74	18.75	18.62	18.56	18.62				
15	16QAM	36	0	21.83	21.67	21.73	21.77				
15	16QAM	36	20	21.83	21.66	21.71	21.68				
15	16QAM	36	39	21.79	21.66	21.73	21.61	22.8	2		
15	16QAM	75	0	19.81	19.66	19.68	19.62				
15	256QAM	1	0	14.77	14.69	14.61	14.64				
15	256QAM	1	37	18.74	18.66	18.65	18.67				
15	256QAM	1	74	14.76	14.59	14.60	14.60	15.8	9		
15	256QAM	36	0	18.84	18.64	18.74	18.66				
15	256QAM	36	0	18.85	18.67	18.77	18.70				
15	256QAM	36	39	18.80	18.74	18.61	18.66				
15	256QAM	75	0	16.88	16.62	16.74	16.75	19.8	7		
15	256QAM	75	0	16.88	16.62	16.74	16.75				
Channel Frequency (MHz)											
10	QPSK	1	0	3557.5	3607.5	3642.5	3692.5			Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	23.70	23.78	23.78	23.72				
10	QPSK	1	25	23.70	23.72	23.74	23.79				
10	QPSK	1	49	23.78	23.75	23.75	23.76				
10	QPSK	1	12	22.84	22.84	22.84	22.81	23.8	0		
10	QPSK	25	12	22.82	22.80	22.86	22.82				
10	QPSK	25	25	23.03	22.95	22.94	22.77				
10	QPSK	50	0	22.68	22.68	22.84	22.88				
10	16QAM	1	0	21.97	21.93	21.93	21.88	23.8	1		
10	16QAM	1	25	21.97	21.88	21.91	21.83				
10	16QAM	1	49	21.97	21.90	21.85	21.84				
10	16QAM	25	0	20.97	20.82	20.85	21.08				
10	16QAM	25	12	21.05	20.89	20.99	20.91	22.8	2		
10	16QAM	25	25	20.86	20.81	20.80	20.87				
10	16QAM	50	0	21.01	20.89	20.93	20.92				
10	84QAM	1	0	21.89	21.85	21.78	21.88				
10	84QAM	1	25	21.87	21.87	21.86	21.81	22.8	2		
10	84QAM	1	49	21.87	21.80	21.82	21.78				
10	84QAM	1	99	21.87	21.80	21.82	21.78				
10	84QAM	25	0	20.93	20.85	20.84	20.95				
10	84QAM	25	12	20.92	20.84	20.96	20.97	21.8	3		
10	84QAM	25	25	20.95	20.84	20.83	20.81				
10	84QAM	50	0	20.92	20.86	20.84	20.96				
10	256QAM	1	0	18.15	18.03	18.08	18.04				
10	256QAM	1	25	18.06	18.05	18.09	18.06	19.8	5		
10	256QAM	1	49	19.08	19.02	19.04	18.98				
10	256QAM	25	0	19.02	19.01	19.05	19.08				
10	256QAM	25	12	18.96	19.02	19.07	19.10				
10	256QAM	25	25	19.06	19.09	19.09	19.10	19.8	5		
10	256QAM	25	0	19.04	19.07	19.07	19.02				
Channel Frequency (MHz)											
5	QPSK	1	0	5525.5	5580	56170	56715			Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	12	23.71	23.79	23.74	23.78				
5	QPSK	1	24	23.74	23.79	23.73	23.76				
5	QPSK	1	12	22.89	22.81	22.85	22.94				
5	QPSK	12	7	22.88	22.74	22.86	22.77	23.8	1		
5	QPSK	12	13	22.83	22.82	22.82	22.79				
5	QPSK	25	0	21.89	21.88	21.87	21.84				
5	16QAM	1	0	21.89	21.88	21.87	21.84				
5	16QAM	1	12	21.82	21.81	21.84	21.86	23.8	1		
5	16QAM	1	24	21.82	21.81	21.84	21.86				
5	16QAM	12	7	20.81	20.89	21.07	20.81				
5	16QAM	12	13	20.81	20.89	21.07	20.81				
5	16QAM	25	0	20.78	20.85	20.90	20.87	19.8	2		
5	16QAM	25	0	21.68	21.68	21.61	21.61				
5	84QAM	1	12	21.84	21.85	21.90	21.89				
5	84QAM	1	24	21.82	21.79	21.74	21.72				
5	84QAM	12	7	20.88	20.96	20.96	20.89	21.8	3		
5	84QAM	12	7	20.99	20.94	20.87	20.89				
5	84QAM	12	13	20.96	20.94	20.96	20.90				
5	84QAM	25	0	20.83	20.84	20.84	20.84				
5	256QAM	1	12	19.03	19.03	19.02	18.95	19.8	5		
5	256QAM	1	12	19.03	18.95	19.00	19.03				
5	256QAM	1	24	19.05	18.98	19.05	19.08				
5	256QAM	12	0	18.97	19.08	19.08	19.05				
5	256QAM	12	7	18.96	19.08	18.95	19.00	19.8	5		
5	256QAM	12	13	19.03	19.05	19.07	19.02				
5	256QAM	25	0	19.05	19.02	19.05	19.06				
5	256QAM	25	0	19.05	19.02	19.05	19.06				



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	24.2	0.0
Frequency (MHz)				1860	1880	1900		
20	PV2 BPSK	1	1	22.25	22.28	22.26		
20	PV2 BPSK	1	53	22.24	22.27	22.23		
20	PV2 BPSK	1	104	22.22	22.20	22.24	23.7	0.5
20	PV2 BPSK	50	0	21.77	21.91	21.83		
20	PV2 BPSK	50	28	22.23	22.25	22.30		
20	PV2 BPSK	50	56	21.80	21.83	21.75		
20	PV2 BPSK	100	0	21.82	21.89	21.75	24.2	0.0
20	QPSK	1	1	22.95	23.08	22.98		
20	QPSK	1	53	22.84	23.07	23.05		
20	QPSK	1	104	22.89	23.00	22.94		
20	QPSK	50	0	22.30	22.37	22.20	24.2	0.9
20	QPSK	50	28	22.81	22.91	22.75		
20	QPSK	50	56	22.35	22.38	22.22		
20	QPSK	100	0	22.25	22.37	22.30		
20	16QAM	1	1	21.32	21.44	21.27	24.2	1.0
20	16QAM	1	1	20.32	20.40	20.32		
20	256QAM	1	1	19.88	19.92	19.92		
Channel				371500	376000	380500		
Frequency (MHz)				1857.5	1860	1862.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.89	22.94	22.80	24.2	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1860	1865	24.2	0.0
10	QPSK	1	1	22.87	22.89	22.83	24.2	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1860	1867.5	24.2	0.0
5	QPSK	1	1	22.85	22.90	22.85	24.2	0.0

n2 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				372000	376000	380000	25.2	0.0
Frequency (MHz)				1860	1880	1900		
20	PV2 BPSK	1	1	23.36	23.46	23.29		
20	PV2 BPSK	1	53	23.45	23.50	23.41		
20	PV2 BPSK	1	104	23.34	23.49	23.35	24.7	0.5
20	PV2 BPSK	50	0	23.18	23.20	23.18		
20	PV2 BPSK	50	28	23.47	23.48	23.38		
20	PV2 BPSK	50	56	23.30	23.33	23.17		
20	PV2 BPSK	100	0	23.25	23.30	23.28	24.7	0.5
20	QPSK	1	1	24.17	24.20	24.11		
20	QPSK	1	53	24.13	24.18	23.99		
20	QPSK	1	104	24.08	24.17	24.08		
20	QPSK	50	0	23.45	23.53	23.52	24.2	1.0
20	QPSK	50	28	23.97	24.10	23.94		
20	QPSK	50	56	23.43	23.53	23.50		
20	QPSK	100	0	23.19	23.30	23.18		
20	16QAM	1	1	22.95	23.05	22.94	24.2	1.0
20	16QAM	1	1	21.84	21.80	21.74		
20	256QAM	1	1	19.89	19.97	19.80		
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1860	1862.5	24.2	0.0
15	QPSK	1	1	24.10	24.14	24.16	25.2	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1860	1865	25.2	0.0
10	QPSK	1	1	24.13	24.11	24.07	25.2	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1860	1867.5	24.01	0.0
5	QPSK	1	1	24.16	24.12	24.01	25.2	0.0



n2 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				372000	376000	380000	24.7	0.0
Frequency (MHz)				1860	1880	1900		
20	PV2 BPSK	1	1	22.72	22.85	22.75		
20	PV2 BPSK	1	53	22.77	22.77	22.70		
20	PV2 BPSK	1	104	22.79	22.79	22.72	24.2	0.5
20	PV2 BPSK	50	0	22.82	22.55	22.60		
20	PV2 BPSK	50	28	22.72	22.60	22.75		
20	PV2 BPSK	50	56	22.86	22.60	22.68		
20	PV2 BPSK	100	0	22.85	22.58	22.62	24.7	0.0
20	QPSK	1	1	23.52	23.62	23.52		
20	QPSK	1	53	23.43	23.55	23.48		
20	QPSK	1	104	23.38	23.52	23.47		
20	QPSK	50	0	22.38	22.52	22.52	23.7	1.0
20	QPSK	50	28	23.53	23.58	23.53	24.7	0.9
20	QPSK	50	56	22.51	22.50	22.48	23.7	1.0
20	QPSK	100	0	22.43	22.49	22.45	23.7	1.0
20	16QAM	1	1	22.42	22.50	22.32	23.7	1.0
20	16QAM	1	1	21.27	21.33	21.22	22.2	2.5
20	256QAM	1	1	19.14	19.19	19.05	20.2	4.5
Channel				371500	376000	380500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)
15	QPSK	1	1	23.56	23.58	23.54	24.7	0.0
Channel				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)
10	QPSK	1	1	23.51	23.49	23.42	23.7	0.0
Channel				370500	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)
5	QPSK	1	1	23.52	23.40	23.50	24.7	0.0

n2 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				372000	376000	380000	23.7	0.0
Frequency (MHz)				1860	1880	1900		
20	PV2 BPSK	1	1	21.95	21.95	21.80		
20	PV2 BPSK	1	53	21.86	21.89	21.75		
20	PV2 BPSK	1	104	21.73	21.85	21.83	23.2	0.5
20	PV2 BPSK	50	0	21.68	21.87	21.80		
20	PV2 BPSK	50	28	21.63	21.82	21.69		
20	PV2 BPSK	50	56	21.72	21.79	21.67		
20	PV2 BPSK	100	0	21.70	21.81	21.82	23.2	0.5
20	QPSK	1	1	22.42	22.50	22.48	23.7	0.0
20	QPSK	1	53	22.27	22.45	22.28		
20	QPSK	1	104	22.37	22.48	22.42		
20	QPSK	50	0	21.32	21.45	21.38		
20	QPSK	50	28	22.35	22.48	22.27	23.7	0.9
20	QPSK	50	56	21.25	21.44	21.38	22.7	1.0
20	QPSK	100	0	21.46	21.53	21.48	22.7	1.0
20	16QAM	1	1	21.51	21.80	21.51	22.7	1.0
20	16QAM	1	1	20.37	20.42	20.37	21.2	2.5
20	256QAM	1	1	18.22	18.22	18.09	19.2	4.5
Channel				371500	376000	380500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)
15	QPSK	1	1	22.41	22.38	22.38	23.7	0.0
Channel				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)
10	QPSK	1	1	22.30	22.36	22.25	23.7	0.0
Channel				370500	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)
5	QPSK	1	1	22.38	22.09	22.24	23.7	0.0



n5 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	24.7	0.0
Frequency (MHz)				834	838.5	839		
20	PV2 BPSK	1	1	23.87	23.90	23.80		
20	PV2 BPSK	1	53	23.76	23.90	23.90		
20	PV2 BPSK	1	104	23.74	23.88	23.69	24.2	0.5
20	PV2 BPSK	50	0	23.32	23.48	23.40		
20	PV2 BPSK	50	28	23.88	23.94	23.85		
20	PV2 BPSK	50	56	23.49	23.55	23.47		
20	PV2 BPSK	100	0	23.46	23.47	23.44	24.7	0.0
20	QPSK	1	1	23.97	23.95	23.85		
20	QPSK	1	53	23.89	23.85	23.81		
20	QPSK	1	104	23.83	23.87	23.82		
20	QPSK	50	0	23.42	23.42	23.57	24.7	0.0
20	QPSK	50	28	23.88	23.92	23.90		
20	QPSK	50	56	23.99	23.49	23.53		
20	QPSK	100	0	23.43	23.55	23.53		
20	16QAM	1	1	23.54	23.50	23.65	24.7	0.0
20	16QAM	1	1	22.00	21.92	21.88		
20	256QAM	1	1	20.08	19.91	20.05		
Channel				168300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				834.5	838.5	844	(dBm)	(dB)
15	QPSK	1	1	23.71	23.88	23.74	24.7	0.0
Channel				165800	167300	165800	Tune-up limit	MPR
Frequency (MHz)				829	838.5	844	(dBm)	(dB)
10	QPSK	1	1	23.73	23.93	23.71	24.7	0.0
Channel				165300	167300	165300	Tune-up limit	MPR
Frequency (MHz)				828.5	838.5	846.5	(dBm)	(dB)
5	QPSK	1	1	23.71	23.82	23.67	24.7	0.0

n5 Ant 1								
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	25.2	0.0
Frequency (MHz)				834	838.5	839		
20	PV2 BPSK	1	1	23.98	23.95	23.93		
20	PV2 BPSK	1	53	23.77	23.95	23.83		
20	PV2 BPSK	1	104	23.90	23.92	23.88	24.7	0.5
20	PV2 BPSK	50	0	23.70	23.77	23.71		
20	PV2 BPSK	50	28	23.83	23.97	23.90		
20	PV2 BPSK	50	56	23.40	23.40	23.34		
20	PV2 BPSK	100	0	23.38	23.50	23.31	24.7	0.0
20	QPSK	1	1	23.91	24.00	23.87		
20	QPSK	1	53	23.74	23.90	23.81		
20	QPSK	1	104	23.89	23.96	23.78		
20	QPSK	50	0	23.45	23.50	23.49	24.2	1.0
20	QPSK	50	28	23.90	23.95	23.88		
20	QPSK	50	56	23.96	23.99	23.92		
20	QPSK	100	0	23.50	23.58	23.52		
20	16QAM	1	1	23.55	23.56	23.60	24.2	1.0
20	16QAM	1	1	22.08	22.00	22.05		
20	256QAM	1	1	20.11	20.12	20.11		
Channel				168300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				834.5	838.5	844.2	(dBm)	(dB)
15	QPSK	1	1	23.95	23.99	23.93	25.2	0.0
Channel				165800	167300	165800	Tune-up limit	MPR
Frequency (MHz)				829	838.5	844	(dBm)	(dB)
10	QPSK	1	1	23.87	23.95	23.93	25.2	0.0
Channel				165300	167300	165300	Tune-up limit	MPR
Frequency (MHz)				828.5	838.5	846.2	(dBm)	(dB)
5	QPSK	1	1	23.98	23.94	23.81	25.2	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				504000	507000	510000	23.5	0.0	
Frequency (MHz)				2520	2535	2550			
40	PV2 BPSK	1	1	22.00	22.02	21.94			
40	PV2 BPSK	1	108	21.95	22.06	21.97			
40	PV2 BPSK	1	214	21.90	22.00	21.97	23.0	0.5	
40	PV2 BPSK	108	0	21.02	21.20	21.11			
40	PV2 BPSK	108	54	21.96	22.00	21.81			
40	PV2 BPSK	108	106	21.04	21.19	21.13			
40	PV2 BPSK	216	0	21.00	21.11	21.04	23.0	0.5	
40	QPSK	1	1	22.06	22.10	22.01			
40	QPSK	1	108	21.93	21.95	21.83			
40	QPSK	1	214	21.94	21.98	21.95	22.5	1.0	
40	QPSK	108	0	21.49	21.48	21.55			
40	QPSK	108	54	22.09	22.10	22.05			
40	QPSK	108	108	21.55	21.55	21.51			
40	QPSK	216	0	21.96	21.98	21.84	22.5	1.0	
40	16QAM	1	1	21.94	21.95	21.95			
40	64QAM	1	1	20.03	20.00	20.10			
40	256QAM	1	1	18.13	18.15	18.25			
Channel <th>503000</th> <th>507000</th> <th>511000</th> <th>Tune-up limit</th> <th colspan="2">MPR</th>				503000	507000	511000	Tune-up limit	MPR	
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)	
30	QPSK	1	1	21.98	22.02	21.82	23.5	0.0	
Channel				502500	507000	511500	Tune-up limit	MPR	
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)	
25	QPSK	1	1	21.97	21.95	21.93	23.5	0.0	
Channel				502000	507000	512000	Tune-up limit	MPR	
Frequency (MHz)				2510	2530	2550	(dBm)	(dB)	
20	QPSK	1	1	22.00	21.95	21.89	23.5	0.0	
Channel				501500	507000	512500	Tune-up limit	MPR	
Frequency (MHz)				2507.5	2535	2557.5	(dBm)	(dB)	
15	QPSK	1	1	21.99	21.92	21.85	23.5	0.0	
Channel				501000	507000	513000	Tune-up limit	MPR	
Frequency (MHz)				2505	2535	2555	(dBm)	(dB)	
10	QPSK	1	1	21.95	22.05	21.76	23.5	0.0	
Channel				500500	507000	513500	Tune-up limit	MPR	
Frequency (MHz)				2500.5	2535	2557.5	(dBm)	(dB)	
5	QPSK	1	1	21.97	21.91	21.82	23.5	0.0	

n7 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				504000	507000	510000	24.7	0.0	
Frequency (MHz)				2520	2535	2550			
40	PV2 BPSK	1	1	23.01	23.15	23.16			
40	PV2 BPSK	1	108	23.00	23.17	23.10			
40	PV2 BPSK	1	214	22.96	23.15	23.13	24.2	0.5	
40	PV2 BPSK	108	0	22.94	22.98	22.92			
40	PV2 BPSK	108	54	23.15	23.16	23.16			
40	PV2 BPSK	108	108	22.31	22.35	22.29			
40	PV2 BPSK	216	0	22.25	22.33	22.16	24.2	0.5	
40	QPSK	1	1	23.10	23.20	23.09			
40	QPSK	1	108	23.01	23.14	22.98			
40	QPSK	1	214	23.06	23.16	23.05	23.7	1.0	
40	QPSK	108	0	22.99	22.95	22.87			
40	QPSK	108	54	23.09	23.19	23.11			
40	QPSK	108	108	22.89	22.89	23.01			
40	QPSK	216	0	22.91	22.98	22.95	23.7	1.0	
40	16QAM	1	1	22.73	22.85	22.63			
40	16QAM	1	1	21.49	21.35	21.50			
40	256QAM	1	1	19.44	19.33	19.44			
Channel				503000	507000	511000	Tune-up limit (dbm)	MPR	
Frequency (MHz)				2315	2535	2555	(dbm)	(db)	
30	QPSK	1	1	22.84	23.16	23.12	24.7	0.0	
Channel				502500	507000	511500	Tune-up limit (dbm)	MPR	
Frequency (MHz)				2512.5	2535	2557.5	(dbm)	(db)	
25	QPSK	1	1	23.01	23.01	23.08	24.7	0.0	
Channel				502000	507000	512000	Tune-up limit (dbm)	MPR	
Frequency (MHz)				2310	2530	2550	(dbm)	(db)	
20	QPSK	1	1	22.93	23.11	23.10	24.7	0.0	
Channel				501500	507000	512500	Tune-up limit (dbm)	MPR	
Frequency (MHz)				2507.5	2535	2557.5	(dbm)	(db)	
15	QPSK	1	1	22.92	23.14	23.05	24.7	0.0	
Channel				501000	507000	513000	Tune-up limit (dbm)	MPR	
Frequency (MHz)				2305	2535	2555	(dbm)	(db)	
10	QPSK	1	1	22.97	23.17	23.00	24.7	0.0	
Channel				500500	507000	513500	Tune-up limit (dbm)	MPR	
Frequency (MHz)				2302.5	2535	2557.5	(dbm)	(db)	
5	QPSK	1	1	22.97	23.19	23.12	24.7	0.0	



n7 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				50000	50700	51000			
Frequency (MHz)				2520	2535	2550			
40	PV2 BPSK	1	1	22.71	22.88	22.84	24.2	0.0	
40	PV2 BPSK	1	108	22.78	22.82	22.76			
40	PV2 BPSK	1	214	22.66	22.78	22.70			
40	PV2 BPSK	108	0	21.86	21.80	21.83			
40	PV2 BPSK	108	54	22.58	22.69	22.62	23.7	0.5	0.0
40	PV2 BPSK	108	106	21.71	21.88	21.83	23.2	0.5	
40	PV2 BPSK	216	0	21.87	21.86	21.76			
40	QPSK	1	1	22.88	22.90	22.85			
40	QPSK	1	106	22.89	22.77	22.59			
40	QPSK	1	214	22.88	22.80	22.63	24.2	0.0	0.0
40	QPSK	108	0	22.43	22.30	22.39	23.2	1.0	0.0
40	QPSK	108	54	22.84	22.88	22.73	23.2	1.0	0.0
40	QPSK	108	108	22.19	22.15	22.12	23.2	1.0	0.0
40	QPSK	216	0	22.23	22.32	22.25	23.2	1.0	0.0
40	16QAM	1	1	22.61	22.55	22.63	23.2	1.0	0.0
40	64QAM	1	1	20.83	20.88	21.00	21.7	2.5	0.0
40	256QAM	1	1	18.89	18.88	18.76	18.7	4.5	0.0
Channel				503000	507000	511000	Tune-up limit (dbm)	MPR	
Frequency (MHz)				2515 <th>2535<th>2555<th colspan="3"></th></th></th>	2535 <th>2555<th colspan="3"></th></th>	2555 <th colspan="3"></th>			
30	QPSK	1	1	22.53	22.86	22.80	24.2	0.0	0.0
Channel				502500	507000	511500	Tune-up limit (dbm)	MPR	
Frequency (MHz)				2512.5 <th>2535<th>2557.5<th colspan="3"></th></th></th>	2535 <th>2557.5<th colspan="3"></th></th>	2557.5 <th colspan="3"></th>			
25	QPSK	1	1	22.53	22.86	22.83	23.2	0.0	0.0
Channel				502000	507000	512000	Tune-up limit (dbm)	MPR	
Frequency (MHz)				2510 <th>2535<th>2560<th colspan="3"></th></th></th>	2535 <th>2560<th colspan="3"></th></th>	2560 <th colspan="3"></th>			
20	QPSK	1	1	22.71	22.79	22.77	24.2	0.0	0.0
Channel				501500	507000	512500	Tune-up limit (dbm)	MPR	
Frequency (MHz)				2507.5 <th>2535<th>2562.5<th colspan="3"></th></th></th>	2535 <th>2562.5<th colspan="3"></th></th>	2562.5 <th colspan="3"></th>			
15	QPSK	1	1	22.67	22.77	22.73	24.2	0.0	0.0
Channel				501000	507000	513000	Tune-up limit (dbm)	MPR	
Frequency (MHz)				2506 <th>2535<th>2566<th colspan="3"></th></th></th>	2535 <th>2566<th colspan="3"></th></th>	2566 <th colspan="3"></th>			
10	QPSK	1	1	22.66	22.75	22.73	24.2	0.0	0.0
Channel				500500	507000	513500	Tune-up limit (dbm)	MPR	
Frequency (MHz)				2504.5 <th>2535<th>2567.5<th colspan="3"></th></th></th>	2535 <th>2567.5<th colspan="3"></th></th>	2567.5 <th colspan="3"></th>			
5	QPSK	1	1	22.58	22.79	22.82	24.2	0.0	0.0

n7 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				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PV2 BPSK	1	1	21.85	21.86	21.88	23.5	0.0	
40	PV2 BPSK	1	108	21.80	21.82	21.80			
40	PV2 BPSK	1	214	21.69	21.73	21.61			
40	PV2 BPSK	108	0	21.15	21.33	21.20			
40	PV2 BPSK	108	54	21.68	21.68	21.75	23.0	0.5	0.0
40	PV2 BPSK	108	108	21.28	21.34	21.34	23.0	0.5	
40	PV2 BPSK	216	0	21.21	21.34	21.17			
40	QPSK	1	1	22.28	22.35	22.26			
40	QPSK	1	108	22.08	22.25	22.22			
40	QPSK	1	214	22.21	22.30	22.19	23.5	0.0	0.0
40	QPSK	108	0	21.17	21.22	21.12	22.5	1.0	0.0
40	QPSK	108	54	22.19	22.34	22.20	23.5	0.5	0.0
40	QPSK	108	108	21.40	21.42	21.23	22.5	1.0	0.0
40	QPSK	216	0	21.21	21.30	21.17	22.5	1.0	0.0
40	16QAM	1	1	21.03	21.03	20.84	22.5	1.0	0.0
40	64QAM	1	1	19.38	19.45	19.37	21.0	2.5	0.0
40	256QAM	1	1	17.66	17.68	17.52	19.0	4.5	0.0
Channel				503000	507000	511000	Tune-up limit	MPR	
Frequency (MHz)				2515 <th>2535<th>2555<th>(dbm)<th colspan="2">(db)</th></th></th></th>	2535 <th>2555<th>(dbm)<th colspan="2">(db)</th></th></th>	2555 <th>(dbm)<th colspan="2">(db)</th></th>	(dbm) <th colspan="2">(db)</th>	(db)	
30	QPSK	1	1	22.25	22.30	22.27	23.5	0.0	0.0
Channel				502500	507000	511500	Tune-up limit	MPR	
Frequency (MHz)				2512.5 <th>2535<th>2557.5<th>(dbm)<th colspan="2">(db)</th></th></th></th>	2535 <th>2557.5<th>(dbm)<th colspan="2">(db)</th></th></th>	2557.5 <th>(dbm)<th colspan="2">(db)</th></th>	(dbm) <th colspan="2">(db)</th>	(db)	
25	QPSK	1	1	22.24	22.34	22.34	23.5	0.0	0.0
Channel				502000	507000	512000	Tune-up limit	MPR	
Frequency (MHz)				2510 <th>2535<th>2560<th>(dbm)<th colspan="2">(db)</th></th></th></th>	2535 <th>2560<th>(dbm)<th colspan="2">(db)</th></th></th>	2560 <th>(dbm)<th colspan="2">(db)</th></th>	(dbm) <th colspan="2">(db)</th>	(db)	
20	QPSK	1	1	22.19	22.28	22.27	23.5	0.0	0.0
Channel				501500	507000	512500	Tune-up limit	MPR	
Frequency (MHz)				2507.5 <th>2535<th>2562.5<th>(dbm)<th colspan="2">(db)</th></th></th></th>	2535 <th>2562.5<th>(dbm)<th colspan="2">(db)</th></th></th>	2562.5 <th>(dbm)<th colspan="2">(db)</th></th>	(dbm) <th colspan="2">(db)</th>	(db)	
15	QPSK	1	1	22.31	22.22	22.29	23.5	0.0	0.0
Channel				501000	507000	513000	Tune-up limit	MPR	
Frequency (MHz)				2506 <th>2535<th>2564<th>(dbm)<th colspan="2">(db)</th></th></th></th>	2535 <th>2564<th>(dbm)<th colspan="2">(db)</th></th></th>	2564 <th>(dbm)<th colspan="2">(db)</th></th>	(dbm) <th colspan="2">(db)</th>	(db)	
10	QPSK	1	1	22.32	22.25	22.33	23.5	0.0	0.0
Channel				500500	507000	513500	Tune-up limit	MPR	
Frequency (MHz)				2504.5 <th>2535<th>2567.5<th>(dbm)<th colspan="2">(db)</th></th></th></th>	2535 <th>2567.5<th>(dbm)<th colspan="2">(db)</th></th></th>	2567.5 <th>(dbm)<th colspan="2">(db)</th></th>	(dbm) <th colspan="2">(db)</th>	(db)	
5	QPSK	1	1	22.19	22.21	22.23	23.5	0.0	0.0



n25 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				374000	376500	379000	24.2	0.0
Frequency (MHz)				1870	1882.5	1895		
40	PV2 BPSK	1	1	23.19	23.35	23.33		
40	PV2 BPSK	1	108	23.22	23.30	23.30		
40	PV2 BPSK	1	214	23.15	23.25	23.11	23.7	0.5
40	PV2 BPSK	108	0	22.99	23.10	23.03		
40	PV2 BPSK	108	54	23.03	23.22	23.17		
40	PV2 BPSK	108	108	23.07	23.15	23.00		
40	PV2 BPSK	216	0	23.21	23.24	23.11	23.7	0.5
40	QPSK	1	1	23.30	23.35	23.33		
40	QPSK	1	108	23.12	23.30	23.19		
40	QPSK	1	214	23.23	23.27	23.23		
40	QPSK	108	0	22.40	22.38	22.39	23.2	1.0
40	QPSK	108	54	23.23	23.35	23.34		
40	QPSK	108	108	22.40	22.33	22.41		
40	QPSK	216	0	22.44	22.46	22.39		
40	16QAM	1	1	22.47	22.40	22.46	23.2	1.0
40	16QAM	1	1	20.87	20.88	20.93		
40	256QAM	1	1	19.06	19.05	19.15		
Channel				373000	376500	380000	Tune-up limit (dB)	MPR
Frequency (MHz)				1895	1892.5	1900	24.2	0.0
30	QPSK	1	1	23.08	23.31	23.25	Tune-up limit (dB)	MPR
Channel				372500	376500	380500	Tune-up limit (dB)	MPR
Frequency (MHz)				1892.5	1892.5	1892.5	23.2	0.0
25	QPSK	1	1	23.07	23.23	23.20	Tune-up limit (dB)	MPR
Channel				372000	376500	381000	Tune-up limit (dB)	MPR
Frequency (MHz)				1900	1892.5	1905	24.2	0.0
20	QPSK	1	1	23.02	23.23	23.17	Tune-up limit (dB)	MPR
Channel				371500	376500	381500	Tune-up limit (dB)	MPR
Frequency (MHz)				1897.5	1892.5	1902.5	24.2	0.0
15	QPSK	1	1	23.07	23.32	23.25	Tune-up limit (dB)	MPR
Channel				371000	376500	382000	Tune-up limit (dB)	MPR
Frequency (MHz)				1895	1892.5	1900	24.2	0.0
10	QPSK	1	1	23.08	23.33	23.23	Tune-up limit (dB)	MPR
Channel				370500	376500	382500	Tune-up limit (dB)	MPR
Frequency (MHz)				1892.5	1892.5	1912.5	24.2	0.0
5	QPSK	1	1	23.12	23.21	23.21		

n25 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				374000	376500	379000	25.2	0.0
Frequency (MHz)				1870	1882.5	1895		
40	PV2 BPSK	1	1	24.09	24.22	24.19		
40	PV2 BPSK	1	108	24.11	24.15	23.95		
40	PV2 BPSK	1	214	23.96	24.13	23.95	24.7	0.5
40	PV2 BPSK	108	0	24.03	24.05	23.93		
40	PV2 BPSK	108	54	24.04	24.17	24.09		
40	PV2 BPSK	108	108	23.97	24.08	24.07		
40	PV2 BPSK	216	0	23.99	24.10	23.92	24.7	0.5
40	QPSK	1	1	24.20	24.25	24.18		
40	QPSK	1	108	24.14	24.18	24.03		
40	QPSK	1	214	24.06	24.10	24.04		
40	QPSK	108	0	23.38	23.39	23.29	24.2	1.0
40	QPSK	108	54	24.13	24.34	24.21		
40	QPSK	108	108	23.29	23.16	23.18		
40	QPSK	216	0	23.15	23.22	23.20		
40	16QAM	1	1	23.19	23.15	23.19	24.2	1.0
40	16QAM	1	1	21.80	21.77	21.79		
40	256QAM	1	1	19.92	19.90	19.78		
Channel				373000	376500	380000	Tune-up limit (dB)	MPR
Frequency (MHz)				1895	1892.5	1900	25.2	0.0
30	QPSK	1	1	24.01	24.08	24.18	Tune-up limit (dB)	MPR
Channel				372500	376500	380500	Tune-up limit (dB)	MPR
Frequency (MHz)				1892.5	1892.5	1892.5	25.2	0.0
25	QPSK	1	1	23.91	24.05	24.03	Tune-up limit (dB)	MPR
Channel				372000	376500	381000	Tune-up limit (dB)	MPR
Frequency (MHz)				1900	1892.5	1905	25.2	0.0
20	QPSK	1	1	24.07	24.13	24.12	Tune-up limit (dB)	MPR
Channel				371500	376500	381500	Tune-up limit (dB)	MPR
Frequency (MHz)				1897.5	1892.5	1902.5	25.2	0.0
15	QPSK	1	1	23.99	24.10	24.19	Tune-up limit (dB)	MPR
Channel				371000	376500	382000	Tune-up limit (dB)	MPR
Frequency (MHz)				1895	1892.5	1910	25.2	0.0
10	QPSK	1	1	23.95	24.11	24.04	Tune-up limit (dB)	MPR
Channel				370500	376500	382500	Tune-up limit (dB)	MPR
Frequency (MHz)				1892.5	1892.5	1912.5	25.2	0.0
5	QPSK	1	1	24.03	24.18	24.18		



n25 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				374000	376500	379000			
Frequency (MHz)				1870	1882.5	1895			
40	PV2 BPSK	1	1	23.78	23.85	23.82	24.7	0.0	
40	PV2 BPSK	1	108	23.75	23.77	23.60			
40	PV2 BPSK	1	214	23.54	23.72	23.57			
40	PV2 BPSK	108	0	23.65	23.70	23.54	24.2	0.5	
40	PV2 BPSK	108	54	23.59	23.75	23.75	24.7	0.0	
40	PV2 BPSK	108	106	23.54	23.70	23.63	24.2	0.5	
40	PV2 BPSK	216	0	23.52	23.66	23.50			
40	QPSK	1	1	23.92	23.90	23.84			
40	QPSK	1	108	23.58	23.70	23.66	24.7	0.0	
40	QPSK	1	214	23.59	23.69	23.54			
40	QPSK	108	0	22.98	22.99	23.07	23.7	1.0	
40	QPSK	108	54	23.77	23.84	23.83	24.7	0.9	
40	QPSK	108	108	23.03	22.88	22.99	23.7	1.0	
40	QPSK	216	0	22.95	22.99	22.97			
40	16QAM	1	1	23.07	22.95	22.98	23.7	1.5	
40	64QAM	1	1	21.38	21.33	21.42	22.2	2.5	
40	256QAM	1	1	19.57	19.45	19.45	20.2	4.5	
Channel				373000	376500	380000	Tune-up limit (db)	MPR (db)	
Frequency (MHz)				1865 <td>1882.5</td> <td>1900</td> <td colspan="3"></td>	1882.5	1900			
30	QPSK	1	1	23.65	23.73	23.76	24.7	0.0	
Channel				372500	376500	380500	Tune-up limit (db)	MPR (db)	
Frequency (MHz)				1892.5 <td>1892.5</td> <td>1892.5</td> <td colspan="3"></td>	1892.5	1892.5			
25	QPSK	1	1	23.78	23.66	23.65	23.7	0.0	
Channel				372000	376500	381000	Tune-up limit (db)	MPR (db)	
Frequency (MHz)				1890 <td>1892.5</td> <td>1905</td> <td colspan="3"></td>	1892.5	1905			
20	QPSK	1	1	23.81	23.71	23.68	24.7	0.0	
Channel				371500	376500	381500	Tune-up limit (db)	MPR (db)	
Frequency (MHz)				1887.5 <td>1892.5</td> <td>1907.5</td> <td colspan="3"></td>	1892.5	1907.5			
15	QPSK	1	1	23.89	23.82	23.77	24.7	0.0	
Channel				371000	376500	382000	Tune-up limit (db)	MPR (db)	
Frequency (MHz)				1885 <td>1892.5</td> <td>1910</td> <td colspan="3"></td>	1892.5	1910			
10	QPSK	1	1	23.63	23.70	23.82	24.7	0.0	
Channel				370500	376500	382500	Tune-up limit (db)	MPR (db)	
Frequency (MHz)				1882.5 <td>1892.5</td> <td>1912.5</td> <td colspan="3"></td>	1892.5	1912.5			
5	QPSK	1	1	23.77	23.74	23.77	24.7	0.0	

n25 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				374000	376500	379000			
Frequency (MHz)				1870	1892.5	1905			
40	PV2 BPSK	1	1	22.79	22.88	22.69	24.1	0.0	
40	PV2 BPSK	1	108	22.68	22.80	22.80			
40	PV2 BPSK	1	214	22.65	22.75	22.74			
40	PV2 BPSK	108	0	22.65	22.80	22.80	23.6	0.5	
40	PV2 BPSK	108	54	22.73	22.79	22.79	24.1	0.0	
40	PV2 BPSK	108	108	22.75	22.80	22.70	23.8	0.5	
40	PV2 BPSK	216	0	22.80	22.77	22.72			
40	QPSK	1	1	22.85	22.90	22.82			
40	QPSK	1	108	22.79	22.79	22.68	24.1	0.0	
40	QPSK	1	214	22.66	22.82	22.81			
40	QPSK	108	0	21.68	21.85	21.67	23.1	1.0	
40	QPSK	108	54	22.43	22.55	22.47	24.1	0.9	
40	QPSK	108	108	21.95	21.99	21.98	23.1	1.0	
40	QPSK	216	0	21.97	22.00	21.90			
40	16QAM	1	1	21.95	22.00	21.93	23.1	1.0	
40	64QAM	1	1	20.70	20.78	20.89	21.8	2.5	
40	256QAM	1	1	18.23	18.40	18.28	19.8	4.5	
Channel				373000	376500	380000	Tune-up limit (dbm)	MPR	
Frequency (MHz)				1895 <td>1892.5</td> <td>1900</td> <th colspan="3"></th>	1892.5	1900			
30	QPSK	1	1	22.79	22.85	22.61	24.1	0.0	
Channel				372500	376500	380500	Tune-up limit (dbm)	MPR	
Frequency (MHz)				1892.5 <td>1892.5</td> <td>1892.5</td> <th colspan="3"></th>	1892.5	1892.5			
25	QPSK	1	1	22.77	22.83	22.51	24.1	0.0	
Channel				372000	376500	381000	Tune-up limit (dbm)	MPR	
Frequency (MHz)				1890 <td>1892.5</td> <td>1905</td> <th colspan="3"></th>	1892.5	1905			
20	QPSK	1	1	22.85	22.84	22.69	24.1	0.0	
Channel				371500	376500	381500	Tune-up limit (dbm)	MPR	
Frequency (MHz)				1887.5 <td>1892.5</td> <td>1907.5</td> <th colspan="3"></th>	1892.5	1907.5			
15	QPSK	1	1	22.79	22.75	22.61	24.1	0.0	
Channel				371000	376500	382000	Tune-up limit (dbm)	MPR	
Frequency (MHz)				1885 <td>1892.5</td> <td>1910</td> <th colspan="3"></th>	1892.5	1910			
10	QPSK	1	1	22.65	22.79	22.59	24.1	0.0	
Channel				370500	376500	382500	Tune-up limit (dbm)	MPR	
Frequency (MHz)				1882.5 <td>1892.5</td> <td>1912.5</td> <th colspan="3"></th>	1892.5	1912.5			
5	QPSK	1	1	22.68	22.76	22.52	24.1	0.0	



n30 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				462000			23.7	0.0
Frequency (MHz)				2310				
10	PV2 BPSK	1	1	22.42				
10	PV2 BPSK	1	26	22.40				
10	PV2 BPSK	1	50	22.35				
10	PV2 BPSK	25	0	20.33			23.2	0.5
10	PV2 BPSK	25	14	22.37			23.7	0.0
10	PV2 BPSK	25	27	20.32			23.2	0.5
10	PV2 BPSK	50	0	20.36				
10	QPSK	1	1	22.85				
10	QPSK	1	26	22.87			23.7	0.0
10	QPSK	1	50	22.93				
10	QPSK	25	0	20.75			22.7	1.0
10	QPSK	25	14	22.88			23.7	0.0
10	QPSK	25	27	20.83			22.7	1.0
10	QPSK	50	0	20.87				
10	16QAM	1	1	21.84				
10	16QAM	1	1	20.50			21.2	2.5
10	256QAM	1	1	18.16			19.2	4.5
Channel				461500	462000	462500	Tune-up limit	MPR
Frequency (MHz)				2307.5	2310	2312.5	(dbm)	(db)
5	QPSK	1	1	22.73	22.89	23.87	23.7	0.0

n30 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					462000		2310		
Frequency (MHz)									
10	Pv2 BPSK	1	1		23.53			24.7	0.0
10	Pv2 BPSK	1	26		23.55				
10	Pv2 BPSK	1	50		23.49				
10	Pv2 BPSK	25	0		21.49			24.2	0.5
10	Pv2 BPSK	25	14		23.49			24.7	0.0
10	Pv2 BPSK	25	27		21.41			24.2	0.5
10	Pv2 BPSK	50	0		21.47				
10	QPSK	1	1		24.13				
10	QPSK	1	26		24.00			24.7	0.0
10	QPSK	1	50		21.86				
10	QPSK	25	0		22.92			23.7	1.0
10	QPSK	25	14		24.00			24.7	0.0
10	QPSK	25	27		21.97			23.7	1.0
10	QPSK	50	0		21.93				
10	16QAM	1	1		22.92				
10	16QAM	1	1		21.52			22.2	2.5
10	256QAM	1	1		19.22			20.2	4.5
Channel					461500	462000	462500	Tune-up limit	MPR
Frequency (MHz)					2307.5	2310	2312.5	(dbm)	(db)
5	QPSK	1	1		23.82	23.99	23.83	24.7	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	23.7	0.0	
Frequency (MHz)				1730	1745	1760			
40	PV2 BPSK	1	1	22.19	22.35	22.22			
40	PV2 BPSK	1	108	22.12	22.23	22.08			
40	PV2 BPSK	1	214	22.12	22.20	22.08	23.2	0.5	
40	PV2 BPSK	108	0	21.46	21.30	21.42			
40	PV2 BPSK	108	54	22.06	22.15	22.03			
40	PV2 BPSK	108	106	21.48	21.26	21.48			
40	PV2 BPSK	216	0	21.46	21.20	21.35	23.2	0.5	
40	QPSK	1	1	22.30	22.39	22.25			
40	QPSK	1	106	22.10	22.23	22.18			
40	QPSK	1	214	22.05	22.15	22.11			
40	QPSK	108	0	22.08	22.25	22.15	22.7	1.0	
40	QPSK	108	54	22.13	22.30	22.23	23.7	0.9	
40	QPSK	108	108	22.06	22.22	22.15	22.7	1.0	
40	QPSK	216	0	22.12	22.18	22.10	22.7	1.0	
40	16QAM	1	1	22.07	22.19	21.91	22.7	1.6	
40	16QAM	1	1	20.72	20.80	20.82	21.2	2.5	
40	256QAM	1	1	18.58	18.74	18.85	19.2	4.5	
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1730	1745	1760	(dBm)	(dB)	
30	QPSK	1	1	22.03	22.18	22.15	23.7	0.0	
Channel				344500	349000	353500	Tune-up limit	MPR	
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)	
25	QPSK	1	1	22.08	22.19	22.15	23.7	0.0	
Channel				344000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	22.00	22.25	22.11	23.7	0.0	
Channel				343500	349000	354500	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	22.05	22.22	22.09	23.7	0.0	
Channel				343000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)	
10	QPSK	1	1	22.01	22.17	22.19	23.7	0.0	
Channel				342500	349000	355500	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
5	QPSK	1	1	22.16	22.28	22.10	23.7	0.0	

n66 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				345000	349000	353000	25.2	0.0	
Frequency (MHz)				1730	1745	1760			
40	PV2 BPSK	1	1	23.27	23.37	23.32			
40	PV2 BPSK	1	108	23.14	23.25	23.10			
40	PV2 BPSK	1	214	23.18	23.26	23.22	24.7	0.5	
40	PV2 BPSK	108	0	22.82	22.82	22.70			
40	PV2 BPSK	108	54	23.81	23.85	23.81			
40	PV2 BPSK	108	108	22.54	22.70	22.53			
40	PV2 BPSK	216	0	22.85	22.85	22.76	24.7	0.5	
40	QPSK	1	1	24.27	24.30	24.27			
40	QPSK	1	108	24.11	24.24	24.08			
40	QPSK	1	214	24.12	24.26	24.11			
40	QPSK	108	0	23.16	23.33	23.17	24.2	1.0	
40	QPSK	108	54	24.17	24.38	24.25	25.2	0.9	
40	QPSK	108	108	23.27	23.30	23.11	24.2	1.0	
40	QPSK	216	0	23.10	23.25	23.13	24.2	1.0	
40	16QAM	1	1	23.12	23.22	23.21	24.2	1.9	
40	16QAM	1	1	21.85	21.80	21.82	22.7	2.5	
40	256QAM	1	1	19.83	20.00	19.97	20.7	4.5	
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1730	1745	1760	(dBm)	(dB)	
30	QPSK	1	1	24.24	24.24	24.30	25.2	0.0	
Channel				344500	349000	353500	Tune-up limit	MPR	
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)	
25	QPSK	1	1	24.27	24.33	24.27	25.2	0.0	
Channel				344000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	24.32	24.32	24.26	25.2	0.0	
Channel				343500	349000	354500	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	24.29	24.23	24.25	25.2	0.0	
Channel				343000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)	
10	QPSK	1	1	24.21	24.24	24.30	25.2	0.0	
Channel				342500	349000	355500	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
5	QPSK	1	1	24.25	24.24	24.29	25.2	0.0	



n66 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				345000	349000	353000	24.7	0.0	
Frequency (MHz)				1730	1745	1760			
40	PV2 BPSK	1	1	22.84	22.83	22.89			
40	PV2 BPSK	1	108	22.81	22.80	22.80			
40	PV2 BPSK	1	214	22.83	22.75	22.82	24.2	0.5	
40	PV2 BPSK	108	0	22.14	22.15	22.15			
40	PV2 BPSK	108	54	22.83	22.89	22.85			
40	PV2 BPSK	108	106	22.19	22.20	22.02			
40	PV2 BPSK	216	0	21.10	21.23	21.12	24.7	0.0	
40	QPSK	1	1	23.52	23.60	23.57			
40	QPSK	1	106	23.37	23.55	23.51			
40	QPSK	1	214	23.48	23.52	23.35			
40	QPSK	108	0	22.73	22.80	22.72	23.7	1.0	
40	QPSK	108	54	23.46	23.57	23.38			
40	QPSK	108	108	22.51	22.69	22.52			
40	QPSK	216	0	22.65	22.69	22.47			
40	16QAM	1	1	22.52	22.65	22.55	23.7	1.0	
40	16QAM	1	1	20.96	21.12	20.97			
40	256QAM	1	1	19.21	19.30	19.22			
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1725	1740	1755	(dBm)	(dB)	
30	QPSK	1	1	23.19	23.26	23.25	24.7	0.0	
Channel				344500	349000	353500	Tune-up limit	MPR	
Frequency (MHz)				1722.5	1740	1747.5	(dBm)	(dB)	
25	QPSK	1	1	23.21	23.42	23.33	24.7	0.0	
Channel				344000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	23.24	23.34	23.22	24.7	0.0	
Channel				343500	349000	354500	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	23.26	23.35	23.20	24.7	0.0	
Channel				343000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1715	1744	1775	(dBm)	(dB)	
10	QPSK	1	1	23.19	23.33	23.29	24.7	0.0	
Channel				342500	349000	355500	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1744	1777.5	(dBm)	(dB)	
5	QPSK	1	1	23.34	23.42	23.29	24.7	0.0	

n66 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				345000	349000	353000	23.2	0.0	
Frequency (MHz)				1730	1745	1760			
40	PV2 BPSK	1	1	21.63	21.65	21.57			
40	PV2 BPSK	1	108	21.52	21.55	21.45			
40	PV2 BPSK	1	214	21.49	21.52	21.45	22.7	0.5	
40	PV2 BPSK	108	0	20.86	20.95	20.86			
40	PV2 BPSK	108	54	21.45	21.45	21.27			
40	PV2 BPSK	108	108	20.86	20.92	20.81			
40	PV2 BPSK	216	0	20.81	20.96	20.88	22.7	0.5	
40	QPSK	1	1	21.65	21.70	21.62			
40	QPSK	1	108	21.49	21.67	21.44			
40	QPSK	1	214	21.38	21.54	21.36			
40	QPSK	108	0	21.32	21.45	21.30	22.2	1.0	
40	QPSK	108	54	21.37	21.49	21.46			
40	QPSK	108	108	21.35	21.46	21.45			
40	QPSK	216	0	21.50	21.55	21.48			
40	16QAM	1	1	21.22	21.30	21.22	22.2	1.0	
40	16QAM	1	1	20.29	20.38	20.16			
40	256QAM	1	1	18.25	18.30	18.19			
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)	
30	QPSK	1	1	21.47	21.53	21.47	23.2	0.0	
Channel				344500	349000	353500	Tune-up limit	MPR	
Frequency (MHz)				1722.5	1745	1747.5	(dBm)	(dB)	
25	QPSK	1	1	21.49	21.53	21.45	23.2	0.0	
Channel				344000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	21.62	21.49	21.46	23.2	0.0	
Channel				343500	349000	354500	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	21.55	21.49	21.41	23.2	0.0	
Channel				343000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1715	1744	1775	(dBm)	(dB)	
10	QPSK	1	1	21.54	21.51	21.39	23.2	0.0	
Channel				342500	349000	355500	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1744	1777.5	(dBm)	(dB)	
5	QPSK	1	1	21.63	21.47	21.57	23.2	0.0	



n71 Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				134600	136100	137600		
Frequency (MHz)				673	680.5	688		
20	P12 BPSK	1	1	23.29	23.35	23.32	24.7	0.0
20	P12 BPSK	1	53	23.23	23.28	23.25		
20	P12 BPSK	1	104	23.33	23.30	23.29		
20	P12 BPSK	50	0	22.85	23.00	22.85	24.2	0.5
20	P12 BPSK	50	28	23.25	23.30	23.23	24.7	0.0
20	P12 BPSK	50	56	22.93	22.98	22.85	24.2	0.5
20	P12 BPSK	100	0	22.81	22.94	22.78		
20	QPSK	1	1	24.20	24.22	24.11		
20	QPSK	1	53	24.03	24.15	24.00	24.7	0.0
20	QPSK	1	104	24.04	24.10	24.09		
20	QPSK	50	0	23.12	23.20	23.07		
20	QPSK	50	28	24.03	24.11	24.08	24.7	0.0
20	QPSK	50	56	22.95	23.12	23.08	23.7	1.0
20	QPSK	100	0	22.95	23.08	23.05		
20	QPSK	100	0	22.95	23.08	23.05		
20	16QAM	1	1	23.14	23.33	23.18	23.7	1.0
20	64QAM	1	1	21.99	22.00	21.86	22.2	2.5
20	256QAM	1	1	19.83	19.96	19.93	20.7	4.5
Channel				134100	136100	138100	Tune-up limit	MPR
Frequency (MHz)				673	680.5	688	(dBm)	(dB)
15	QPSK	1	1	24.04	24.10	23.98	24.7	0.0
Channel				133600	136100	138600	Tune-up limit	MPR
Frequency (MHz)				688	695.5	693	(dBm)	(dB)
10	QPSK	1	1	24.14	24.11	24.02	24.7	0.0
Channel				133100	136100	139100	Tune-up limit	MPR
Frequency (MHz)				695.5	698.5	695.5	(dBm)	(dB)
5	QPSK	1	1	24.00	24.06	24.13	24.7	0.0

n71 Ant 1

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	P12 BPSK	1	1	23.30	23.35	23.26	25.2	0.0
20	P12 BPSK	1	53	23.22	23.30	23.33		
20	P12 BPSK	1	104	23.23	23.26	23.23		
20	P12 BPSK	50	0	23.17	23.20	23.20	24.7	0.5
20	P12 BPSK	50	28	23.30	23.33	23.23	25.2	0.0
20	P12 BPSK	50	56	22.99	23.10	23.01	24.7	0.5
20	P12 BPSK	100	0	23.12	23.15	23.01		
20	QPSK	1	1	24.28	24.32	24.19		
20	QPSK	1	53	24.08	24.25	24.17	25.2	0.0
20	QPSK	1	104	24.12	24.20	24.17		
20	QPSK	50	0	23.35	23.52	23.38		
20	QPSK	50	28	24.28	24.30	24.18	25.2	0.0
20	QPSK	50	56	23.22	23.48	23.37	24.2	1.0
20	QPSK	100	0	23.29	23.43	23.30		
20	QPSK	100	0	23.29	23.43	23.30		
20	16QAM	1	1	23.43	23.50	23.41	24.2	1.0
20	64QAM	1	1	21.82	22.00	21.90	22.7	2.5
20	256QAM	1	1	20.01	20.01	19.83	20.7	4.5
Channel				134100	136100	138100	Tune-up limit	MPR
Frequency (MHz)				673	680.5	688	(dBm)	(dB)
15	QPSK	1	1	24.20	24.19	24.19	25.2	0.0
Channel				133600	136100	138600	Tune-up limit	MPR
Frequency (MHz)				688	695.5	693	(dBm)	(dB)
10	QPSK	1	1	24.18	24.20	24.13	25.2	0.0
Channel				133100	136100	139100	Tune-up limit	MPR
Frequency (MHz)				695.5	698.5	695.5	(dBm)	(dB)
5	QPSK	1	1	24.10	24.24	24.19	25.2	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				517000	519000	521000	23.7	0.0
Frequency (MHz)				2585	2595	2605		
30	PV2 BPSK	1	1	22.56	22.60	22.56		
30	PV2 BPSK	1	40	22.27	22.46	22.45		
30	PV2 BPSK	1	77	22.37	22.50	22.42	23.2	0.5
30	PV2 BPSK	36	0	21.50	21.60	21.57		
30	PV2 BPSK	36	22	22.44	22.45	22.36		
30	PV2 BPSK	36	43	21.67	21.70	21.60		
30	PV2 BPSK	75	0	21.65	21.66	21.62	23.7	0.0
30	QPSK	1	1	22.58	22.62	22.58		
30	QPSK	1	40	22.30	22.42	22.25		
30	QPSK	1	77	22.42	22.46	22.45		
30	QPSK	36	0	22.02	22.15	22.11	23.7	0.0
30	QPSK	36	22	22.37	22.46	22.36		
30	QPSK	36	43	22.04	22.05	21.88		
30	QPSK	75	0	21.80	21.90	21.80		
30	16QAM	1	1	21.95	22.10	21.98	22.7	1.0
30	64QAM	1	1	20.35	20.46	20.28	21.2	2.5
30	256QAM	1	1	18.45	18.60	18.57	19.2	4.5
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2590	2595	2610	23.7	0.0
20	QPSK	1	1	22.45	22.53	22.25	23.7	0.0
Channel				515500	519000	522500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.3	2595	2612.5	23.7	0.0
15	QPSK	1	1	22.41	22.55	22.50	23.7	0.0
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2576.02	2595	2614.98	23.7	0.0
10	QPSK	1	1	22.17	22.54	22.54	23.7	0.0

n38 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				517000	519000	521000	25.2	0.0
Frequency (MHz)				2585	2595	2605		
30	PV2 BPSK	1	1	24.19	24.22	24.09		
30	PV2 BPSK	1	40	24.10	24.15	23.98		
30	PV2 BPSK	1	77	24.06	24.09	24.07	24.7	0.5
30	PV2 BPSK	36	0	23.30	23.33	23.31		
30	PV2 BPSK	36	22	24.01	24.07	23.98		
30	PV2 BPSK	36	43	23.23	23.36	23.29		
30	PV2 BPSK	75	0	23.16	23.25	23.13	25.2	0.0
30	QPSK	1	1	24.15	24.25	24.20		
30	QPSK	1	40	24.10	24.10	24.10		
30	QPSK	1	77	24.11	24.13	24.11		
30	QPSK	36	0	23.69	23.80	23.72	25.2	0.0
30	QPSK	36	22	24.10	24.11	24.02		
30	QPSK	36	43	23.76	23.82	23.66		
30	QPSK	75	0	23.45	23.55	23.38		
30	16QAM	1	1	23.50	23.80	23.46	24.2	1.0
30	64QAM	1	1	22.26	22.30	22.30	22.7	2.5
30	256QAM	1	1	20.10	20.25	20.23	20.7	4.5
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2590	2595	2610	25.2	0.0
20	QPSK	1	1	24.11	24.12	24.02	25.2	0.0
Channel				515500	519000	522500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.3	2595	2612.5	25.2	0.0
15	QPSK	1	1	24.03	24.03	23.95	25.2	0.0
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2576.02	2595	2614.98	25.2	0.0
10	QPSK	1	1	24.16	24.05	24.03	25.2	0.0



n38 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				517000	519000	521000	24.7	0.0
Frequency (MHz)				2585	2595	2605		
30	PV2 BPSK	1	1	23.31	23.45	23.39		
30	PV2 BPSK	1	40	23.30	23.35	23.18		
30	PV2 BPSK	1	77	23.23	23.40	23.36	24.2	0.5
30	PV2 BPSK	36	0	22.52	22.60	22.60		
30	PV2 BPSK	36	22	23.32	23.34	23.30		
30	PV2 BPSK	36	43	22.43	22.58	22.43		
30	PV2 BPSK	75	0	22.43	22.55	22.51	24.7	0.0
30	QPSK	1	1	23.45	23.50	23.40		
30	QPSK	1	40	23.29	23.30	23.16		
30	QPSK	1	77	23.33	23.34	23.22		
30	QPSK	36	0	22.92	22.98	22.94	24.7	1.0
30	QPSK	36	22	23.22	23.33	23.25		
30	QPSK	36	43	22.81	23.00	22.88		
30	QPSK	75	0	22.53	22.07	22.65		
30	16QAM	1	1	22.71	22.89	22.75	23.7	1.0
30	64QAM	1	1	21.34	21.40	21.38	22.2	2.5
30	256QAM	1	1	19.18	19.20	19.05	20.2	4.5
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2590	2595	2610	(dBm)	(dB)
20	QPSK	1	1	23.21	23.23	23.33	24.7	0.0
Channel				515500	519000	522500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2577.3	2595	2612.5	(dBm)	(dB)
15	QPSK	1	1	23.27	23.34	23.33	24.7	0.0
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR
Frequency (MHz)				2575.02	2595	2614.98	(dBm)	(dB)
10	QPSK	1	1	23.23	23.31	23.20	24.7	0.0

n38 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				517000	519000	521000	24.0	0.0
Frequency (MHz)				2585	2595	2605		
30	PV2 BPSK	1	1	22.72	22.80	22.69		
30	PV2 BPSK	1	40	22.53	22.70	22.63		
30	PV2 BPSK	1	77	22.66	22.77	22.68	23.5	0.5
30	PV2 BPSK	36	0	21.82	21.90	21.75		
30	PV2 BPSK	36	22	22.72	22.77	22.69		
30	PV2 BPSK	36	43	21.69	21.78	21.74		
30	PV2 BPSK	75	0	21.85	21.88	21.72	24.0	0.0
30	QPSK	1	1	22.77	22.82	22.75		
30	QPSK	1	40	22.80	22.62	22.54		
30	QPSK	1	77	22.48	22.66	22.51		
30	QPSK	36	0	22.22	22.35	22.19	24.0	0.0
30	QPSK	36	22	22.89	22.75	22.87		
30	QPSK	36	43	22.27	22.30	22.12		
30	QPSK	75	0	22.04	22.51	22.17		
30	16QAM	1	1	22.11	22.25	22.25	23.0	1.0
30	64QAM	1	1	20.47	20.65	20.53	21.5	2.5
30	256QAM	1	1	18.01	18.70	18.54	19.5	4.5
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2590	2595	2610	(dBm)	(dB)
20	QPSK	1	1	22.61	22.66	22.33	24.0	0.0
Channel				515500	519000	522500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2577.3	2595	2612.5	(dBm)	(dB)
15	QPSK	1	1	22.68	22.70	22.54	24.0	0.0
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR
Frequency (MHz)				2575.02	2595	2614.98	(dBm)	(dB)
10	QPSK	1	1	22.58	22.67	22.53	24.0	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									
Frequency (MHz)				500202	518998	538000			
100	PV2 BPSK	1	1	2546.01	2592.99	2640			
100	PV2 BPSK	1	137	22.30	22.38	22.25			
100	PV2 BPSK	1	271	22.07	22.28	22.16	23.2	0.0	
100	PV2 BPSK	135	0	22.01	22.15	22.10	22.7	0.5	
100	PV2 BPSK	135	66	22.00	22.17	22.12	23.2	0.0	
100	PV2 BPSK	135	138	22.13	22.18	22.02	22.7	0.5	
100	PV2 BPSK	270	0	22.04	22.22	22.15			
100	QPSK	1	1	22.30	22.35	22.35			
100	QPSK	1	137	22.16	22.30	22.21	23.2	0.0	
100	QPSK	1	271	22.09	22.18	21.99			
100	QPSK	135	0	22.16	22.20	22.18			
100	QPSK	135	66	22.21	22.22	22.18	23.2	0.0	
100	QPSK	135	138	22.08	22.12	22.00			
100	QPSK	270	0	21.85	21.90	21.81	22.2	1.0	
100	16QAM	1	1	21.86	21.89	21.91	22.2	1.0	
100	64QAM	1	1	19.95	20.00	20.02	20.7	2.5	
100	256QAM	1	1	17.75	17.80	17.77	18.7	4.5	
Channel									
Frequency (MHz)				508200	518998	528996	Tuneup limit	MPR	
90	QPSK	1	1	2541	2592.99	2644.98	(dbm)	(db)	
Channel									
Frequency (MHz)				507204	518998	529998	Tune-up limit	MPR	
80	QPSK	1	1	2536.02	2592.99	2648.99	(dbm)	(db)	
Channel									
Frequency (MHz)				506202	518998	531000	Tune-up limit	MPR	
70	QPSK	1	1	2531.01	2592.99	2650	(dbm)	(db)	
Channel									
Frequency (MHz)				505200	518998	531996	Tune-up limit	MPR	
60	QPSK	1	1	2526	2592.99	2659.98	(dbm)	(db)	
Channel									
Frequency (MHz)				504204	518998	532998	Tune-up limit	MPR	
50	QPSK	1	1	2516.02	2592.99	2664.99	(dbm)	(db)	
Channel									
Frequency (MHz)				503202	518998	534000	Tune-up limit	MPR	
40	QPSK	1	1	2511	2592.99	2670	(dbm)	(db)	
Channel									
Frequency (MHz)				502200	518998	534996	Tune-up limit	MPR	
30	QPSK	1	1	2511	2592.99	2674.98	(dbm)	(db)	
Channel									
Frequency (MHz)				501204	518998	535998	Tune-up limit	MPR	
20	QPSK	1	1	2504.02	2592.99	2679.99	(dbm)	(db)	
Channel									
Frequency (MHz)				500700	518998	536496	Tune-up limit	MPR	
15	QPSK	1	1	2501.01	2592.99	2682.48	(dbm)	(db)	
Channel									
Frequency (MHz)				500202	518998	537000	Tune-up limit	MPR	
10	QPSK	1	1	2501.01	2592.99	2685	(dbm)	(db)	
Channel									
Frequency (MHz)				22.17	22.31	22.23	23.2	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									
Frequency (MHz)				500202	518998	538000			
100	PV2 BPSK	1	1	2546.01	2592.99	2640			
100	PV2 BPSK	1	137	23.20	23.32	23.24			0.0
100	PV2 BPSK	1	271	23.25	23.30	23.29	24.2		
100	PV2 BPSK	135	0	23.20	23.22	23.22			0.5
100	PV2 BPSK	135	66	23.04	23.15	23.02	24.2		0.0
100	PV2 BPSK	135	138	23.25	23.30	23.18			0.5
100	PV2 BPSK	270	0	22.82	22.88	22.88			
100	QPSK	1	1	23.30	23.35	23.28			
100	QPSK	1	137	23.08	23.22	23.22	24.2		0.0
100	QPSK	1	271	23.03	23.18	23.12			
100	QPSK	135	0	23.04	23.12	23.01			
100	QPSK	135	66	23.08	23.25	23.18	24.2		0.0
100	QPSK	135	138	23.08	23.20	23.13			
100	QPSK	270	0	22.81	22.85	22.80	23.2		1.0
100	16QAM	1	1	22.77	22.85	22.70	23.2		1.0
100	64QAM	1	1	21.15	21.20	21.22	21.7		2.5
100	256QAM	1	1	18.99	18.90	18.95	19.7		4.5
Channel									
Frequency (MHz)				508200	518998	528996	Tuneup limit (dbm)	MPR (db)	
90	QPSK	1	1	2541	2592.99	2644.98	24.2		0.0
Channel									
Frequency (MHz)				507204	518998	529998	Tuneup limit (dbm)	MPR (db)	
80	QPSK	1	1	2536.02	2592.99	2648.99	24.2		0.0
Channel									
Frequency (MHz)				506202	518998	531000	Tuneup limit (dbm)	MPR (db)	
70	QPSK	1	1	2531.01	2592.99	2650	24.2		0.0
Channel									
Frequency (MHz)				505200	518998	531996	Tuneup limit (dbm)	MPR (db)	
60	QPSK	1	1	2526	2592.99	2659.98	24.2		0.0
Channel									
Frequency (MHz)				504204	518998	532998	Tuneup limit (dbm)	MPR (db)	
50	QPSK	1	1	2516.02	2592.99	2664.99	24.2		0.0
Channel									
Frequency (MHz)				503202	518998	534000	Tuneup limit (dbm)	MPR (db)	
40	QPSK	1	1	2511	2592.99	2670	24.2		0.0
Channel									
Frequency (MHz)				502200	518998	534996	Tuneup limit (dbm)	MPR (db)	
30	QPSK	1	1	2511	2592.99	2674.98	24.2		0.0
Channel									
Frequency (MHz)				501204	518998	535998	Tuneup limit (dbm)	MPR (db)	
20	QPSK	1	1	2504.02	2592.99	2679.99	24.2		0.0
Channel									
Frequency (MHz)				500700	518998	536496	Tuneup limit (dbm)	MPR (db)	
15	QPSK	1	1	2501.01	2592.99	2682.48	24.2		0.0
Channel									
Frequency (MHz)				500202	518998	537000	Tuneup limit (dbm)	MPR (db)	
10	QPSK	1	1	2501.01	2592.99	2685	24.2		0.0



n41 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)				506202	518998	530800			
				2548.01	2592.99	2640			
100	PV2 BPSK	1	1	23.33	23.37	23.18	24.2	0.0	
100	PV2 BPSK	1	137	23.30	23.32	23.14			
100	PV2 BPSK	1	271	23.20	23.29	23.26			
100	PV2 BPSK	135	0	23.13	23.30	23.12			
100	PV2 BPSK	135	86	23.08	23.28	23.18	23.2	0.0	
100	PV2 BPSK	135	138	23.15	23.33	23.20	23.7	0.5	
100	PV2 BPSK	270	0	23.04	23.20	23.18			
100	QPSK	1	1	23.35	23.40	23.37			
100	QPSK	1	137	23.22	23.32	23.17			
100	QPSK	1	271	23.33	23.35	23.26	24.2	0.0	
100	QPSK	135	0	23.11	23.15	23.20			
100	QPSK	135	86	23.13	23.25	23.22			
100	QPSK	135	138	22.80	22.55	22.52			
100	QPSK	270	0	22.58	22.70	22.58	23.2	1.0	
100	16QAM	1	1	22.85	22.80	22.77	23.2	1.0	
100	64QAM	1	1	20.82	20.98	20.90	21.7	2.5	
100	256QAM	1	1	19.05	19.10	19.00	19.7	4.5	
Channel									
Frequency (MHz)				508200	518998	528998	Tune-up limit	MPR	
				2541	2592.99	2644.80	(dBm)	(dB)	
90	QPSK	1	1	23.33	23.19	23.05	24.2	0.0	
Channel									
Frequency (MHz)				507204	518998	529998	Tune-up limit	MPR	
				2536.02	2592.99	2648.80	(dBm)	(dB)	
80	QPSK	1	1	23.25	23.13	23.09	24.2	0.0	
Channel									
Frequency (MHz)				506202	518998	531000	Tune-up limit	MPR	
				2531.01	2592.99	2652	(dBm)	(dB)	
70	QPSK	1	1	23.18	23.23	23.01	24.2	0.0	
Channel									
Frequency (MHz)				505200	518998	531998	Tune-up limit	MPR	
				2526	2592.99	2659.80	(dBm)	(dB)	
60	QPSK	1	1	23.28	23.26	23.12	24.2	0.0	
Channel									
Frequency (MHz)				504204	518998	532998	Tune-up limit	MPR	
				2524.02	2592.99	2654.80	(dBm)	(dB)	
50	QPSK	1	1	23.72	23.77	23.10	24.2	0.0	
Channel									
Frequency (MHz)				503202	518998	534000	Tune-up limit	MPR	
				2518.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	23.28	23.21	23.10	24.2	0.0	
Channel									
Frequency (MHz)				502200	518998	534998	Tune-up limit	MPR	
				2511	2592.99	2674.80	(dBm)	(dB)	
30	QPSK	1	1	23.16	23.21	23.13	24.2	0.0	
Channel									
Frequency (MHz)				501204	518998	535998	Tune-up limit	MPR	
				2504.02	2592.99	2679.80	(dBm)	(dB)	
20	QPSK	1	1	23.15	23.30	23.09	24.2	0.0	
Channel									
Frequency (MHz)				500700	518998	536498	Tune-up limit	MPR	
				2501.5	2592.99	2682.48	(dBm)	(dB)	
15	QPSK	1	1	23.16	23.38	23.14	24.2	0.0	
Channel									
Frequency (MHz)				500202	518998	537000	Tune-up limit	MPR	
				2501.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	23.21	23.24	23.05	24.2	0.0	

n41(HPUE) 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									
Frequency (MHz)				506202	518998	530800			
				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	24.24	24.38	24.25	25.2	0.0	
100	PV2 BPSK	1	137	24.11	24.30	24.14			
100	PV2 BPSK	1	271	23.40	23.45	23.42			
100	PV2 BPSK	135	0	24.26	24.30	24.25			
100	PV2 BPSK	135	86	24.01	24.20	24.04	23.2	0.0	
100	PV2 BPSK	135	138	23.00	23.10	23.04	24.7	0.5	
100	PV2 BPSK	270	0	23.63	23.77	23.76			
100	QPSK	1	1	24.12	24.40	24.29			
100	QPSK	1	137	23.58	23.75	23.58			
100	QPSK	1	271	22.96	22.33	22.39	25.2	0.0	
100	QPSK	135	0	23.55	23.86	23.60			
100	QPSK	135	86	23.58	23.70	23.63			
100	QPSK	135	138	23.10	22.10	22.70			
100	QPSK	270	0	22.80	22.88	22.85	24.2	1.0	
100	16QAM	1	1	23.14	23.23	23.14	24.2	1.0	
100	64QAM	1	1	22.08	22.10	22.00	22.7	2.5	
100	256QAM	1	1	19.58	19.77	19.71	20.7	4.5	
Channel									
Frequency (MHz)				508200	518998	528998	Tune-up limit	MPR	
				2541	2592.99	2644.80	(dBm)	(dB)	
90	QPSK	1	1	24.10	24.24	24.11	25.2	0.0	
Channel									
Frequency (MHz)				507204	518998	529998	Tune-up limit	MPR	
				2534.02	2592.99	2648.80	(dBm)	(dB)	
80	QPSK	1	1	24.17	24.03	24.12	25.2	0.0	
Channel									
Frequency (MHz)				506202	518998	531000	Tune-up limit	MPR	
				2531.01	2592.99	2652	(dBm)	(dB)	
70	QPSK	1	1	24.09	24.17	24.23	25.2	0.0	
Channel									
Frequency (MHz)				505200	518998	531998	Tune-up limit	MPR	
				2526	2592.99	2659.80	(dBm)	(dB)	
60	QPSK	1	1	24.05	24.21	24.25	25.2	0.0	
Channel									
Frequency (MHz)				504204	518998	532998	Tune-up limit	MPR	
				2524.02	2592.99	2654.80	(dBm)	(dB)	
50	QPSK	1	1	24.08	24.13	24.18	25.2	0.0	
Channel									
Frequency (MHz)				503202	518998	534000	Tune-up limit	MPR	
				2518.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	24.17	24.28	24.22	25.2	0.0	
Channel									
Frequency (MHz)				502200	518998	534998	Tune-up limit	MPR	
				2511	2592.99	2674.80	(dBm)	(dB)	
30	QPSK	1	1	24.12	24.31	24.24	25.2	0.0	
Channel									
Frequency (MHz)				501204	518998	535998	Tune-up limit	MPR	
				2504.01	2592.99	2679.80	(dBm)	(dB)	
20	QPSK	1	1	24.21	24.23	24.25	25.2	0.0	
Channel									
Frequency (MHz)				500700	518998	536498	Tune-up limit	MPR	
				2501.5	2592.99	2682.48	(dBm)	(dB)	
15	QPSK	1	1	24.08	24.35	24.17	25.2	0.0	
Channel									
Frequency (MHz)				500202	518998	537000	Tune-up limit	MPR	
				2501.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	24.16	24.30	24.18	25.2	0.0	



n41(HPUE) 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									
Frequency (MHz)				500202	518998	538000	2640		
				2548.01	2592.99	2640			
100	PV2 BPSK	1	1	25.79	25.80	25.74	26.7	0.0	
100	PV2 BPSK	1	137	25.06	25.25	25.08			
100	PV2 BPSK	1	271	25.45	25.64	25.53			
100	PV2 BPSK	135	0	25.34	25.44	25.25			
100	PV2 BPSK	135	66	25.22	25.40	25.25	26.7	0.5	
100	PV2 BPSK	135	138	24.58	24.73	24.80	28.2	0.5	
100	PV2 BPSK	270	0	25.32	25.45	25.42			
100	QPSK	1	1	25.74	25.82	25.72			
100	QPSK	1	137	24.81	24.92	24.79			
100	QPSK	1	271	24.85	24.89	24.79	26.7	0.0	
100	QPSK	135	0	24.85	24.80	24.85			
100	QPSK	135	66	24.80	24.55	24.83			
100	QPSK	135	138	23.85	23.77	23.72			
100	QPSK	270	0	24.23	24.33	24.15	25.7	1.0	
100	16QAM	1	1	24.41	24.55	24.54	25.7	1.0	
100	64QAM	1	1	23.83	23.80	23.55	24.2	2.5	
100	256QAM	1	1	21.43	21.44	21.37	22.2	4.5	
Channel									
Frequency (MHz)				508200	518998	528996	Tune-up limit	MPR	
				2541	2592.99	2644.80	(dBm)	(dB)	
90	QPSK	1	1	25.72	25.80	25.59	25.7	0.5	
Channel									
Frequency (MHz)				507204	518998	529998	Tune-up limit	MPR	
				2534.02	2592.99	2648.80	(dBm)	(dB)	
80	QPSK	1	1	25.04	25.09	25.63	25.7	0.5	
Channel									
Frequency (MHz)				506202	518998	531000	Tune-up limit	MPR	
				2531.01	2592.99	2652	(dBm)	(dB)	
70	QPSK	1	1	25.63	25.69	25.61	26.7	0.0	
Channel									
Frequency (MHz)				505200	518998	531996	Tune-up limit	MPR	
				2526	2592.99	2659.80	(dBm)	(dB)	
60	QPSK	1	1	25.03	25.80	25.68	26.7	0.0	
Channel									
Frequency (MHz)				504204	518998	532998	Tune-up limit	MPR	
				2524.02	2592.99	2664.80	(dBm)	(dB)	
50	QPSK	1	1	25.08	25.77	25.73	25.7	0.0	
Channel									
Frequency (MHz)				503202	518998	534000	Tune-up limit	MPR	
				2518.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	25.02	25.07	25.53	26.7	0.0	
Channel									
Frequency (MHz)				502200	518998	534996	Tune-up limit	MPR	
				2511	2592.99	2674.80	(dBm)	(dB)	
30	QPSK	1	1	25.74	25.80	25.67	26.7	0.0	
Channel									
Frequency (MHz)				501204	518998	535998	Tune-up limit	MPR	
				2504.02	2592.99	2679.80	(dBm)	(dB)	
20	QPSK	1	1	25.84	25.63	25.61	26.7	0.0	
Channel									
Frequency (MHz)				500700	518998	536496	Tune-up limit	MPR	
				2501.5	2592.99	2682.48	(dBm)	(dB)	
15	QPSK	1	1	25.81	25.77	25.60	26.7	0.0	
Channel									
Frequency (MHz)				500202	518998	537000	Tune-up limit	MPR	
				2501.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	25.66	25.70	25.64	26.7	0.0	

n41(HPUE) 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)				500202	518998	538000	2640		
				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	24.85	24.85	24.76	26.2	0.0	
100	PV2 BPSK	1	137	24.80	24.80	24.85			
100	PV2 BPSK	1	271	24.85	24.95	24.79			
100	PV2 BPSK	135	0	24.31	24.35	24.31			
100	PV2 BPSK	135	66	24.73	24.75	24.77	26.2	0.5	
100	PV2 BPSK	135	138	23.99	23.98	23.95	25.7	0.5	
100	PV2 BPSK	270	0	23.44	23.60	23.52			
100	QPSK	1	1	24.95	25.00	24.88			
100	QPSK	1	137	24.82	24.71	24.55			
100	QPSK	1	271	24.80	24.88	24.76	26.2	0.0	
100	QPSK	135	0	24.31	24.34	24.30			
100	QPSK	135	66	24.80	24.73	24.82			
100	QPSK	135	138	23.81	23.91	23.74			
100	QPSK	270	0	24.05	24.10	24.02	25.2	1.0	
100	16QAM	1	1	24.05	24.20	24.19	25.2	1.0	
100	64QAM	1	1	22.83	22.89	22.80	23.7	2.5	
100	256QAM	1	1	21.01	21.02	20.91	21.7	4.5	
Channel									
Frequency (MHz)				508200	518998	528996	Tune-up limit	MPR	
				2541	2592.99	2644.80	(dBm)	(dB)	
90	QPSK	1	1	25.21	25.28	25.08	26.2	0.0	
Channel									
Frequency (MHz)				507204	518998	529998	Tune-up limit	MPR	
				2534.02	2592.99	2648.80	(dBm)	(dB)	
80	QPSK	1	1	25.17	25.30	24.97	26.2	0.0	
Channel									
Frequency (MHz)				506202	518998	531000	Tune-up limit	MPR	
				2531.01	2592.99	2652	(dBm)	(dB)	
70	QPSK	1	1	25.08	25.53	25.07	26.2	0.0	
Channel									
Frequency (MHz)				505200	518998	531996	Tune-up limit	MPR	
				2526	2592.99	2659.80	(dBm)	(dB)	
60	QPSK	1	1	25.20	25.21	25.04	26.2	0.0	
Channel									
Frequency (MHz)				504204	518998	532998	Tune-up limit	MPR	
				2524.02	2592.99	2664.80	(dBm)	(dB)	
50	QPSK	1	1	25.12	25.35	24.88	26.2	0.0	
Channel									
Frequency (MHz)				503202	518998	534000	Tune-up limit	MPR	
				2518.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	25.16	25.23	24.97	26.2	0.0	
Channel									
Frequency (MHz)				502200	518998	534996	Tune-up limit	MPR	
				2511	2592.99	2674.80	(dBm)	(dB)	
30	QPSK	1	1	25.08	25.18	24.97	26.2	0.0	
Channel									
Frequency (MHz)				501204	518998	535998	Tune-up limit	MPR	
				2504.02	2592.99	2679.80	(dBm)	(dB)	
20	QPSK	1	1	25.11	25.16	25.01	26.2	0.0	
Channel									
Frequency (MHz)				500700	518998	536496	Tune-up limit	MPR	
				2501.5	2592.99	2682.48	(dBm)	(dB)	
15	QPSK	1	1	25.21	25.16	25.12	26.2	0.0	
Channel									
Frequency (MHz)				500202	518998	537000	Tune-up limit	MPR	
				2501.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	25.11	25.16	25.12	26.2	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									
Frequency (MHz)				500202	518598	536900	2640		
100	QPSK	1	1	2546.01	2592.99	2640	21.2	0.0	
100	QPSK	1	137	20.12	20.20	20.10			
100	QPSK	1	271	19.93	20.10	19.82			
100	QPSK	1	271	19.82	19.88	19.81			
100	QPSK	137	0	19.77	19.93	19.86			
100	QPSK	137	68	19.93	20.10	20.01	21.2	0.0	
100	QPSK	137	138	20.01	19.98	19.92			
100	QPSK	273	0	18.75	18.79	18.74			
100	16QAM	1	1	19.48	19.48	19.54		18.7	
100	64QAM	1	1	17.91	18.06	17.92		20.7	
100	256QAM	1	1	15.55	15.44	15.34	19.2		
Channel				518599	536900	555296	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	21.2	0.0	
90	QPSK	1	1	19.94	20.19	20.02	19.8	0.0	
Channel				500204	518598	536900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	21.2	0.0	
80	QPSK	1	1	20.00	20.17	19.99	21.2	0.0	
Channel				500205	518599	536901	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	21.2	0.0	
70	QPSK	1	1	20.07	20.01	20.09	21.2	0.0	
Channel				500206	518598	536900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98	21.2	0.0	
60	QPSK	1	1	19.98	20.01	20.03	21.2	0.0	
Channel				500207	518599	536901	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	21.2	0.0	
50	QPSK	1	1	20.04	20.02	19.96	21.2	0.0	
Channel				500208	518598	536900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	21.2	0.0	
40	QPSK	1	1	19.98	20.19	20.05	21.2	0.0	
Channel				500209	518598	536900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	21.2	0.0	
30	QPSK	1	1	20.08	20.17	20.00	21.2	0.0	
Channel				501204	518598	536900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	21.2	0.0	
20	QPSK	1	1	20.05	20.14	20.03	21.2	0.0	
Channel				500700	518598	536900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48	21.2	0.0	
15	QPSK	1	1	20.00	20.15	20.01	21.2	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685	21.2	0.0	
10	QPSK	1	1	20.01	20.16	20.06	21.2	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									
Frequency (MHz)				500202	518598	536900			
100	QPSK	1	1	2546.01	2592.99	2640	22.7	0.0	
100	QPSK	1	1	21.82	21.83	21.80			
100	QPSK	1	137	20.70	21.08	20.75			
100	QPSK	1	271	20.71	21.00	20.66			
100	QPSK	137	0	20.71	20.99	20.84			
100	QPSK	137	68	20.83	21.01	20.86	22.7	0.0	
100	QPSK	137	138	19.84	19.86	19.72			
100	QPSK	273	0	20.34	20.38	20.32			
100	16QAM	1	1	20.49	20.65	20.56		22.2	
100	64QAM	1	1	19.55	19.84	19.53		20.0	
100	256QAM	1	1	17.08	17.39	17.07	17.7		
Channel				500203	518599	536901	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	21.85	21.77	21.66	22.7	0.0	
Channel				500204	518598	536900	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)	
80	QPSK	1	1	21.79	21.71	21.65	22.7	0.0	
Channel				500205	518599	536901	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	21.72	21.79	21.85	22.7	0.0	
Channel				500206	518598	536900	Tune-up limit	MPR	
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)	
60	QPSK	1	1	21.84	21.83	21.73	22.7	0.0	
Channel				500207	518599	536901	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)	
50	QPSK	1	1	21.82	21.80	21.75	22.7	0.0	
Channel				500208	518598	536900	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	21.74	21.72	21.60	22.7	0.0	
Channel				500209	518598	536900	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	21.75	21.75	21.62	22.7	0.0	
Channel				501204	518598	536900	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	21.70	21.81	21.71	22.7	0.0	
Channel				500700	518598	536900	Tune-up limit	MPR	
Frequency (MHz)				2503.5	2592.99	2682.48	(dBm)	(dB)	
15	QPSK	1	1	21.70	21.80	21.70	22.7	0.0	
Channel				500202	518598	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	21.83	21.81	21.74	22.7	0.0	

n41 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				50602	51656	52609	22.2	0.0
Frequency (MHz)				2548.01	2592.99	2640		
100	QPSK	1	1	21.15	21.25	21.21		
100	QPSK	1	137	21.02	21.09	21.08	22.2	0.0
100	QPSK	1	271	21.10	21.12	20.94		
100	QPSK	137	0	21.02	21.10	21.12		
100	QPSK	137	48	20.95	21.15	21.11	20.7	1.5
100	QPSK	137	138	21.04	21.04	20.94		
100	QPSK	273	0	20.09	20.10	19.99		
100	64QAM	1	1	21.05	21.15	21.11	21.7	0.5
100	64QAM	1	1	19.08	19.22	19.21	20.2	2.0
100	256QAM	1	1	18.22	18.35	18.25	17.2	5.0
Channel				53500	51858	52998	Tune-up limit	MPR
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	QPSK	1	1	21.01	21.10	21.08	22.2	0.0
Channel				51704	51128	52228	Tune-up limit	MPR
Frequency (MHz)				2538.02	2592.99	2649.99	(dBm)	(dB)
80	QPSK	1	1	21.07	21.10	21.11	22.2	0.0
Channel				52502	51858	53102	Tune-up limit	MPR
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	21.00	21.10	21.09	22.2	0.0
Channel				53500	51858	53198	Tune-up limit	MPR
Frequency (MHz)				2528	2592.99	2659.98	(dBm)	(dB)
60	QPSK	1	1	21.11	21.23	21.09	22.2	0.0
Channel				53404	51858	53298	Tune-up limit	MPR
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)
50	QPSK	1	1	21.13	21.21	21.17	22.2	0.0
Channel				53002	51858	53400	Tune-up limit	MPR
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	21.08	21.11	21.09	22.2	0.0
Channel				53200	51858	53498	Tune-up limit	MPR
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	21.15	21.07	21.04	22.2	0.0
Channel				50104	51858	53098	Tune-up limit	MPR
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	21.09	21.07	21.03	22.2	0.0
Channel				500700	51858	536498	Tune-up limit	MPR
Frequency (MHz)				2503.5	2592.99	2682.48	(dBm)	(dB)
15	QPSK	1	1	21.0	21.07	21.03	22.2	0.0
Channel				500202	51858	537000	Tune-up limit	MPR
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)
10	QPSK	1	1	20.98	21.24	21.15	22.2	0.0



n48_Part96_FCC_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				636000	641666	646332	25.2	0.0
Frequency (MHz)				3570	3624.99	3679.98		
40	PV2 BPSK	1	1	24.20	24.21	24.12		
40	PV2 BPSK	1	53	24.07	24.13	24.00		
40	PV2 BPSK	1	104	24.03	24.18	24.08	24.7	0.5
40	PV2 BPSK	50	0	21.48	21.65	21.46		
40	PV2 BPSK	50	26	24.03	24.11	23.95	22.2	0.5
40	PV2 BPSK	50	56	21.51	21.51	21.33		
40	PV2 BPSK	100	0	21.41	21.54	21.51	25.2	0.0
40	QPSK	1	1	24.14	24.25	24.16		
40	QPSK	1	53	23.92	24.10	24.00		
40	QPSK	1	104	24.04	24.17	23.98		
40	QPSK	50	0	20.93	21.12	20.94	22.2	1.0
40	QPSK	50	26	23.88	24.04	24.02		
40	QPSK	50	56	21.04	21.06	21.06	24.2	1.0
40	QPSK	100	0	20.98	21.08	20.90		
40	16QAM	1	1	23.06	23.13	22.96	22.7	2.5
40	64QAM	1	1	21.70	21.74	21.67		
40	256QAM	1	1	19.52	19.63	19.60	20.7	4.5
Channel				637334	641666	646000	Tune-up limit	MPR
Frequency (MHz)				3501.1	3524.99	3559	(dBm)	(dB)
20	QPSK	1	1	24.14	24.19	24.01	25.2	0.0
Channel				637000	641666	646332	Tune-up limit	MPR
Frequency (MHz)				3505	3524.99	3564.98	(dBm)	(dB)
10	QPSK	1	1	24.19	24.20	24.04	25.2	0.0

n48_Part96_FCC_ANT 13								
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				636000	641666	646332	25.2	0.0
Frequency (MHz)				3570	3624.99	3679.98		
40	PV2 BPSK	1	1	24.07	24.21	24.18		
40	PV2 BPSK	1	53	24.01	24.20	24.11		
40	PV2 BPSK	1	104	24.11	24.22	24.19	24.7	0.5
40	PV2 BPSK	50	0	21.50	21.67	21.56		
40	PV2 BPSK	50	26	24.03	24.18	24.12	22.2	0.5
40	PV2 BPSK	50	56	21.53	21.66	21.58		
40	PV2 BPSK	100	0	21.60	21.68	21.59	25.2	0.0
40	QPSK	1	1	24.25	24.28	24.21		
40	QPSK	1	53	24.16	24.16	24.13		
40	QPSK	1	104	24.22	24.23	24.18		
40	QPSK	50	0	21.08	21.20	21.15	22.2	1.0
40	QPSK	50	26	24.14	24.19	24.17		
40	QPSK	50	56	21.07	21.20	21.17	24.2	1.0
40	QPSK	100	0	21.08	21.15	21.11		
40	16QAM	1	1	23.30	23.32	23.14	22.7	2.5
40	64QAM	1	1	21.90	22.20	22.17		
40	256QAM	1	1	19.46	19.73	19.66	20.7	4.5
Channel				637334	641666	646000	Tune-up limit	MPR
Frequency (MHz)				3501.1	3524.99	3559	(dBm)	(dB)
20	QPSK	1	1	24.11	24.05	23.96	25.2	0.0
Channel				637000	641666	646332	Tune-up limit	MPR
Frequency (MHz)				3505	3524.99	3564.98	(dBm)	(dB)
10	QPSK	1	1	24.10	24.14	24.05	25.2	0.0



Par270 n77_FCC_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	24.2	0.0	
100	PV2 BPSK	1	1	23.03	23.15	23.10			
100	PV2 BPSK	1	137	23.11	23.02	23.04			
100	PV2 BPSK	1	271	22.94	22.90	22.94			
100	PV2 BPSK	135	0	23.06	22.91	22.93	23.7	0.5	
100	PV2 BPSK	135	66	23.06	22.98	23.00	24.2	0.0	
100	PV2 BPSK	135	138	23.07	22.97	23.00	23.7	0.5	
100	PV2 BPSK	270	0	23.02	22.94	22.90			
100	QPSK	1	1	23.15	23.10	23.11	24.2	0.0	
100	QPSK	1	137	23.11	23.03	23.09			
100	QPSK	1	271	22.88	22.90	23.00			
100	QPSK	135	0	22.88	22.96	22.90			
100	QPSK	135	66	22.92	23.03	22.98	24.2	0.0	
100	QPSK	135	138	22.88	22.91	22.95	23.2	1.0	
100	QPSK	270	0	22.91	23.00	22.97			
100	16QAM	1	1	22.93	22.96	22.88	23.2	1.0	
100	64QAM	1	1	21.89	21.59	21.50	21.7	2.5	
100	256QAM	1	1	19.35	19.30	19.25	19.7	4.5	
Channel				649668	650000	662332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3840	3934.98	(dBm)	(dB)	
50	QPSK	1	1	22.53	23.05	22.97	24.2	0.0	
Channel				649334	650000	662666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)	
50	QPSK	1	1	22.59	23.05	22.94	24.2	0.0	
Channel				649000	650000	663000	Tune-up limit	MPR	
Frequency (MHz)				3737.00	3840	3943.00	(dBm)	(dB)	
70	QPSK	1	1	22.57	23.00	23.05	24.2	0.0	
Channel				648668	650000	663332	Tune-up limit	MPR	
Frequency (MHz)				3733.02	3840	3946.98	(dBm)	(dB)	
60	QPSK	1	1	22.58	23.05	22.96	24.2	0.0	
Channel				648334	650000	663666	Tune-up limit	MPR	
Frequency (MHz)				3729.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	22.58	23.09	23.09	24.2	0.0	
Channel				648000	650000	664000	Tune-up limit	MPR	
Frequency (MHz)				3726.00	3840	3960.00	(dBm)	(dB)	
40	QPSK	1	1	22.96	23.06	22.93	24.2	0.0	
Channel				647668	650000	664332	Tune-up limit	MPR	
Frequency (MHz)				3723.02	3840	3964.98	(dBm)	(dB)	
30	QPSK	1	1	22.94	23.05	22.95	24.2	0.0	
Channel				647334	650000	664666	Tune-up limit	MPR	
Frequency (MHz)				3720.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	22.82	23.14	22.98	24.2	0.0	
Channel				647168	650000	664832	Tune-up limit	MPR	
Frequency (MHz)				3717.53	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	22.95	23.07	22.98	24.2	0.0	
Channel				647000	650000	665000	Tune-up limit	MPR	
Frequency (MHz)				3715.00	3840	3975.00	(dBm)	(dB)	
10	QPSK	1	1	22.84	23.15	23.04	24.2	0.0	

Par270 n77 HPUE_FCC_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	26.7	0.0	
100	PV2 BPSK	1	1	25.02	25.10	25.06			
100	PV2 BPSK	1	137	25.09	25.13	25.13			
100	PV2 BPSK	1	271	24.92	25.02	24.92			
100	PV2 BPSK	135	0	24.49	24.59	24.49	26.2	0.5	
100	PV2 BPSK	135	66	25.01	25.08	25.08	26.7	0.0	
100	PV2 BPSK	135	138	24.62	24.57	24.47	26.2	0.5	
100	PV2 BPSK	270	0	24.59	24.55	24.52			
100	QPSK	1	1	25.15	25.16	25.15	26.7	0.0	
100	QPSK	1	137	25.10	25.13	25.14			
100	QPSK	1	271	24.98	25.04	25.02			
100	QPSK	135	0	24.48	24.51	24.42			
100	QPSK	135	66	24.99	25.05	25.00	26.7	0.0	
100	QPSK	135	138	24.50	24.45	24.37	25.7	1.0	
100	QPSK	270	0	23.94	23.97	23.89			
100	16QAM	1	1	24.07	24.02	23.97	25.7	1.0	
100	64QAM	1	1	22.56	22.54	22.48	24.2	2.5	
100	256QAM	1	1	20.26	20.32	20.36	22.2	4.5	
Channel				649668	650000	662332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3840	3934.98	(dBm)	(dB)	
50	QPSK	1	1	24.98	24.98	24.84	26.7	0.0	
Channel				649334	650000	662666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)	
50	QPSK	1	1	24.07	25.00	24.55	25.7	0.0	
Channel				649000	650000	663000	Tune-up limit	MPR	
Frequency (MHz)				3737.00	3840	3943.00	(dBm)	(dB)	
70	QPSK	1	1	24.90	24.94	24.91	26.7	0.0	
Channel				648668	650000	663332	Tune-up limit	MPR	
Frequency (MHz)				3733.02	3840	3946.98	(dBm)	(dB)	
60	QPSK	1	1	25.00	24.98	24.81	26.7	0.0	
Channel				648334	650000	663666	Tune-up limit	MPR	
Frequency (MHz)				3729.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	24.92	24.96	24.92	26.7	0.0	
Channel				648000	650000	664000	Tune-up limit	MPR	
Frequency (MHz)				3726.00	3840	3960.00	(dBm)	(dB)	
40	QPSK	1	1	24.93	24.94	24.89	26.7	0.0	
Channel				647668	650000	664332	Tune-up limit	MPR	
Frequency (MHz)				3723.02	3840	3964.98	(dBm)	(dB)	
30	QPSK	1	1	24.89	24.96	24.89	26.7	0.0	
Channel				647334	650000	664666	Tune-up limit	MPR	
Frequency (MHz)				3720.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	24.90	24.92	25.00	26.7	0.0	
Channel				647168	650000	664832	Tune-up limit	MPR	
Frequency (MHz)				3717.53	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	24.91	24.97	24.88	26.7	0.0	
Channel				647000	650000	665000	Tune-up limit	MPR	
Frequency (MHz)				3715.00	3840	3975.00	(dBm)	(dB)	
10	QPSK	1	1	24.87	24.97	24.97	26.7	0.0	



Par27Q n77_FCC_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)				633300	3499.98				
100	P12 BPSK	1	1		23.37		24.2	0.0	
100	P12 BPSK	1	137		23.41				
100	P12 BPSK	1	271		23.40				
100	P12 BPSK	135	0		23.35		23.7	0.5	
100	P12 BPSK	135	69		23.38		24.2	0.0	
100	P12 BPSK	135	138		23.32		23.7	0.5	
100	P12 BPSK	270	0		23.32				
100	QPSK	1	1		23.50				
100	QPSK	1	137		23.44		24.2	0.0	
100	QPSK	1	271		23.47				
100	QPSK	135	0		23.32				
100	QPSK	135	69		23.40		24.2	0.0	
100	QPSK	135	138		23.30		23.2	1.0	
100	QPSK	270	0		22.31		23.2	1.0	
100	16QAM	1	1		22.33		23.2	1.0	
100	64QAM	1	1		21.70		21.7	2.5	
100	256QAM	1	1		19.01		19.7	4.5	
Channel									
Frequency (MHz)				633300	3499.98	3504.99	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1		23.07	23.32	23.12	24.2	0.0
Channel				632668	3499.98	3510.00	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1		23.24	23.29	23.29	24.2	0.0
Channel				632334	3499.98	3515.00	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1		23.23	23.30	23.30	24.2	0.0
Channel				632000	3499.98	3520.00	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1		23.06	23.22	23.26	24.2	0.0
Channel				631668	3499.98	3525.00	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1		23.18	23.26	23.18	24.2	0.0
Channel				631334	3499.98	3530.00	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1		23.18	23.31	23.29	24.2	0.0
Channel				631000	3499.98	3535.00	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1		23.24	23.27	23.26	24.2	0.0
Channel				630668	3499.98	3540.00	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1		23.15	23.29	23.14	24.2	0.0
Channel				630500	3499.98	3545.00	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1		23.11	23.35	23.24	24.2	0.0
Channel				630334	3499.98	3550.00	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1		23.24	23.30	23.29	24.2	0.0

Par27Q n77 HPUE_FCC_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	633332			
Frequency (MHz)					3499.98			
100	P12 BPSK	1	1		25.40		26.7	0.0
100	P12 BPSK	1	137		25.47			
100	P12 BPSK	1	271		25.40			
100	P12 BPSK	135	0		24.84		26.2	0.5
100	P12 BPSK	135	69		25.42		26.7	0.0
100	P12 BPSK	135	138		24.95		26.2	0.5
100	P12 BPSK	270	0		24.87			
100	QPSK	1	1		25.55			
100	QPSK	1	137		25.40		26.7	0.0
100	QPSK	1	271		25.51			
100	QPSK	135	0		24.38			
100	QPSK	135	69		25.43		26.7	0.0
100	QPSK	135	138		24.39		25.7	1.0
100	QPSK	270	0		25.35		25.7	1.0
100	16QAM	1	1		24.48		25.7	1.0
100	64QAM	1	1		22.78		24.2	2.5
100	256QAM	1	1		21.06		22.2	4.5
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.99		
90	QPSK	1	1	25.40	25.42	25.46	26.7	0.0
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3499.98	3510		
80	QPSK	1	1	25.37	25.49	25.39	26.7	0.0
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3499.98	3514.98		
70	QPSK	1	1	25.40	25.39	25.43	26.7	0.0
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3499.98	3519.99		
60	QPSK	1	1	25.37	25.40	25.34	26.7	0.0
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3499.98	3525		
50	QPSK	1	1	25.31	25.36	25.32	26.7	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98		
40	QPSK	1	1	25.48	25.44	25.31	26.7	0.0
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.99		
30	QPSK	1	1	25.37	25.48	25.47	26.7	0.0
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20	QPSK	1	1	25.47	25.45	25.43	26.7	0.0
Channel				630500	633332	636166	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3499.98	3542.49		
15	QPSK	1	1	25.35	25.51	25.43	26.7	0.0
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3499.98	3544.98		
10	QPSK	1	1	25.44	25.49	25.30	26.7	0.0



Par270 n77_FCC_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	22.2	0.0	
100	QPSK	1	1	21.22	21.28	21.15			
100	QPSK	1	137	21.30	21.07	21.03			
100	QPSK	1	271	21.20	20.97	21.01			
100	QPSK	137	0	21.16	21.11	20.95			
100	QPSK	137	68	21.34	21.07	20.95	22.2	0.0	
100	QPSK	137	138	21.25	20.97	20.98			
100	QPSK	273	0	21.17	21.07	20.98			
100	16QAM	1	1	21.21	21.14	20.92			
100	64QAM	1	1	21.10	21.04	21.17			
100	256QAM	1	1	18.24	18.23	18.44	19.7	2.5	
Channel				64686	656000	665332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)	
90	QPSK	1	1	21.05	21.20	21.09	22.2	0.0	
				646863	656000	665255	Tune-up limit	MPR	
				3740.01	3840	3939.99	(dBm)	(dB)	
				21.03	21.13	21.08	22.2	0.0	
				649000	656000	663000	Tune-up limit	MPR	
80	QPSK	1	1	3735	3840	3945	(dBm)	(dB)	
				21.10	21.21	21.07	22.2	0.0	
				649000	656000	663332	Tune-up limit	MPR	
				3730.02	3840	3949.98	(dBm)	(dB)	
				21.10	21.24	21.07	22.2	0.0	
70	QPSK	1	1	64686	656000	663332	Tune-up limit	MPR	
				3725.01	3840	3954.99	(dBm)	(dB)	
				21.18	21.22	21.06	22.2	0.0	
				649000	656000	663000	Tune-up limit	MPR	
				3720	3840	3960	(dBm)	(dB)	
60	QPSK	1	1	21.11	21.22	21.04	22.2	0.0	
				649000	656000	664000	Tune-up limit	MPR	
				3715.02	3840	3964.99	(dBm)	(dB)	
				21.11	21.22	21.03	22.2	0.0	
				647334	656000	664666	Tune-up limit	MPR	
40	QPSK	1	1	3710.01	3840	3969.99	(dBm)	(dB)	
				21.07	21.11	21.05	22.2	0.0	
				649000	656000	664332	Tune-up limit	MPR	
				3707.52	3840	3972.48	(dBm)	(dB)	
				21.04	21.10	21.02	22.2	0.0	
30	QPSK	1	1	647168	656000	664832	Tune-up limit	MPR	
				3707.52	3840	3972.48	(dBm)	(dB)	
				21.07	21.11	21.05	22.2	0.0	
				649000	656000	664000	Tune-up limit	MPR	
				3705	3840	3975	(dBm)	(dB)	
20	QPSK	1	1	21.08	21.20	21.00	22.2	0.0	
				647168	656000	664832	Tune-up limit	MPR	
				3707.52	3840	3972.48	(dBm)	(dB)	
				21.04	21.10	21.02	22.2	0.0	
				647168	656000	665000	Tune-up limit	MPR	
15	QPSK	1	1	3705	3840	3975	(dBm)	(dB)	
				21.08	21.25	21.00	22.2	0.0	
				Frequency (MHz)					
				10	QPSK	1	1	0.0	

Par27Q n77_FCC_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	633332	3499.98	22.2	0.0	
100	QPSK	1	1	21.30	21.30				
100	QPSK	1	137	21.18	21.18				
100	QPSK	1	271	21.17	21.17				
100	QPSK	137	0	21.08	21.08				
100	QPSK	137	68	21.06	21.06		22.2	0.0	
100	QPSK	137	138	21.03	21.03				
100	QPSK	273	0	21.11	21.11				
100	16QAM	1	1	20.98	20.98				
100	64QAM	1	1	21.25	21.25				
100	256QAM	1	1	18.95	18.95		19.7	2.5	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dbm)	(db)	
90	QPSK	1	1	21.22	21.20	21.20	22.2	0.0	
				633332	633332	633000	Tune-up limit	MPR	
				3490.02	3499.98	3510	(dbm)	(db)	
				21.18	21.29	21.25	22.2	0.0	
				633334	633332	634332	Tune-up limit	MPR	
80	QPSK	1	1	3495.01	3499.98	3514.98	(dbm)	(db)	
				21.21	21.21	21.15	22.2	0.0	
				633000	633332	634666	Tune-up limit	MPR	
				3490	3499.98	3519.99	(dbm)	(db)	
				21.13	21.11	21.15	22.2	0.0	
70	QPSK	1	1	633000	633332	635000	Tune-up limit	MPR	
				3485.02	3499.98	3525	(dbm)	(db)	
				21.28	21.29	21.22	22.2	0.0	
				633334	633332	635332	Tune-up limit	MPR	
				3470.01	3499.98	3529.98	(dbm)	(db)	
60	QPSK	1	1	21.24	21.16	21.20	22.2	0.0	
				633000	633332	635666	Tune-up limit	MPR	
				3465	3499.98	3534.99	(dbm)	(db)	
				21.11	21.07	21.23	22.2	0.0	
				633668	633332	636000	Tune-up limit	MPR	
50	QPSK	1	1	3460.02	3499.98	3540	(dbm)	(db)	
				21.12	21.15	21.11	22.2	0.0	
				633500	633332	636166	Tune-up limit	MPR	
				3457.5	3499.98	3542.49	(dbm)	(db)	
				21.23	21.13	21.13	22.2	0.0	
40	QPSK	1	1	633034	633332	636332	Tune-up limit	MPR	
				3455.01	3499.98	3544.98	(dbm)	(db)	
				21.29	21.19	21.16	22.2	0.0	
				Frequency (MHz)					
				10	QPSK	1	1	0.0	



Par270 n77_FCC_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)				3750	3840	3930	22.7	0.0	
100	PV2 BPSK	1	1	21.52	21.42	21.34			
100	PV2 BPSK	1	137	21.43	21.44	21.45			
100	PV2 BPSK	1	271	21.25	21.29	21.24			
100	PV2 BPSK	135	0	21.53	21.43	21.36			
100	PV2 BPSK	135	86	21.50	21.43	21.35	22.7	0.0	
100	PV2 BPSK	135	138	21.33	21.32	21.25	22.2	0.5	
100	PV2 BPSK	270	0	21.44	21.39	21.46			
100	QPSK	1	1	21.66	21.65	21.62	22.7	0.0	
100	QPSK	1	137	21.57	21.66	21.55			
100	QPSK	1	271	21.35	21.35	21.35			
100	QPSK	135	0	21.47	21.45	21.40			
100	QPSK	135	86	21.82	21.53	21.44			
100	QPSK	135	138	21.36	21.27	21.34	21.7	1.0	
100	QPSK	270	0	21.02	21.07	21.05			
100	16QAM	1	1	21.05	21.10	21.08	21.7	1.0	
100	64QAM	1	1	19.45	19.40	19.42	20.2	2.5	
100	256QAM	1	1	17.48	17.50	17.55	19.2	4.5	
Channel				649668	659000	662332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3840	3934.98	(dBm)	(dB)	
50	QPSK	1	1	21.38	21.24	21.25	22.7	0.0	
Channel				649334	659000	662666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3935.99	(dBm)	(dB)	
80	QPSK	1	1	21.34	21.30	21.23	22.7	0.0	
Channel				649000	659000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	21.33	21.32	21.18	22.7	0.0	
Channel				648668	659000	663332	Tune-up limit	MPR	
Frequency (MHz)				3732.02	3840	3948.98	(dBm)	(dB)	
60	QPSK	1	1	21.41	21.27	21.22	22.7	0.0	
Channel				648334	659000	663666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	21.37	21.34	21.30	22.7	0.0	
Channel				648000	659000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	21.44	21.24	21.15	22.7	0.0	
Channel				647668	659000	664332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840.00	3964.98	(dBm)	(dB)	
30	QPSK	1	1	21.33	21.42	21.29	22.7	0.0	
Channel				647500	659000	664500	Tune-up limit	MPR	
Frequency (MHz)				3712.5	3840.00	3967.50	(dBm)	(dB)	
25	QPSK	1	1	21.50	21.39	21.30	22.7	0.0	
Channel				647334	659000	664666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	21.46	21.32	21.31	22.7	0.0	
Channel				647168	659000	664832	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	21.38	21.27	21.29	22.7	0.0	
Channel				647000	659000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	21.44	21.42	21.34	22.7	0.0	

Par270 n77 HPUE_FCC_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)				3750	3840	3930	25.2	0.0	
100	PV2 BPSK	1	1	23.87	23.92	23.83			
100	PV2 BPSK	1	137	23.95	23.90	23.94			
100	PV2 BPSK	1	271	23.86	23.95	23.93			
100	PV2 BPSK	135	0	23.33	23.37	23.37			
100	PV2 BPSK	135	86	23.85	23.90	23.89	25.2	0.0	
100	PV2 BPSK	135	138	23.48	23.44	23.43	24.7	0.5	
100	PV2 BPSK	270	0	23.35	23.40	23.34			
100	QPSK	1	1	23.94	23.97	23.93	25.2	0.0	
100	QPSK	1	137	23.89	23.96	23.90			
100	QPSK	1	271	23.86	23.92	23.89			
100	QPSK	135	0	23.66	23.65	23.63			
100	QPSK	135	86	23.84	23.92	23.90			
100	QPSK	135	138	23.60	23.55	23.62	24.2	1.0	
100	QPSK	270	0	23.10	23.12	23.11			
100	16QAM	1	1	23.00	23.02	23.08	24.2	1.0	
100	64QAM	1	1	21.53	21.57	21.48	22.7	2.5	
100	256QAM	1	1	19.40	19.38	19.29	20.7	4.5	
Channel				649668	659000	662332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3840	3934.98	(dBm)	(dB)	
50	QPSK	1	1	23.83	23.84	23.70	25.2	0.0	
Channel				649334	659000	662666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3935.99	(dBm)	(dB)	
80	QPSK	1	1	23.81	23.83	23.60	25.2	0.0	
Channel				649000	659000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	23.84	23.83	23.76	25.2	0.0	
Channel				648668	659000	663332	Tune-up limit	MPR	
Frequency (MHz)				3732.02	3840	3948.98	(dBm)	(dB)	
60	QPSK	1	1	23.87	23.85	23.82	25.2	0.0	
Channel				648334	659000	663666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	23.84	23.81	23.78	25.2	0.0	
Channel				648000	659000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	23.81	23.80	23.72	25.2	0.0	
Channel				647668	659000	664332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840.00	3964.98	(dBm)	(dB)	
30	QPSK	1	1	23.87	23.81	23.70	25.2	0.0	
Channel				647500	659000	664500	Tune-up limit	MPR	
Frequency (MHz)				3712.5	3840.00	3967.50	(dBm)	(dB)	
25	QPSK	1	1	23.74	23.83	23.78	25.2	0.0	
Channel				647334	659000	664666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	23.80	23.75	23.80	25.2	0.0	
Channel				647168	659000	664832	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	23.81	23.81	23.70	25.2	0.0	
Channel				647000	659000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	23.87	23.79	23.73	25.2	0.0	



Par27Q n77_FCC_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)				633332	3499.98				
100	PV2 BPSK	1	1	21.41	21.41		22.7	0.0	
100	PV2 BPSK	1	137	21.46	21.46				
100	PV2 BPSK	1	271	21.35					
100	PV2 BPSK	135	0	21.38			22.2	0.5	
100	PV2 BPSK	135	86	21.41			22.7	0.0	
100	PV2 BPSK	135	138	21.28			22.2	0.5	
100	PV2 BPSK	270	0	21.40					
100	QPSK	1	1	21.61					
100	QPSK	1	137	21.53			22.7	0.0	
100	QPSK	1	271	21.13					
100	QPSK	135	0	21.27					
100	QPSK	135	86	21.44			22.7	0.0	
100	QPSK	135	138	21.17					
100	QPSK	270	0	21.10			21.7	1.0	
100	16QAM	1	1	21.15			21.7	1.0	
100	64QAM	1	1	19.42			20.2	2.5	
100	256QAM	1	1	17.32			19.2	4.5	
Channel									
Frequency (MHz)				633000	633332	633666	Tune-up limit (dBm)	MPR	
30	QPSK	1	1	21.50	21.37	21.45	22.7	0.5	
Channel									
Frequency (MHz)				632668	633332	634000	Tune-up limit (dBm)	MPR	
80	QPSK	1	1	21.47	21.33	21.35	22.7	0.5	
Channel									
Frequency (MHz)				632334	633332	634332	Tune-up limit (dBm)	MPR	
70	QPSK	1	1	21.39	21.54	21.33	22.7	0.0	
Channel									
Frequency (MHz)				632000	633332	634666	Tune-up limit (dBm)	MPR	
60	QPSK	1	1	21.41	21.36	21.44	22.7	0.0	
Channel									
Frequency (MHz)				631668	633332	635000	Tune-up limit (dBm)	MPR	
50	QPSK	1	1	21.43	21.41	21.45	22.7	0.0	
Channel									
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR	
40	QPSK	1	1	21.38	21.43	21.31	22.7	0.0	
Channel									
Frequency (MHz)				631000	633332	635666	Tune-up limit (dBm)	MPR	
30	QPSK	1	1	21.43	21.54	21.32	22.7	0.0	
Channel									
Frequency (MHz)				630834	633332	635832	Tune-up limit (dBm)	MPR	
25	QPSK	1	1	21.34	21.49	21.40	22.7	0.0	
Channel									
Frequency (MHz)				630668	633332	636000	Tune-up limit (dBm)	MPR	
20	QPSK	1	1	21.48	21.54	21.33	22.7	0.0	
Channel									
Frequency (MHz)				630500	633332	636166	Tune-up limit (dBm)	MPR	
15	QPSK	1	1	21.43	21.52	21.44	22.7	0.0	
Channel									
Frequency (MHz)				630334	633332	636332	Tune-up limit (dBm)	MPR	
10	QPSK	1	1	21.47	21.44	21.38	22.7	0.0	

Par27Q n77 HPUE_FCC_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)				633332	3499.98				
100	PV2 BPSK	1	1	24.15	24.15				
100	PV2 BPSK	1	137	23.96					
100	PV2 BPSK	1	271	24.04			25.2	0.0	
100	PV2 BPSK	135	0	23.59			24.7	0.5	
100	PV2 BPSK	135	86	23.98			25.2	0.0	
100	PV2 BPSK	135	138	23.42			24.7	0.5	
100	PV2 BPSK	270	0	23.41					
100	QPSK	1	1	24.17					
100	QPSK	1	137	24.01			25.2	0.0	
100	QPSK	1	271	24.08					
100	QPSK	135	0	23.50					
100	QPSK	135	86	23.98			25.2	0.0	
100	QPSK	135	138	23.51			24.2	1.0	
100	QPSK	270	0	23.55			24.2	1.0	
100	16QAM	1	1	23.40			24.2	1.0	
100	64QAM	1	1	21.82			22.7	2.5	
100	256QAM	1	1	18.44			20.7	4.5	
Channel									
Frequency (MHz)				633000	633332	633666	Tune-up limit (dBm)	MPR	
30	QPSK	1	1	23.86	24.01	24.07	25.2	0.0	
Channel									
Frequency (MHz)				632668	633332	634000	Tune-up limit (dBm)	MPR	
80	QPSK	1	1	23.91	24.07	24.04	25.2	0.0	
Channel									
Frequency (MHz)				632334	633332	634332	Tune-up limit (dBm)	MPR	
70	QPSK	1	1	24.00	24.07	23.53	25.2	0.0	
Channel									
Frequency (MHz)				632000	633332	634666	Tune-up limit (dBm)	MPR	
60	QPSK	1	1	24.04	24.05	23.98	25.2	0.0	
Channel									
Frequency (MHz)				631668	633332	635000	Tune-up limit (dBm)	MPR	
50	QPSK	1	1	24.01	24.03	23.97	25.2	0.0	
Channel									
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR	
40	QPSK	1	1	24.10	24.10	24.08	25.2	0.0	
Channel									
Frequency (MHz)				631000	633332	635666	Tune-up limit (dBm)	MPR	
30	QPSK	1	1	24.08	23.99	24.05	25.2	0.0	
Channel									
Frequency (MHz)				630834	633332	635832	Tune-up limit (dBm)	MPR	
25	QPSK	1	1	24.03	24.05	24.10	25.2	0.0	
Channel									
Frequency (MHz)				630668	633332	636000	Tune-up limit (dBm)	MPR	
20	QPSK	1	1	24.04	24.07	23.98	25.2	0.0	
Channel									
Frequency (MHz)				630500	633332	636166	Tune-up limit (dBm)	MPR	
15	QPSK	1	1	23.97	24.02	24.12	25.2	0.0	
Channel									
Frequency (MHz)				630334	633332	636332	Tune-up limit (dBm)	MPR	
10	QPSK	1	1	24.07	24.04	23.99	25.2	0.0	



Par27O n77_FCC_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				660000	660000	660000	20.7	0.0	
Frequency (MHz)				3760	3840	3920			
100	QPSK	1	1	20.00	20.05	19.86			
100	QPSK	1	137	19.96	19.82	19.77			
100	QPSK	1	271	19.90	19.79	19.80			
100	QPSK	137	0	20.00	19.91	19.83	20.7	0.0	
100	QPSK	137	68	19.97	19.92	19.86			
100	QPSK	137	138	19.85	19.78	19.47			
100	QPSK	273	0	20.00	19.92	19.85			
100	16QAM	1	1	19.94	19.98	19.45		0.0	
100	64QAM	1	1	20.02	19.95	19.82	20.7	0.0	
100	256QAM	1	1	17.33	17.24	17.16	18.2	2.5	
Channel				642968	652000	662332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)	
90	QPSK	1	1	19.87	19.81	19.81	20.7	0.0	
Channel				645344	652000	662056	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)	
80	QPSK	1	1	20.00	19.93	19.78	20.7	0.0	
Channel				649200	659000	669000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	20.00	20.02	19.73	20.7	0.0	
Channel				649688	659000	668332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3949.98	(dBm)	(dB)	
60	QPSK	1	1	19.93	19.83	19.75	20.7	0.0	
Channel				646344	659000	667968	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	19.88	19.83	19.85	20.7	0.0	
Channel				646000	659000	667000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	19.55	19.82	19.60	20.7	0.0	
Channel				647688	659000	664332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840.00	3964.98	(dBm)	(dB)	
30	QPSK	1	1	19.07	19.90	19.72	20.7	0.0	
Channel				647334	659000	664666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	19.10	19.99	19.70	20.7	0.0	
Channel				647168	659000	664832	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	19.29	19.94	19.72	20.7	0.0	
Channel				647000	659000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	19.84	19.87	19.80	20.7	0.0	

Par27Q n77_FCC_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		3499.98	20.7	0.0	
Frequency (MHz)				1		20.15			
100	QPSK	1	1			20.00			
100	QPSK	1	271			20.08			
100	QPSK	137	0			20.07			
100	QPSK	137	68			19.98	20.7	0.0	
100	QPSK	137	138			20.00			
100	QPSK	273	0			20.03			
100	16QAM	1	1			20.10			
100	64QAM	1	1			20.13			
100	256QAM	1	1			17.35	20.7	0.0	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	20.11	19.99	20.14	20.7	0.0	
Channel				632666	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3499.98	3510	(dBm)	(dB)	
80	QPSK	1	1	20.14	20.10	20.12	20.7	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	19.98	19.96	20.00	20.7	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)	
60	QPSK	1	1	20.02	19.96	19.97	20.7	0.0	
Channel				631666	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1	19.87	19.86	19.95	20.7	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3520.98	(dBm)	(dB)	
40	QPSK	1	1	20.02	19.99	20.00	20.7	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	20.10	20.04	20.10	20.7	0.0	
Channel				630666	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1	20.12	20.05	20.00	20.7	0.0	
Channel				630500	633332	636166	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3499.98	3542.49	(dBm)	(dB)	
15	QPSK	1	1	20.05	19.97	19.92	20.7	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1	19.97	20.14	20.08	20.7	0.0	



Par270 n77_FCC_ANT 10									
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	24.2	0.0	
100	PV2 BPSK	1	1	23.04	22.97	22.98			
100	PV2 BPSK	1	137	22.92	22.93	23.00			
100	PV2 BPSK	1	271	23.01	23.03	23.02			
100	PV2 BPSK	135	0	22.98	22.96	22.99	23.7	0.5	
100	PV2 BPSK	135	66	22.94	22.91	22.95	24.2	0.0	
100	PV2 BPSK	135	138	23.02	22.93	23.01	23.7	0.5	
100	PV2 BPSK	270	0	22.94	22.92	22.85			
100	QPSK	1	1	23.12	23.15	23.09	24.2	0.0	
100	QPSK	1	137	23.06	23.10	23.07			
100	QPSK	1	271	23.09	23.11	23.11			
100	QPSK	135	0	22.90	22.80	22.90			
100	QPSK	135	66	22.92	22.95	22.93	24.2	0.0	
100	QPSK	135	138	22.88	22.91	22.92	23.2	1.0	
100	QPSK	270	0	22.92	22.92	22.90			
100	16QAM	1	1	22.88	22.85	22.88	23.2	1.0	
100	64QAM	1	1	21.31	21.24	21.28	21.7	2.5	
100	256QAM	1	1	19.33	19.30	19.20	19.7	4.5	
Channel				649668	659000	662332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3840	3934.99	(dBm)	(dB)	
50	QPSK	1	1	22.92	22.84	22.94	24.2	0.0	
Channel				649334	659000	662666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)	
80	QPSK	1	1	22.96	22.93	22.93	24.2	0.0	
Channel				649000	659000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	22.99	22.89	22.83	24.2	0.0	
Channel				648668	659000	663332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3949.99	(dBm)	(dB)	
60	QPSK	1	1	22.98	22.84	22.98	24.2	0.0	
Channel				648334	659000	663666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	23.03	22.79	22.90	24.2	0.0	
Channel				648000	659000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	22.94	22.86	22.95	24.2	0.0	
Channel				647668	659000	664332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3964.99	(dBm)	(dB)	
30	QPSK	1	1	22.98	22.81	22.85	24.2	0.0	
Channel				647334	659000	664666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	23.04	22.91	22.91	24.2	0.0	
Channel				647168	659000	664832	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	22.92	22.91	22.85	24.2	0.0	
Channel				647000	659000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	22.99	22.84	22.95	24.2	0.0	

Par270 n77 HPUE_FCC_ANT 10									
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	26.7	0.0	
100	PV2 BPSK	1	1	24.92	24.97	24.88			
100	PV2 BPSK	1	137	25.05	25.03	25.03			
100	PV2 BPSK	1	271	25.10	25.09	25.14			
100	PV2 BPSK	135	0	24.41	24.47	24.38	26.2	0.5	
100	PV2 BPSK	135	66	25.06	25.05	25.09	26.7	0.0	
100	PV2 BPSK	135	138	24.53	24.51	24.55	26.2	0.5	
100	PV2 BPSK	270	0	24.40	24.44	24.48			
100	QPSK	1	1	25.16	25.25	25.21	26.7	0.0	
100	QPSK	1	137	25.13	25.20	25.19			
100	QPSK	1	271	25.15	25.17	25.11			
100	QPSK	135	0	24.53	24.57	24.52			
100	QPSK	135	66	24.98	25.09	25.07	26.7	0.0	
100	QPSK	135	138	24.65	24.60	24.52	26.2	1.0	
100	QPSK	270	0	23.95	24.02	23.94	25.7	1.0	
100	16QAM	1	1	24.20	24.17	24.15	25.7	1.0	
100	64QAM	1	1	22.28	22.38	22.29	24.2	2.5	
100	256QAM	1	1	20.35	20.39	20.42	22.2	4.5	
Channel				648668	659000	662332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3840	3934.99	(dBm)	(dB)	
50	QPSK	1	1	24.81	24.93	24.84	26.7	0.0	
Channel				648334	659000	662666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)	
80	QPSK	1	1	24.82	24.86	24.77	26.7	0.0	
Channel				648000	659000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	24.82	24.82	24.84	26.7	0.0	
Channel				648668	659000	663332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3949.99	(dBm)	(dB)	
60	QPSK	1	1	24.83	24.84	24.73	26.7	0.0	
Channel				648334	659000	663666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	24.73	24.88	24.81	26.7	0.0	
Channel				648000	659000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	24.79	24.88	24.81	26.7	0.0	
Channel				647668	659000	664332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3964.99	(dBm)	(dB)	
30	QPSK	1	1	24.78	24.97	24.70	26.7	0.0	
Channel				647334	659000	664666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	24.82	24.93	24.78	26.7	0.0	
Channel				647168	659000	664832	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	24.80	24.78	24.78	26.7	0.0	
Channel				647000	659000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	24.88	24.95	24.87	26.7	0.0	



Par27Q n77_FCC_ANT 10									
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	633332	633332			
100	PV2 BPSK	1	1	3499.98	23.18				
100	PV2 BPSK	1	137		23.10		24.2	0.0	
100	PV2 BPSK	1	271		23.20				
100	PV2 BPSK	135	0		23.16		23.7	0.5	
100	PV2 BPSK	135	66		23.14		23.2	0.0	
100	PV2 BPSK	135	138		23.10		23.7	0.5	
100	PV2 BPSK	270	0		23.04				
100	QPSK	1	1		23.30				
100	QPSK	1	137		23.14		24.2	0.0	
100	QPSK	1	271		23.22				
100	QPSK	135	0		23.15				
100	QPSK	135	66		23.20		24.2	0.0	
100	QPSK	135	138		23.08				
100	QPSK	270	0		23.07		23.2	1.0	
100	16QAM	1	1		23.08		23.2	1.0	
100	64QAM	1	1		20.71		21.7	2.5	
100	256QAM	1	1		18.79		19.7	4.5	
Channel									
Frequency (MHz)				633000	633332	633666	Tune-up limit	MPR	
80	QPSK	1	1	3499.98	2499.98	3504.99	(dBm)	(dB)	
				23.16	23.20	23.14	24.2	0.5	
Channel									
Frequency (MHz)				632668	633332	634000	Tune-up limit	MPR	
80	QPSK	1	1	3480.02	2499.98	3510	(dBm)	(dB)	
				23.28	23.11	23.12	24.2	0.5	
Channel									
Frequency (MHz)				632334	633332	634332	Tune-up limit	MPR	
70	QPSK	1	1	3485.01	2499.98	3514.98	(dBm)	(dB)	
				23.20	23.13	23.15	24.2	0.0	
Channel									
Frequency (MHz)				632000	633332	634666	Tune-up limit	MPR	
60	QPSK	1	1	3480	2499.98	3519.99	(dBm)	(dB)	
				23.21	23.25	23.25	24.2	0.0	
Channel									
Frequency (MHz)				631668	633332	635000	Tune-up limit	MPR	
50	QPSK	1	1	3475.02	2499.98	3525	(dBm)	(dB)	
				23.20	23.23	23.15	24.2	0.0	
Channel									
Frequency (MHz)				631334	633332	635332	Tune-up limit	MPR	
40	QPSK	1	1	3470.01	2499.98	3529.98	(dBm)	(dB)	
				23.18	23.24	23.20	24.2	0.0	
Channel									
Frequency (MHz)				631000	633332	635666	Tune-up limit	MPR	
30	QPSK	1	1	3465	2499.98	3534.99	(dBm)	(dB)	
				23.28	23.25	23.10	24.2	0.0	
Channel									
Frequency (MHz)				630668	633332	636000	Tune-up limit	MPR	
20	QPSK	1	1	3460.02	2499.98	3540	(dBm)	(dB)	
				23.17	23.13	23.13	24.2	0.0	
Channel									
Frequency (MHz)				630500	633332	636166	Tune-up limit	MPR	
15	QPSK	1	1	3459.95	2499.98	3542.49	(dBm)	(dB)	
				23.19	23.28	23.16	24.2	0.0	
Channel									
Frequency (MHz)				630334	633332	636332	Tune-up limit	MPR	
10	QPSK	1	1	3455.01	2499.98	3544.98	(dBm)	(dB)	
				23.17	23.11	23.25	24.2	0.0	

Par27Q n77 HPUE_FCC_ANT 10									
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	633332	633332			
100	PV2 BPSK	1	1	3499.98	25.21				
100	PV2 BPSK	1	137		25.10		26.7	0.0	
100	PV2 BPSK	1	271		25.22				
100	PV2 BPSK	135	0		24.75		26.2	0.5	
100	PV2 BPSK	135	66		25.14		26.7	0.0	
100	PV2 BPSK	135	138		24.67		26.2	0.5	
100	PV2 BPSK	270	0		24.65				
100	QPSK	1	1		25.40				
100	QPSK	1	137		25.17		26.7	0.0	
100	QPSK	1	271		25.33				
100	QPSK	135	0		24.68				
100	QPSK	135	66		25.11		26.7	0.0	
100	QPSK	135	138		24.66				
100	QPSK	270	0		24.05		25.7	1.0	
100	16QAM	1	1		24.16		25.7	1.0	
100	64QAM	1	1		22.81		24.2	2.5	
100	256QAM	1	1		20.74		22.2	4.5	
Channel									
Frequency (MHz)				633000	633332	633666	Tune-up limit	MPR	
80	QPSK	1	1	3499.98	2499.98	3504.99	(dBm)	(dB)	
				25.26	25.36	25.37	26.7	0.0	
Channel									
Frequency (MHz)				632668	633332	634000	Tune-up limit	MPR	
80	QPSK	1	1	3480.02	2499.98	3510	(dBm)	(dB)	
				25.23	25.39	25.33	26.7	0.0	
Channel									
Frequency (MHz)				632334	633332	634332	Tune-up limit	MPR	
70	QPSK	1	1	3485.01	2499.98	3514.98	(dBm)	(dB)	
				25.25	25.32	25.24	26.7	0.0	
Channel									
Frequency (MHz)				632000	633332	634666	Tune-up limit	MPR	
60	QPSK	1	1	3480	2499.98	3519.99	(dBm)	(dB)	
				25.26	25.31	25.28	26.7	0.0	
Channel									
Frequency (MHz)				631668	633332	635000	Tune-up limit	MPR	
50	QPSK	1	1	3475.02	2499.98	3525	(dBm)	(dB)	
				25.30	25.29	25.39	26.7	0.0	
Channel									
Frequency (MHz)				631334	633332	635332	Tune-up limit	MPR	
40	QPSK	1	1	3470.01	2499.98	3529.98	(dBm)	(dB)	
				25.26	25.23	25.20	26.7	0.0	
Channel									
Frequency (MHz)				631000	633332	635666	Tune-up limit	MPR	
30	QPSK	1	1	3465	2499.98	3534.99	(dBm)	(dB)	
				25.33	25.38	25.38	26.7	0.0	
Channel									
Frequency (MHz)				630668	633332	636000	Tune-up limit	MPR	
20	QPSK	1	1	3460.02	2499.98	3540	(dBm)	(dB)	
				25.32	25.36	25.25	26.7	0.0	
Channel									
Frequency (MHz)				630500	633332	636166	Tune-up limit	MPR	
15	QPSK	1	1	3459.95	2499.98	3542.49	(dBm)	(dB)	
				25.17	25.39	25.22	26.7	0.0	
Channel									
Frequency (MHz)				630334	633332	636332	Tune-up limit	MPR	
10	QPSK	1	1	3455.01	2499.98	3544.98	(dBm)	(dB)	
				25.20	25.25	25.34	26.7	0.0	



Par270 n77_FCC_ANT 10									
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	21.7	0.0	
100	QPSK	1	1	20.94	20.98	20.89			
100	QPSK	1	137	20.90	20.81	20.73			
100	QPSK	1	271	20.85	20.80	20.63			
100	QPSK	137	0	20.79	20.74	20.73			
100	QPSK	137	68	20.86	20.83	20.75			
100	QPSK	137	138	20.90	20.74	20.62	21.7	0.0	
100	QPSK	273	0	20.84	20.82	20.76			
100	16QAM	1	1	20.73	20.53	20.66			
100	64QAM	1	1	20.96	20.88	20.94			
100	256QAM	1	1	18.70	18.59	18.78			
Channel				6320.00	6333.32		Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)	
90	QPSK	1	1	20.79	20.97	20.83	21.7	0.0	
				6323.14	6320.00	6326.26	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)	
80	QPSK	1	1	20.83	20.85	20.73	21.7	0.0	
				6320.00	6320.00	6320.00	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	20.90	20.83	20.84	21.7	0.0	
				6306.68	6320.00	6333.32	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3949.98	(dBm)	(dB)	
60	QPSK	1	1	20.85	20.86	20.75	21.7	0.0	
				6323.14	6320.00	6326.26	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	20.75	20.86	20.84	21.7	0.0	
				6320.00	6320.00	6320.00	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	20.67	20.85	20.85	21.7	0.0	
				6376.68	6360.00	6343.32	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840.00	3964.98	(dBm)	(dB)	
30	QPSK	1	1	20.11	20.89	20.73	21.7	0.0	
				6373.34	6360.00	6346.66	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	20.08	20.84	20.83	21.7	0.0	
				6371.68	6360.00	6348.32	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	20.06	20.97	20.85	21.7	0.0	
				6370.00	6360.00	6350.00	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	20.08	20.50	20.78	21.7	0.0	

Par27Q n77_FCC_ANT 10									
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)					6333.32	3499.98	21.7	0.0	
100	QPSK	1	1		20.99				
100	QPSK	1	137		20.83				
100	QPSK	1	271		20.96				
100	QPSK	137	0		20.88				
100	QPSK	137	68		20.92				
100	QPSK	137	138		20.95		21.7	0.0	
100	QPSK	273	0		20.94				
100	16QAM	1	1		20.91				
100	64QAM	1	1		20.95				
100	256QAM	1	1		18.97				
Channel				6330.00	6333.32	6336.66	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dbm)	(db)	
90	QPSK	1	1	20.89	20.95	20.76	21.7	0.0	
				6330.00	6333.32	6336.66	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3499.98	3510	(dbm)	(db)	
80	QPSK	1	1	20.91	20.84	20.87	21.7	0.0	
				6323.14	6333.32	6343.32	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dbm)	(db)	
70	QPSK	1	1	20.88	20.86	20.76	21.7	0.0	
				6320.00	6333.32	6346.66	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.99	(dbm)	(db)	
60	QPSK	1	1	20.83	20.82	20.71	21.7	0.0	
				6316.66	6333.32	6350.00	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dbm)	(db)	
50	QPSK	1	1	20.89	20.93	20.80	21.7	0.0	
				6313.14	6333.32	6353.32	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dbm)	(db)	
40	QPSK	1	1	20.79	20.69	20.82	21.7	0.0	
				6310.00	6333.32	6356.66	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dbm)	(db)	
30	QPSK	1	1	20.87	20.98	20.80	21.7	0.0	
				6306.66	6333.32	6360.00	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dbm)	(db)	
20	QPSK	1	1	20.85	20.98	20.70	21.7	0.0	
				6305.00	6333.32	6361.66	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3499.98	3542.49	(dbm)	(db)	
15	QPSK	1	1	20.15	20.93	20.72	21.7	0.0	
				6303.34	6333.32	6363.32	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dbm)	(db)	
10	QPSK	1	1	20.82	20.83	20.79	21.7	0.0	



Par270 n77_FCC_ANT 13									
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	23.7	0.0	
100	PV2 BPSK	1	1	22.25	22.31	22.22			
100	PV2 BPSK	1	137	22.21	22.18	22.19			
100	PV2 BPSK	1	271	22.01	21.97	22.02			
100	PV2 BPSK	135	0	22.09	22.18	22.13			
100	PV2 BPSK	135	66	22.18	22.15	22.08	23.7	0.0	
100	PV2 BPSK	135	138	22.18	22.11	22.02	23.2	0.5	
100	PV2 BPSK	270	0	22.17	22.09	22.16			
100	QPSK	1	1	22.32	22.30	22.31			
100	QPSK	1	137	22.27	22.24	22.29			
100	QPSK	1	271	22.02	22.05	22.05			
100	QPSK	135	0	22.20	22.25	22.20	23.7	0.0	
100	QPSK	135	66	22.23	22.30	22.25			
100	QPSK	135	138	22.11	22.08	22.13			
100	QPSK	270	0	21.98	21.73	21.76			
100	16QAM	1	1	21.71	21.79	21.80	22.7	1.0	
100	64QAM	1	1	19.80	19.75	19.85	21.2	2.5	
100	256QAM	1	1	17.96	17.90	17.88	19.2	4.5	
Channel									
Frequency (MHz)				649668	650000	662332	Tune-up limit	MPR	
3743.02				3840	3930	3930	(dBm)	(dB)	
50	QPSK	1	1	22.18	22.15	22.14	23.7	0.0	
Channel									
Frequency (MHz)				649334	650000	662666	Tune-up limit	MPR	
3740.01				3840	3930	3930	(dBm)	(dB)	
80	QPSK	1	1	22.10	22.20	22.12	23.7	0.0	
Channel									
Frequency (MHz)				649000	650000	663000	Tune-up limit	MPR	
3735				3840	3930	3930	(dBm)	(dB)	
70	QPSK	1	1	22.16	22.23	22.08	23.7	0.0	
Channel									
Frequency (MHz)				648668	650000	663332	Tune-up limit	MPR	
3730.02				3840	3930	3930	(dBm)	(dB)	
60	QPSK	1	1	22.25	22.22	22.09	23.7	0.0	
Channel									
Frequency (MHz)				648334	650000	663666	Tune-up limit	MPR	
3725.01				3840	3930	3930	(dBm)	(dB)	
50	QPSK	1	1	22.12	22.20	22.08	23.7	0.0	
Channel									
Frequency (MHz)				648000	650000	664000	Tune-up limit	MPR	
3720				3840	3930	3930	(dBm)	(dB)	
40	QPSK	1	1	22.17	22.22	22.07	23.7	0.0	
Channel									
Frequency (MHz)				647668	650000	664332	Tune-up limit	MPR	
3715.02				3840	3930	3930	(dBm)	(dB)	
30	QPSK	1	1	22.21	22.19	22.17	23.7	0.0	
Channel									
Frequency (MHz)				647334	650000	664666	Tune-up limit	MPR	
3710.01				3840	3930	3930	(dBm)	(dB)	
20	QPSK	1	1	22.18	22.22	22.07	23.7	0.0	
Channel									
Frequency (MHz)				647168	650000	664832	Tune-up limit	MPR	
3707.53				3840	3930	3930	(dBm)	(dB)	
15	QPSK	1	1	22.13	22.13	22.08	23.7	0.0	
Channel									
Frequency (MHz)				647000	650000	665000	Tune-up limit	MPR	
3705				3840	3930	3930	(dBm)	(dB)	
10	QPSK	1	1	22.18	22.26	22.21	23.7	0.0	

Par270 n77 HPUE_FCC_ANT 13									
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	26.2	0.0	
100	PV2 BPSK	1	1	24.79	24.88	24.89			
100	PV2 BPSK	1	137	24.77	24.78	24.79			
100	PV2 BPSK	1	271	24.68	24.69	24.58			
100	PV2 BPSK	135	0	24.29	24.28	24.28			
100	PV2 BPSK	135	66	24.73	24.75	24.75	26.2	0.0	
100	PV2 BPSK	135	138	24.07	24.16	24.08	25.7	0.5	
100	PV2 BPSK	270	0	24.17	24.25	24.16			
100	QPSK	1	1	24.94	25.00	24.94			
100	QPSK	1	137	24.91	24.92	24.93			
100	QPSK	1	271	24.72	24.71	24.76			
100	QPSK	135	0	24.25	24.20	24.21	26.2	0.0	
100	QPSK	135	66	24.84	24.90	24.89			
100	QPSK	135	138	24.20	24.23	24.22			
100	QPSK	270	0	23.82	23.87	23.72			
100	16QAM	1	1	24.00	24.02	23.95	25.2	1.0	
100	64QAM	1	1	22.40	22.43	22.38	23.7	2.5	
100	256QAM	1	1	20.38	20.40	20.30	21.7	4.5	
Channel									
Frequency (MHz)				649668	650000	662332	Tune-up limit	MPR	
3743.02				3840	3930	3930	(dBm)	(dB)	
50	QPSK	1	1	24.74	24.70	24.85	26.2	0.0	
Channel									
Frequency (MHz)				649334	650000	662666	Tune-up limit	MPR	
3740.01				3840	3930	3930	(dBm)	(dB)	
80	QPSK	1	1	24.71	24.71	24.72	26.2	0.0	
Channel									
Frequency (MHz)				649000	650000	663000	Tune-up limit	MPR	
3735				3840	3930	3930	(dBm)	(dB)	
70	QPSK	1	1	24.79	24.79	24.81	26.2	0.0	
Channel									
Frequency (MHz)				648668	650000	663332	Tune-up limit	MPR	
3730.02				3840	3930	3930	(dBm)	(dB)	
60	QPSK	1	1	24.72	24.83	24.75	26.2	0.0	
Channel									
Frequency (MHz)				648334	650000	663666	Tune-up limit	MPR	
3725.01				3840	3930	3930	(dBm)	(dB)	
50	QPSK	1	1	24.80	24.88	24.82	26.2	0.0	
Channel									
Frequency (MHz)				648000	650000	664000	Tune-up limit	MPR	
3720				3840	3930	3930	(dBm)	(dB)	
40	QPSK	1	1	24.68	24.73	24.83	26.2	0.0	
Channel									
Frequency (MHz)				647668	650000	664332	Tune-up limit	MPR	
3715.02				3840	3930	3930	(dBm)	(dB)	
30	QPSK	1	1	24.60	24.80	24.88	26.2	0.0	
Channel									
Frequency (MHz)				647334	650000	664666	Tune-up limit	MPR	
3710.01				3840	3930	3930	(dBm)	(dB)	
20	QPSK	1	1	24.78	24.79	24.70	26.2	0.0	
Channel									
Frequency (MHz)				647168	650000	664832	Tune-up limit	MPR	
3707.53				3840	3930	3930	(dBm)	(dB)	
15	QPSK	1	1	24.65	24.79	24.88	26.2	0.0	
Channel									
Frequency (MHz)				647000	650000	665000	Tune-up limit	MPR	
3705				3840	3930	3930	(dBm)	(dB)	
10	QPSK	1	1	24.80	24.78	24.79	26.2	0.0	



Par27Q n77_FCC_ANT 13									
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	PV2 BPSK	1	1	22.02			23.7	0.0	
100	PV2 BPSK	1	137	21.89					
100	PV2 BPSK	1	271	21.97					
100	PV2 BPSK	135	0	21.94			23.2	0.5	
100	PV2 BPSK	135	86	21.96			23.7	0.0	
100	PV2 BPSK	135	138	21.94			23.2	0.5	
100	PV2 BPSK	270	0	21.89					
100	QPSK	1	1	22.00					
100	QPSK	1	137	22.05			23.7	0.0	
100	QPSK	1	271	21.94					
100	QPSK	135	0	21.90					
100	QPSK	135	86	21.94			23.7	0.0	
100	QPSK	135	138	21.90					
100	QPSK	270	0	21.80			22.7	1.0	
100	16QAM	1	1	21.82			22.7	1.0	
100	64QAM	1	1	20.01			21.2	2.5	
100	256QAM	1	1	18.11			19.2	4.5	
Channel									
Frequency (MHz)				633000	633332	633666	Tune-up limit	MPR	
				3499.98	3504.02	3508.06	(dBm)	(dB)	
90	QPSK	1	1	21.91	22.04	21.98	23.7	0.0	
Channel									
Frequency (MHz)				632668	633332	634000	Tune-up limit	MPR	
				3499.02	3499.98	3500.94	(dBm)	(dB)	
80	QPSK	1	1	21.75	21.87	21.83	23.7	0.0	
Channel									
Frequency (MHz)				632334	633332	634332	Tune-up limit	MPR	
				3498.01	3499.98	3501.96	(dBm)	(dB)	
70	QPSK	1	1	21.61	22.05	21.83	23.7	0.0	
Channel									
Frequency (MHz)				632000	633332	634666	Tune-up limit	MPR	
				3498.06	3499.98	3501.90	(dBm)	(dB)	
60	QPSK	1	1	21.82	21.95	21.96	23.7	0.0	
Channel									
Frequency (MHz)				631668	633332	635000	Tune-up limit	MPR	
				3498.02	3499.98	3502	(dBm)	(dB)	
50	QPSK	1	1	21.91	22.01	21.81	23.7	0.0	
Channel									
Frequency (MHz)				631334	633332	635332	Tune-up limit	MPR	
				3498.01	3499.98	3502.96	(dBm)	(dB)	
40	QPSK	1	1	21.91	21.91	21.81	23.7	0.0	
Channel									
Frequency (MHz)				631000	633332	635666	Tune-up limit	MPR	
				3498.06	3499.98	3503.99	(dBm)	(dB)	
30	QPSK	1	1	21.73	21.99	21.97	23.7	0.0	
Channel									
Frequency (MHz)				630668	633332	636000	Tune-up limit	MPR	
				3498.02	3499.98	3500	(dBm)	(dB)	
20	QPSK	1	1	21.88	21.98	21.81	23.7	0.0	
Channel									
Frequency (MHz)				630500	633332	636166	Tune-up limit	MPR	
				3498.5	3499.98	3502.46	(dBm)	(dB)	
15	QPSK	1	1	21.75	22.00	21.99	23.7	0.0	
Channel									
Frequency (MHz)				630334	633332	636332	Tune-up limit	MPR	
				3498.98	3504.98		(dBm)	(dB)	
10	QPSK	1	1	21.91	21.91	21.93	23.7	0.0	

Par27Q n77 HPUE_FCC_ANT 13									
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	PV2 BPSK	1	1	24.51			26.2	0.0	
100	PV2 BPSK	1	137	24.51					
100	PV2 BPSK	1	271	24.50					
100	PV2 BPSK	135	0	24.48			25.7	0.5	
100	PV2 BPSK	135	86	24.47			26.2	0.0	
100	PV2 BPSK	135	138	24.40			25.7	0.5	
100	PV2 BPSK	270	0	24.43					
100	QPSK	1	1	24.46					
100	QPSK	1	137	24.55			26.2	0.0	
100	QPSK	1	271	24.51					
100	QPSK	135	0	24.46					
100	QPSK	135	86	24.50			26.2	0.0	
100	QPSK	135	138	24.38					
100	QPSK	270	0	24.13			25.2	1.0	
100	16QAM	1	1	24.15			25.2	1.0	
100	64QAM	1	1	22.70			23.7	2.5	
100	256QAM	1	1	20.80			21.7	4.5	
Channel									
Frequency (MHz)				633000	633332	633666	Tune-up limit	MPR	
				3499.98	3504.02	3508.06	(dBm)	(dB)	
90	QPSK	1	1	24.52	24.53	24.44	26.2	0.0	
Channel									
Frequency (MHz)				632668	633332	634000	Tune-up limit	MPR	
				3499.02	3499.98	3500.94	(dBm)	(dB)	
80	QPSK	1	1	24.42	24.50	24.48	26.2	0.0	
Channel									
Frequency (MHz)				632334	633332	634332	Tune-up limit	MPR	
				3498.01	3499.98	3501.96	(dBm)	(dB)	
70	QPSK	1	1	24.43	24.50	24.45	26.2	0.0	
Channel									
Frequency (MHz)				632000	633332	634666	Tune-up limit	MPR	
				3498.06	3499.98	3501.90	(dBm)	(dB)	
60	QPSK	1	1	24.47	24.49	24.55	26.2	0.0	
Channel									
Frequency (MHz)				631668	633332	635000	Tune-up limit	MPR	
				3498.02	3499.98	3502	(dBm)	(dB)	
50	QPSK	1	1	24.48	24.51	24.43	26.2	0.0	
Channel									
Frequency (MHz)				631334	633332	635332	Tune-up limit	MPR	
				3498.01	3499.98	3502.96	(dBm)	(dB)	
40	QPSK	1	1	24.51	24.53	24.41	26.2	0.0	
Channel									
Frequency (MHz)				631000	633332	635666	Tune-up limit	MPR	
				3498.06	3499.98	3503.99	(dBm)	(dB)	
30	QPSK	1	1	24.54	24.58	24.58	26.2	0.0	
Channel									
Frequency (MHz)				630668	633332	636000	Tune-up limit	MPR	
				3498.02	3499.98	3500	(dBm)	(dB)	
20	QPSK	1	1	24.44	24.40	24.48	26.2	0.0	
Channel									
Frequency (MHz)				630500	633332	636166	Tune-up limit	MPR	
				3498.5	3499.98	3502.46	(dBm)	(dB)	
15	QPSK	1	1	24.81	24.55	24.53	26.2	0.0	
Channel									
Frequency (MHz)				630334	633332	636332	Tune-up limit	MPR	
				3498.98	3504.98		(dBm)	(dB)	
10	QPSK	1	1	24.56	24.53	24.41	26.2	0.0	



Par270 n77_FCC_ANT 13									
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	22.2	0.0	
100	QPSK	1	1	21.28	21.35	21.25			
100	QPSK	1	137	21.27	21.30	21.22			
100	QPSK	1	271	20.86	20.97	20.78			
100	QPSK	137	0	21.16	21.25	21.12			
100	QPSK	137	68	21.07	21.15	20.98	22.2	0.0	
100	QPSK	137	138	21.01	21.04	20.97			
100	QPSK	273	0	21.04	21.15	21.06			
100	16QAM	1	1	21.14	21.20	21.06			
100	64QAM	1	1	21.22	21.30	21.16			
100	256QAM	1	1	18.57	18.65	18.50	22.2	2.5	
Channel				6468.68	6520.00	6533.32	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)	
90	QPSK	1	1	21.02	21.27	21.01	22.2	0.0	
				6453.91	6520.00	6522.09	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)	
80	QPSK	1	1	21.13	21.15	21.15	22.2	0.0	
				6450.00	6520.00	6530.00	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	21.13	21.15	21.02	22.2	0.0	
				6468.68	6520.00	6533.32	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3949.98	(dBm)	(dB)	
60	QPSK	1	1	21.13	21.11	21.09	22.2	0.0	
				6453.14	6520.00	6539.86	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	21.12	21.23	21.01	22.2	0.0	
				6450.00	6520.00	6540.00	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	21.00	21.12	21.07	22.2	0.0	
				6470.68	6520.00	6543.32	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840.00	3964.98	(dBm)	(dB)	
30	QPSK	1	1	21.05	21.20	21.03	22.2	0.0	
				6473.14	6520.00	6549.86	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	21.05	21.10	21.11	22.2	0.0	
				6471.68	6520.00	6549.32	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	21.02	21.51	21.02	22.2	0.0	
				6470.00	6520.00	6550.00	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	20.99	21.18	21.20	22.2	0.0	

Par27Q n77_FCC_ANT 13									
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)				6333.92		3499.98	22.2	0.0	
100	QPSK	1	1	21.30					
100	QPSK	1	137	21.25					
100	QPSK	1	271	21.13					
100	QPSK	137	0	21.25					
100	QPSK	137	68	21.27			22.2	0.0	
100	QPSK	137	138	21.23					
100	QPSK	273	0	21.29					
100	16QAM	1	1	20.97					
100	64QAM	1	1	21.25					
100	256QAM	1	1	19.55			22.2	0.0	
Channel				6330.00	6333.92	6336.96	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dbm)	(db)	
90	QPSK	1	1	21.23	21.27	21.20	22.2	0.0	
				6330.68	6333.92	6340.00	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3499.98	3510	(dbm)	(db)	
80	QPSK	1	1	21.05	21.21	21.17	22.2	0.0	
				6329.94	6333.92	6343.92	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dbm)	(db)	
70	QPSK	1	1	21.08	21.18	21.05	22.2	0.0	
				6330.00	6333.92	6349.96	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.99	(dbm)	(db)	
60	QPSK	1	1	21.19	21.09	21.10	22.2	0.0	
				6316.68	6333.92	6350.00	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dbm)	(db)	
50	QPSK	1	1	21.08	21.17	21.05	22.2	0.0	
				6313.14	6333.92	6353.92	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dbm)	(db)	
40	QPSK	1	1	21.05	21.25	21.00	22.2	0.0	
				6310.00	6333.92	6359.96	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dbm)	(db)	
30	QPSK	1	1	21.06	21.10	21.14	22.2	0.0	
				6309.68	6333.92	6360.00	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dbm)	(db)	
20	QPSK	1	1	21.08	21.27	21.07	22.2	0.0	
				6305.00	6333.92	6361.66	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3499.98	3542.49	(dbm)	(db)	
15	QPSK	1	1	21.05	21.15	21.00	22.2	0.0	
				6303.94	6333.92	6363.92	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dbm)	(db)	
10	QPSK	1	1	21.21	21.21	21.10	22.2	0.0	



Par270 n78_FCC_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				650000					
Frequency (MHz)				3750					
100	PV2 BPSK	1	1		23.01		24.2		0.0
100	PV2 BPSK	1	137		23.05				
100	PV2 BPSK	1	271		22.90				
100	PV2 BPSK	135	0		22.95				
100	PV2 BPSK	135	66		22.98		23.7	0.5	
100	PV2 BPSK	135	138		23.04		24.2	0.0	
100	PV2 BPSK	270	0		22.96		23.7	0.5	
100	QPSK	1	1		23.10		24.2		0.0
100	QPSK	1	137		23.09				
100	QPSK	1	271		22.81				
100	QPSK	135	0		22.86				
100	QPSK	135	66		22.90		24.2	0.0	
100	QPSK	135	138		22.82		23.2	1.0	
100	QPSK	270	0		22.88		23.2	1.0	
100	16QAM	1	1		22.81		21.7	2.5	
100	64QAM	1	1		21.58		19.7	4.5	
100	256QAM	1	1		19.22				
Channel				649668	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3754.98	(dbm)	(db)	
90	QPSK	1	1	23.08	22.98	23.03	24.2	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99	(dbm)	(db)	
80	QPSK	1	1	23.09	23.04	23.05	24.2	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dbm)	(db)	
70	QPSK	1	1	22.93	23.05	23.03	24.2	0.0	
Channel				648668	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3769.98	(dbm)	(db)	
60	QPSK	1	1	22.95	23.08	23.02	24.2	0.0	
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3774.99	(dbm)	(db)	
50	QPSK	1	1	22.98	23.04	23.00	24.2	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dbm)	(db)	
40	QPSK	1	1	22.92	23.03	22.98	24.2	0.0	
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3784.98	(dbm)	(db)	
30	QPSK	1	1	22.96	23.05	23.05	24.2	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3789.99	(dbm)	(db)	
20	QPSK	1	1	23.07	23.28	22.96	24.2	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dbm)	(db)	
10	QPSK	1	1	23.06	22.98	23.02	24.2	0.0	

Par270 n78 HPUE_FCC_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				650000					
Frequency (MHz)				3750					
100	PV2 BPSK	1	1	24.97			26.2		0.0
100	PV2 BPSK	1	137	24.95					
100	PV2 BPSK	1	271	24.90					
100	PV2 BPSK	135	0	24.45					
100	PV2 BPSK	135	66	24.52			25.7		0.5
100	PV2 BPSK	135	138	24.42			26.2		0.0
100	PV2 BPSK	270	0	24.44			25.7		0.5
100	QPSK	1	1	25.12			26.2		0.0
100	QPSK	1	137	25.02					
100	QPSK	1	271	24.99					
100	QPSK	135	0	24.41					
100	QPSK	135	66	24.91			26.2		0.0
100	QPSK	135	138	24.36			25.2		1.0
100	QPSK	270	0	23.89			25.2		1.0
100	16QAM	1	1	23.88			23.7		2.5
100	64QAM	1	1	22.50			21.7		4.5
100	256QAM	1	1	20.28			19.7		4.5
Channel				649668	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3754.98	(dbm)	(db)	
90	QPSK	1	1	25.05	24.98	25.05	26.2		
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99	(dbm)	(db)	
80	QPSK	1	1	24.91	24.94	24.91	26.2		
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dbm)	(db)	
70	QPSK	1	1	24.99	24.91	24.99	26.2		
Channel				648668	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3769.98	(dbm)	(db)	
60	QPSK	1	1	25.05	25.08	25.05	26.2		
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3774.99	(dbm)	(db)	
50	QPSK	1	1	25.02	24.98	25.02	26.2		
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dbm)	(db)	
40	QPSK	1	1	24.92	24.97	24.92	26.2		
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3784.98	(dbm)	(db)	
30	QPSK	1	1	24.98	24.97	24.98	26.2		
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3789.99	(dbm)	(db)	
20	QPSK	1	1	25.01	24.93	25.01	26.2		
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dbm)	(db)	
10	QPSK	1	1	24.93	25.06	24.93	26.2		



Par27Q n78_FCC_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	633332	633332	24.2	0.0	
Frequency (MHz)				3499.98	3499.98	3499.98			
100	PV2 BPSK	1	1	22.88	22.88	22.88			
100	PV2 BPSK	1	137	22.87	22.87	22.87			
100	PV2 BPSK	1	271	22.91	22.91	22.91	23.7	0.5	
100	PV2 BPSK	135	0	22.93	22.93	22.93			
100	PV2 BPSK	135	86	22.96	22.96	22.96			
100	PV2 BPSK	135	138	22.90	22.90	22.90			
100	PV2 BPSK	270	0	22.86	22.86	22.86	24.2	0.0	
100	QPSK	1	1	23.05	23.05	23.05			
100	QPSK	1	137	23.00	23.00	23.00			
100	QPSK	1	271	22.88	22.88	22.88			
100	QPSK	135	0	22.73	22.73	22.73	24.2	0.0	
100	QPSK	135	86	22.79	22.79	22.79			
100	QPSK	135	138	22.78	22.78	22.78			
100	QPSK	270	0	22.02	22.02	22.02			
100	16QAM	1	1	22.74	22.74	22.74	23.2	1.0	
100	16QAM	1	1	21.87	21.87	21.7			
100	256QAM	1	1	18.31	18.31	18.7			
100	256QAM	1	1	18.31	18.31	18.7			
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	22.99	22.99	23.03	24.2	0.5	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3480.02	3499.98	3510	(dBm)	(dB)	
80	QPSK	1	1	23.00	22.99	23.03	24.2	0.5	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	23.01	23.03	22.83	24.2	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)	
60	QPSK	1	1	22.93	22.89	22.94	24.2	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1	22.93	22.87	22.97	24.2	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1	22.89	23.00	22.94	24.2	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	22.87	22.88	23.03	24.2	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1	22.91	22.98	22.99	24.2	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1	22.93	22.89	23.00	24.2	0.0	

Par27Q n78 HPUE_FCC_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	633332	633332	26.2	0.0	
Frequency (MHz)				3499.98	3499.98	3499.98			
100	PV2 BPSK	1	1	25.40	25.40	25.40			
100	PV2 BPSK	1	137	25.41	25.41	25.41			
100	PV2 BPSK	1	271	25.30	25.30	25.30	25.7	0.5	
100	PV2 BPSK	135	0	24.70	24.70	24.70			
100	PV2 BPSK	135	86	25.34	25.34	25.34			
100	PV2 BPSK	135	138	24.84	24.84	24.84			
100	PV2 BPSK	270	0	24.78	24.78	24.78	25.7	0.5	
100	QPSK	1	1	25.45	25.45	25.45			
100	QPSK	1	137	25.31	25.31	25.31			
100	QPSK	1	271	25.39	25.39	25.39			
100	QPSK	135	0	24.34	24.34	24.34	26.2	0.0	
100	QPSK	135	86	25.32	25.32	25.32			
100	QPSK	135	138	24.34	24.34	24.34			
100	QPSK	270	0	24.19	24.19	24.19			
100	16QAM	1	1	24.36	24.36	24.36	25.2	1.0	
100	16QAM	1	1	22.75	22.75	22.7			
100	256QAM	1	1	20.92	20.92	21.7			
100	256QAM	1	1	20.92	20.92	21.7			
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	25.38	25.40	25.33	26.2	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3480.02	3499.98	3510	(dBm)	(dB)	
80	QPSK	1	1	25.26	25.29	25.25	26.2	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	25.31	25.40	25.31	26.2	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)	
60	QPSK	1	1	25.40	25.40	25.40	26.2	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1	25.35	25.40	25.35	26.2	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1	25.22	25.21	25.22	26.2	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	25.27	25.36	25.27	26.2	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1	25.22	25.31	25.22	26.2	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1	25.22	25.36	25.22	26.2	0.0	



Par27O n78_FCC_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				650000			22.7	0.0	
Frequency (MHz)				3750					
100	QPSK	1	1	21.88					
100	QPSK	1	137	21.71					
100	QPSK	1	271	21.68			22.7	0.0	
100	QPSK	137	0	21.84					
100	QPSK	137	68	21.78					
100	QPSK	137	138	21.77					
100	QPSK	273	0	21.78			22.7	0.0	
100	16QAM	1	1	21.70			22.7	0.0	
100	64QAM	1	1	21.44			22.7	0.0	
100	256QAM	1	1	18.10			19.7	3.0	
Channel				649968	650000	650032	Tune-up limit		
Frequency (MHz)				3748.02	3750	3754.98	MPR (db)		
90	QPSK	1	1	21.74		21.78	22.7	0.0	
Channel				649344	650000	650656	Tune-up limit		
Frequency (MHz)				3740.01	3750	3759.99	MPR (db)		
80	QPSK	1	1	21.75		21.79	22.7	0.0	
Channel				648200	650000	651800	Tune-up limit		
Frequency (MHz)				3735	3750	3765	MPR (db)		
70	QPSK	1	1	21.85		21.68	22.7	0.0	
Channel				646968	650000	651332	Tune-up limit		
Frequency (MHz)				3730.02	3750	3769.98	MPR (db)		
60	QPSK	1	1	21.89		21.66	22.7	0.0	
Channel				646334	650000	651668	Tune-up limit		
Frequency (MHz)				3728.01	3750	3774.99	MPR (db)		
50	QPSK	1	1	21.77		21.74	22.7	0.0	
Channel				644000	650000	652000	Tune-up limit		
Frequency (MHz)				3720	3750	3760	MPR (db)		
40	QPSK	1	1	21.68		21.83	22.7	0.0	
Channel				647668	650000	652332	Tune-up limit		
Frequency (MHz)				3715.02	3750.00	3764.98	MPR (db)		
30	QPSK	1	1	21.67		21.60	22.7	0.0	
Channel				647334	650000	652666	Tune-up limit		
Frequency (MHz)				3710.01	3750	3769.99	MPR (db)		
20	QPSK	1	1	21.66		21.76	21.65	22.7	
Channel				647000	650000	653000	Tune-up limit		
Frequency (MHz)				3705	3750	3795	MPR (db)		
10	QPSK	1	1	21.75		21.69	21.65	22.7	

Par27Q n78_FCC_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)									
100	QPSK	1	1		21.95		22.7	0.0	
100	QPSK	1	137		21.86				
100	QPSK	1	271		21.92				
100	QPSK	137	0		21.90				
100	QPSK	137	68		21.84		22.7	0.0	
100	QPSK	137	138		21.88				
100	QPSK	273	0		21.70				
100	16QAM	1	1		21.80				
100	64QAM	1	1		21.46		22.7	0.0	
100	256QAM	1	1		18.28		19.7	3.0	
Channel									
Frequency (MHz)									
90	QPSK			633000	633332	633666	Tune-up limit	MPR	
				3495	3499.98	3504.99	(dbm)	(db)	
				21.70	21.72	21.76	22.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK			633000	633332	634000	Tune-up limit	MPR	
				3489.02	3499.98	3510	(dbm)	(db)	
				21.69	21.70	21.75	22.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK			633000	633332	634332	Tune-up limit	MPR	
				3485.01	3499.98	3514.98	(dbm)	(db)	
				21.74	21.79	21.72	22.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK			633000	633332	634666	Tune-up limit	MPR	
				3480	3499.98	3519.99	(dbm)	(db)	
				21.68	21.74	21.69	22.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK			633000	633332	635000	Tune-up limit	MPR	
				3475.02	3499.98	3525	(dbm)	(db)	
				21.79	21.71	21.76	22.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK			633000	633332	635332	Tune-up limit	MPR	
				3470.01	3499.98	3529.98	(dbm)	(db)	
				21.64	21.61	21.61	22.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK			633000	633332	635666	Tune-up limit	MPR	
				3465	3499.98	3534.99	(dbm)	(db)	
				21.68	21.62	21.67	22.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK			633000	633332	636000	Tune-up limit	MPR	
				3460.02	3499.98	3540	(dbm)	(db)	
				21.64	21.68	21.67	22.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK			633000	633332	636332	Tune-up limit	MPR	
				3455.01	3499.98	3544.98	(dbm)	(db)	
				21.67	21.70	21.65	22.7	0.0	



Par270 n78_FCC_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	3750		22.7	0.0	
Frequency (MHz)					2144				
100	PV2 BPSK	1	1		2153				
100	PV2 BPSK	1	137		2131				
100	PV2 BPSK	1	271		2146		22.2	0.5	
100	PV2 BPSK	135	0		2140		22.7	0.0	
100	PV2 BPSK	135	86		2142		22.2	0.5	
100	PV2 BPSK	135	138		2139				
100	PV2 BPSK	270	0		2165				
100	QPSK	1	1		2163				
100	QPSK	1	137		2132		22.7	0.0	
100	QPSK	1	271		2145		22.7	0.0	
100	QPSK	135	0		2150				
100	QPSK	135	86		2124				
100	QPSK	135	138		2124				
100	QPSK	270	0		2035		21.7	1.0	
100	16QAM	1	1		2117		21.7	1.0	
100	64QAM	1	1		1940		20.2	2.5	
100	256QAM	1	1		1746		18.2	4.5	
Channel				649668	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3750	3756.98	(dBm)	(dB)	
90	QPSK	1	1		2153	2144	2145	22.7	0.0
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.99	(dBm)	(dB)	
80	QPSK	1	1		2149	2135	2135	22.7	0.0
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3736	3750	3765	(dBm)	(dB)	
70	QPSK	1	1		2148	2137	2143	22.7	0.0
Channel				648668	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3732.02	3750	3767.98	(dBm)	(dB)	
60	QPSK	1	1		2147	2149	2144	22.7	0.0
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3728.01	3750	3771.99	(dBm)	(dB)	
50	QPSK	1	1		2147	2152	2155	22.7	0.0
Channel				648000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3724	3750	3796	(dBm)	(dB)	
40	QPSK	1	1		2147	2148	2155	22.7	0.0
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3720.02	3750.00	3784.98	(dBm)	(dB)	
30	QPSK	1	1		2135	2153	2152	22.7	0.0
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3716.01	3750	3786.99	(dBm)	(dB)	
20	QPSK	1	1		2150	2158	2148	22.7	0.0
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3706	3750	3795	(dBm)	(dB)	
10	QPSK	1	1		2155	2145	2159	22.7	0.0

Par270 n78 HPUE_FCC_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	3750		24.7	0.0	
Frequency (MHz)					2388				
100	PV2 BPSK	1	1		2371				
100	PV2 BPSK	1	137		2379				
100	PV2 BPSK	1	271		2324		24.2	0.5	
100	PV2 BPSK	135	0		2338		24.7	0.0	
100	PV2 BPSK	135	138		2330		24.2	0.5	
100	PV2 BPSK	270	0		2339				
100	QPSK	1	1		2381				
100	QPSK	1	137		2378				
100	QPSK	1	271		2378		24.7	0.0	
100	QPSK	135	0		2380				
100	QPSK	135	86		2347				
100	QPSK	135	138		2334				
100	QPSK	270	0		2300		23.7	1.0	
100	16QAM	1	1		2144		23.7	1.0	
100	64QAM	1	1		1831		22.2	2.5	
100	256QAM	1	1		1631		20.2	4.5	
Channel				649668	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3750	3756.98	(dBm)	(dB)	
90	QPSK	1	1		2385	2380	2385	24.7	0.0
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.99	(dBm)	(dB)	
80	QPSK	1	1		2375	2370	2375	24.7	0.0
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3736	3750	3765	(dBm)	(dB)	
70	QPSK	1	1		2381	2372	2381	24.7	0.0
Channel				648668	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3732.02	3750	3767.98	(dBm)	(dB)	
60	QPSK	1	1		2380	2389	2380	24.7	0.0
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3728.01	3750	3771.99	(dBm)	(dB)	
50	QPSK	1	1		2379	2389	2379	24.7	0.0
Channel				648000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3724	3750	3796	(dBm)	(dB)	
40	QPSK	1	1		2378	2382	2378	24.7	0.0
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3720.02	3750.00	3784.98	(dBm)	(dB)	
30	QPSK	1	1		2375	2373	2375	24.7	0.0
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3716.01	3750	3786.99	(dBm)	(dB)	
20	QPSK	1	1		2381	2377	2381	24.7	0.0
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3706	3750	3795	(dBm)	(dB)	
10	QPSK	1	1		2388	2380	2388	24.7	0.0



Par27Q n78_FCC_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	633332	633332	22.7	0.0	
Frequency (MHz)				3499.98	3499.98	3499.98			
100	PV2 BPSK	1	1	21.44	21.44	21.44			
100	PV2 BPSK	1	137	21.38	21.38	21.38			
100	PV2 BPSK	1	271	21.29	21.29	21.29	22.2	0.5	
100	PV2 BPSK	135	0	21.38	21.38	21.38			
100	PV2 BPSK	135	86	21.22	21.22	21.22	22.2	0.5	
100	PV2 BPSK	135	138	21.29	21.29	21.29			
100	PV2 BPSK	270	0	21.32	21.32	21.32	22.7	0.0	
100	QPSK	1	1	21.55	21.55	21.55			
100	QPSK	1	137	21.51	21.51	21.51			
100	QPSK	1	271	21.42	21.42	21.42			
100	QPSK	135	0	21.38	21.38	21.38	22.7	0.0	
100	QPSK	135	86	21.40	21.40	21.40			
100	QPSK	135	138	21.28	21.28	21.28	21.7	1.0	
100	QPSK	270	0	20.91	20.91	20.91			
100	16QAM	1	1	21.10	21.10	21.10	20.2	2.5	
100	64QAM	1	1	19.22	19.22	19.22			
100	256QAM	1	1	17.41	17.41	17.41	Tune-up limit	MPR	
Channel				633000	633332	633666			
Frequency (MHz)				3499.98	3499.98	3500.02			
90	QPSK	1	1	21.48	21.51	21.52		22.7	
Channel				632668	633332	634000		MPR	
Frequency (MHz)				3499.98	3500.02	3500.06			
80	QPSK	1	1	21.45	21.44	21.45	22.7	0.5	
Channel				632334	633332	634332		MPR	
Frequency (MHz)				3499.98	3500.02	3500.06			
70	QPSK	1	1	21.50	21.43	21.50	22.7	0.0	
Channel				632000	633332	634666		MPR	
Frequency (MHz)				3499.98	3500.02	3500.06			
60	QPSK	1	1	21.43	21.43	21.44	22.7	0.0	
Channel				631668	633332	635000		MPR	
Frequency (MHz)				3499.98	3500.02	3500.06			
50	QPSK	1	1	21.45	21.53	21.41	22.7	0.0	
Channel				631334	633332	635332		MPR	
Frequency (MHz)				3499.98	3500.02	3500.06			
40	QPSK	1	1	21.49	21.53	21.41	22.7	0.0	
Channel				631000	633332	635666		MPR	
Frequency (MHz)				3499.98	3500.02	3500.06			
30	QPSK	1	1	21.50	21.43	21.45	22.7	0.0	
Channel				630668	633332	636000		MPR	
Frequency (MHz)				3499.98	3500.02	3500.06			
20	QPSK	1	1	21.48	21.41	21.48	22.7	0.0	
Channel				630334	633332	636332		MPR	
Frequency (MHz)				3499.98	3500.02	3500.06			
10	QPSK	1	1	21.53	21.50	21.52	22.7	0.0	
Channel				630000	633332	636666		MPR	
Frequency (MHz)				3499.98	3500.02	3500.06			

Par27Q n78 HPUE_FCC_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	633332	633332	24.2	0.0	
Frequency (MHz)				3499.98	3499.98	3499.98			
100	PV2 BPSK	1	1	24.02	24.02	24.02			
100	PV2 BPSK	1	137	23.96	23.96	23.96			
100	PV2 BPSK	1	271	24.00	24.00	24.00	24.2	0.5	
100	PV2 BPSK	135	0	23.41	23.41	23.41			
100	PV2 BPSK	135	86	23.32	23.32	23.32	24.2	0.5	
100	PV2 BPSK	135	138	23.35	23.35	23.35			
100	PV2 BPSK	270	0	23.38	23.38	23.38	24.7	0.0	
100	QPSK	1	1	24.11	24.11	24.11			
100	QPSK	1	137	24.00	24.00	24.00			
100	QPSK	1	271	23.87	23.87	23.87			
100	QPSK	135	0	23.57	23.57	23.57	24.7	0.0	
100	QPSK	135	86	23.83	23.83	23.83			
100	QPSK	135	138	23.34	23.34	23.34	23.7	1.0	
100	QPSK	270	0	23.37	23.37	23.37			
100	16QAM	1	1	23.40	23.40	23.40	22.2	2.5	
100	64QAM	1	1	21.78	21.78	21.78			
100	256QAM	1	1	18.42	18.42	18.42	Tune-up limit	MPR	
Channel				633000	633332	633666			
Frequency (MHz)				3499.98	3499.98	3500.02			
90	QPSK	1	1	24.09	24.10	24.01		24.7	
Channel				632668	633332	634000		MPR	
Frequency (MHz)				3499.98	3500.02	3500.06			
80	QPSK	1	1	24.10	23.97	24.10	24.7	0.0	
Channel				632334	633332	634332		MPR	
Frequency (MHz)				3499.98	3500.02	3500.06			
70	QPSK	1	1	24.09	24.05	24.09	24.9	0.0	
Channel				632000	633332	634666		MPR	
Frequency (MHz)				3499.98	3500.02	3500.06			
60	QPSK	1	1	24.09	24.02	24.09	24.7	0.0	
Channel				631668	633332	635000		MPR	
Frequency (MHz)				3499.98	3500.02	3500.06			
50	QPSK	1	1	24.04	24.03	24.04	24.7	0.0	
Channel				631334	633332	635332		MPR	
Frequency (MHz)				3499.98	3500.02	3500.06			
40	QPSK	1	1	23.98	24.05	23.98	24.7	0.0	
Channel				631000	633332	635666		MPR	
Frequency (MHz)				3499.98	3500.02	3500.06			
30	QPSK	1	1	24.07	24.07	24.07	24.7	0.0	
Channel				630668	633332	636000		MPR	
Frequency (MHz)				3499.98	3500.02	3500.06			
20	QPSK	1	1	23.98	24.02	23.98	24.7	0.0	
Channel				630334	633332	636332		MPR	
Frequency (MHz)				3499.98	3500.02	3500.06			
10	QPSK	1	1	24.02	24.04	24.02	24.7	0.0	
Channel				630000	633332	636666		MPR	
Frequency (MHz)				3499.98	3500.02	3500.06			



Par270 n78_FCC_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			21.2	0.0		
Frequency (MHz)				3750						
100	QPSK	1	1	20.26						
100	QPSK	1	137	20.19						
100	QPSK	1	271	20.13			21.2	0.0		
100	QPSK	137	0	20.08						
100	QPSK	137	68	20.05						
100	QPSK	137	138	20.00						
100	QPSK	273	0	20.08			21.2	0.0		
100	16QAM	1	1	20.13			21.2	0.0		
100	64QAM	1	1	20.21			21.2	0.0		
100	256QAM	1	1	17.16			18.2	3.0		
Channel				649968	650000	650332	Tune-up limit	MPR		
Frequency (MHz)				3745.02	3750	3754.98	(dbm)	(db)		
90	QPSK	1	1	20.16		20.04	21.2	0.0		
Channel				649334	650000	649666	Tune-up limit			MPR
Frequency (MHz)				3740.01	3750	3759.99	(dbm)			(db)
80	QPSK	1	1	20.19		20.05	21.2	0.0		
Channel				649200	650000	650200	Tune-up limit			MPR
Frequency (MHz)				3735	3750	3765	(dbm)			(db)
70	QPSK	1	1	20.11		20.02	21.2	0.0		
Channel				648568	650000	651332	Tune-up limit			MPR
Frequency (MHz)				3730.02	3750	3769.98	(dbm)			(db)
60	QPSK	1	1	20.20		20.14	21.2	0.0		
Channel				648134	650000	651666	Tune-up limit			MPR
Frequency (MHz)				3725.01	3750	3774.99	(dbm)			(db)
50	QPSK	1	1	20.18		20.10	21.2	0.0		
Channel				648000	650000	652000	Tune-up limit			MPR
Frequency (MHz)				3720	3750	3780	(dbm)			(db)
40	QPSK	1	1	20.09		20.02	21.2	0.0		
Channel				647668	650000	652332	Tune-up limit			MPR
Frequency (MHz)				3715.02	3750.00	3784.98	(dbm)			(db)
30	QPSK	1	1	20.11		20.10	21.2	0.0		
Channel				647334	650000	652666	Tune-up limit			MPR
Frequency (MHz)				3710.01	3750	3789.99	(dbm)			(db)
20	QPSK	1	1	20.19		20.11	21.2	0.0		
Channel				647000	650000	653000	Tune-up limit			MPR
Frequency (MHz)				3705	3750	3795	(dbm)			(db)
10	QPSK	1	1	20.20		20.19	20.14	21.2		
							0.0			

Par27Q n78_FCC_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	QPSK	1	1		3499.98		21.2	0.0	
100	QPSK	1	137		20.12				
100	QPSK	1	271		20.10				
100	QPSK	137	0		19.68				
100	QPSK	137	68		20.14		21.2	0.0	
100	QPSK	137	138		19.55				
100	QPSK	273	0		19.59				
100	16QAM	1	1		20.20				
100	64QAM	1	1		20.00		21.2	0.0	
100	256QAM	1	1		17.17		18.2	3.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633332	633666	Tune-up limit	MPR	
				3495	3499.98	3504.99	(dBm)	(dB)	
80	QPSK	1	1	632666	633332	634000	Tune-up limit	MPR	
				3490.02	3499.98	3510	(dBm)	(dB)	
80	QPSK	1	1	632332	633332	634332	Tune-up limit	MPR	
				3485.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	632000	633332	634666	Tune-up limit	MPR	
				3480	3499.98	3519.99	(dBm)	(dB)	
60	QPSK	1	1	631666	633332	635000	Tune-up limit	MPR	
				3475.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1	631332	633332	635332	Tune-up limit	MPR	
				3470.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1	631000	633332	635666	Tune-up limit	MPR	
				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	630668	633332	636000	Tune-up limit	MPR	
				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1	630334	633332	636332	Tune-up limit	MPR	
				3455.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1	630000	633332	636666	Tune-up limit	MPR	
				3450.01	3499.98	3549.99	(dBm)	(dB)	



Par270 n78_FCC_ANT 10									
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)				650000	3750				
100	PV2 BPSK	1	1	23.05			24.2	0.0	
100	PV2 BPSK	1	137	22.99					
100	PV2 BPSK	1	271	22.83					
100	PV2 BPSK	135	0	22.96			23.7	0.5	
100	PV2 BPSK	135	69	22.90			24.2	0.0	
100	PV2 BPSK	135	138	22.88			23.7	0.5	
100	PV2 BPSK	270	0	22.92					
100	QPSK	1	1	23.10					
100	QPSK	1	137	22.89			24.2	0.0	
100	QPSK	1	271	22.85					
100	QPSK	135	0	22.89					
100	QPSK	135	69	22.91			24.2	0.0	
100	QPSK	135	138	22.80			23.2	1.0	
100	QPSK	270	0	22.75					
100	16QAM	1	1	22.89			23.2	1.0	
100	64QAM	1	1	21.30			21.7	2.5	
100	256QAM	1	1	19.22			19.7	4.5	
Channel									
Frequency (MHz)				649868	650000	650332	Tune-up limit	MPR	
				3743.02	3750	3754.98	(dBm)	(dB)	
90	QPSK	1	1	22.98	22.96	23.02	24.2	0.5	
Channel									
Frequency (MHz)				649334	650000	650666	Tune-up limit	MPR	
				3740.01	3750	3759.99	(dBm)	(dB)	
80	QPSK	1	1	22.92	22.96	22.99	24.2	0.5	
Channel									
Frequency (MHz)				649000	650000	651000	Tune-up limit	MPR	
				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	22.91	23.00	23.83	24.2	0.5	
Channel									
Frequency (MHz)				648668	650000	651332	Tune-up limit	MPR	
				3731.02	3750	3769.98	(dBm)	(dB)	
60	QPSK	1	1	23.05	22.85	22.93	24.2	0.0	
Channel									
Frequency (MHz)				648334	650000	651666	Tune-up limit	MPR	
				3725.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1	22.91	22.92	22.97	24.2	0.0	
Channel									
Frequency (MHz)				648000	650000	653000	Tune-up limit	MPR	
				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	22.89	23.08	22.94	24.2	0.0	
Channel									
Frequency (MHz)				647668	650000	652332	Tune-up limit	MPR	
				3715.02	3750.00	3784.98	(dBm)	(dB)	
30	QPSK	1	1	22.98	23.08	22.90	24.2	0.0	
Channel									
Frequency (MHz)				647334	650000	652666	Tune-up limit	MPR	
				3710.01	3750	3789.99	(dBm)	(dB)	
20	QPSK	1	1	23.04	23.08	22.91	24.2	0.0	
Channel									
Frequency (MHz)				647000	650000	653000	Tune-up limit	MPR	
				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	22.95	23.01	22.88	24.2	0.0	

Par270 n78 HPUE_FCC_ANT 10									
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)				650000	3750				
100	PV2 BPSK	1	1	24.89			28.2	0.0	
100	PV2 BPSK	1	137	24.95					
100	PV2 BPSK	1	271	25.00					
100	PV2 BPSK	135	0	24.43			25.7	0.5	
100	PV2 BPSK	135	69	25.01			26.2	0.0	
100	PV2 BPSK	135	138	24.38			25.7	0.5	
100	PV2 BPSK	270	0	24.30					
100	QPSK	1	1	25.18					
100	QPSK	1	137	25.15			28.2	0.0	
100	QPSK	1	271	24.90					
100	QPSK	135	0	24.35					
100	QPSK	135	69	24.92			28.2	0.0	
100	QPSK	135	138	24.44					
100	QPSK	270	0	23.34					
100	16QAM	1	1	23.88			25.2	1.0	
100	64QAM	1	1	22.14			23.7	2.5	
100	256QAM	1	1	20.14			21.7	4.5	
Channel									
Frequency (MHz)				649868	650000	650332	Tune-up limit	MPR	
				3743.02	3750	3754.98	(dBm)	(dB)	
90	QPSK	1	1	24.83	24.88	24.83	25.2	0.0	
Channel									
Frequency (MHz)				649334	650000	650666	Tune-up limit	MPR	
				3740.01	3750	3759.99	(dBm)	(dB)	
80	QPSK	1	1	24.86	24.87	24.85	25.2	0.0	
Channel									
Frequency (MHz)				649000	650000	651000	Tune-up limit	MPR	
				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	24.85	24.92	24.95	25.2	0.0	
Channel									
Frequency (MHz)				648668	650000	651332	Tune-up limit	MPR	
				3731.02	3750	3769.98	(dBm)	(dB)	
60	QPSK	1	1	24.91	24.92	24.91	25.2	0.0	
Channel									
Frequency (MHz)				648334	650000	651666	Tune-up limit	MPR	
				3725.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1	24.95	24.79	24.95	26.2	0.0	
Channel									
Frequency (MHz)				648000	650000	653000	Tune-up limit	MPR	
				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	24.89	24.78	24.89	26.2	0.0	
Channel									
Frequency (MHz)				647668	650000	652332	Tune-up limit	MPR	
				3715.02	3750.00	3784.98	(dBm)	(dB)	
30	QPSK	1	1	24.96	24.79	24.96	26.2	0.0	
Channel									
Frequency (MHz)				647334	650000	652666	Tune-up limit	MPR	
				3710.01	3750	3789.99	(dBm)	(dB)	
20	QPSK	1	1	24.92	24.82	24.92	26.2	0.0	
Channel									
Frequency (MHz)				647000	650000	653000	Tune-up limit	MPR	
				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	24.81	24.94	24.81	26.2	0.0	



Par27Q n78_FCC_ANT 10								
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	24.2	0.0
Frequency (MHz)				3499.98	3499.98	3499.98		
100	PV2 BPSK	1	1	22.86	22.86	22.86		
100	PV2 BPSK	1	137	22.89	22.89	22.89	23.7	0.5
100	PV2 BPSK	1	271	22.69	22.69	22.69		
100	PV2 BPSK	135	0	22.79	22.79	22.79		
100	PV2 BPSK	135	69	22.88	22.88	22.88	23.7	0.5
100	PV2 BPSK	135	138	22.74	22.74	22.74		
100	PV2 BPSK	270	0	22.78	22.78	22.78		
100	QPSK	1	1	22.35	22.35	22.35	24.2	0.0
100	QPSK	1	137	22.87	22.87	22.87		
100	QPSK	1	271	22.71	22.71	22.71		
100	QPSK	135	0	22.80	22.80	22.80	24.2	0.0
100	QPSK	135	69	22.88	22.88	22.88		
100	QPSK	135	138	22.69	22.69	22.69		
100	QPSK	270	0	22.64	22.64	22.64	23.2	1.0
100	16QAM	1	1	22.75	22.75	22.75	23.2	1.0
100	64QAM	1	1	21.12	21.12	21.12	21.7	2.5
100	256QAM	1	1	18.08	18.08	18.07	19.7	4.5
Channel				633000	633332	633666	Tune-up limit	MPR
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)
90	QPSK	1	1	22.97	22.81	22.84	24.2	0.5
Channel				632668	633332	634000	Tune-up limit	MPR
Frequency (MHz)				3480.02	3499.98	3510	(dBm)	(dB)
80	QPSK	1	1	22.98	22.82	22.87	24.2	0.5
Channel				632334	633332	634332	Tune-up limit	MPR
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)
70	QPSK	1	1	22.92	22.67	22.77	24.2	0.5
Channel				632000	633332	634666	Tune-up limit	MPR
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)
60	QPSK	1	1	22.74	22.63	22.73	24.2	0.0
Channel				631668	633332	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3499.98	3522	(dBm)	(dB)
50	QPSK	1	1	22.78	22.85	22.84	24.2	0.0
Channel				631334	633332	635332	Tune-up limit	MPR
Frequency (MHz)				3470.01	3499.98	3526.98	(dBm)	(dB)
40	QPSK	1	1	22.79	22.89	22.78	24.2	0.0
Channel				631000	633332	635666	Tune-up limit	MPR
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)
30	QPSK	1	1	22.80	22.85	22.83	24.2	0.0
Channel				630668	633332	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)
20	QPSK	1	1	22.92	22.84	22.82	24.2	0.0
Channel				630334	633332	636332	Tune-up limit	MPR
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)	(dB)
10	QPSK	1	1	22.82	22.88	22.88	24.2	0.0

Par27Q n78 HPUE_FCC_ANT 10								
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	26.2	0.0
Frequency (MHz)				3499.98	3499.98	3499.98		
100	PV2 BPSK	1	1	25.18	25.18	25.18		
100	PV2 BPSK	1	137	24.91	24.91	24.91	25.7	0.5
100	PV2 BPSK	1	271	25.21	25.21	25.21		
100	PV2 BPSK	135	0	24.70	24.70	24.70		
100	PV2 BPSK	135	69	25.06	25.06	25.06	25.7	0.5
100	PV2 BPSK	135	138	24.83	24.83	24.83		
100	PV2 BPSK	270	0	24.49	24.49	24.49		
100	QPSK	1	1	25.36	25.36	25.36	28.2	0.0
100	QPSK	1	137	25.03	25.03	25.03		
100	QPSK	1	271	25.19	25.19	25.19		
100	QPSK	135	0	24.54	24.54	24.54	28.2	0.0
100	QPSK	135	69	25.02	25.02	25.02		
100	QPSK	135	138	24.84	24.84	24.84		
100	QPSK	270	0	24.01	24.01	24.01	25.2	1.0
100	16QAM	1	1	24.07	24.07	24.07	25.2	1.0
100	64QAM	1	1	22.84	22.84	22.84	23.7	2.5
100	256QAM	1	1	20.74	20.74	20.74	21.7	4.5
Channel				633000	633332	633666	Tune-up limit	MPR
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)
90	QPSK	1	1	25.14	25.19	25.14	26.2	0.0
Channel				632668	633332	634000	Tune-up limit	MPR
Frequency (MHz)				3480.02	3499.98	3510	(dBm)	(dB)
80	QPSK	1	1	25.14	25.12	25.14	26.2	0.0
Channel				632334	633332	634332	Tune-up limit	MPR
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)
70	QPSK	1	1	25.03	25.00	25.03	26.2	0.0
Channel				632000	633332	634666	Tune-up limit	MPR
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)
60	QPSK	1	1	25.07	25.03	25.07	26.2	0.0
Channel				631668	633332	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3499.98	3522	(dBm)	(dB)
50	QPSK	1	1	25.16	25.05	25.16	26.2	0.0
Channel				631334	633332	635332	Tune-up limit	MPR
Frequency (MHz)				3470.01	3499.98	3526.98	(dBm)	(dB)
40	QPSK	1	1	25.07	25.14	25.07	26.2	0.0
Channel				631000	633332	635666	Tune-up limit	MPR
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)
30	QPSK	1	1	25.05	25.21	25.05	26.2	0.0
Channel				630668	633332	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)
20	QPSK	1	1	25.12	25.19	25.12	26.2	0.0
Channel				630334	633332	636332	Tune-up limit	MPR
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)	(dB)
10	QPSK	1	1	25.19	25.10	25.19	26.2	0.0



Par270 n78_FCC_ANT 10

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				649968	650000	650032	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3750	3750	3754.98		
100	QPSK	1	1	21.46	21.41	21.46	22.2	0.0
100	QPSK	1	137	21.54	21.44	21.42		
100	QPSK	1	271	21.41	21.51	21.47		
100	QPSK	137	0	21.51	21.45	21.47	22.2	0.0
100	QPSK	137	68	21.45	21.47	21.47		
100	QPSK	137	138	21.47	21.45	21.45	22.2	0.0
100	QPSK	273	0	21.47	21.58	21.58		
100	16QAM	1	1	21.45	21.45	21.45	22.2	0.0
100	64QAM	1	1	21.58	21.58	21.58	22.2	0.0
100	256QAM	1	1	18.23	18.23	18.23	19.2	3.0
Channel				649968	650000	650032	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3754.98		
90	QPSK	1	1	21.46	21.41	21.46	22.2	0.0
Channel				649994	650000	650006	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3749.01	3750	3759.99		
80	QPSK	1	1	21.58	21.43	21.35	22.2	0.0
Channel				649990	650000	650010	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745	3750	3765		
70	QPSK	1	1	21.54	21.43	21.37	22.2	0.0
Channel				649968	650000	650032	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3739.02	3750	3769.98		
60	QPSK	1	1	21.46	21.41	21.42	22.2	0.0
Channel				649994	650000	650006	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3774.99		
50	QPSK	1	1	21.44	21.47	21.36	22.2	0.0
Channel				649990	650000	650010	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3760		
40	QPSK	1	1	21.48	21.43	21.44	22.2	0.0
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750.00	3764.98		
30	QPSK	1	1	21.48	21.44	21.42	22.2	0.0
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3769.99		
20	QPSK	1	1	21.49	21.39	21.40	22.2	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	21.55	21.47	21.39	22.2	0.0

Par27Q n78_FCC_ANT 10

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	633332	633666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.99		
100	QPSK	1	1	21.46	21.43	21.42	22.2	0.0
100	QPSK	1	137	21.50	21.41	21.40		
100	QPSK	1	271	21.41	21.08	21.08		
100	QPSK	137	0	21.08	21.48	21.48	22.2	0.0
100	QPSK	137	68	21.48	21.05	21.05		
100	QPSK	137	138	21.05	21.08	21.08	22.2	0.0
100	QPSK	273	0	21.08	21.45	21.45		
100	16QAM	1	1	21.45	21.45	21.45	22.2	0.0
100	64QAM	1	1	21.50	21.50	21.50	22.2	0.0
100	256QAM	1	1	18.41	18.41	18.41	19.2	3.0
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.99		
90	QPSK	1	1	21.46	21.43	21.42	22.2	0.0
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3499.02	3499.98	3510		
80	QPSK	1	1	21.49	21.40	21.35	22.2	0.0
Channel				633034	633332	634332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495.01	3499.98	3514.98		
70	QPSK	1	1	21.42	21.44	21.32	22.2	0.0
Channel				633000	633332	634666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3499.98	3519.99		
60	QPSK	1	1	21.49	21.41	21.35	22.2	0.0
Channel				633000	633332	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3499.98	3525		
50	QPSK	1	1	21.49	21.32	21.35	22.2	0.0
Channel				633034	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98		
40	QPSK	1	1	21.48	21.41	21.37	22.2	0.0
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.99		
30	QPSK	1	1	21.48	21.41	21.41	22.2	0.0
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20	QPSK	1	1	21.45	21.39	21.33	22.2	0.0
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3499.98	3544.98		
10	QPSK	1	1	21.53	21.39	21.41	22.2	0.0



Par270 n78_FCC_ANT 13									
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)				650000	3750				
100	PV2 BPSK	1	1		23.30		24.2	0.0	
100	PV2 BPSK	1	137		23.30				
100	PV2 BPSK	1	271		23.09				
100	PV2 BPSK	135	0		23.23		23.7	0.5	
100	PV2 BPSK	135	86		23.11		23.2	0.0	
100	PV2 BPSK	135	138		23.24		23.7	0.5	
100	PV2 BPSK	270	0		23.15				
100	QPSK	1	1		23.37				
100	QPSK	1	137		23.30		24.2	0.0	
100	QPSK	1	271		23.16				
100	QPSK	135	0		23.30				
100	QPSK	135	86		23.32		24.2	0.0	
100	QPSK	135	138		23.16				
100	QPSK	270	0		22.03		23.2	1.0	
100	16QAM	1	1		22.87		23.2	1.0	
100	64QAM	1	1		20.84		21.7	2.5	
100	256QAM	1	1		18.91		19.7	4.5	
Channel									
Frequency (MHz)				649668	650000	650332	Tune-up limit	MPR	
				3743.02	3750	3754.98	(dBm)	(dB)	
90	QPSK	1	1		23.23	23.23	23.15	24.2	0.0
Channel									
Frequency (MHz)				649334	650000	650666	Tune-up limit	MPR	
				3740.01	3750	3759.99	(dBm)	(dB)	
80	QPSK	1	1		23.29	23.15	23.15	24.2	0.0
Channel									
Frequency (MHz)				649000	650000	651000	Tune-up limit	MPR	
				3736	3750	3765	(dBm)	(dB)	
70	QPSK	1	1		23.19	23.22	23.33	24.2	0.0
Channel									
Frequency (MHz)				648668	650000	651332	Tune-up limit	MPR	
				3732.02	3750	3767.98	(dBm)	(dB)	
60	QPSK	1	1		23.29	23.30	23.29	24.2	0.0
Channel									
Frequency (MHz)				648334	650000	651666	Tune-up limit	MPR	
				3728.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1		23.31	23.31	23.30	24.2	0.0
Channel									
Frequency (MHz)				648000	650000	652000	Tune-up limit	MPR	
				3726	3750	3796	(dBm)	(dB)	
40	QPSK	1	1		23.30	23.33	23.20	24.2	0.0
Channel									
Frequency (MHz)				647668	650000	652332	Tune-up limit	MPR	
				3725.02	3750	3794.98	(dBm)	(dB)	
30	QPSK	1	1		23.25	23.34	23.30	24.2	0.0
Channel									
Frequency (MHz)				647334	650000	652666	Tune-up limit	MPR	
				3720.01	3750	3796.99	(dBm)	(dB)	
20	QPSK	1	1		23.31	23.28	23.21	24.2	0.0
Channel									
Frequency (MHz)				647000	650000	653000	Tune-up limit	MPR	
				3716	3750	3795	(dBm)	(dB)	
10	QPSK	1	1		23.29	23.29	23.27	24.2	0.0

Par270 n78 HPUE_FCC_ANT 13									
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)				650000	3750				
100	PV2 BPSK	1	1		24.84		26.2	0.0	
100	PV2 BPSK	1	137		24.85				
100	PV2 BPSK	1	271		24.72				
100	PV2 BPSK	135	0		24.43		25.7	0.5	
100	PV2 BPSK	135	86		24.37		25.2	0.0	
100	PV2 BPSK	135	138		24.30		25.7	0.5	
100	PV2 BPSK	270	0		24.32				
100	QPSK	1	1		24.51				
100	QPSK	1	137		24.88		26.2	0.0	
100	QPSK	1	271		24.70				
100	QPSK	135	0		23.85				
100	QPSK	135	86		24.83		26.2	0.0	
100	QPSK	135	138		23.79				
100	QPSK	270	0		23.81		25.2	1.0	
100	16QAM	1	1		24.01		25.2	1.0	
100	64QAM	1	1		22.55		23.7	2.5	
100	256QAM	1	1		20.20		21.7	4.5	
Channel									
Frequency (MHz)				649668	650000	650332	Tune-up limit	MPR	
				3743.02	3750	3754.98	(dBm)	(dB)	
90	QPSK	1	1		24.78	24.80	24.79	26.2	0.0
Channel									
Frequency (MHz)				649334	650000	650666	Tune-up limit	MPR	
				3740.01	3750	3759.99	(dBm)	(dB)	
80	QPSK	1	1		24.77	24.73	24.77	26.2	0.0
Channel									
Frequency (MHz)				649000	650000	651000	Tune-up limit	MPR	
				3736	3750	3765	(dBm)	(dB)	
70	QPSK	1	1		24.75	24.73	24.75	26.2	0.0
Channel									
Frequency (MHz)				648668	650000	651332	Tune-up limit	MPR	
				3732.02	3750	3767.98	(dBm)	(dB)	
60	QPSK	1	1		24.78	24.78	24.78	26.2	0.0
Channel									
Frequency (MHz)				648334	650000	651666	Tune-up limit	MPR	
				3728.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1		24.80	24.72	24.80	26.2	0.0
Channel									
Frequency (MHz)				648000	650000	652000	Tune-up limit	MPR	
				3726	3750	3796	(dBm)	(dB)	
40	QPSK	1	1		24.78	24.82	24.78	26.2	0.0
Channel									
Frequency (MHz)				647668	650000	652332	Tune-up limit	MPR	
				3725.02	3750	3794.98	(dBm)	(dB)	
30	QPSK	1	1		24.82	24.85	24.82	26.2	0.0
Channel									
Frequency (MHz)				647334	650000	652666	Tune-up limit	MPR	
				3720.01	3750	3796.99	(dBm)	(dB)	
20	QPSK	1	1		24.80	24.79	24.80	26.2	0.0
Channel									
Frequency (MHz)				647000	650000	653000	Tune-up limit	MPR	
				3716	3750	3795	(dBm)	(dB)	
10	QPSK	1	1		24.88	24.77	24.89	26.2	0.0



Par27Q n78_FCC_ANT 13								
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	3499.98			
100	PV2 BPSK	1	1	23.17			24.2	0.0
100	PV2 BPSK	1	137	23.24				
100	PV2 BPSK	1	271	22.98			23.7	0.5
100	PV2 BPSK	135	0	23.20				
100	PV2 BPSK	135	86	23.05			23.7	0.0
100	PV2 BPSK	135	138	23.11				
100	PV2 BPSK	270	0	23.05			23.7	0.5
100	QPSK	1	1	23.30				
100	QPSK	1	137	23.22			24.2	0.0
100	QPSK	1	271	23.09				
100	QPSK	135	0	23.15			24.2	0.0
100	QPSK	135	86	23.22				
100	QPSK	135	138	23.03			23.2	1.0
100	QPSK	270	0	22.02				
100	16QAM	1	1	22.85			23.2	1.0
100	64QAM	1	1	20.72				
100	256QAM	1	1	18.83			21.7	2.5
Channel				633000	633332	633666		
Frequency (MHz)				3495.99	3499.98	3504.99	Tune-up limit (dbm)	
90	QPSK	1	1	23.23	23.06	23.17	24.2	0.0
Channel				632668	633332	634000	Tune-up limit (dbm)	
Frequency (MHz)				3490.02	3499.98	3510	Tune-up limit (dbm)	
80	QPSK	1	1	23.22	23.17	23.15	24.2	0.0
Channel				632334	633332	634332	Tune-up limit (dbm)	
Frequency (MHz)				3485.01	3499.98	3514.98	Tune-up limit (dbm)	
70	QPSK	1	1	23.14	23.07	23.17	24.2	0.0
Channel				632000	633332	634666	Tune-up limit (dbm)	
Frequency (MHz)				3480	3499.98	3519.98	Tune-up limit (dbm)	
60	QPSK	1	1	23.28	23.13	23.26	24.2	0.0
Channel				631668	633332	635000	Tune-up limit (dbm)	
Frequency (MHz)				3475.02	3499.98	3525	Tune-up limit (dbm)	
50	QPSK	1	1	23.11	23.13	23.14	24.2	0.0
Channel				631334	633332	635332	Tune-up limit (dbm)	
Frequency (MHz)				3470.01	3499.98	3529.98	Tune-up limit (dbm)	
40	QPSK	1	1	23.16	23.08	23.23	24.2	0.0
Channel				631000	633332	635666	Tune-up limit (dbm)	
Frequency (MHz)				3465	3499.98	3534.98	Tune-up limit (dbm)	
30	QPSK	1	1	23.23	23.13	23.18	24.2	0.0
Channel				630668	633332	636000	Tune-up limit (dbm)	
Frequency (MHz)				3460.02	3499.98	3540	Tune-up limit (dbm)	
20	QPSK	1	1	23.21	23.23	23.28	24.2	0.0
Channel				630334	633332	636332	Tune-up limit (dbm)	
Frequency (MHz)				3455.01	3499.98	3544.98	Tune-up limit (dbm)	
10	QPSK	1	1	23.14	23.11	23.21	24.2	0.0

Par27Q n78 HPUE_FCC_ANT 13								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)
Channel				633332	633332			
Frequency (MHz)				3499.98	3499.98			
100	PV2 BPSK	1	1	24.49			26.2	0.0
100	PV2 BPSK	1	137	24.43				
100	PV2 BPSK	1	271	24.38			25.7	0.5
100	PV2 BPSK	135	0	24.32				
100	PV2 BPSK	135	86	24.34			25.7	0.0
100	PV2 BPSK	135	138	24.36				
100	PV2 BPSK	270	0	24.40			25.7	0.5
100	QPSK	1	1	24.58				
100	QPSK	1	137	24.55			26.2	0.0
100	QPSK	1	271	24.38				
100	QPSK	135	0	24.30			26.2	0.0
100	QPSK	135	86	24.33				
100	QPSK	135	138	24.21			25.2	1.0
100	QPSK	270	0	24.12				
100	16QAM	1	1	23.99			25.2	1.0
100	84QAM	1	1	22.85				
100	256QAM	1	1	20.86			23.7	4.5
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99	Tune-up limit	
90	QPSK	1	1	24.45	24.55	24.45	26.2	0.0
Channel				632668	633332	634000	Tune-up limit	
Frequency (MHz)				3490.02	3499.98	3510	Tune-up limit	
80	QPSK	1	1	24.45	24.55	24.45	26.2	0.0
Channel				632334	633332	634332	Tune-up limit	
Frequency (MHz)				3485.01	3499.98	3514.98	Tune-up limit	
70	QPSK	1	1	24.55	24.49	24.55	26.2	0.0
Channel				632000	633332	634666	Tune-up limit	
Frequency (MHz)				3480	3499.98	3519.99	Tune-up limit	
60	QPSK	1	1	24.50	24.51	24.50	26.2	0.0
Channel				631668	633332	635000	Tune-up limit	
Frequency (MHz)				3475.02	3499.98	3525	Tune-up limit	
50	QPSK	1	1	24.51	24.52	24.51	26.2	0.0
Channel				631334	633332	635332	Tune-up limit	
Frequency (MHz)				3470.01	3499.98	3529.98	Tune-up limit	
40	QPSK	1	1	24.49	24.42	24.49	26.2	0.0
Channel				631000	633332	635666	Tune-up limit	
Frequency (MHz)				3465	3499.98	3534.99	Tune-up limit	
30	QPSK	1	1	24.48	24.54	24.48	26.2	0.0
Channel				630668	633332	636000	Tune-up limit	
Frequency (MHz)				3460.02	3499.98	3540	Tune-up limit	
20	QPSK	1	1	24.45	24.50	24.45	26.2	0.0
Channel				630334	633332	636332	Tune-up limit	
Frequency (MHz)				3455.01	3499.98	3544.98	Tune-up limit	
10	QPSK	1	1	24.51	24.50	24.51	26.2	0.0



Par270 n78_FCC_ANT 13									
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				660000			22.7	0.0	
Frequency (MHz)				3750					
100	QPSK	1	1	21.98					
100	QPSK	1	137	21.81					
100	QPSK	1	271	21.77			22.7	0.0	
100	QPSK	137	0	21.91					
100	QPSK	137	68	21.83					
100	QPSK	137	138	21.77					
100	QPSK	273	0	21.86			22.7	0.0	
100	16QAM	1	1	21.51			22.7	0.0	
100	64QAM	1	1	21.50			22.7	0.0	
100	256QAM	1	1	18.32			19.7	3.0	
Channel				649968	650000	650332	Tune-up limit	MPR (dB)	
Frequency (MHz)				3748.02	3750	3754.98			
90	QPSK	1	1	21.82		21.78	22.7	0.0	
Channel				649344	650000	650656	Tune-up limit	MPR (dB)	
Frequency (MHz)				3740.01	3750	3759.99			
80	QPSK	1	1	21.71		21.73	22.7	0.0	
Channel				648900	650000	651000	Tune-up limit	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	21.75		21.81	22.7	0.0	
Channel				648688	650000	651332	Tune-up limit	MPR (dB)	
Frequency (MHz)				3730.02	3750	3769.98			
60	QPSK	1	1	21.76		21.87	22.7	0.0	
Channel				648344	650000	651666	Tune-up limit	MPR (dB)	
Frequency (MHz)				3728.01	3750	3774.99			
50	QPSK	1	1	21.09		21.86	22.7	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR (dB)	
Frequency (MHz)				3720	3750	3790			
40	QPSK	1	1	21.68		21.80	22.7	0.0	
Channel				647688	650000	652332	Tune-up limit	MPR (dB)	
Frequency (MHz)				3715.02	3750.00	3764.98			
30	QPSK	1	1	21.76		21.70	22.7	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR (dB)	
Frequency (MHz)				3710.01	3750	3789.99			
20	QPSK	1	1	21.62		21.75	22.7	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	21.77		21.80	22.7	0.0	

Par27Q n78_FCC_ANT 13									
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			22.7	0.0	
Frequency (MHz)				3499.98					
100	QPSK	1	1	21.99					
100	QPSK	1	137	21.80					
100	QPSK	1	271	21.79			22.7	0.0	
100	QPSK	137	0	20.99					
100	QPSK	137	68	21.96					
100	QPSK	137	138	20.89					
100	QPSK	273	0	20.93			22.7	0.0	
100	16QAM	1	1	21.98			22.7	0.0	
100	64QAM	1	1	21.50			22.7	0.0	
100	256QAM	1	1	18.39			19.7	3.0	
Channel				633000	633332	633666	Tune-up limit	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1	21.88		21.74	22.7	0.0	
Channel				632800	633332	633866	Tune-up limit	MPR (dB)	
Frequency (MHz)				3489.02	3499.98	3510			
80	QPSK	1	1	21.67		21.67	22.7	0.0	
Channel				632444	633332	634332	Tune-up limit	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	21.78		21.79	22.7	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	21.89		21.74	22.7	0.0	
Channel				631666	633332	635000	Tune-up limit	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	21.77		21.67	22.7	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	21.81		21.69	22.7	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1	21.76		21.60	22.7	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	21.81		21.64	22.7	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR (dB)	
Frequency (MHz)				3455.01	3499.98	3544.98			
10	QPSK	1	1	21.76		21.71	22.7	0.0	



Reduced Power Mode for DS11

<GSM Power State1>

GSM1800_Art.4	Searl Average Power (dBm)			Tune-up Limit	Frame-Average Power (dBm)			Tune-up Limit
	512	661	810		512	661	810	
TX Channel	1850.2	1860	1909.8	(dBm)	1850.2	1860	1909.8	(dBm)
Frequency (MHz)								
GSM 1 Tx slot	29.27	29.50	29.25	30.00	29.27	29.50	29.25	21.00
GPRS/EDGE(GMSK) 1 Tx slot	29.26	29.22	29.20	30.00	29.26	29.22	29.20	21.00
GPRS/EDGE(GMSK) 2 Tx slots	25.75	25.80	25.77	27.00	19.75	19.80	19.77	21.00
GPRS/EDGE(GMSK) 3 Tx slots	23.60	23.96	23.99	25.20	19.73	19.70	19.73	20.98
GPRS/EDGE(GMSK) 4 Tx slots	23.10	23.15	23.09	24.50	20.10	20.15	20.09	21.50
EDGE 1 Tx slot	25.00	24.96	24.91	28.00	18.00	18.96	15.91	17.00
EDGE 2 Tx slots	21.82	21.50	21.71	23.00	15.82	15.50	15.71	17.00
EDGE 3 Tx slots	19.71	19.61	19.73	21.20	15.45	15.35	15.47	19.94
EDGE 4 Tx slots	18.88	18.75	18.77	20.30	15.88	15.75	15.77	17.30
DTM Multi-slot	25.64	25.70	25.84	27.00	19.64	19.64	19.60	20.98
class 5	GPRS 1 Tx slot	25.68	25.63	25.60	27.00			
DTM Multi-slot	GSM 1 Tx slot	25.62	25.75	25.62	27.00	19.67	19.74	19.99
class 9	GPRS 1 Tx slot	25.75	25.77	25.81	27.00			
DTM Multi-slot	GSM 1 Tx slot	23.97	23.89	24.02	25.20	19.70	19.72	19.71
class 11	GPRS 2 Tx slots	23.96	24.02	23.95	25.20			
DTM Multi-slot	GSM 1 Tx slot	25.75	25.76	25.84	27.00			
class 5	EDGE 1 Tx slot	21.58	21.12	21.45	23.00	18.15	18.01	18.16
DTM Multi-slot	GSM 1 Tx slot	25.73	25.78	25.78	27.00	18.10	18.05	18.12
class 9	EDGE 1 Tx slot	21.54	21.23	21.47	23.00			
DTM Multi-slot	GSM 1 Tx slot	23.97	24.00	24.05	25.20	17.27	17.20	17.28
class 11	EDGE 2 Tx slots	19.48	19.26	19.38	21.20			

<WCDMA State1>

Band	WCDMA II_Art.4			Tune-up Limit	WCDMA IV_Art.4			Tune-up Limit
	9262	9400	9538		1312	1413	1513	
TX Channel	9692	9800	9938	(dBm)	1537	1638	1738	(dBm)
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel.99	AWR 12.5Kbps	22.62	22.66	22.80	23.50	22.77	22.80	22.78
3GPP Rel.99	RNC 12.5Kbps	22.69	22.70	22.85	23.50	22.79	22.83	22.80
3GPP Rel.6	HSDPA Subtest-1	21.97	21.85	21.79	22.50	21.72	21.81	21.91
3GPP Rel.6	HSDPA Subtest-2	21.97	21.84	21.77	22.50	21.75	21.85	21.94
3GPP Rel.6	HSDPA Subtest-3	21.46	21.34	21.28	22.00	21.26	21.33	21.38
3GPP Rel.6	HSDPA Subtest-4	21.47	21.29	21.27	22.00	21.22	21.32	21.40
3GPP Rel.6	DC-HSDPA Subtest-1	21.95	21.81	21.77	22.50	21.70	21.78	21.83
3GPP Rel.6	DC-HSDPA Subtest-2	21.93	21.77	21.68	22.50	21.72	21.78	21.83
3GPP Rel.6	DC-HSDPA Subtest-3	21.38	21.33	21.25	22.00	21.17	21.24	21.30
3GPP Rel.6	DC-HSDPA Subtest-4	21.40	21.25	21.24	22.00	21.15	21.26	21.39
3GPP Rel.6	HSUPA Subtest-1	21.99	21.89	21.89	22.50	21.81	21.85	21.98
3GPP Rel.6	HSUPA Subtest-2	20.03	19.93	19.89	20.50	19.76	19.88	20.02
3GPP Rel.6	HSUPA Subtest-3	20.00	19.93	19.88	20.50	19.68	19.87	19.99
3GPP Rel.6	HSUPA Subtest-4	20.00	19.95	19.88	20.50	19.80	19.85	19.97
3GPP Rel.6	HSUPA Subtest-5	22.00	21.80	21.80	22.50	21.80	21.90	22.00
3GPP Rel.7	HSPA(HSPA-M) Subtest-1	19.92	20.02	19.95	20.50	20.00	20.06	20.03



Band 2_Ant 4											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel Frequency (MHz)				18700	18800	18900	19100				
20	QPSK	1	0	22.56	22.3	22.54	22.3	23.8	0		
20	QPSK	1	49	22.5	22.55	22.55	22.56				
20	QPSK	1	99	22.38	22.35	22.35	22.38				
0	QPSK	50	0	21.56	21.64	21.58	21.58	22.8	1		
20	QPSK	50	24	21.54	21.55	21.55	21.55				
20	QPSK	50	50	21.49	21.52	21.5	21.5				
0	QPSK	100	0	21.51	21.55	21.54	21.54	22.8	1		
20	16QAM	1	0	21.92	21.73	21.68	21.68				
20	16QAM	1	49	21.79	21.84	21.78	21.78				
0	16QAM	1	99	21.6	21.72	21.63	21.63	21.8	2		
20	16QAM	50	0	20.68	20.59	20.45	20.45				
20	16QAM	50	24	20.56	20.56	20.54	20.54				
0	16QAM	50	50	20.51	20.5	20.51	20.51	21.8	2		
20	16QAM	100	0	20.53	20.54	20.55	20.55				
20	64QAM	1	0	20.78	20.68	20.72	20.72				
0	64QAM	1	49	20.7	20.68	20.65	20.65	20.8	2		
20	64QAM	1	99	20.59	20.51	20.69	20.69				
20	64QAM	50	0	19.64	19.59	19.48	19.48				
0	64QAM	50	24	19.58	19.57	19.57	19.57	20.8	3		
20	64QAM	50	50	19.5	19.52	19.54	19.54				
20	64QAM	100	0	19.55	19.54	19.55	19.55				
0	256QAM	1	0	17.62	17.65	17.52	17.52	18.8	5		
20	256QAM	1	49	17.50	17.52	17.34	17.34				
20	256QAM	1	99	17.50	17.59	17.47	17.47				
0	256QAM	50	0	17.51	17.55	17.41	17.41	18.8	5		
20	256QAM	50	24	17.41	17.60	17.50	17.50				
20	256QAM	50	50	17.46	17.63	17.60	17.60				
20	256QAM	100	0	17.48	17.58	17.55	17.55				
Channel Frequency (MHz)				18675	18800	18925	19125	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	22.46	22.34	22.45	22.45	23.8	0		
15	QPSK	1	37	22.46	22.32	22.32	22.32				
15	QPSK	1	74	22.24	22.31	22.31	22.31				
0	QPSK	36	0	21.52	21.44	21.41	21.41	22.8	1		
15	QPSK	36	20	21.41	21.5	21.46	21.46				
15	QPSK	36	36	21.38	21.4	21.43	21.43				
0	QPSK	72	0	21.42	21.4	21.42	21.42	22.8	1		
15	16QAM	1	0	21.82	21.59	21.63	21.63				
15	16QAM	1	37	21.74	21.73	21.65	21.65				
0	16QAM	1	74	21.5	21.58	21.68	21.68	21.8	2		
15	16QAM	36	0	20.59	20.45	20.35	20.35				
15	16QAM	36	20	20.47	20.48	20.41	20.41				
0	16QAM	36	39	20.43	20.39	20.41	20.41	21.8	2		
15	16QAM	75	0	20.44	20.48	20.41	20.41				
15	64QAM	1	0	20.69	20.59	20.63	20.63				
0	64QAM	1	37	20.64	20.56	20.59	20.59	21.8	2		
15	64QAM	1	74	20.53	20.42	20.57	20.57				
15	64QAM	36	0	19.6	19.5	19.45	19.45				
0	64QAM	36	20	19.45	19.52	19.48	19.48	20.8	3		
15	64QAM	36	39	19.39	19.46	19.44	19.44				
15	64QAM	75	0	19.47	19.48	19.48	19.48				
0	256QAM	1	0	17.58	17.57	17.43	17.43	18.8	5		
15	256QAM	1	37	17.46	17.48	17.20	17.20				
15	256QAM	1	74	17.44	17.45	17.35	17.35				
0	256QAM	36	0	17.42	17.46	17.34	17.34	18.8	5		
15	256QAM	36	20	17.28	17.46	17.45	17.45				
15	256QAM	36	39	17.32	17.50	17.50	17.50				
15	256QAM	75	0	17.41	17.42	17.42	17.42				
15	256QAM	75	0	17.41	17.42	17.42	17.42				
Channel Frequency (MHz)				18650	18800	18950	19150	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	22.52	22.31	22.27	22.27	23.8	0		
10	QPSK	1	25	22.46	22.5	22.49	22.49				
10	QPSK	1	49	22.32	22.31	22.31	22.31				
0	QPSK	25	0	21.59	21.51	21.35	21.35	22.8	1		
10	QPSK	25	12	21.43	21.42	21.49	21.49				
10	QPSK	25	25	21.42	21.42	21.41	21.41				
0	QPSK	50	0	21.39	21.43	21.5	21.5	22.8	1		
10	16QAM	1	0	21.67	21.61	21.59	21.59				
10	16QAM	1	25	21.74	21.73	21.69	21.69				
0	16QAM	1	49	21.48	21.68	21.64	21.64	21.8	2		
10	16QAM	25	0	20.55	20.47	20.42	20.42				
10	16QAM	25	12	20.44	20.45	20.48	20.48				
0	16QAM	25	25	20.47	20.36	20.43	20.43	21.8	2		
10	16QAM	50	0	20.41	20.49	20.42	20.42				
10	64QAM	1	0	20.65	20.62	20.62	20.62				
0	64QAM	1	25	20.6	20.6	20.54	20.54	21.8	2		
10	64QAM	1	49	20.48	20.46	20.64	20.64				
10	64QAM	25	0	19.51	19.45	19.38	19.38				
0	64QAM	25	12	19.45	19.5	19.49	19.49	20.8	3		
10	64QAM	25	25	19.38	19.46	19.44	19.44				
10	64QAM	50	0	19.41	19.41	19.35	19.35				
0	256QAM	1	0	17.55	17.60	17.38	17.38	18.8	5		
10	256QAM	1	25	17.42	17.46	17.27	17.27				
10	256QAM	1	49	17.45	17.47	17.35	17.35				
0	256QAM	25	0	17.45	17.43	17.27	17.27	18.8	5		
10	256QAM	25	12	17.32	17.48	17.41	17.41				
10	256QAM	25	25	17.32	17.55	17.53	17.53				
10	256QAM	50	0	17.34	17.45	17.44	17.44				
10	256QAM	50	0	17.34	17.45	17.44	17.44				
Channel Frequency (MHz)				1852.5	1880	1897.5	1917.5	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	22.43	22.4	22.27	22.27	23.8	0		
5	QPSK	1	12	22.45	22.55	22.55	22.55				
5	QPSK	1	24	22.28	22.25	22.34	22.34				
0	QPSK	12	0	21.6	21.44	21.4	21.4	22.8	1		
5	QPSK	12	7	21.44	21.5	21.48	21.48				
5	QPSK	12	13	21.36	21.49	21.43	21.43				
0	QPSK	25	0	21.46	21.4	21.48	21.48	22.8	1		
5	16QAM	1	0	21.63	21.66	21.55	21.55				
5	16QAM	1	12	21.67	21.6	21.73	21.73				
0	16QAM	1	24	21.52	21.6	21.62	21.62	21.8	2		
5	16QAM	12	0	20.57	20.45	20.35	20.35				
5	16QAM	12	7	20.46	20.45	20.5	20.5				
0	16QAM	12	13	20.45	20.43	20.45	20.45	21.8	2		
5	16QAM	25	0	20.42	20.49	20.43	20.43				
5	64QAM	1	0	20.71	20.58	20.64	20.64				
5	64QAM	1	12	20.58	20.49	20.55	20.55	21.8	2		
5	64QAM	1	24	20.5	20.47	20.61	20.61				
5	64QAM	12	0	19.56	19.47	19.44	19.44				
5	64QAM	12	7	19.54	19.53	19.5	19.5	20.8	3		
5	64QAM	12	13	19.44	19.48	19.42	19.42				
5	64QAM	25	0	19.42	19.5	19.48	19.48				
5	256QAM	1	0	17.49	17.61	17.47	17.47	18.8	5		
5	256QAM	1	12	17.46	17.46	17.30	17.30				
5	256QAM	1	24	17.44	17.49	17.41	17.41				
5	256QAM	12	0	17.40	17.49	17.33	17.33	18.8	5		
5	256QAM	12	7	17.27	17.51	17.36	17.36				
5	256QAM	12	13	17.41	17.56	17.49	17.49				
5	256QAM	25	0	17.44	17.48	17.51	17.51				
Channel Frequency (MHz)				1851.5	1880	1898.5	1918.5	Tune-up limit (dBm)	MPR (dB)		
3	QPSK	1	0	22.21	22.26	22.35	22.35	23.8	0		
3	QPSK	1	12	22.43	22.54	22.52	22.52				
3	QPSK	1	14	22.29	22.31	22.33	22.33				
0	QPSK	8	0	21.52	21.43	21.42	21.42	22.8	1		
3	QPSK	8	7	21.49	21.41	21.45	21.45				
3	QPSK	8	7	21.37	21.40	21.37	21.37				
0	QPSK	15	0	21.44	21.46	21.48	21.48	22.8	1		
3	16QAM	1	0	21.87	21.84	21.87	21.87				
3	16QAM	1	8	21.65	21.77	21.66	21.66				
0	16QAM	1	14	21.53	21.58	21.65	21.65	21.8	2		
3	16QAM	8	0	20.02	20.34	20.40	20.40				
3	16QAM	8	4	20.43	20.42	20.39	20.39				
0	16QAM	15	0	20.43	20.42	20.39	20.39	21.8	2		
3	64QAM	1	0	20.65	20.61	20.60	20.60				
3	64QAM	1	8	20.66	20.63	20.58	20.58				
0	64QAM	1	14	20.54	20.39	20.59	20.59	20.8	3		
3	64QAM	8	0	19.53	19.54	19.41	19.41				
3	64QAM	8	4	19.51	19.4	19.46	19.46				
0	64QAM	8	7	19.40	19.43	19.43	19.43	21.8	2		
3	64QAM	15	0	19.44	19.48	19.46	19.46				
3	256QAM	1	0	17.50	17.63	17.48	17.48				
0	256QAM	1	8	17.40	17.41	17.25	17.25	18.8	5		
3	256QAM	1	14	17.36	17.50	17.42	17.42				
3	256QAM	8	0								

Band 4_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 Frequency (MHz)								
				20050	20175	20300		
				1720	1732.5	1745		
20	QPSK	1	0	22.55	22.65	22.6	23.4	0
20	QPSK	1	49	22.53	22.6	22.58		
20	QPSK	1	99	22.44	22.48	22.54		
20	QPSK	50	0	21.56	21.66	21.63	22.4	1
20	QPSK	50	24	21.51	21.57	21.61		
20	QPSK	50	50	21.5	21.56	21.6		
20	QPSK	100	0	21.5	21.63	21.58	22.4	1
20	16QAM	1	0	21.84	21.91	21.98		
20	16QAM	1	49	21.72	21.85	21.94		
20	16QAM	1	99	21.69	21.79	21.7	21.4	2
20	16QAM	50	0	20.5	20.54	20.59		
20	16QAM	50	24	20.56	20.58	20.65		
20	16QAM	50	50	20.52	20.55	20.64	21.4	2
20	16QAM	100	0	20.56	20.61	20.64		
20	64QAM	1	0	20.78	20.75	20.7		
20	64QAM	1	49	20.69	20.7	20.68	20.4	3
20	64QAM	1	99	20.68	20.63	20.7		
20	64QAM	50	0	19.49	19.53	19.58		
20	64QAM	50	24	19.54	19.5	19.64	18.4	5
20	64QAM	50	50	19.53	19.57	19.64		
20	64QAM	100	0	19.56	19.58	19.65		
20	256QAM	1	0	17.48	17.65	17.63	18.4	5
20	256QAM	1	49	17.69	17.69	17.64		
20	256QAM	1	99	17.85	17.70	17.54		
20	256QAM	50	0	17.62	17.66	17.49	18.4	5
20	256QAM	50	24	17.51	17.58	17.50		
20	256QAM	50	50	17.45	17.60	17.48		
20	256QAM	100	0	17.46	17.63	17.47	18.4	5
Channel Frequency (MHz)				20025	20175	20325		
				1717.5	1727.5	1737.5		
15	QPSK	1	0	22.26	22.41	22.51	23.4	0
15	QPSK	1	37	22.43	22.63	22.4		
15	QPSK	1	74	22.36	22.4	22.51		
15	QPSK	36	0	21.39	21.39	21.54	22.4	1
15	QPSK	36	20	21.46	21.4	21.65		
15	QPSK	36	38	21.49	21.54	21.47		
15	16QAM	1	0	21.44	21.42	21.53	22.4	1
15	16QAM	1	37	21.68	21.64	21.89		
15	16QAM	1	74	21.61	21.67	21.96		
15	16QAM	36	0	20.49	20.53	20.57	21.4	2
15	16QAM	36	20	20.39	20.42	20.48		
15	16QAM	36	39	20.51	20.52	20.63		
15	16QAM	75	0	20.49	20.47	20.57	21.4	2
15	64QAM	1	0	20.75	20.65	20.67		
15	64QAM	1	37	20.54	20.52	20.73		
15	64QAM	1	74	20.68	20.51	20.7	20.4	3
15	64QAM	36	0	19.31	19.32	19.4		
15	64QAM	36	20	19.48	19.42	19.58		
15	64QAM	36	39	19.36	19.4	19.47	18.4	5
15	64QAM	75	0	19.5	19.32	19.35		
15	256QAM	1	0	17.48	17.51	17.63		
15	256QAM	1	37	17.64	17.67	17.59	18.4	5
15	256QAM	1	74	17.62	17.60	17.46		
15	256QAM	36	0	17.44	17.61	17.31		
15	256QAM	36	20	17.34	17.58	17.33	18.4	5
15	256QAM	36	39	17.33	17.42	17.36		
15	256QAM	75	0	17.29	17.60	17.30		
Channel Frequency (MHz)				20000	20175	20350	23.4 <td rowspan="3">0</td>	0
				1715	1732.5	1750		
10	QPSK	1	0	22.26	22.33	22.5		
10	QPSK	1	25	22.38	22.57	22.48	22.4	1
10	QPSK	1	49	22.31	22.39	22.39		
10	QPSK	25	0	21.47	21.32	21.53		
10	QPSK	25	12	21.44	21.57	21.59	22.4	1
10	QPSK	25	25	21.37	21.4	21.43		
10	QPSK	50	0	21.31	21.56	21.57		
10	16QAM	1	0	21.73	21.8	21.73	22.4	1
10	16QAM	1	25	21.71	21.86	21.96		
10	16QAM	1	49	21.61	21.63	21.51		
10	16QAM	25	0	20.31	20.39	20.39	21.4	2
10	16QAM	25	12	20.4	20.54	20.52		
10	16QAM	25	25	20.34	20.54	20.46		
10	16QAM	50	0	20.54	20.45	20.62	21.4	2
10	64QAM	1	0	20.72	20.73	20.64		
10	64QAM	1	25	20.64	20.62	20.63		
10	64QAM	1	49	20.59	20.58	20.61	20.4	3
10	64QAM	25	0	19.35	19.35	19.45		
10	64QAM	25	12	19.54	19.47	19.64		
10	64QAM	25	25	19.41	19.49	19.52	18.4	5
10	64QAM	50	0	19.45	19.47	19.54		
10	256QAM	1	0	17.44	17.65	17.59		
10	256QAM	1	12	17.65	17.68	17.48	18.4	5
10	256QAM	1	49	17.57	17.59	17.46		
10	256QAM	25	0	17.61	17.62	17.48		
10	256QAM	25	12	17.45	17.45	17.36	18.4	5
10	256QAM	25	25	17.29	17.48	17.32		
10	256QAM	50	0	17.38	17.51	17.39		
Channel Frequency (MHz)				19975	20175	20375	23.4 <td rowspan="3">0</td>	0
				1711.5	1732.5	1752.5		
5	QPSK	1	0	22.35	22.52	22.43		
5	QPSK	1	12	22.38	22.48	22.48	22.4	1
5	QPSK	1	24	22.35	22.46	22.36		
5	QPSK	12	0	21.48	21.37	21.41		
5	QPSK	12	13	21.52	21.39	21.52	22.4	1
5	QPSK	12	13	21.46	21.56	21.47		
5	QPSK	25	0	21.39	21.42	21.49		
5	16QAM	1	0	21.84	21.64	21.79	22.4	1
5	16QAM	1	12	21.6	21.92	21.89		
5	16QAM	1	24	21.62	21.74	21.7		
5	16QAM	12	0	20.39	20.48	20.47	21.4	2
5	16QAM	12	7	20.45	20.45	20.54		
5	16QAM	12	13	20.44	20.42	20.56		
5	16QAM	25	0	20.48	20.51	20.56	21.4	2
5	64QAM	1	0	20.73	20.58	20.65		
5	64QAM	1	12	20.59	20.58	20.78		
5	64QAM	1	24	20.51	20.48	20.53	20.4	3
5	64QAM	12	0	19.41	19.42	19.5		
5	64QAM	12	7	19.43	19.55	19.53		
5	64QAM	12	13	19.47	19.53	19.59	18.4	5
5	64QAM	25	0	19.47	19.44	19.50		
5	256QAM	1	0	17.29	17.50	17.44		
5	256QAM	1	12	17.54	17.54	17.49	18.4	5
5	256QAM	1	24	17.62	17.62	17.41		
5	256QAM	12	0	17.44	17.62	17.31		
5	256QAM	12	7	17.44	17.57	17.43	18.4	5
5	256QAM	12	13	17.38	17.60	17.41		
5	256QAM	25	0	17.48	17.54	17.47		
Channel Frequency (MHz)				19950	20175	20395	23.4 <td rowspan="3">0</td>	0
				1711.5	1732.5	1753.5		
3	QPSK	1	0	22.32	22.45	22.35		
3	QPSK	1	8	22.38	22.52	22.51	22.4	1
3	QPSK	1	14	22.28	22.48	22.45		
3	QPSK	8	0	21.49	21.39	21.51		
3	QPSK	8	4	21.47	21.39	21.48	22.4	1
3	QPSK	8	7	21.39	21.38	21.45		
3	QPSK	15	0	21.35	21.41	21.47		
3	16QAM	1	0	21.75	21.70	21.85	22.4	1
3	16QAM	1	8	21.68	21.90	21.90		
3	16QAM	1	14	21.55	21.79	21.84		
3	16QAM	8	0	20.49	20.42	20.57	21.4	2
3	16QAM	8	4	20.41	20.55	20.50		
3	16QAM	8	7	20.33	20.46	20.45		
3	16QAM	15	0	20.50	20.56	20.58	21.4	2
3	64QAM	1	0	20.77	20.57	20.69		
3	64QAM	1	8	20.57	20.63	20.78		
3	64QAM	1	14	20.58	20.45	20.60	20.4	3
3	64QAM	8	0	19.34	19.43	19.43		
3	64QAM	8	4	19.37	19.42	19.47		
3	64QAM	8	7	19.39	19.44	19.50	18.4	5
3	64QAM	15	0	19.42	19.5	19.5		
3	256QAM	1	0	17.35	17.68	17.50	18.4	5
3	256QAM	1	8	17.65	17.68	17.51		
3	256QAM	1	14	17.47	17.58	17.36		
3	256QAM	8	0	17.59	17.68	17.46	18.4	5
3	256QAM	8	4	17.48	17.63	17.47		
3	256QAM	8	7	17.31	17.48	17.34		
3	256QAM	15	0	17.35	17.59	17.36	18.4	5
Channel Frequency (MHz)				1710.7	1731.7	1752.3		
				1710.7	1731.7	1752.3		
1.4	QPSK	1	0	22.27	22.33	22.44	23.4	0
1.4	QPSK	1	3	22.49	22.49	22.41		
1.4	QPSK	1	5	22.28	22.37	22.35		
1.4	QPSK	3	0	22.38	22.36	22.45	22.4	1
1.4	QPSK	3	1	22.21	22.48	22.44		
1.4	QPSK	3	3	22.37	22.51	22.45		
1.4	16QAM	1	0	21.38	21.69	21.44	22.4	1
1.4	16QAM	1	3	21.79	21.79	21.82		
1.4	16QAM	1	3	21.59	21.88	21.97		
1.4	16QAM	1	5	21.67	21.80	21.53	22.4	1
1.4	16QAM	3	0	20.45	20.41	20.53		
1.4	16QAM	3	1	20.52	20.58	20.61		
1.4	16QAM	3	3	20.47	20.49	20.58	21.4	2
1.4	64QAM	1	0	20.49	20.48	20.57		
1.4	64QAM	1	3	20.50	20.68	20.67		
1.4	64QAM	1	5	20.65	20.49	20.67	21.4	2
1.4	64QAM	3	0	20.69	20.71	20.81		
1.4	64QAM	3	3	20.62	20.67	20.75		
1.4	64QAM	3	5	20.77	20.75	20.69	20.4	3
1.4	256QAM	1	0	19.56	19.43	19.65		
1.4	256QAM	1	1	17.40	17.51	17.55		
1.4	256QAM	1	3	17.67	17.62	17.52	18.4	5
1.4	256QAM	1	5	17.53	17.61	17.42		
1.4	256QAM	3	0	17.57	17.47	17.42		
1.4	256QAM	3	1	17.39	17.57	17.45	18.4	5
1.4	256QAM	3	3	17.38	17.47	17.39		
1.4	256QAM	3	5	17.42	17.48	17.35		

Band 7_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 Frequency (MHz)				20850	21100	21350	21.2	0
				2510	2535	2560		
20	QPSK	1	0	20.75	20.75	20.85	21.2	0
20	QPSK	1	49	20.74	20.8	20.66		
20	QPSK	1	99	20.62	20.77	20.63	21.2	0
20	QPSK	50	0	20.73	20.62	20.69		
20	QPSK	50	24	20.65	20.79	20.69	21.2	0
20	QPSK	50	50	20.74	20.61	20.73		
20	QPSK	100	0	20.74	20.77	20.68	21.2	0
20	16QAM	1	0	20.72	20.8	20.77		
20	16QAM	1	49	20.84	20.85	20.78	21.2	0
20	16QAM	1	99	20.72	20.61	20.75		
20	16QAM	50	0	20.55	20.41	20.42	20.7	0.5
20	16QAM	50	24	20.55	20.5	20.44		
20	16QAM	50	50	20.51	20.49	20.49	20.7	0.5
20	64QAM	1	0	20.58	20.63	20.58		
20	64QAM	1	49	20.51	20.57	20.5	19.7	1.5
20	64QAM	1	99	20.55	20.52	20.59		
20	64QAM	50	0	19.51	19.44	19.41	19.7	3.5
20	64QAM	50	24	19.54	19.5	19.45		
20	64QAM	50	50	19.49	19.5	19.49	17.7	3.5
20	256QAM	1	0	19.51	19.49	19.5		
20	256QAM	1	49	16.88	17.05	17.01	17.7	3.5
20	256QAM	1	99	17.03	17.11	16.94		
20	256QAM	50	0	17.07	17.09	17.06	17.7	3.5
20	256QAM	50	24	17.15	17.15	17.00		
20	256QAM	50	24	16.85	17.02	16.97	17.7	3.5
20	256QAM	50	50	16.96	17.00	16.94		
20	256QAM	100	0	17.07	17.10	17.08	17.7	3.5
Channel Frequency (MHz)				20825	21100	21375		
15	QPSK	1	0	20.73	20.73	20.74	21.2	0
15	QPSK	1	37	20.73	20.68	20.64		
15	QPSK	1	74	20.58	20.62	20.48	21.2	0
15	QPSK	36	0	20.66	20.72	20.58		
15	QPSK	36	20	20.5	20.68	20.64	21.2	0
15	QPSK	36	36	20.62	20.67	20.59		
15	QPSK	75	0	20.73	20.74	20.6	21.2	0
15	16QAM	1	0	20.71	20.64	20.72		
15	16QAM	1	37	20.68	20.61	20.65	21.2	0
15	16QAM	1	74	20.63	20.68	20.68		
15	16QAM	36	0	20.47	20.34	20.37	20.7	0.5
15	16QAM	36	20	20.43	20.4	20.41		
15	16QAM	36	39	20.49	20.48	20.5	20.7	0.5
15	16QAM	75	0	20.47	20.47	20.42		
15	64QAM	1	0	20.5	20.42	20.52	20.7	0.5
15	64QAM	1	37	20.48	20.55	20.49		
15	64QAM	1	74	20.51	20.5	20.49	19.7	1.5
15	64QAM	36	0	19.43	19.38	19.31		
15	64QAM	36	20	19.5	19.4	19.35	19.7	3.5
15	64QAM	36	39	19.47	19.38	19.39		
15	256QAM	1	0	16.85	17.02	16.98	17.7	3.5
15	256QAM	1	37	16.88	17.05	16.82		
15	256QAM	1	74	17.03	16.88	17.05	17.7	3.5
15	256QAM	36	0	17.04	17.06	16.92		
15	256QAM	36	20	16.83	16.86	16.95	17.7	3.5
15	256QAM	36	39	16.86	16.86	16.83		
15	256QAM	75	0	17.02	17.03	17.06	17.7	3.5
Channel Frequency (MHz)				20800	21100	21400		
10	QPSK	1	0	20.6	20.75	20.76	21.2	0
10	QPSK	1	25	20.64	20.67	20.54		
10	QPSK	25	0	20.68	20.64	20.68	21.2	0
10	QPSK	25	0	20.61	20.72	20.61		
10	QPSK	25	12	20.59	20.76	20.61	21.2	0
10	QPSK	25	12	20.67	20.65	20.65		
10	QPSK	50	0	20.61	20.7	20.63	21.2	0
10	16QAM	1	0	20.71	20.76	20.7		
10	16QAM	1	25	20.75	20.63	20.68	21.2	0
10	16QAM	1	49	20.67	20.68	20.69		
10	16QAM	25	0	20.52	20.4	20.3	20.7	0.5
10	16QAM	25	12	20.54	20.49	20.38		
10	16QAM	25	25	20.46	20.39	20.42	20.7	0.5
10	16QAM	50	0	20.39	20.43	20.38		
10	64QAM	1	0	20.53	20.46	20.55	20.7	0.5
10	64QAM	1	25	20.5	20.45	20.49		
10	64QAM	1	49	20.52	20.43	20.53	19.7	1.5
10	64QAM	25	0	19.46	19.33	19.37		
10	64QAM	25	12	19.53	19.44	19.31	17.7	3.5
10	64QAM	25	25	19.4	19.46	19.4		
10	64QAM	50	0	19.43	19.48	19.48	17.7	3.5
10	256QAM	1	0	16.85	17.01	16.95		
10	256QAM	1	25	16.86	17.10	16.92	17.7	3.5
10	256QAM	1	49	17.03	17.05	17.02		
10	256QAM	25	0	17.05	17.10	16.95	17.7	3.5
10	256QAM	25	12	16.82	16.82	16.86		
10	256QAM	25	25	16.85	16.87	16.82	17.7	3.5
10	256QAM	50	0	17.02	16.99	16.86		
Channel Frequency (MHz)				20775	21100	21425	21.2	0
5	QPSK	1	0	20.59	20.67	20.75		
5	QPSK	1	12	20.68	20.75	20.69	21.2	0
5	QPSK	1	24	20.46	20.66	20.5		
5	QPSK	12	0	20.58	20.69	20.61	21.2	0
5	QPSK	12	7	20.5	20.68	20.61		
5	QPSK	12	13	20.58	20.79	20.59	21.2	0
5	QPSK	25	0	20.73	20.69	20.63		
5	16QAM	1	0	20.61	20.76	20.67	21.2	0
5	16QAM	1	12	20.7	20.63	20.74		
5	16QAM	1	24	20.67	20.77	20.74	20.7	0.5
5	16QAM	12	0	20.45	20.38	20.37		
5	16QAM	12	7	20.45	20.44	20.42	20.7	0.5
5	16QAM	12	13	20.45	20.43	20.42		
5	16QAM	25	0	20.48	20.4	20.48	20.7	0.5
5	64QAM	1	0	20.49	20.51	20.46		
5	64QAM	1	12	20.44	20.47	20.49	19.7	1.5
5	64QAM	1	24	20.45	20.45	20.53		
5	64QAM	12	0	19.48	19.35	19.3	17.7	3.5
5	64QAM	12	7	19.44	19.48	19.32		
5	64QAM	12	13	19.44	19.42	19.37	17.7	3.5
5	64QAM	25	0	19.5	19.48	19.41		
5	256QAM	1	0	16.81	16.97	16.95	17.7	3.5
5	256QAM	1	12	17.01	17.08	16.89		
5	256QAM	1	24	17.04	17.07	16.99	17.7	3.5
5	256QAM	12	0	17.05	17.06	16.93		
5	256QAM	12	7	16.73	16.80	16.93	17.7	3.5
5	256QAM	12	13	16.94	16.95	16.91		
5	256QAM	25	0	16.99	16.98	17.00	17.7	3.5

Band 7_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)				20850	21100	21350		
20	QPSK	1	0	19.42	19.42	19.40	20.3	0
20	QPSK	1	49	19.34	19.42	19.39		
20	QPSK	1	99	19.32	19.31	19.28		
20	QPSK	50	0	19.30	19.37	19.39	20.3	0
20	QPSK	50	24	19.27	19.30	19.24		
20	QPSK	50	50	19.29	19.23	19.34		
20	QPSK	100	0	19.30	19.33	19.25	20.3	0
20	16QAM	1	0	19.33	19.30	19.24		
20	16QAM	1	49	19.20	19.21	19.18		
20	16QAM	50	0	19.32	19.29	19.31	20.3	0
20	16QAM	50	24	19.33	19.37	19.37		
20	16QAM	50	50	19.27	19.37	19.16		
20	16QAM	100	0	19.35	19.18	19.41	20.3	0
20	64QAM	1	0	19.28	19.35	19.37		
20	64QAM	1	49	19.32	19.24	19.33		
20	64QAM	1	99	19.40	19.30	19.28	20.3	0
20	64QAM	50	0	19.21	19.39	19.34		
20	64QAM	50	24	19.18	19.25	19.17		
20	64QAM	50	50	19.31	19.32	19.33	20.3	0
20	64QAM	100	0	19.36	19.45	19.35		
20	256QAM	1	0	17.70	17.77	17.62		
20	256QAM	1	49	17.68	17.70	17.76	18.8	1.5
20	256QAM	1	99	17.80	17.62	17.65		
20	256QAM	50	0	17.63	17.69	17.52		
20	256QAM	50	24	17.59	17.72	17.53	18.8	1.5
20	256QAM	50	50	17.49	17.65	17.64		
20	256QAM	100	0	17.56	17.69	17.50		
Channel Frequency (MHz)				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	19.29	19.40	19.39	20.3	0
15	QPSK	1	37	19.29	19.26	19.24		
15	QPSK	1	74	19.21	19.21	19.19		
15	QPSK	36	0	19.26	19.36	19.28	20.3	0
15	QPSK	36	36	19.15	19.29	19.27		
15	QPSK	36	99	19.25	19.08	19.32		
15	QPSK	75	0	19.22	19.31	19.24	20.3	0
15	16QAM	1	0	19.23	19.25	19.19		
15	16QAM	1	37	19.18	19.16	19.03		
15	16QAM	1	74	19.34	19.24	19.24	20.3	0
15	16QAM	36	0	19.28	19.25	19.21		
15	16QAM	36	36	19.23	19.35	19.28		
15	16QAM	36	99	19.16	19.31	19.12	20.3	0
15	16QAM	75	0	19.27	19.38	19.28		
15	64QAM	1	0	19.27	19.29	19.29		
15	64QAM	1	37	19.27	19.14	19.20	20.3	0
15	64QAM	1	74	19.28	19.24	19.23		
15	64QAM	36	0	19.16	19.32	19.21		
15	64QAM	36	20	19.09	19.16	19.16	20.3	0
15	64QAM	36	99	19.22	19.29	19.31		
15	64QAM	75	0	19.27	19.34	19.23		
15	256QAM	1	0	17.61	17.67	17.53	18.8	1.5
15	256QAM	1	37	17.54	17.62	17.62		
15	256QAM	1	74	17.80	17.64	17.65		
15	256QAM	36	0	17.53	17.62	17.42	18.8	1.5
15	256QAM	36	36	17.48	17.61	17.43		
15	256QAM	36	99	17.31	17.51	17.46		
15	256QAM	75	0	17.39	17.65	17.33		
Channel Frequency (MHz)				21000	21400	21600	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	19.32	19.34	19.31	20.3	0
10	QPSK	1	25	19.28	19.36	19.33		
10	QPSK	1	49	19.29	19.25	19.19		
10	QPSK	25	0	19.19	19.23	19.31	20.3	0
10	QPSK	25	12	19.19	19.15	19.10		
10	QPSK	25	25	19.17	19.15	19.33		
10	QPSK	50	0	19.16	19.22	19.19	20.3	0
10	16QAM	1	0	19.22	19.21	19.09		
10	16QAM	1	25	19.06	19.07	19.12		
10	16QAM	1	49	19.30	19.18	19.24	20.3	0
10	16QAM	25	0	19.31	19.15	19.20		
10	16QAM	25	12	19.28	19.23	19.31		
10	16QAM	25	25	19.26	19.35	19.10	20.3	0
10	16QAM	50	0	19.30	19.06	19.28		
10	64QAM	1	0	19.17	19.20	19.30		
10	64QAM	1	25	19.18	19.17	19.20	20.3	0
10	64QAM	1	49	19.33	19.23	19.33		
10	64QAM	25	0	19.07	19.35	19.31		
10	64QAM	25	12	19.15	19.11	19.03	20.3	0
10	64QAM	25	25	19.21	19.31	19.28		
10	64QAM	50	0	19.34	19.40	19.30		
10	256QAM	1	0	17.56	17.68	17.48	18.8	1.5
10	256QAM	1	25	17.60	17.77	17.68		
10	256QAM	1	49	17.80	17.63	17.68		
10	256QAM	25	0	17.50	17.64	17.56	18.8	1.5
10	256QAM	25	12	17.47	17.58	17.41		
10	256QAM	25	25	17.33	17.48	17.48		
10	256QAM	50	0	17.38	17.54	17.33		
Channel Frequency (MHz)				20775	21400	21425	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	19.28	19.45	19.27	20.3	0
5	QPSK	1	24	19.22	19.16	19.13		
5	QPSK	12	0	19.18	19.28	19.20		
5	QPSK	12	7	19.11	19.14	19.20	20.3	0
5	QPSK	12	13	19.27	19.08	19.33		
5	QPSK	25	0	19.26	19.27	19.19		
5	16QAM	1	0	19.17	19.19	19.13	20.3	0
5	16QAM	1	12	19.16	19.13	19.08		
5	16QAM	1	24	19.28	19.27	19.22		
5	16QAM	12	0	19.21	19.14	19.18	20.3	0
5	16QAM	12	7	19.28	19.28	19.22		
5	16QAM	12	13	19.12	19.32	19.02		
5	16QAM	25	0	19.32	19.16	19.28	20.3	0
5	64QAM	1	0	19.16	19.21	19.27		
5	64QAM	1	12	19.18	19.12	19.27		
5	64QAM	1	24	19.34	19.14	19.12	20.3	0
5	64QAM	12	0	19.11	19.32	19.21		
5	64QAM	12	7	19.10	19.21	19.03		
5	64QAM	12	13	19.16	19.30	19.29	20.3	0
5	64QAM	25	0	19.37	19.31	19.30		
5	256QAM	1	0	17.52	17.64	17.44		
5	256QAM	1	12	17.52	17.79	17.60	18.8	1.5
5	256QAM	1	24	17.63	17.65	17.51		
5	256QAM	12	0	17.48	17.59	17.23		
5	256QAM	12	7	17.43	17.59	17.37	18.8	1.5
5	256QAM	12	13	17.37	17.52	17.26		
5	256QAM	25	0	17.42	17.58	17.36		



Band 25_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 Frequency (MHz)				26140	26340	26590				
				1860	1880	1900				
20	QPSK	1	0	22.61	22.65	22.55	23.4	0		
20	QPSK	1	49	22.6	22.49	22.47				
20	QPSK	1	99	22.38	22.48	22.38				
20	QPSK	50	0	21.63	21.69	21.59	22.4	1		
20	QPSK	50	24	21.6	21.62	21.54				
20	QPSK	50	50	21.62	21.56	21.59				
20	QPSK	100	0	21.63	21.66	21.52	22.4	1		
20	16QAM	1	0	21.82	21.55	21.7				
20	16QAM	1	49	21.8	21.8	22.06				
20	16QAM	1	99	21.66	21.68	21.62	21.4	2		
20	16QAM	50	0	20.7	20.59	20.52				
20	16QAM	50	24	20.69	20.64	20.54				
20	16QAM	50	50	20.64	20.57	20.59	21.4	2		
20	16QAM	100	0	20.66	20.61	20.54				
20	16QAM	1	0	20.88	20.75	20.75				
20	16QAM	1	49	20.99	20.67	20.72	21.4	2		
20	16QAM	50	0	20.56	20.57	20.6				
20	16QAM	50	0	19.74	19.59	19.53				
20	16QAM	50	24	19.67	19.67	19.58	20.4	3		
20	16QAM	50	50	19.62	19.56	19.54				
20	16QAM	100	0	19.66	19.6	19.52				
20	256QAM	1	0	17.40	17.56	17.55	18.4	5		
20	256QAM	1	49	17.59	17.60	17.47				
20	256QAM	1	99	17.53	17.68	17.48				
20	256QAM	50	0	17.44	17.52	17.52	18.4	5		
20	256QAM	50	24	17.47	17.59	17.54				
20	256QAM	50	50	17.48	17.50	17.49				
20	256QAM	100	0	17.39	17.39	17.47	18.4	5		
Channel Frequency (MHz)				26115	26340	26640			Tune-up limit (dBm)	MPR (dB)
				1862.5	1880	1907.5				
15	QPSK	1	0	22.59	22.42	22.35	23.4	0		
15	QPSK	1	37	22.43	22.43	22.42				
15	QPSK	1	74	22.37	22.41	22.3				
15	QPSK	36	0	21.52	21.59	21.48	22.4	1		
15	QPSK	36	20	21.67	21.5	21.41				
15	QPSK	36	36	21.62	21.54	21.56				
15	16QAM	1	0	21.6	21.46	21.37	22.4	1		
15	16QAM	1	37	21.73	21.67	21.96				
15	16QAM	1	74	21.52	21.52	21.52				
15	16QAM	36	0	20.54	20.43	20.39	21.4	2		
15	16QAM	36	24	20.61	20.46	20.46				
15	16QAM	36	39	20.58	20.44	20.53				
15	16QAM	36	39	20.58	20.43	20.49	21.4	2		
15	16QAM	75	0	20.83	20.57	20.7				
15	16QAM	75	0	20.95	20.56	20.68				
15	16QAM	1	74	20.46	20.49	20.5	18.4	5		
15	16QAM	36	0	19.56	19.43	19.35				
15	16QAM	36	20	19.53	19.54	19.44				
15	16QAM	36	39	19.56	19.48	19.53	20.4	3		
15	16QAM	75	0	19.56	19.42	19.45				
15	16QAM	1	0	17.21	17.56	17.35				
15	256QAM	1	37	17.55	17.59	17.43	18.4	5		
15	256QAM	1	74	17.47	17.53	17.42				
15	256QAM	36	0	17.34	17.52	17.42				
15	256QAM	36	20	17.30	17.40	17.37	18.4	5		
15	256QAM	36	39	17.47	17.45	17.48				
15	256QAM	75	0	17.36	17.45	17.44				
Channel Frequency (MHz)				26900	26340	26640	Tune-up limit (dBm)	MPR (dB)		
				1865	1880	1910				
10	QPSK	1	0	22.53	22.41	22.39	23.4	0		
10	QPSK	1	25	22.52	22.4	22.3				
10	QPSK	1	49	22.23	22.45	22.35				
10	QPSK	25	0	21.56	21.47	21.34	22.4	1		
10	QPSK	25	12	21.56	21.5	21.36				
10	QPSK	25	25	21.5	21.63	21.44				
10	16QAM	1	0	21.44	21.39	21.47	22.4	1		
10	16QAM	1	0	21.69	21.78	21.51				
10	16QAM	1	25	21.77	21.8	21.66				
10	16QAM	1	49	21.5	21.54	21.53	21.4	2		
10	16QAM	25	0	20.53	20.38	20.35				
10	16QAM	25	12	20.53	20.61	20.38				
10	16QAM	25	25	20.58	20.39	20.53	21.4	2		
10	16QAM	50	0	20.64	20.6	20.52				
10	16QAM	50	0	20.73	20.57	20.6				
10	16QAM	1	25	20.87	20.55	20.49	21.4	2		
10	16QAM	1	49	20.46	20.45	20.5				
10	16QAM	25	0	19.72	19.59	19.51				
10	16QAM	25	12	19.65	19.58	19.56	20.4	3		
10	16QAM	25	25	19.59	19.51	19.56				
10	16QAM	50	0	19.65	19.46	19.51				
10	256QAM	1	0	17.33	17.55	17.50	18.4	5		
10	256QAM	1	25	17.42	17.52	17.42				
10	256QAM	1	49	17.49	17.66	17.44				
10	256QAM	25	0	17.36	17.40	17.44	18.4	5		
10	256QAM	25	12	17.46	17.59	17.36				
10	256QAM	25	25	17.42	17.43	17.43				
10	256QAM	50	0	17.22	17.44	17.30	18.4	5		
Channel Frequency (MHz)				26955	26340	26640			Tune-up limit (dBm)	MPR (dB)
				1892.5	1880	1912.5				
5	QPSK	1	0	22.51	22.41	22.34	23.4	0		
5	QPSK	1	12	22.41	22.41	22.35				
5	QPSK	1	24	22.22	22.33	22.2				
5	QPSK	12	0	21.58	21.54	21.52	22.4	1		
5	QPSK	12	7	21.59	21.63	21.52				
5	QPSK	12	13	21.46	21.44	21.37				
5	QPSK	25	0	21.48	21.53	21.48	22.4	1		
5	16QAM	1	0	21.65	21.73	21.63				
5	16QAM	1	12	21.9	21.61	21.96				
5	16QAM	1	24	21.57	21.62	21.6	21.4	2		
5	16QAM	12	0	20.65	20.4	20.47				
5	16QAM	12	7	20.62	20.61	20.47				
5	16QAM	12	13	20.64	20.42	20.59	21.4	2		
5	16QAM	25	0	20.58	20.58	20.46				
5	16QAM	25	0	20.84	20.6	20.71				
5	16QAM	1	12	20.86	20.58	20.59	21.4	2		
5	16QAM	1	24	20.53	20.54	20.64				
5	16QAM	12	0	19.72	19.41	19.51				
5	16QAM	12	7	19.52	19.58	19.43	20.4	3		
5	16QAM	12	13	19.45	19.45	19.42				
5	16QAM	25	0	19.57	19.55	19.43				
5	256QAM	1	0	17.34	17.53	17.49	18.4	5		
5	256QAM	1	12	17.53	17.43	17.41				
5	256QAM	1	24	17.43	17.58	17.38				
5	256QAM	12	0	17.41	17.40	17.49	18.4	5		
5	256QAM	12	7	17.29	17.47	17.36				
5	256QAM	12	13	17.41	17.40	17.39				
5	256QAM	25	0	17.25	17.25	17.39	18.4	5		
Channel Frequency (MHz)				26955	26340	26675			Tune-up limit (dBm)	MPR (dB)
				1851.5	1880	1914.3				
3	QPSK	1	0	22.51	22.36	22.33	23.4	0		
3	QPSK	1	8	22.60	22.32	22.37				
3	QPSK	1	14	22.36	22.37	22.23				
3	QPSK	8	0	21.50	21.51	21.52	22.4	1		
3	QPSK	8	4	21.51	21.45	21.38				
3	QPSK	8	7	21.53	21.55	21.38				
3	16QAM	1	0	21.49	21.47	21.33	22.4	1		
3	16QAM	1	0	21.82	21.80	21.63				
3	16QAM	1	8	21.83	21.61	21.87				
3	16QAM	1	14	21.56	21.50	21.53	21.4	2		
3	16QAM	8	0	20.60	20.51	20.42				
3	16QAM	8	4	20.51	20.55	20.36				
3	16QAM	8	7	20.57	20.43	20.52	21.4	2		
3	16QAM	15	0	20.58	20.42	20.46				
3	16QAM	1	0	20.70	20.75	20.67				
3	16QAM	1	8	20.76	20.64	20.68	21.4	2		
3	16QAM	1	14	20.41	20.56	20.45				
3	16QAM	8	0	19.60	19.41	19.39				
3	16QAM	8	4	19.48	19.62	19.35	20.4	3		
3	16QAM	8	7	19.59	19.45	19.56				
3	16QAM	15	0	19.66	19.44	19.52				
3	256QAM	1	0	17.26	17.55	17.41	18.4	5		
3	256QAM	1	8	17.56	17.53	17.43				
3	256QAM	1	14	17.43	17.55	17.38				
3	256QAM	8	0	17.29	17.42	17.37	18.4	5		
3	256QAM	8	4	17.47	17.47	17.37				
3	256QAM	8	7	17.36	17.41	17.37				
3	256QAM	15	0	17.36	17.47	17.44	18.4	5		
Channel Frequency (MHz)				26972	26340	26985			Tune-up limit (dBm)	MPR (dB)
				1850.7	1880	1914.3				
1.4	QPSK	1	0	22.60	22.45	22.49	23.4	0		
1.4	QPSK	1	3	22.58	22.39	22.37				
1.4	QPSK	1	5	22.43	22.43	22.17				
1.4	QPSK	3	0	22.48	22.47	22.42	22.4	1		
1.4	QPSK	3	1	22.58	22.39	22.39				
1.4	QPSK	3	3	22.45	22.28	22.49				
1.4	16QAM	1	0	21.59	21.55	21.42	22.4	1		
1.4	16QAM	1	1	21.67	21.80	21.64				
1.4	16QAM	1	3	21.76	21.78	21.86				
1.4	16QAM	1	5	21.65	21.65	21.50	22.4	1		
1.4	16QAM	3	0	21.71	21.82	21.57				
1.4	16QAM	3	1	21.67	21.78	21.53				
1.4	16QAM	3	3	21.84	21.52	21.52	21.4	2		
1.4	16QAM	6	0	20.55	20.59	20.43				
1.4	16QAM	1	0	20.80	20.70	20.67				
1.4	16QAM	1	3	20.85	20.62	20.52	21.4	2		
1.4	16QAM	1	5	20.39	20.46	20.43				
1.4	16QAM	3	0	20.95	20.62	20.68				
1.4	16QAM	3	3	20.80	20.63	20.63	20.4	3		
1.4	16QAM	6	0	19.61	19.43	19.47				
1.4	256QAM	1	0	17.26	17.42	17.41				
1.4	256QAM	1	3	17.45	17.42	17.33	18.4	5		
1.4	256QAM	1	5	17.36	17.64	17.31				
1.4	256QAM	3	0	17.35	17.39	17.43				
1.4	256QAM	3	1	17.40	17.59	17.47	18.4	5		
1.4	256QAM	3	3	17.46	17.39	17.47				
1.4	256QAM	6	0	17.30	17.36	17.36				



Band 30_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 Frequency (MHz)				27710	2310		20.4	0	
10	QPSK	1	0	19.31	19.33	19.43	20.4	0	
10	QPSK	1	25	19.42	19.42	19.43			
10	QPSK	25	0	19.45	19.45	19.45			
10	QPSK	25	12	19.4	19.4	19.4			
10	QPSK	25	25	19.36	19.36	19.36	20.4	0	
10	QPSK	50	0	19.43	19.43	19.43			
10	16QAM	1	0	19.47	19.47	19.47			
10	16QAM	1	25	19.38	19.38	19.38			
10	16QAM	1	49	19.38	19.38	19.38	20.4	0	
10	16QAM	25	0	19.44	19.44	19.44			
10	16QAM	25	12	19.29	19.29	19.29			
10	16QAM	25	25	19.35	19.35	19.35			
10	16QAM	50	0	19.34	19.34	19.34	20.4	0	
10	64QAM	1	0	19.42	19.42	19.42			
10	64QAM	1	25	19.43	19.43	19.43			
10	64QAM	1	49	19.44	19.44	19.44			
10	64QAM	25	0	19.35	19.35	19.35	19.9	0.5	
10	64QAM	25	12	19.31	19.31	19.31			
10	64QAM	25	25	19.36	19.36	19.36			
10	64QAM	50	0	19.3	19.3	19.3			
10	256QAM	1	0	17.20	17.20	17.20	17.9	2.5	
10	256QAM	1	25	17.30	17.30	17.30			
10	256QAM	1	49	17.17	17.17	17.17			
10	256QAM	25	0	17.24	17.24	17.24			
10	256QAM	25	12	17.21	17.21	17.21	17.9	2.5	
10	256QAM	25	25	17.25	17.25	17.25			
10	256QAM	50	0	17.27	17.27	17.27			
Channel Frequency (MHz)				27685	27710	27735	Tune-up limit (dbm)	MPR (db)	
				2307.5	2310	2312.5	20.4	0	
5	QPSK	1	0	19.37	19.38	19.49	20.4	0	
5	QPSK	1	12	19.21	19.22	19.2			
5	QPSK	1	24	19.42	19.3	19.32			
5	QPSK	12	0	19.43	19.4	19.33			
5	QPSK	12	7	19.38	19.31	19.28	20.4	0	
5	QPSK	12	13	19.28	19.22	19.35			
5	QPSK	25	0	19.36	19.35	19.35			
5	16QAM	1	0	19.34	19.41	19.37			
5	16QAM	1	12	19.29	19.28	19.35	20.4	0	
5	16QAM	1	24	19.27	19.22	19.38			
5	16QAM	12	0	19.35	19.33	19.3			
5	16QAM	12	7	19.16	19.27	19.2			
5	16QAM	12	13	19.29	19.24	19.25	20.4	0	
5	16QAM	25	0	19.2	19.31	19.34			
5	64QAM	1	0	19.28	19.27	19.29			
5	64QAM	1	12	19.4	19.34	19.29			
5	64QAM	1	24	19.33	19.38	19.29	19.9	0.5	
5	64QAM	12	0	19.35	19.34	19.28			
5	64QAM	12	7	19.12	19.25	19.23			
5	64QAM	12	13	19.31	19.35	19.24			
5	64QAM	25	0	19.15	19.2	19.12	17.9	2.5	
5	256QAM	1	0	17.04	17.17	17.05			
5	256QAM	1	12	17.17	17.22	17.20			
5	256QAM	1	24	17.08	17.16	17.11			
5	256QAM	12	0	17.19	17.17	17.07	17.9	2.5	
5	256QAM	12	7	17.02	17.19	17.13			
5	256QAM	12	13	17.10	17.17	17.07			
5	256QAM	25	0	17.15	17.22	17.13			

Band 30_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)				27710 2310			21.3	0	
10	QPSK	1	0	20.45			21.3	0	
10	QPSK	1	25	20.35					
10	QPSK	1	49	20.39					
10	QPSK	25	0	20.32					
10	QPSK	25	12	20.30			21.3	0	
10	QPSK	25	25	20.28					
10	QPSK	50	0	20.30					
10	16QAM	1	0	20.32					
10	16QAM	1	25	20.33			21.3	0	
10	16QAM	1	49	20.38					
10	16QAM	25	0	20.28					
10	16QAM	25	12	20.28					
10	16QAM	25	25	20.29			21.3	0	
10	16QAM	50	0	20.25					
10	64QAM	1	0	20.28					
10	64QAM	1	25	20.34					
10	64QAM	1	49	20.34			21.3	0	
10	64QAM	25	0	19.90					
10	64QAM	25	12	19.85					
10	64QAM	25	25	19.80					
10	64QAM	50	0	19.88			20.8	0.5	
10	256QAM	1	0	17.90					
10	256QAM	1	25	17.88					
10	256QAM	1	49	17.80					
10	256QAM	25	0	17.85			18.8	2.5	
10	256QAM	25	12	17.90					
10	256QAM	25	25	17.85					
10	256QAM	50	0	17.81					
Channel Frequency (MHz)				27685	27710	27735	Tune-up limit (dbm)	MPR (db)	
				2307.5	2310	2312.5	21.3	0	
5	QPSK	1	0	20.28	20.32	20.36	21.3	0	
5	QPSK	1	12	20.20	20.24	20.28			
5	QPSK	1	24	20.28	20.31	20.28			
5	QPSK	12	0	20.26	20.20	20.24			
5	QPSK	12	7	20.11	20.11	20.15	21.3	0	
5	QPSK	12	13	20.14	20.17	20.15			
5	QPSK	25	0	20.11	20.14	20.20			
5	16QAM	1	0	20.22	20.21	20.16			
5	16QAM	1	12	20.25	20.21	20.17	21.3	0	
5	16QAM	1	24	20.20	20.25	20.25			
5	16QAM	12	0	20.13	20.23	20.15			
5	16QAM	12	7	20.09	20.12	20.21			
5	16QAM	12	13	20.15	20.16	20.10	21.3	0	
5	16QAM	25	0	20.16	20.09	20.11			
5	64QAM	1	0	20.12	20.07	20.20			
5	64QAM	1	12	20.25	20.21	20.25			
5	64QAM	1	24	20.23	20.14	20.21	20.8	0.5	
5	64QAM	12	0	19.76	19.80	19.85			
5	64QAM	12	7	19.73	19.76	19.75			
5	64QAM	12	13	19.76	19.67	19.72			
5	64QAM	25	0	19.72	19.73	19.64	18.8	2.5	
5	256QAM	1	0	17.88	17.88	17.83			
5	256QAM	1	12	17.85	17.84	17.84			
5	256QAM	1	24	17.68	17.64	17.71			
5	256QAM	12	0	17.75	17.84	17.85	18.8	2.5	
5	256QAM	12	7	17.89	17.75	17.73			
5	256QAM	12	13	17.76	17.85	17.68			
5	256QAM	25	0	17.74	17.74	17.64			

Band 66_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 132072								
Frequency (MHz)								
20	QPSK	1	0	22.44	22.63	22.58	23.4	0
20	QPSK	1	49	22.43	22.58	22.53		
20	QPSK	1	99	22.42	22.51	22.42		
20	QPSK	50	0	21.68	21.71	21.7		
20	QPSK	50	24	21.62	21.66	21.66	22.4	1
20	QPSK	50	50	21.53	21.58	21.58		
20	QPSK	100	0	21.58	21.64	21.62		
20	16QAM	1	0	21.62	21.9	21.78		
20	16QAM	1	49	21.88	22.11	21.77	22.4	1
20	16QAM	1	99	21.91	21.96	21.83		
20	16QAM	50	0	20.51	20.69	20.72		
20	16QAM	50	24	20.6	20.67	20.68		
20	16QAM	50	50	20.58	20.64	20.61	21.4	2
20	16QAM	100	0	20.6	20.64	20.68		
20	64QAM	1	0	20.78	20.85	20.82		
20	64QAM	1	49	20.78	20.88	20.92		
20	64QAM	1	99	20.75	20.77	20.81	21.4	2
20	64QAM	50	0	19.85	19.86	19.71		
20	64QAM	50	24	19.84	19.88	19.84		
20	64QAM	50	50	19.58	19.68	19.61		
20	64QAM	100	0	19.81	19.58	19.68	20.4	3
20	256QAM	1	0	17.62	17.68	17.63		
20	256QAM	1	49	17.48	17.65	17.64		
20	256QAM	1	99	17.53	17.60	17.44		
20	256QAM	50	24	17.53	17.66	17.57	18.4	5
20	256QAM	50	50	17.71	17.73	17.73		
20	256QAM	50	0	17.61	17.70	17.54		
20	256QAM	100	0	17.60	17.62	17.61		
Channel 132072								
Frequency (MHz)								
15	QPSK	1	0	22.42	22.56	22.48	23.4	0
15	QPSK	1	37	22.41	22.56	22.48		
15	QPSK	1	74	22.38	22.46	22.39		
15	QPSK	36	0	21.49	21.68	21.66		
15	QPSK	36	20	21.55	21.55	21.65	22.4	1
15	QPSK	36	39	21.48	21.63	21.56		
15	QPSK	75	0	21.70	21.82	21.70		
15	16QAM	1	0	21.70	21.82	21.70		
15	16QAM	1	37	21.82	22.10	21.73	22.4	1
15	16QAM	74	0	21.81	21.92	21.83		
15	16QAM	36	0	20.45	20.64	20.61		
15	16QAM	36	20	20.59	20.67	20.68		
15	16QAM	36	39	20.54	20.57	20.59	21.4	2
15	16QAM	75	0	20.49	20.57	20.57		
15	64QAM	1	0	20.73	20.78	20.72		
15	64QAM	1	37	20.68	20.86	20.85		
15	64QAM	1	74	20.64	20.96	20.50	20.4	3
15	64QAM	36	0	19.48	19.57	19.68		
15	64QAM	36	20	19.53	19.64	19.56		
15	64QAM	36	39	19.58	19.64	19.58		
15	256QAM	1	0	19.58	19.68	19.64	18.4	5
15	256QAM	1	0	17.60	17.68	17.55		
15	256QAM	1	37	17.43	17.59	17.58		
15	256QAM	74	0	17.50	17.62	17.60		
15	256QAM	36	0	17.47	17.64	17.46	18.4	5
15	256QAM	36	20	17.67	17.67	17.69		
15	256QAM	36	39	17.50	17.62	17.68		
15	256QAM	75	0	17.58	17.54	17.57		
Channel 132022								
Frequency (MHz)								
10	QPSK	1	0	22.37	22.54	22.53	23.4	0
10	QPSK	1	25	22.33	22.56	22.44		
10	QPSK	1	49	22.38	22.45	22.40		
10	QPSK	25	0	21.48	21.67	21.70		
10	QPSK	25	12	21.54	21.44	21.64	22.4	1
10	QPSK	25	12	21.53	21.63	21.62		
10	QPSK	50	0	21.56	21.58	21.56		
10	16QAM	1	0	21.73	21.78	21.77		
10	16QAM	1	25	21.82	22.01	21.85	22.4	1
10	16QAM	1	49	21.80	21.88	21.58		
10	16QAM	25	0	20.39	20.67	20.61		
10	16QAM	25	12	20.59	20.68	20.59		
10	16QAM	25	25	20.58	20.53	20.60	21.4	2
10	16QAM	50	0	20.58	20.59	20.63		
10	64QAM	1	0	20.71	20.82	20.77		
10	64QAM	1	25	20.68	20.86	20.85		
10	64QAM	1	49	20.69	20.75	20.55	21.4	2
10	64QAM	25	0	19.50	19.65	19.69		
10	64QAM	25	12	19.59	19.62	19.58		
10	64QAM	25	25	19.54	19.59	19.51		
10	64QAM	50	0	19.59	19.54	19.63	20.4	3
10	256QAM	1	0	17.56	17.67	17.58		
10	256QAM	1	25	17.43	17.68	17.65		
10	256QAM	1	49	17.46	17.54	17.40		
10	256QAM	25	0	17.44	17.55	17.58	18.4	5
10	256QAM	25	12	17.68	17.68	17.65		
10	256QAM	25	25	17.50	17.62	17.53		
10	256QAM	50	0	17.52	17.62	17.55		
Channel 132022								
Frequency (MHz)								
5	QPSK	1	0	22.32	22.52	22.48	23.4	0
5	QPSK	1	12	22.34	22.46	22.48		
5	QPSK	1	24	22.40	22.44	22.40		
5	QPSK	12	0	21.41	21.66	21.61		
5	QPSK	12	7	21.55	21.49	21.59	22.4	1
5	QPSK	12	13	21.50	21.58	21.53		
5	QPSK	25	0	21.56	21.56	21.58		
5	16QAM	1	0	21.73	21.78	21.72		
5	16QAM	1	12	21.87	22.09	21.76	22.4	1
5	16QAM	1	24	21.89	21.93	21.76		
5	16QAM	12	0	20.43	20.61	20.64		
5	16QAM	12	7	20.59	20.61	20.57		
5	16QAM	12	13	20.54	20.59	20.55	21.4	2
5	16QAM	25	0	20.59	20.54	20.63		
5	64QAM	1	0	20.73	20.74	20.74		
5	64QAM	1	12	20.70	20.86	20.69		
5	64QAM	1	24	20.69	20.67	20.56	21.4	2
5	64QAM	12	0	19.45	19.63	19.65		
5	64QAM	12	7	19.58	19.56	19.53		
5	64QAM	12	13	19.53	19.62	19.54		
5	64QAM	25	0	19.58	19.50	19.57	20.4	3
5	256QAM	1	0	17.56	17.63	17.61		
5	256QAM	1	12	17.43	17.58	17.59		
5	256QAM	1	24	17.46	17.59	17.34		
5	256QAM	12	0	17.44	17.55	17.50	18.4	5
5	256QAM	12	7	17.70	17.72	17.61		
5	256QAM	12	13	17.57	17.69	17.65		
5	256QAM	25	0	17.53	17.61	17.55		
Channel 131967								
Frequency (MHz)								
3	QPSK	1	0	22.33	22.56	22.50	23.4	0
3	QPSK	1	8	22.32	22.57	22.50		
3	QPSK	1	14	22.32	22.41	22.35		
3	QPSK	8	0	21.47	21.62	21.68		
3	QPSK	8	7	21.55	21.51	21.54	22.4	1
3	QPSK	8	7	21.44	21.64	21.48		
3	QPSK	15	0	21.57	21.57	21.50		
3	16QAM	1	0	21.73	21.83	21.72		
3	16QAM	1	8	21.85	22.02	21.88	22.4	1
3	16QAM	1	14	21.83	21.83	21.82		
3	16QAM	8	0	20.46	20.67	20.65		
3	16QAM	8	4	20.54	20.65	20.58		
3	16QAM	7	0	20.55	20.56	20.60	21.4	2
3	16QAM	15	0	20.48	20.59	20.63		
3	64QAM	1	0	20.69	20.84	20.74		
3	64QAM	8	0	20.64	20.77	20.80		
3	64QAM	1	14	20.65	20.67	20.59	20.4	3
3	64QAM	8	0	19.51	19.54	19.60		
3	64QAM	4	0	19.59	19.59	19.58		
3	64QAM	8	7	19.54	19.54	19.54		
3	64QAM	15	0	19.58	19.49	19.65	18.4	5
3	256QAM	1	0	17.53	17.63	17.63		
3	256QAM	1	8	17.4	17.59	17.59		
3	256QAM	1	14	17.47	17.59	17.37		
3	256QAM	8	0	17.50	17.64	17.50	18.4	5
3	256QAM	8	4	17.60	17.60	17.68		
3	256QAM	8	7	17.54	17.65	17.45		
3	256QAM	15	0	17.53	17.63	17.53		
Channel 131922								
Frequency (MHz)								
1.4	QPSK	1	0	22.56	22.60	22.50	23.4	0
1.4	QPSK	1	3	22.52	22.59	22.58		
1.4	QPSK	1	5	22.56	22.61	22.56		
1.4	QPSK	3	0	22.61	22.52	22.59		
1.4	QPSK	3	3	22.61	22.52	22.56	22.4	1
1.4	QPSK	3	3	22.62	22.60	22.54		
1.4	16QAM	1	0	21.68	21.68	21.64		
1.4	16QAM	1	0	22.16	22.16	22.16		
1.4	16QAM	1	3	22.04	22.16	22.16	22.4	1
1.4	16QAM	1	3	22.01	22.21	22.05		
1.4	16QAM	1	5	21.94	22.05	22.09		
1.4	16QAM	3	0	21.81	22.00	21.87		
1.4	16QAM	3	1	21.81	21.97	21.91	21.4	2
1.4	16QAM	3	3	21.70	21.95	21.77		
1.4	16QAM	6	0	20.72	20.85	20.76		
1.4	64QAM	1	0	20.80	20.89	20.83		
1.4	64QAM	3	1	20.78	20.80	20.87	21.4	2
1.4	64QAM	3	1	20.77	20.82	20.82		
1.4	64QAM	3	3	20.81	20.44	20.80		
1.4	64QAM	6	0	19.64	19.85	19.86		
1.4	256QAM	1	0	17.54	17.65	17.59	18.4	5
1.4	256QAM	1	3	17.38	17.59	17.58		
1.4	256QAM	1	5	17.49	17.59	17.39		
1.4	256QAM	3	0	17.51	17.62	17.46		
1.4	256QAM	3	1	17.60	17.68	17.72	18.4	5
1.4	256QAM	3	3	17.52	17.67	17.51		
1.4	256QAM	6	0	17.50	17.61	17.51		
1.4	256QAM	6	0	17.50	17.61	17.51		

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							Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
20	QPSK	1	0	22.8	22.85	22.75	23.4	0
20	QPSK	1	49	22.75	22.89	22.77		
20	QPSK	1	99	22.77	22.85	22.84		
20	QPSK	50	0	21.89	21.91	21.81		
20	QPSK	50	24	21.84	21.78	21.72	22.4	1
20	QPSK	50	50	21.79	21.82	21.79		
20	QPSK	100	0	21.81	21.89	21.73		
20	16QAM	1	0	22.12	21.9	21.89		
20	16QAM	1	49	22.25	22.35	22.28	22.4	1
20	16QAM	1	99	21.99	21.89	21.87		
20	16QAM	50	0	20.9	20.74	20.68		
20	16QAM	50	24	20.93	20.78	20.73		
20	16QAM	50	50	20.88	20.85	20.8	21.4	2
20	16QAM	100	0	20.9	20.78	20.76		
20	64QAM	1	0	20.97	20.78	20.87		
20	64QAM	1	49	20.91	20.94	20.9		
20	64QAM	1	99	20.91	20.91	20.79	21.4	2
20	64QAM	50	0	19.78	19.72	19.69		
20	64QAM	50	24	19.89	19.76	19.76		
20	64QAM	50	50	19.89	19.85	19.8		
20	64QAM	100	0	19.92	19.76	19.71	20.4	3
20	256QAM	1	0	17.43	17.45	17.43		
20	256QAM	1	49	17.45	17.48	17.47		
20	256QAM	1	99	17.36	17.52	17.40		
20	256QAM	50	0	17.35	17.42	17.28	18.4	5
20	256QAM	50	24	17.42	17.48	17.38		
20	256QAM	50	50	17.43	17.50	17.49		
20	256QAM	100	0	17.35	17.43	17.27		
Channel							Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
15	QPSK	1	0	22.675	22.95	22.92.5	23.4	0
15	QPSK	1	37	22.72	22.58	22.54		
15	QPSK	1	74	22.68	22.58	22.56		
15	QPSK	36	0	21.79	21.68	21.61		
15	QPSK	36	20	21.90	21.76	21.68	22.4	1
15	QPSK	36	39	21.81	21.72	21.77		
15	QPSK	75	0	21.88	21.65	21.68		
15	16QAM	1	0	22.00	21.87	21.86		
15	16QAM	1	37	22.22	22.26	22.19	22.4	1
15	16QAM	1	74	21.98	21.78	21.71		
15	16QAM	36	0	20.70	20.72	20.65		
15	16QAM	36	20	20.88	20.71	20.64		
15	16QAM	36	39	20.81	20.78	20.71	21.4	2
15	16QAM	75	0	20.80	20.64	20.64		
15	64QAM	1	0	20.93	20.70	20.82		
15	64QAM	1	37	20.84	20.83	20.78		
15	64QAM	1	74	20.88	20.86	20.75	21.4	2
15	64QAM	36	0	19.69	19.66	19.62		
15	64QAM	36	20	19.81	19.67	19.73		
15	64QAM	36	39	19.84	19.84	19.70		
15	64QAM	75	0	19.88	19.75	19.63	20.4	3
15	256QAM	1	0	17.42	17.41	17.38		
15	256QAM	1	37	17.41	17.38	17.45		
15	256QAM	1	74	17.29	17.47	17.31		
15	256QAM	36	0	17.27	17.38	17.24	18.4	5
15	256QAM	36	20	17.34	17.40	17.27		
15	256QAM	36	39	17.34	17.43	17.41		
15	256QAM	75	0	17.24	17.40	17.23		
Channel							Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
10	QPSK	1	0	22.6	22.6	22.59	23.4	0
10	QPSK	1	25	22.75	22.65	22.59		
10	QPSK	1	49	22.68	22.61	22.57		
10	QPSK	25	0	21.79	21.72	21.54		
10	QPSK	25	12	21.87	21.74	21.71	22.4	1
10	QPSK	25	25	21.88	21.73	21.73		
10	QPSK	50	0	21.79	21.61	21.60		
10	16QAM	1	0	22.07	21.89	21.79		
10	16QAM	1	25	22.22	22.28	22.18	22.4	1
10	16QAM	1	49	21.93	21.92	21.80		
10	16QAM	25	0	20.78	20.71	20.61		
10	16QAM	25	12	20.87	20.77	20.82		
10	16QAM	25	25	20.77	20.79	20.89	21.4	2
10	16QAM	50	0	20.83	20.71	20.61		
10	64QAM	1	0	20.88	20.71	20.80		
10	64QAM	1	25	20.86	20.85	20.81		
10	64QAM	1	49	20.79	20.90	20.70	21.4	2
10	64QAM	25	0	19.71	19.60	19.57		
10	64QAM	25	12	19.84	19.75	19.88		
10	64QAM	25	25	19.82	19.82	19.74		
10	64QAM	50	0	19.85	19.67	19.70	20.4	3
10	256QAM	1	0	17.37	17.37	17.41		
10	256QAM	1	25	17.43	17.42	17.40		
10	256QAM	1	49	17.24	17.45	17.38		
10	256QAM	25	0	17.34	17.32	17.27	18.4	5
10	256QAM	25	12	17.31	17.39	17.33		
10	256QAM	25	25	17.31	17.43	17.40		
10	256QAM	50	0	17.34	17.40	17.20		
Channel							Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
5	QPSK	1	0	22.67	22.67	22.61	23.4	0
5	QPSK	1	12	22.69	22.69	22.60		
5	QPSK	1	24	22.71	22.57	22.61		
5	QPSK	12	0	21.71	21.70	21.63		
5	QPSK	12	7	21.80	21.72	21.71	22.4	1
5	QPSK	12	13	21.83	21.76	21.67		
5	QPSK	25	0	21.81	21.63	21.67		
5	16QAM	1	0	22.02	21.80	21.88		
5	16QAM	1	12	22.24	22.21	21.96	22.4	1
5	16QAM	1	24	21.89	21.81	21.92		
5	16QAM	12	0	20.77	20.63	20.61		
5	16QAM	12	7	20.92	20.69	20.68		
5	16QAM	12	13	20.76	20.77	20.70	21.4	2
5	16QAM	25	0	20.84	20.70	20.66		
5	64QAM	1	0	20.92	20.67	20.84		
5	64QAM	1	12	20.82	20.91	20.82		
5	64QAM	1	24	20.83	20.82	20.69	21.4	2
5	64QAM	12	0	19.78	19.61	19.82		
5	64QAM	12	7	19.79	19.74	19.73		
5	64QAM	12	13	19.80	19.81	19.73		
5	64QAM	25	0	19.82	19.84	19.68	20.4	3
5	256QAM	1	0	17.34	17.36	17.42		
5	256QAM	1	12	17.35	17.37	17.40		
5	256QAM	1	24	17.30	17.40	17.29		
5	256QAM	12	0	17.34	17.32	17.18	18.4	5
5	256QAM	12	7	17.35	17.44	17.28		
5	256QAM	12	13	17.36	17.40	17.45		
5	256QAM	25	0	17.33	17.33	17.19		

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									Tune-up limit (dbm)	MPR (db)
Frequency (MHz)										
20	QPSK	1	0	22.85	22.89	22.9	22.85	22.86	23.4	0
20	QPSK	1	49	22.85	22.85	22.8	22.44	22.37		
20	QPSK	1	99	22.51	22.69	22.62	22.45	22.46		
20	QPSK	50	0	21.54	21.58	21.69	21.35	21.25		
20	QPSK	50	24	21.61	21.48	21.49	21.48	21.27	22.4	1
20	QPSK	50	50	21.56	21.48	21.47	21.45	21.32		
20	QPSK	100	0	21.59	21.53	21.68	21.45	21.26		
20	16QAM	1	0	21.57	21.59	21.56	21.51	21.34		
20	16QAM	1	49	21.64	21.5	21.44	21.71	21.36	22.4	1
20	16QAM	1	99	21.46	21.75	21.76	21.47	21.49		
20	16QAM	50	0	20.64	20.68	20.54	20.49	20.33		
20	16QAM	50	24	20.68	20.81	20.54	20.59	20.33		
20	16QAM	50	50	20.94	20.77	20.64	20.53	20.41	21.4	2
20	16QAM	100	0	20.69	20.75	20.53	20.49	20.3		
20	64QAM	1	0	20.46	20.53	20.53	20.31	20.21		
20	64QAM	1	49	20.8	20.6	20.56	20.55	20.31	21.4	2
20	64QAM	1	99	20.42	20.7	20.68	20.58	20.28		
20	64QAM	50	0	19.6	19.63	19.52	19.44	19.31		
20	64QAM	50	24	19.69	19.79	19.55	19.54	19.38		
20	64QAM	50	50	19.75	19.61	19.52	19.49	19.33	20.4	3
20	64QAM	100	0	19.69	19.73	19.53	19.52	19.33		
20	256QAM	1	0	17.70	17.71	17.69	17.68	17.63		
20	256QAM	1	49	17.42	17.42	17.42	17.56	17.43		
20	256QAM	1	99	17.55	17.70	17.58	17.59	17.55	18.4	5
20	256QAM	50	0	17.61	17.74	17.61	17.53	17.52		
20	256QAM	50	24	17.27	17.54	17.4	17.44	17.65		
20	256QAM	50	50	17.39	17.32	17.38	17.24	17.24		
20	256QAM	100	0	17.34	17.42	17.45	17.25	17.17	18.4	5
20	256QAM	100	24	17.17	17.31	17.33	17.09	17.13		
Channel									Tune-up limit (dbm)	MPR (db)
Frequency (MHz)										
15	QPSK	1	0	22.56	22.58	22.52	22.60	22.51	23.40	0
15	QPSK	1	37	22.51	22.62	22.31	22.39	22.25		
15	QPSK	1	74	22.51	22.68	22.50	22.34	22.30		
15	QPSK	36	0	21.44	21.52	21.51	21.30	21.28		
15	QPSK	36	20	21.41	21.54	21.41	21.44	21.28	22.4	1
15	QPSK	36	36	21.51	21.45	21.53	21.41	21.20		
15	QPSK	75	0	21.60	21.48	21.60	21.43	21.42		
15	QPSK	75	20	21.39	21.54	21.41	21.44	21.25		
15	16QAM	1	37	21.52	21.31	21.26	21.55	21.20	22.4	1
15	16QAM	1	74	21.35	21.56	21.60	21.28	21.33		
15	16QAM	36	0	20.46	20.57	20.36	20.45	20.23		
15	16QAM	36	36	20.58	20.68	20.44	20.48	20.28		
15	16QAM	75	0	20.41	20.60	20.54	20.41	20.40	21.4	2
15	16QAM	75	20	20.65	20.56	20.38	20.52	20.18		
15	64QAM	1	37	20.54	20.34	20.48	20.13	20.20		
15	64QAM	1	74	20.42	20.54	20.38	20.42	20.18		
15	64QAM	36	0	19.25	19.28	19.46	19.44	19.24	20.4	3
15	64QAM	36	36	19.54	19.61	19.46	19.33	19.29		
15	64QAM	75	0	19.24	19.60	19.47	19.47	19.18		
15	64QAM	75	36	19.59	19.59	19.47	19.57	19.40		
15	256QAM	1	74	17.61	17.39	17.60	17.59	17.73	18.4	5
15	256QAM	1	37	17.43	17.26	17.26	17.51	17.63		
15	256QAM	1	74	17.46	17.65	17.46	17.34	17.67		
15	256QAM	36	0	17.42	17.38	17.47	17.36	17.57		
15	256QAM	36	36	17.25	17.25	17.28	17.31	17.37	18.4	5
15	256QAM	36	75	17.27	17.15	17.23	17.13	17.18		
15	256QAM	75	0	17.15	17.35	17.29	17.15	17.35		
15	256QAM	75	36	17.18	17.28	17.29	17.18	17.35		
Channel									Tune-up limit (dbm)	MPR (db)
Frequency (MHz)										
10	QPSK	1	0	22.56	22.58	22.52	22.63	22.55	23.40	0
10	QPSK	1	49	22.52	22.58	22.47	22.43	22.23		
10	QPSK	1	99	22.39	22.57	22.44	22.44	22.30		
10	QPSK	50	0	21.62	21.45	21.60	21.31	21.14		
10	QPSK	50	12	21.59	21.52	21.39	21.53	21.22	22.4	1
10	QPSK	25	0	21.53	21.44	21.49	21.49	21.34		
10	QPSK	25	12	21.64	21.57	21.64	21.42	21.32		
10	16QAM	1	0	21.52	21.52	21.43	21.38	21.27		
10	16QAM	1	25	21.60	21.38	21.33	21.55	21.28	22.4	1
10	16QAM	1	50	21.56	21.57	21.57	21.44	21.45		
10	16QAM	25	0	20.59	20.64	20.40	20.41	20.22		
10	16QAM	25	12	20.59	20.62	20.45	20.59	20.21		
10	16QAM	25	12	20.68	20.68	20.56	20.47	20.37	21.4	2
10	16QAM	50	0	20.33	20.56	20.40	20.43	20.22		
10	16QAM	50	1	20.35	20.42	20.42	20.13	20.21		
10	64QAM	1	0	20.49	20.52	20.40	20.37	20.25		
10	64QAM	1	49	20.41	20.54	20.50	20.49	20.12	20.4	3
10	64QAM	25	0	19.54	19.55	19.46	19.29	19.30		
10	64QAM	25	12	19.50	19.65	19.36	19.45	19.25		
10	64QAM	25	25	19.66	19.68	19.60	19.42	19.30		
10	64QAM	50	0	19.56	19.54	19.40	19.33	19.14	18.4	5
10	256QAM	1	17.61	17.43	17.60	17.60	17.66	17.71		
10	256QAM	1	49	17.51	17.35	17.56	17.43	17.27		
10	256QAM	1	99	17.43	17.51	17.52	17.54	17.45		
10	256QAM	12	0	17.47	17.37	17.47	17.47	17.43	18.4	5
10	256QAM	12	13	17.31	17.16	17.45	17.27	17.43		
10	256QAM	25	0	17.39	17.30	17.32	17.21	17.20		
10	256QAM	50	0	17.21	17.27	17.25	17.10	17.16		
Channel									Tune-up limit (dbm)	MPR (db)
Frequency (MHz)										
5	QPSK	1	0	22.675	22.68	22.620	22.695	22.675	23.40	0
5	QPSK	1	24	22.30	22.54	22.37	22.54	22.56		
5	QPSK	1	48	22.32	22.58	22.30	22.30	22.22		
5	QPSK	12	0	21.51	21.49	21.69	21.69	21.43		
5	QPSK	12	7	21.66	21.49	21.49	21.47	21.25	22.4	1
5	QPSK	12	13	21.45	21.39	21.45	21.41	21.36		
5	QPSK	25	0	21.55	21.56	21.62	21.42	21.32		
5	16QAM	1	0	21.53	21.52	21.40	21.44	21.22		
5	16QAM	1	12	21.57	21.32	21.27	21.58	21.36	22.4	1
5	16QAM	24	0	21.68	21.68	21.60	21.46	21.33		
5	16QAM	12	7	20.55	20.63	20.38	20.46	20.28		
5	16QAM	12	7	20.48	20.70	20.41	20.53	20.26		
5	16QAM	25	13	20.54	20.74	20.54	20.49	20.38	21.4	2
5	16QAM	25	0	20.61	20.59	20.48	20.46	20.18		
5	16QAM	50	0	20.40	20.50	20.47	20.26	20.20		
5	64QAM	1	0	20.58	20.53	20.54	20.38	20.35		
5	64QAM	1	24	20.35	20.60	20.59	20.58	20.17	20.4	3
5	64QAM	12	0	19.49	19.49	19.41	19.37	19.30		
5	64QAM	12	7	19.56	19.68	19.39	19.39	19.36		
5	64QAM	12	13	19.53	19.59	19.43	19.36	19.29		
5	256QAM	1	17.61	17.48	17.63	17.63	17.68	17.71	18.4	5
5	256QAM	1	49	17.54	17.31	17.68	17.55	17.40		
5	256QAM	1	99	17.52	17.36	17.56	17.51	17.42		
5	256QAM	12	0	17.45	17.50	17.45	17.45	17.49		
5	256QAM	12	7	17.26	17.26	17.40	17.43	17.54	18.4	5
5	256QAM	12	13	17.23	17.23	17.28	17.24	17.54		
5	256QAM	25	0	17.33	17.42	17.44	17.21	17.24		
5	256QAM	25	13	17.33	17.42	17.44	17.21	17.24		

Band 41_Ant 6

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Middle Ch. [Freq]	Power Low Middle Ch. [Freq]	Power Middle Ch. [Freq]	Power High Middle Ch. [Freq]	Power High Middle Ch. [Freq]	Time-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
20	QPSK	1	0	2506	2548.5	2593	2636.5	2680		
20	QPSK	1	49	22.04	21.95	22.09	21.93	22.00		
20	QPSK	1	99	21.88	21.81	21.97	21.83	21.91	22.8	0
20	QPSK	1	99	21.98	22.05	22.06	21.96	21.98		
20	QPSK	50	0	21.92	21.88	22.03	21.89	21.88		
20	QPSK	50	24	21.90	21.86	22.01	21.80	21.88		
20	QPSK	50	50	21.91	21.89	22.00	21.95	22.01		
20	QPSK	100	0	21.92	21.92	21.99	21.91	21.91	22.8	0
20	16QAM	1	0	22.00	22.06	22.08	21.93	21.93		
20	16QAM	1	49	21.86	21.95	21.98	21.85	21.90		
20	16QAM	1	99	21.92	21.92	22.04	21.88	21.98	22.8	0
20	16QAM	50	0	21.25	21.49	21.35	21.39	21.32		
20	16QAM	50	24	21.54	21.44	21.48	21.44	21.19	22.3	0.5
20	16QAM	50	50	21.40	21.43	21.51	21.19	21.52		
20	16QAM	100	0	21.25	21.49	21.35	21.39	21.32		
20	64QAM	1	0	21.97	21.61	21.55	21.53	21.59		
20	64QAM	1	49	21.43	21.75	21.52	21.69	21.41	22.3	0.5
20	64QAM	1	99	21.42	21.75	21.51	21.39	21.49		
20	64QAM	50	0	20.38	20.29	20.29	20.30	20.25		
20	64QAM	50	24	20.37	20.47	20.54	20.46	20.43	21.3	1.5
20	64QAM	50	50	20.35	20.32	20.34	20.13	20.28		
20	64QAM	100	0	20.27	20.47	20.42	20.24	20.37		
20	256QAM	1	0	18.20	18.40	18.26	18.30	18.29		
20	256QAM	1	49	18.50	18.31	18.50	18.45	18.37	19.3	3.5
20	256QAM	1	99	18.33	18.33	18.49	18.34	18.40		
20	256QAM	50	0	18.26	18.29	18.47	18.18	18.41		
20	256QAM	50	24	18.26	18.37	18.35	18.50	18.41	19.3	3.5
20	256QAM	50	50	18.41	18.36	18.48	18.24	18.22		
20	256QAM	100	0	18.23	18.33	18.34	18.27	18.31		
Channel										
Frequency (MHz)				39725	40173	40620	41068	41515	Time-up limit (dBm)	MPR (dB)
15	QPSK	1	0	2203.5	2245.3	2293	2337.8	2382.5		
15	QPSK	1	22	22.01	21.98	22.00	22.02	22.02		
15	QPSK	1	37	21.89	21.82	21.93	21.93	21.86	22.80	0
15	QPSK	1	74	21.93	22.04	22.03	22.04	22.02		
15	QPSK	1	74	21.98	21.86	21.98	21.98	21.91		
15	QPSK	36	20	21.95	21.86	21.98	21.85	21.98	22.8	0
15	QPSK	36	39	21.92	22.00	21.91	21.97	21.94		
15	QPSK	36	75	21.92	22.02	21.92	21.95	21.91		
15	16QAM	1	0	21.98	22.04	22.05	22.00	21.94		
15	16QAM	1	37	21.89	21.83	21.86	21.91	21.91	22.8	0
15	16QAM	1	74	21.90	21.98	21.92	22.00	21.93		
15	16QAM	36	0	21.16	21.14	21.16	21.10	21.22		
15	16QAM	36	20	21.36	21.38	21.30	21.27	21.15	22.3	0.5
15	16QAM	36	20	21.22	21.27	21.33	21.21	21.42		
15	16QAM	75	0	21.15	21.48	21.25	21.38	21.14		
15	64QAM	1	0	21.29	21.44	21.47	21.49	21.50		
15	64QAM	1	37	21.36	21.65	21.45	21.53	21.23	22.3	0.5
15	64QAM	1	74	21.33	21.60	21.42	21.21	21.46		
15	64QAM	36	0	20.20	20.16	20.11	20.19	20.06		
15	64QAM	36	20	20.23	20.23	20.20	20.18	20.35	21.3	1.5
15	64QAM	36	39	20.26	20.26	20.25	20.02	20.27		
15	64QAM	75	0	20.11	20.31	20.26	20.12	20.30		
15	256QAM	1	0	18.19	18.30	18.25	18.11	18.23		
15	256QAM	1	37	18.40	18.22	18.40	18.43	18.28	19.3	3.5
15	256QAM	1	74	18.26	18.25	18.42	18.18	18.40		
15	256QAM	50	0	18.35	18.35	18.17	18.40	18.25		
15	256QAM	36	20	18.22	18.18	18.32	18.40	18.22	19.3	3.5
15	256QAM	36	39	18.37	18.33	18.44	18.17	18.14		
15	256QAM	75	0	18.11	18.35	18.22	18.21	18.27		
Channel										
Frequency (MHz)				39700	40160	40620	41080	41540	Time-up limit (dBm)	MPR (dB)
10	QPSK	1	0	21.97	22.08	21.94	22.07	21.93		
10	QPSK	1	25	21.87	21.84	21.84	21.93	21.85	22.80	0
10	QPSK	1	49	22.00	22.01	21.98	21.96	21.98		
10	QPSK	25	0	21.91	21.80	21.97	21.88	21.96		
10	QPSK	25	12	21.91	21.90	21.85	22.00	21.96	22.8	0
10	QPSK	25	12	21.98	21.85	22.02	21.90	22.00		
10	QPSK	50	0	21.91	21.97	21.99	22.03	21.99		
10	16QAM	1	0	21.94	21.98	21.92	21.94	21.97		
10	16QAM	1	25	21.89	21.86	21.96	21.86	21.96	22.8	0
10	16QAM	1	49	21.95	22.01	21.97	21.99	21.90		
10	16QAM	25	0	21.23	21.16	21.23	21.17	21.29		
10	16QAM	25	12	21.45	21.30	21.38	21.30	21.17	22.3	0.5
10	16QAM	25	25	21.30	21.32	21.41	21.01	21.47		
10	16QAM	50	0	21.25	21.49	21.35	21.20	21.17		
10	64QAM	1	0	21.36	21.47	21.44	21.51	21.42		
10	64QAM	1	25	21.26	21.69	21.35	21.60	21.39	22.3	0.5
10	64QAM	1	49	21.38	21.63	21.45	21.25	21.35		
10	64QAM	25	0	20.20	20.17	20.11	20.12	20.16		
10	64QAM	25	12	20.29	20.34	20.46	20.41	20.33	21.3	1.5
10	64QAM	25	25	20.21	20.15	20.20	20.10	20.09		
10	64QAM	50	0	20.13	20.43	20.28	20.23	20.22		
10	256QAM	1	0	18.01	18.35	18.07	18.14	18.19		
10	256QAM	1	25	18.34	18.25	18.34	18.39	18.20	19.3	3.5
10	256QAM	1	49	18.24	18.31	18.40	18.16	18.24		
10	256QAM	25	0	18.35	18.08	18.40	18.16	18.25		
10	256QAM	25	12	18.08	18.29	18.18	18.41	18.22	19.3	3.5
10	256QAM	25	25	18.36	18.33	18.45	18.08	18.03		
10	256QAM	50	0	18.20	18.24	18.31	18.22	18.18		
Channel										
Frequency (MHz)				39675	40148	40620	41093	41565	Time-up limit (dBm)	MPR (dB)
5	QPSK	1	0	24.69	24.70	24.72	24.51	24.40		
5	QPSK	1	12	24.68	24.71	24.59	24.54	24.43	25.40	0
5	QPSK	1	24	24.66	24.76	24.67	24.67	24.61		
5	QPSK	12	0	23.79	23.82	23.61	23.61	23.47		
5	QPSK	12	7	23.83	23.85	23.69	23.62	23.44	24.4	1
5	QPSK	12	7	23.76	23.80	23.78	23.60	23.51		
5	QPSK	25	0	22.94	23.01	22.90	22.83	22.66		
5	16QAM	1	0	23.98	23.95	23.92	23.82	23.69		
5	16QAM	1	12	23.98	24.01	23.98	23.90	23.82	24.4	1
5	16QAM	1	24	23.88	24.08	23.98	24.01	23.95		
5	16QAM	12	0	22.73	22.81	22.76	22.60	22.47		
5	16QAM	12	7	22.87	22.84	22.66	22.70	22.48	23.4	2
5	16QAM	12	13	22.76	22.86	22.86	22.67	22.57		
5	64QAM	1	0	22.88	22.92	22.75	22.72	22.54		
5	64QAM	1	12	22.95	22.89	22.79	22.88	22.63	23.4	2
5	64QAM	1	24	22.80	22.99	23.01	22.77	22.74		
5	64QAM	12	7	21.76	21.85	21.71	21.62	21.44		
5	64QAM	12	13	21.80	21.91	21.80	21.60	21.55	22.4	3
5	64QAM	25	0	21.83	21.80	21.62	21.64	21.44		
5	256QAM	1	0	19.64	19.52	19.63	19.62	19.58		
5	256QAM	1	24	19.50	19.48	19.60	19.47	19.44	20.4	5
5	256QAM	12	0	19.35	19.28	19.49	19.48	19.32		
5	256QAM	12	13	19.21	19.20	19.28	19.23	19.21	20.4	5
5	256QAM	25	0	19.22	19.32	19.38	19.27	19.29		

Band 41_Ant 4 (HPUE)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dbm)	MPR (db)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
20	QPSK	1	0	2506	2548.5	2593	2636.5	2680		
20	QPSK	1	49	24.79	24.86	24.88	24.86	24.85	25.4	0
20	QPSK	1	99	24.63	24.8	24.74	24.64	24.62		
20	QPSK	50	0	23.85	23.91	23.96	23.71	23.6		
20	QPSK	50	24	23.94	23.88	23.95	23.68	23.52	24.4	1
20	QPSK	50	50	23.81	23.87	23.89	23.59	23.58		
20	QPSK	100	0	23.05	23.08	23.1	22.89	22.7		
20	16QAM	1	0	24.08	24.11	24.05	23.91	23.79	24.4	1
20	16QAM	1	49	24.09	24.11	24.05	23.95	23.88		
20	16QAM	1	99	23.95	24.24	24.05	24.07	23.97		
20	16QAM	50	0	22.81	22.84	22.77	22.94	22.48		
20	16QAM	50	24	22.73	22.96	22.77	22.73	22.51	23.4	2
20	16QAM	50	50	22.82	22.88	22.88	22.73	22.62		
20	16QAM	100	0	22.05	22.11	22.13	22.19	21.98		
20	64QAM	1	0	22.86	22.95	22.86	22.77	22.72		
20	64QAM	1	49	23.01	23.1	22.82	22.92	22.69	23.4	2
20	64QAM	1	99	22.83	23.02	23.02	22.89	22.75		
20	64QAM	50	0	21.79	21.82	21.79	21.64	21.49		
20	64QAM	50	24	21.87	21.95	21.77	21.74	21.5	22.4	3
20	64QAM	50	50	21.81	21.97	21.84	21.72	21.58		
20	64QAM	100	0	21.71	21.81	21.74	21.64	21.51		
20	256QAM	1	0	19.65	19.53	19.66	19.66	19.63		
20	256QAM	1	49	19.45	19.45	19.66	19.58	19.45	20.4	5
20	256QAM	1	99	19.53	19.55	19.66	19.57	19.45		
20	256QAM	50	0	19.47	19.39	19.57	19.55	19.40		
20	256QAM	50	24	19.39	19.27	19.40	19.37	19.40	20.4	5
20	256QAM	50	50	19.26	19.31	19.42	19.24	19.27		
20	256QAM	100	0	18.32	18.33	18.45	18.29	18.34		
Channel										
Frequency (MHz)				40185	40620	41055	41490	41925	Turn-up limit (dbm)	MPR (db)
15	QPSK	1	0	2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	24.70	24.76	24.63	24.56	24.41	25.4	0
15	QPSK	1	49	24.79	24.69	24.69	24.59	24.43		
15	QPSK	1	74	24.57	24.84	24.67	24.59	24.43		
15	QPSK	36	0	23.72	23.78	23.71	23.60	23.47		
15	QPSK	36	30	23.87	23.87	23.67	23.61	23.46	24.4	1
15	QPSK	36	39	23.75	23.95	23.80	23.69	23.46		
15	QPSK	75	0	22.97	23.10	22.82	22.82	22.62		
15	16QAM	1	0	23.02	23.03	23.03	23.01	23.78	24.4	1
15	16QAM	1	37	24.00	24.16	24.02	23.92	23.76		
15	16QAM	1	74	23.94	24.14	24.02	23.96	23.85		
15	16QAM	36	36	22.75	22.73	22.67	22.64	22.43	23.4	2
15	16QAM	36	20	22.84	22.87	22.67	22.81	22.49		
15	16QAM	36	39	22.76	22.92	22.85	22.70	22.59		
15	16QAM	75	0	22.08	22.08	22.02	21.88	21.51		
15	64QAM	1	0	22.96	22.90	22.70	22.68	22.51		
15	64QAM	1	37	22.97	23.05	22.80	22.81	22.65	23.4	2
15	64QAM	1	74	22.75	22.96	22.94	22.77	22.63		
15	64QAM	36	0	21.73	21.70	21.72	21.58	21.39		
15	64QAM	36	20	21.83	21.80	21.68	21.65	21.39	22.4	3
15	64QAM	36	39	21.69	21.88	21.63	21.63	21.39		
15	64QAM	75	0	21.82	21.79	21.65	21.63	21.41		
15	256QAM	1	0	19.53	19.50	19.62	19.58	19.57		
15	256QAM	1	37	19.34	19.36	19.62	19.55	19.48	20.4	5
15	256QAM	1	74	19.52	19.52	19.54	19.48	19.41		
15	256QAM	36	0	18.44	18.27	18.47	18.32	18.37		
15	256QAM	36	30	19.36	19.21	19.33	19.33	19.32	20.4	5
15	256QAM	36	39	19.19	19.22	19.32	19.18	19.15		
15	256QAM	75	0	19.22	19.21	19.39	19.19	19.24		
Channel										
Frequency (MHz)				42501	2547	2593	2639	2685	Turn-up limit (dbm)	MPR (db)
10	QPSK	1	0	24.69	24.70	24.72	24.51	24.40	25.4	0
10	QPSK	25	0	24.69	24.71	24.69	24.59	24.43		
10	QPSK	1	49	24.56	24.78	24.67	24.61	24.49		
10	QPSK	25	0	23.80	23.84	23.67	23.61	23.45	24.4	1
10	QPSK	25	12	23.88	23.72	23.59	23.59	23.46		
10	QPSK	25	25	23.73	23.90	23.81	23.66	23.56		
10	QPSK	50	0	23.02	23.11	22.81	22.81	22.61		
10	16QAM	1	0	24.05	24.06	23.86	23.84	23.74	24.4	1
10	16QAM	1	25	24.05	24.03	24.05	23.89	23.80		
10	16QAM	1	49	23.87	24.09	24.01	24.02	23.91		
10	16QAM	25	0	22.72	22.76	22.69	22.73	22.38	23.4	2
10	16QAM	25	12	22.82	22.78	22.73	22.60	22.39		
10	16QAM	50	0	22.02	22.06	21.89	21.86	21.50		
10	64QAM	1	0	22.87	22.89	22.76	22.75	22.56	23.4	2
10	64QAM	1	49	22.99	22.97	22.87	22.77	22.61		
10	64QAM	1	99	22.80	22.93	22.75	22.73	22.71		
10	64QAM	25	0	21.75	21.79	21.70	21.53	21.41	22.4	3
10	64QAM	25	12	21.80	21.84	21.75	21.70	21.46		
10	64QAM	25	25	21.79	21.86	21.73	21.65	21.46		
10	64QAM	50	0	21.81	21.86	21.72	21.55	21.42		
10	256QAM	1	0	19.53	19.46	19.63	19.57	19.48	20.4	5
10	256QAM	1	25	19.35	19.38	19.55	19.52	19.43		
10	256QAM	1	49	19.45	19.52	19.51	19.48	19.42		
10	256QAM	25	0	19.46	19.36	19.53	19.39	19.38		
10	256QAM	25	12	19.33	19.15	19.32	19.25	19.39	20.4	5
10	256QAM	25	25	19.22	19.21	19.31	19.13	19.24		
10	256QAM	50	0	19.31	19.28	19.42	19.22	19.25		
Channel										
Frequency (MHz)				39675	40185	40620	41055	41565	Turn-up limit (dbm)	MPR (db)
5	QPSK	1	0	24.71	24.67	24.63	24.45	24.32	25.4	0
5	QPSK	1	12	24.58	24.79	24.66	24.53	24.38		
5	QPSK	1	24	24.66	24.76	24.62	24.60	24.51	25.4	0
5	QPSK	12	0	23.82	23.81	23.67	23.61	23.47		
5	QPSK	12	7	23.83	23.85	23.69	23.62	23.44	24.4	1
5	QPSK	12	13	23.76	23.80	23.78	23.60	23.51		
5	QPSK	25	0	23.04	23.11	22.81	22.81	22.68		
5	16QAM	1	0	23.98	24.05	23.92	23.82	23.69	24.4	1
5	16QAM	1	12	23.98	24.01	23.92	23.90	23.82		
5	16QAM	1	24	23.88	24.08	23.86	24.01	23.95		
5	16QAM	12	7	22.77	22.81	22.76	22.60	22.47	23.4	2
5	16QAM	12	7	22.82	22.86	22.66	22.70	22.49		
5	16QAM	25	0	21.88	22.02	21.84	21.87	21.59		
5	64QAM	1	0	22.83	22.92	22.75	22.72	22.54	23.4	2
5	64QAM	1	12	22.95	22.99	22.88	22.79	22.63		
5	64QAM	1	24	22.80	22.95	23.01	22.77	22.74		
5	64QAM	12	0	21.70	21.70	21.70	21.58	21.43	22.4	3
5	64QAM	12	7	21.76	21.85	21.71	21.62	21.44		
5	64QAM	12	13	21.83	21.80	21.80	21.60	21.55		
5	64QAM	25	0	21.81	21.81	21.62	21.64	21.44		
5	256QAM	1	0	19.64	19.52	19.63	19.65	19.58	20.4	5
5	256QAM	1	12	19.33	19.44	19.53	19.54	19.34		
5	256QAM	1	24	19.30	19.48	19.60	19.47	19.44		
5	256QAM	12	0	19.35	19.28	19.49	19.40	19.32	20.4	5
5	256QAM	12	7	19.31	19.20	19.28	19.26	19.31		
5	256QAM	12	13	19.23	19.24	19.38	19.13	19.17	20.4	5
5	256QAM	25	0	19.22	19.32	19.38	19.23	19.32		

Band 41_Ant 6 (HPUE)

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										
Frequency (MHz)				39790	40185	40620	41055	41490		
20	QPSK	1	0	2506	2549.5	2593	2636.5	2680	24.4	0
20	QPSK	1	48	23.40	23.54	23.70	23.46	23.46		
20	QPSK	1	96	23.41	23.49	23.45	23.49	23.43		
20	QPSK	50	0	23.40	23.38	23.50	23.47	23.42		
20	QPSK	50	24	23.21	23.31	23.36	23.23	23.21	24.4	0
20	QPSK	50	50	23.30	23.22	23.34	23.23	23.31		
20	QPSK	100	0	23.21	23.27	23.37	23.29	23.21		
20	16QAM	1	0	23.34	23.32	23.38	23.34	23.27		
20	16QAM	1	48	23.41	23.31	23.48	23.31	23.39	24.4	0
20	16QAM	1	96	23.24	23.34	23.25	23.27	23.23		
20	16QAM	50	0	23.32	23.32	23.41	23.31	23.38		
20	16QAM	50	24	23.30	23.27	23.38	23.28	23.28		
20	16QAM	50	50	23.21	23.16	23.26	23.21	23.16	24.3	0.1
20	16QAM	100	0	22.46	22.46	22.55	22.49	22.49		
20	64QAM	1	0	23.59	23.59	23.67	23.69	23.61		
20	64QAM	1	48	23.42	23.37	23.47	23.42	23.37		
20	64QAM	1	96	23.27	23.27	23.35	23.28	23.28	24.3	0.1
20	64QAM	50	0	22.27	22.28	22.35	22.25	22.25		
20	64QAM	50	24	22.35	22.32	22.41	22.36	22.33		
20	64QAM	50	50	22.28	22.27	22.34	22.24	22.28		
20	64QAM	100	0	22.30	22.35	22.40	22.33	22.32	23.3	1.1
20	256QAM	1	0	20.41	20.41	20.46	20.38	20.41		
20	256QAM	1	48	20.50	20.50	20.57	20.48	20.50		
20	256QAM	1	96	20.32	20.31	20.40	20.32	20.35		
20	256QAM	50	0	20.33	20.38	20.43	20.38	20.36	21.3	3.1
20	256QAM	50	24	20.37	20.35	20.42	20.37	20.32		
20	256QAM	50	50	20.24	20.24	20.33	20.24	20.23		
20	256QAM	100	0	20.25	20.28	20.34	20.24	20.28		
Channel										
Frequency (MHz)				39725	40173	40620	41055	41515	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	23.48	23.48	23.43	23.37	23.47	24.40	0
15	QPSK	1	37	23.37	23.38	23.38	23.34	23.34		
15	QPSK	1	74	23.22	23.20	23.29	23.20	23.24		
15	QPSK	36	0	23.31	23.37	23.27	23.33	23.38		
15	QPSK	36	20	23.35	23.28	23.33	23.25	23.35	24.4	0
15	QPSK	36	39	23.24	23.24	23.20	23.33	23.27		
15	QPSK	36	58	23.24	23.36	23.35	23.30	23.25		
15	16QAM	1	0	23.20	23.31	23.30	23.24	23.33		
15	16QAM	1	37	23.44	23.45	23.31	23.31	23.40	24.4	0
15	16QAM	1	74	23.30	23.20	23.32	23.29	23.28		
15	16QAM	36	0	23.25	23.22	23.34	23.19	23.28		
15	16QAM	36	20	23.20	23.18	23.26	23.18	23.14		
15	16QAM	36	39	23.05	23.01	23.10	23.12	23.09	24.3	0.1
15	16QAM	75	0	22.45	22.35	22.54	22.39	22.45		
15	64QAM	1	0	23.56	23.45	23.58	23.56	23.60		
15	64QAM	1	37	23.23	23.23	23.23	23.26	23.21		
15	64QAM	1	74	23.19	23.12	23.27	23.14	23.23	24.3	0.1
15	64QAM	36	0	22.25	22.16	22.33	22.13	22.21		
15	64QAM	36	20	22.35	22.31	22.41	22.28	22.27		
15	64QAM	36	39	22.09	22.13	22.15	22.24	22.09		
15	64QAM	75	0	22.13	22.25	22.23	22.15	22.22	23.3	1.1
15	256QAM	1	0	20.38	20.41	20.43	20.28	20.32		
15	256QAM	1	48	20.44	20.36	20.51	20.45	20.38		
15	256QAM	1	74	20.28	20.25	20.36	20.30	20.27		
15	256QAM	50	0	20.31	20.28	20.41	20.29	20.20	21.3	3.1
15	256QAM	50	24	20.27	20.21	20.32	20.30	20.26		
15	256QAM	50	50	20.20	20.14	20.29	20.19	20.17		
15	256QAM	100	0	20.17	20.20	20.26	20.21	20.13		
Channel										
Frequency (MHz)				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	23.41	23.46	23.49	23.50	23.41	24.40	0
10	QPSK	1	25	23.34	23.42	23.32	23.40	23.42		
10	QPSK	1	49	23.24	23.24	23.24	23.21	23.25		
10	QPSK	25	0	23.35	23.32	23.35	23.38	23.38		
10	QPSK	25	12	23.24	23.34	23.31	23.34	23.24	24.4	0
10	QPSK	25	36	23.35	23.28	23.32	23.25	23.35		
10	QPSK	50	0	23.35	23.36	23.24	23.34	23.36		
10	16QAM	1	0	23.35	23.25	23.31	23.25	23.27		
10	16QAM	1	25	23.32	23.45	23.44	23.42	23.30	24.4	0
10	16QAM	1	49	23.32	23.34	23.26	23.26	23.26		
10	16QAM	25	0	23.17	23.13	23.26	23.29	23.33		
10	16QAM	25	12	23.29	23.17	23.35	23.13	23.19		
10	16QAM	25	25	23.13	22.98	23.18	23.12	22.98	24.3	0.1
10	16QAM	50	0	22.35	22.33	22.44	22.48	22.31		
10	64QAM	1	0	23.50	23.55	23.58	23.43	23.40		
10	64QAM	1	25	23.28	23.36	23.33	23.37	23.20		
10	64QAM	1	49	23.27	23.09	23.35	23.16	23.20	24.3	0.1
10	64QAM	25	0	22.08	22.07	22.16	22.08	22.11		
10	64QAM	25	12	22.20	22.16	22.28	22.27	22.23		
10	64QAM	25	25	22.13	22.27	22.19	22.23	22.13		
10	256QAM	1	0	20.28	20.23	20.32	20.22	20.36	21.3	3.1
10	256QAM	1	25	20.39	20.32	20.48	20.40	20.40		
10	256QAM	1	49	20.25	20.31	20.33	20.20	20.21		
10	256QAM	25	0	20.24	20.31	20.34	20.30	20.22		
10	256QAM	25	12	20.28	20.27	20.33	20.20	20.16	21.3	3.1
10	256QAM	25	25	20.23	20.24	20.32	20.13	20.05		
10	256QAM	50	0	20.08	20.12	20.17	20.22	20.19		
Channel										
Frequency (MHz)				39675	40148	40620	41093	41553	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	23.40	23.36	23.38	23.39	23.45	24.40	0
5	QPSK	1	12	23.29	23.27	23.28	23.27	23.31		
5	QPSK	1	24	23.25	23.32	23.19	23.27	23.31		
5	QPSK	12	0	23.27	23.32	23.32	23.33	23.35		
5	QPSK	12	7	23.33	23.22	23.31	23.23	23.20	24.4	0
5	QPSK	12	13	23.23	23.24	23.19	23.22	23.30		
5	QPSK	25	0	23.25	23.26	23.29	23.22	23.33		
5	16QAM	1	0	23.31	23.30	23.33	23.25	23.30		
5	16QAM	1	12	23.30	23.32	23.38	23.38	23.38	24.4	0
5	16QAM	1	24	23.29	23.30	23.34	23.31	23.28		
5	16QAM	12	0	23.20	23.19	23.29	23.18	23.25		
5	16QAM	12	7	23.20	23.11	23.26	23.22	23.14		
5	16QAM	12	13	23.11	22.97	23.16	23.20	23.12	24.3	0.1
5	16QAM	25	0	22.39	22.42	22.48	22.31	22.38		
5	64QAM	1	0	23.55	23.49	23.50	23.51	23.51		
5	64QAM	1	12	23.26	23.26	23.31	23.42	23.22		
5	64QAM	1	24	23.16	23.10	23.24	23.25	23.15	23.3	1.1
5	64QAM	12	0	22.27	22.22	22.35	22.08	22.32		
5	64QAM	12	7	22.19	22.32	22.25	22.19	22.23		
5	64QAM	12	13	22.26	22.22	22.32	22.17	22.20		
5	256QAM	1	0	20.40	20.31	20.45	20.21	20.28	21.3	3.1
5	256QAM	1	12	20.31	20.37	20.38	20.20	20.31		
5	256QAM	1	24	20.27	20.14	20.35	20.20	20.18		
5	256QAM	12	0	20.20	20.37	20.30	20.25	20.21		
5	256QAM	12	7	20.24	20.19	20.29	20.20	20.25	21.3	3.1
5	256QAM	12	13	20.17	20.07	20.28	20.13	20.12		
5	256QAM	12	19	20.10	20.11	20.19	20.08	20.17		

Band 48_Ant 13

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Low Middle Ch. / Freq	Power High Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56190	56640	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3580	3609	3641	3690		
20	QPSK	1	0	19.71	19.65	19.56	19.60	20.8	4
20	QPSK	1	49	23.31	23.53	23.58	23.55	24.8	0
20	QPSK	1	99	19.73	19.83	19.58	19.87	20.8	4
20	QPSK	50	0	22.84	22.85	22.72	22.76	23.8	1
20	QPSK	50	24	22.80	22.88	22.78	22.70	23.8	1
20	QPSK	50	50	22.81	22.88	22.86	22.83	23.8	1
20	QPSK	100	0	19.60	19.79	19.84	19.75	20.8	4
20	16QAM	1	0	18.84	18.54	18.50	18.50	19.8	5
20	16QAM	1	49	22.86	22.47	22.57	22.54	23.8	1
20	16QAM	1	99	18.86	18.57	18.61	18.59	19.8	5
20	16QAM	50	0	21.85	21.77	21.71	21.77	22.8	2
20	16QAM	50	24	21.88	21.77	21.77	21.79	22.8	2
20	16QAM	50	50	21.81	21.81	21.73	21.72	22.8	2
20	16QAM	100	0	18.81	18.66	18.76	18.65	19.8	5
20	64QAM	1	0	17.75	17.67	17.83	17.70	18.8	6
20	64QAM	1	49	21.85	21.85	21.80	21.78	22.8	2
20	64QAM	1	99	17.79	17.74	17.74	17.70	18.8	6
20	64QAM	50	0	20.87	20.77	20.72	20.75	21.8	3
20	64QAM	50	24	20.86	20.73	20.73	20.81	21.8	3
20	64QAM	50	50	20.81	20.72	20.73	20.84	21.8	3
20	64QAM	100	0	17.81	17.84	17.74	17.76	18.8	6
20	256QAM	1	0	14.87	14.86	14.77	14.81	15.8	8
20	256QAM	1	49	18.75	18.67	18.63	18.57	18.8	6
20	256QAM	1	99	14.80	14.70	14.61	14.69	15.8	8
20	256QAM	50	0	18.83	18.64	18.65	18.64	19.8	5
20	256QAM	50	24	18.82	18.74	18.66	18.72	19.8	5
20	256QAM	50	50	18.81	18.67	18.63	18.75	19.8	5
20	256QAM	100	0	15.68	15.73	15.71	15.6	16.8	8
Channel				55315	55820	56190	56685	Tune-up limit	MPR
Frequency (MHz)				3597.5	3603	3642	3692.5	(dBm)	(dB)
15	QPSK	1	0	19.83	19.54	19.43	19.4	20.8	0
15	QPSK	1	37	23.09	23.58	23.60	23.55	24.8	0
15	QPSK	1	74	19.68	19.58	19.50	19.54	20.8	4
15	QPSK	36	0	22.82	22.86	22.76	22.82	23.8	1
15	QPSK	36	20	22.85	22.87	22.75	22.66	23.8	1
15	QPSK	36	39	22.77	22.89	22.72	22.72	23.8	1
15	QPSK	75	0	20.82	20.75	20.81	20.75	21.8	3
15	16QAM	1	0	17.88	17.74	17.77	17.70	18.8	6
15	16QAM	1	37	21.95	21.90	21.75	21.76	22.8	2
15	16QAM	1	74	17.75	17.58	17.64	17.67	18.8	6
15	16QAM	36	0	20.86	20.89	20.68	20.71	21.8	3
15	16QAM	36	20	20.88	20.81	20.72	20.81	21.8	3
15	16QAM	36	39	18.74	18.58	18.55	18.54	19.8	5
15	16QAM	75	0	18.62	18.50	18.53	18.47	19.8	5
15	64QAM	1	0	18.78	18.60	18.71	18.70	19.8	5
15	64QAM	1	37	22.79	22.72	22.71	22.74	23.8	1
15	64QAM	1	74	18.75	18.82	18.58	18.62	19.8	5
15	64QAM	36	0	21.83	21.87	21.73	21.77	22.8	2
15	64QAM	36	20	21.83	21.86	21.71	21.70	22.8	2
15	64QAM	36	39	21.79	21.86	21.73	21.81	22.8	2
15	64QAM	75	0	19.81	19.86	19.68	19.62	20.8	4
15	256QAM	1	0	14.77	14.69	14.61	14.64	15.8	8
15	256QAM	1	37	18.74	18.86	18.85	18.87	19.8	5
15	256QAM	1	74	14.76	14.59	14.60	14.60	15.8	8
15	256QAM	36	0	18.84	18.64	18.74	18.66	19.8	5
15	256QAM	36	20	18.85	18.67	18.77	18.70	19.8	5
15	256QAM	36	39	18.80	18.74	18.61	18.66	19.8	5
15	256QAM	75	0	16.89	16.82	16.74	16.79	17.8	7
Channel				55290	55815	56165	56690	Tune-up limit	MPR
Frequency (MHz)				3605	3607.5	3645.5	3695	(dBm)	(dB)
10	QPSK	1	0	23.70	23.78	23.78	23.72	24.8	0
10	QPSK	1	25	23.70	23.72	23.74	23.79	24.8	0
10	QPSK	1	49	23.78	23.75	23.75	23.75	24.8	0
10	QPSK	25	0	23.00	22.94	22.94	22.81	23.8	1
10	QPSK	25	12	23.02	22.90	22.96	22.82	23.8	1
10	QPSK	25	25	22.83	22.86	22.84	22.77	23.8	1
10	QPSK	50	0	22.88	22.88	22.84	22.88	23.8	1
10	16QAM	1	0	21.97	21.83	21.91	21.80	22.8	2
10	16QAM	1	49	21.88	22.08	21.83	21.83	22.8	2
10	16QAM	1	99	21.97	21.90	21.85	21.84	22.8	2
10	16QAM	25	0	20.87	20.82	20.85	20.88	21.8	3
10	16QAM	25	12	21.05	20.89	20.99	20.91	21.8	3
10	16QAM	25	25	20.98	20.91	20.89	20.87	21.8	3
10	16QAM	50	0	21.01	20.89	20.93	20.88	21.8	3
10	64QAM	1	0	21.89	21.86	21.78	21.82	22.8	2
10	64QAM	1	25	21.96	21.97	21.58	21.91	22.8	2
10	64QAM	1	49	21.76	21.80	21.82	21.78	22.8	2
10	64QAM	25	0	20.93	20.96	20.94	20.95	21.8	3
10	64QAM	25	12	20.92	20.94	20.99	20.97	21.8	3
10	64QAM	25	25	20.95	20.84	20.83	20.81	21.8	3
10	64QAM	50	0	20.92	20.96	20.94	20.98	21.8	3
10	256QAM	1	0	19.15	19.03	19.09	19.04	19.8	5
10	256QAM	1	25	18.98	19.05	19.09	19.06	19.8	5
10	256QAM	1	49	19.08	19.02	19.04	19.08	19.8	5
10	256QAM	25	0	19.02	19.01	19.05	19.09	19.8	5
10	256QAM	25	12	18.99	19.02	19.07	19.10	19.8	5
10	256QAM	25	25	19.06	19.06	19.06	19.10	19.8	5
10	256QAM	50	0	19.04	19.07	19.07	19.02	19.8	5
Channel				55265	55810	56170	56715	Tune-up limit	MPR
Frequency (MHz)				3592.5	3607	3643	3692.5	(dBm)	(dB)
5	QPSK	1	0	23.71	23.79	23.74	23.79	24.8	0
5	QPSK	1	12	23.79	23.79	23.70	23.74	24.8	0
5	QPSK	1	24	23.74	23.71	23.73	23.76	24.8	0
5	QPSK	12	0	22.89	22.81	22.85	22.94	23.8	1
5	QPSK	12	7	22.88	22.87	22.84	22.90	23.8	1
5	QPSK	12	13	22.83	22.74	22.86	22.77	23.8	1
5	QPSK	25	0	22.79	22.82	22.78	22.89	23.8	1
5	16QAM	1	0	21.89	21.88	21.87	21.84	22.8	2
5	16QAM	1	12	21.87	22.08	21.90	22.09	22.8	2
5	16QAM	1	24	21.82	21.81	21.84	21.86	22.8	2
5	16QAM	12	0	20.81	20.85	21.07	20.81	21.8	3
5	16QAM	12	7	20.91	20.90	20.99	20.85	21.8	3
5	16QAM	12	13	20.88	20.87	20.82	20.88	21.8	3
5	16QAM	25	0	20.88	20.86	20.90	20.87	21.8	3
5	64QAM	1	0	21.91	21.88	21.86	21.81	22.8	2
5	64QAM	1	12	21.94	21.95	21.99	21.89	22.8	2
5	64QAM	1	24	21.72	21.79	21.74	21.72	22.8	2
5	64QAM	12	0	20.98	20.98	20.96	20.89	21.8	3
5	64QAM	12	7	20.99	20.94	20.87	20.89	21.8	3
5	64QAM	12	13	20.98	20.94	20.96	20.99	21.8	3
5	64QAM	25	0	20.94	20.83	20.84	20.94	21.8	3
5	256QAM	1	0	19.04	19.03	19.02	18.95	19.8	5
5	256QAM	1	12	19.03	18.96	19.00	19.03	19.8	5
5	256QAM	1	24	19.09	18.98	19.08	19.08	19.8	5
5	256QAM	12	0	18.97	19.08	19.08	19.00	19.8	5
5	256QAM	12	7	18.95	19.08	18.95	19.08	19.8	5
5	256QAM	12	13	19.03	19.05	19.07	19.02	19.8	5
5	256QAM	25	0	19.05	19.02	19.05	19.00	19.8	5



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	24.2	0.0
Frequency (MHz)				1860	1880	1900		
20	PV2 BPSK	1	1	22.25	22.28	22.28		
20	PV2 BPSK	1	53	22.34	22.27	22.23		
20	PV2 BPSK	1	104	22.22	22.20	22.24	23.7	0.5
20	PV2 BPSK	50	0	21.77	21.91	21.83		
20	PV2 BPSK	50	26	22.23	22.25	22.30		
20	PV2 BPSK	50	56	21.80	21.83	21.75		
20	PV2 BPSK	100	0	21.82	21.89	21.75	23.7	0.5
20	QPSK	1	1	22.95	23.08	22.98		
20	QPSK	1	53	22.84	23.07	23.05		
20	QPSK	1	104	22.89	23.00	22.94		
20	QPSK	50	0	22.30	22.37	22.20	23.2	1.0
20	QPSK	50	26	22.81	22.81	22.75		
20	QPSK	50	56	22.35	22.38	22.22		
20	QPSK	100	0	22.25	22.37	22.30		
20	16QAM	1	1	21.32	21.44	21.27	22.2	2.0
20	64QAM	1	1	20.32	20.40	20.32		
20	256QAM	1	1	19.88	19.92	19.92		
Channel				371500	376000	380500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)
15	QPSK	1	1	22.08	22.94	22.80	24.2	0.5
Channel				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)
10	QPSK	1	1	22.17	22.85	22.83	24.2	0.5
Channel				370500	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)
5	QPSK	1	1	22.10	22.80	22.83	24.2	0.5

n2 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				372000	376000	380000	22.7	0.0
Frequency (MHz)				1860	1880	1900		
20	PV2 BPSK	1	1	21.41	21.52	21.47		
20	PV2 BPSK	1	53	21.21	21.40	21.27		
20	PV2 BPSK	1	104	21.17	21.25	21.14	22.7	0.0
20	PV2 BPSK	50	0	21.14	21.20	21.01		
20	PV2 BPSK	50	26	21.32	21.46	21.35		
20	PV2 BPSK	50	56	21.29	21.35	21.20		
20	PV2 BPSK	100	0	21.25	21.38	21.31	22.7	0.0
20	QPSK	1	1	21.48	21.62	21.56		
20	QPSK	1	53	21.41	21.41	21.37		
20	QPSK	1	104	21.17	21.34	21.28		
20	QPSK	50	0	21.32	21.33	21.27	22.7	0.0
20	QPSK	50	26	21.42	21.52	21.48		
20	QPSK	50	56	21.35	21.42	21.23		
20	QPSK	100	0	21.32	21.44	21.43		
20	16QAM	1	1	21.38	21.45	21.37	22.2	0.0
20	64QAM	1	1	21.27	21.35	21.22		
20	256QAM	1	1	19.88	19.92	19.92		
Channel				371500	376000	380500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)
15	QPSK	1	1	21.32	21.50	21.50	22.7	0.0
Channel				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)
10	QPSK	1	1	21.44	21.51	21.50	22.7	0.0
Channel				370500	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)
5	QPSK	1	1	21.38	21.53	21.53	22.7	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				50000	50700	51000	20.0	0.0	
Frequency (MHz)				2520	2535	2550			
40	PV2 BPSK	1	1	18.73	18.79	18.75			
40	PV2 BPSK	1	108	18.46	18.59	18.53			
40	PV2 BPSK	1	214	18.76	18.76	18.64	20.0	0.0	
40	PV2 BPSK	108	0	18.51	18.69	18.61			
40	PV2 BPSK	108	54	18.58	18.65	18.59			
40	PV2 BPSK	108	108	18.46	18.62	18.59			
40	PV2 BPSK	216	0	18.56	18.71	18.66	20.0	0.0	
40	QPSK	1	1	18.76	18.66	18.80	20.0	0.0	
40	QPSK	1	108	18.37	18.44	18.44			
40	QPSK	1	214	18.55	18.68	18.65			
40	QPSK	108	0	18.58	18.60	18.50			
40	QPSK	108	54	18.58	18.67	18.57	20.0	0.0	
40	QPSK	108	108	18.80	18.66	18.52	20.0	0.0	
40	QPSK	216	0	18.62	18.68	18.58	20.0	0.0	
40	16QAM	1	1	18.85	18.71	18.71			
40	64QAM	1	1	18.74	18.74	18.55			
40	256QAM	1	1	18.15	18.20	18.18			
Channel				503000	507000	511000	Tune-up limit	MPR	
Frequency (MHz)				2515	2525	2535	(dBm)	(dB)	
30	QPSK	1	1	18.69	18.78	18.77	20.0	0.0	
Channel				502500	507000	511500	Tune-up limit	MPR	
Frequency (MHz)				2512.5	2525	2537.5	(dBm)	(dB)	
25	QPSK	1	1	18.63	18.82	18.65	20.0	0.0	
Channel				502000	507000	512000	Tune-up limit	MPR	
Frequency (MHz)				2510	2525	2540	(dBm)	(dB)	
20	QPSK	1	1	18.64	18.70	18.75	20.0	0.0	
Channel				501500	507000	512500	Tune-up limit	MPR	
Frequency (MHz)				2507.5	2525	2542.5	(dBm)	(dB)	
15	QPSK	1	1	18.58	18.74	18.63	20.0	0.0	
Channel				501000	507000	513000	Tune-up limit	MPR	
Frequency (MHz)				2505	2525	2550	(dBm)	(dB)	
10	QPSK	1	1	18.71	18.77	18.64	20.0	0.0	
Channel				500500	507000	513500	Tune-up limit	MPR	
Frequency (MHz)				2502.5	2525	2567.5	(dBm)	(dB)	
5	QPSK	1	1	18.61	18.79	18.76	20.0	0.0	

n7 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				50000	507000	510000	20.2	0.0	
Frequency (MHz)				2520	2535	2550			
40	PV2 BPSK	1	1	18.79	18.82	18.74			
40	PV2 BPSK	1	108	18.62	18.77	18.59			
40	PV2 BPSK	1	214	18.61	18.67	18.67	20.2	0.0	
40	PV2 BPSK	108	0	18.59	18.73	18.63			
40	PV2 BPSK	108	54	18.75	18.63	18.71			
40	PV2 BPSK	108	108	18.62	18.69	18.55			
40	PV2 BPSK	216	0	18.75	18.80	18.74	20.2	0.0	
40	QPSK	1	1	18.67	18.69	18.72	20.2	0.0	
40	QPSK	1	108	18.56	18.62	18.55			
40	QPSK	1	214	18.43	18.61	18.42			
40	QPSK	108	0	18.64	18.79	18.75			
40	QPSK	108	54	18.74	18.62	18.79	20.2	0.0	
40	QPSK	108	108	18.46	18.63	18.55	20.2	0.0	
40	QPSK	216	0	18.77	18.61	18.79			
40	16QAM	1	1	18.74	18.75	18.57			
40	64QAM	1	1	18.61	18.72	18.54			
40	256QAM	1	1	18.73	18.76	18.58	20.2	0.0	
Channel				503000	507000	511000	Tune-up limit	MPR	
Frequency (MHz)				2515	2525	2535	(dBm)	(dB)	
30	QPSK	1	1	18.68	18.71	18.54	20.2	0.0	
Channel				502500	507000	511500	Tune-up limit	MPR	
Frequency (MHz)				2512.5	2525	2537.5	(dBm)	(dB)	
25	QPSK	1	1	18.75	18.84	18.65	20.2	0.0	
Channel				502000	507000	512000	Tune-up limit	MPR	
Frequency (MHz)				2510	2525	2540	(dBm)	(dB)	
20	QPSK	1	1	18.79	18.89	18.55	20.2	0.0	
Channel				501500	507000	512500	Tune-up limit	MPR	
Frequency (MHz)				2507.5	2525	2562.5	(dBm)	(dB)	
15	QPSK	1	1	18.73	18.82	18.59	20.2	0.0	
Channel				501000	507000	513000	Tune-up limit	MPR	
Frequency (MHz)				2505	2525	2560	(dBm)	(dB)	
10	QPSK	1	1	18.83	18.73	18.63	20.2	0.0	
Channel				500500	507000	513500	Tune-up limit	MPR	
Frequency (MHz)				2502.5	2525	2597.5	(dBm)	(dB)	
5	QPSK	1	1	18.77	18.85	18.71	20.2	0.0	



n25 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				374000	376500	379000	24.2	0.0
Frequency (MHz)				1870	1882.5	1895		
40	PV2 BPSK	1	1	23.19	23.35	23.33		
40	PV2 BPSK	1	108	23.22	23.30	23.30		
40	PV2 BPSK	1	214	23.15	23.25	23.11	23.7	0.5
40	PV2 BPSK	108	0	22.99	23.10	23.03		
40	PV2 BPSK	108	54	23.03	23.22	23.17		
40	PV2 BPSK	108	108	23.07	23.15	23.00		
40	PV2 BPSK	216	0	23.21	23.24	23.11	24.2	0.0
40	QPSK	1	1	23.30	23.35	23.33		
40	QPSK	1	108	23.12	23.30	23.19		
40	QPSK	1	214	23.23	23.27	23.23		
40	QPSK	108	0	22.40	22.35	22.35	23.2	1.0
40	QPSK	108	54	23.23	23.35	23.34	24.2	0.0
40	QPSK	108	108	22.40	22.33	22.41	23.2	1.0
40	QPSK	216	0	22.44	22.45	22.35	23.2	1.0
40	16QAM	1	1	22.47	22.40	22.48		
40	64QAM	1	1	20.87	20.88	20.83		
40	256QAM	1	1	19.06	19.05	19.15		
Channel				373000	376500	380000	Tune-up limit	MPR
Frequency (MHz)				1865	1882.5	1900	(dBm)	(dB)
30	QPSK	1	1	23.06	23.31	23.25	24.2	0.5
Channel				372500	376500	380500	Tune-up limit	MPR
Frequency (MHz)				1862.5	1882.5	1902.5	(dBm)	(dB)
25	QPSK	1	1	23.07	23.23	23.23	24.2	0.5
Channel				372000	376500	381000	Tune-up limit	MPR
Frequency (MHz)				1860	1882.5	1905	(dBm)	(dB)
20	QPSK	1	1	23.02	23.23	23.17	24.2	0.0
Channel				371500	376500	381500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1882.5	1907.5	(dBm)	(dB)
15	QPSK	1	1	23.07	23.32	23.25	24.2	0.0
Channel				371000	376500	382000	Tune-up limit	MPR
Frequency (MHz)				1855	1882.5	1910	(dBm)	(dB)
10	QPSK	1	1	23.09	23.33	23.23	24.2	0.0
Channel				370500	376500	382500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1882.5	1912.5	(dBm)	(dB)
5	QPSK	1	1	23.12	23.21	23.21	24.2	0.0

n25 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				374500	376500	379000	22.7	0.0
Frequency (MHz)				1870	1882.5	1895		
40	PV2 BPSK	1	1	21.57	21.72	21.71		
40	PV2 BPSK	1	108	21.51	21.67	21.55		
40	PV2 BPSK	1	214	21.57	21.69	21.52	22.7	0.0
40	PV2 BPSK	108	0	21.69	21.73	21.65		
40	PV2 BPSK	108	54	21.55	21.76	21.65		
40	PV2 BPSK	108	108	21.68	21.86	21.82		
40	PV2 BPSK	216	0	21.69	21.76	21.61	22.7	0.0
40	QPSK	1	1	21.85	21.90	21.73	22.7	0.0
40	QPSK	1	108	21.61	21.61	21.53		
40	QPSK	1	214	21.59	21.60	21.53		
40	QPSK	108	0	21.46	21.61	21.46		
40	QPSK	108	54	21.68	21.77	21.66	22.7	0.0
40	QPSK	108	108	21.58	21.70	21.52	22.7	0.0
40	QPSK	216	0	21.48	21.65	21.50		
40	16QAM	1	1	21.51	21.62	21.59		
40	64QAM	1	1	21.20	21.30	21.30		
40	256QAM	1	1	19.35	19.50	19.31	22.2	2.5
Channel				373500	376500	380000	Tune-up limit	MPR
Frequency (MHz)				1865	1882.5	1900	(dBm)	(dB)
30	QPSK	1	1	21.47	21.71	21.73	22.7	0.0
Channel				372500	376500	380500	Tune-up limit	MPR
Frequency (MHz)				1862.5	1882.5	1902.5	(dBm)	(dB)
25	QPSK	1	1	21.48	21.74	21.73	22.7	0.0
Channel				372000	376500	381000	Tune-up limit	MPR
Frequency (MHz)				1860	1882.5	1905	(dBm)	(dB)
20	QPSK	1	1	21.76	21.93	21.67	22.7	0.0
Channel				371500	376500	381500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1882.5	1907.5	(dBm)	(dB)
15	QPSK	1	1	21.89	21.82	21.70	22.7	0.0
Channel				371000	376500	382000	Tune-up limit	MPR
Frequency (MHz)				1855	1882.5	1910	(dBm)	(dB)
10	QPSK	1	1	21.74	21.89	21.69	22.2	0.0
Channel				370500	376500	382500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1882.5	1912.5	(dBm)	(dB)
5	QPSK	1	1	21.71	21.75	21.64	22.7	0.0



n30 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				462000	2310		21.7	0.0
Frequency (MHz)				2310				
10	PV2 BPSK	1	1	20.88				
10	PV2 BPSK	1	26	20.72				
10	PV2 BPSK	1	50	20.74			21.7	0.0
10	PV2 BPSK	25	0	20.77				
10	PV2 BPSK	25	14	20.76			21.7	0.0
10	PV2 BPSK	25	27	20.78				
10	PV2 BPSK	50	0	20.76			21.7	0.0
10	QPSK	1	1	20.90				
10	QPSK	1	26	20.83				
10	QPSK	1	50	20.86				
10	QPSK	25	0	20.80			21.7	0.0
10	QPSK	25	14	20.88			21.7	0.0
10	QPSK	25	27	20.70			21.7	0.0
10	QPSK	50	0	20.86			21.7	0.0
10	16QAM	1	1	20.77			21.7	0.0
10	64QAM	1	1	20.22			21.2	0.5
10	256QAM	1	1	18.22			19.2	2.5
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2307.5	2310	2312.5	(dBm)	(dB)
5	QPSK	1	1	20.98	20.81	20.90	21.7	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				348000	349000	350000	23.7	0.0
Frequency (MHz)				1740	1745	1750		
40	PV2 BPSK	1	1	22.19	22.35	22.22		
40	PV2 BPSK	1	108	22.12	22.23	22.08		
40	PV2 BPSK	1	214	22.12	22.20	22.08	23.2	0.5
40	PV2 BPSK	108	0	21.46	21.30	21.42		
40	PV2 BPSK	108	84	22.06	22.15	22.03	23.2	0.5
40	PV2 BPSK	108	108	21.48	21.26	21.48		
40	PV2 BPSK	216	0	21.46	21.20	21.35	23.7	0.0
40	QPSK	1	1	22.30	22.39	22.25		
40	QPSK	1	108	22.10	22.23	22.18		
40	QPSK	1	214	22.05	22.15	22.11		
40	QPSK	108	0	22.13	22.30	22.23	22.7	1.0
40	QPSK	108	54	22.08	22.25	22.15	23.7	0.0
40	QPSK	108	108	22.06	22.22	22.15	22.7	1.0
40	QPSK	216	0	22.12	22.18	22.10		
40	16QAM	1	1	22.07	22.10	21.91	22.7	1.0
40	64QAM	1	1	20.72	20.80	20.82	21.2	2.5
40	256QAM	1	1	18.50	18.74	18.85	19.2	4.5
Channel				349000	349000	350000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1745	1745	1750	(dBm)	(dB)
30	QPSK	1	1	22.03	22.18	22.15	23.7	0.0
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)
25	QPSK	1	1	22.08	22.19	22.15	23.7	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	22.00	22.25	22.11	23.7	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	22.05	22.22	22.09	23.7	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	22.01	22.17	22.10	23.7	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	22.18	22.28	22.10	23.7	0.0



n66 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				346000	349000	352000	21.7	0.0
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	20.41	20.57	20.51		
40	PI/2 BPSK	1	108	20.38	20.49	20.47		
40	PI/2 BPSK	1	214	20.23	20.38	20.21	21.7	0.0
40	PI/2 BPSK	108	0	20.29	20.39	20.38		
40	PI/2 BPSK	108	54	20.28	20.48	20.48	21.7	0.0
40	PI/2 BPSK	108	108	20.35	20.40	20.33	21.7	0.0
40	PI/2 BPSK	216	0	20.43	20.43	20.38		
40	QPSK	1	1	20.59	20.62	20.55	21.7	0.0
40	QPSK	1	108	20.30	20.48	20.38		
40	QPSK	1	214	20.34	20.37	20.18		
40	QPSK	108	0	20.54	20.57	20.48		
40	QPSK	108	54	20.44	20.60	20.55	21.7	0.0
40	QPSK	108	108	20.44	20.52	20.35	21.7	0.0
40	QPSK	216	0	20.34	20.41	20.35		
40	16QAM	1	1	20.17	20.35	20.16	21.7	0.0
40	64QAM	1	1	20.30	20.48	20.38	21.7	0.0
40	256QAM	1	1	19.19	19.35	19.21	20.2	1.5
Channel				345000	349000	353000	Tune-up limit (dB)	MPR
Frequency (MHz)				1725	1745	1765	(dB)	(dB)
30	QPSK	1	1	20.58	20.54	20.43	21.7	0.0
Channel				344500	349000	353500	Tune-up limit (dB)	MPR
Frequency (MHz)				1722.5	1745	1767.5	(dB)	(dB)
25	QPSK	1	1	20.54	20.51	20.42	21.7	0.0
Channel				344000	349000	354000	Tune-up limit (dB)	MPR
Frequency (MHz)				1720	1745	1770	(dB)	(dB)
20	QPSK	1	1	20.46	20.52	20.43	21.7	0.0
Channel				343500	349000	354500	Tune-up limit (dB)	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dB)	(dB)
15	QPSK	1	1	20.56	20.61	20.43	21.7	0.0
Channel				343000	349000	355000	Tune-up limit (dB)	MPR
Frequency (MHz)				1715	1745	1775	(dB)	(dB)
10	QPSK	1	1	20.57	20.53	20.45	21.7	0.0
Channel				342500	349000	355500	Tune-up limit (dB)	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dB)	(dB)
5	QPSK	1	1	20.55	20.53	20.42	21.7	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				517000	519000	521000	21.2	0.0
Frequency (MHz)				2585	2595	2605		
30	PV2 BPSK	1	1	20.18	20.20	20.18		
30	PV2 BPSK	1	40	19.99	20.18	20.12		
30	PV2 BPSK	1	77	20.12	20.15	20.08	21.2	0.0
30	PV2 BPSK	36	0	20.08	20.13	20.05		
30	PV2 BPSK	36	22	20.07	20.10	19.95		
30	PV2 BPSK	36	43	20.02	20.12	20.02		
30	PV2 BPSK	75	0	20.08	20.09	20.00	21.2	0.0
30	QPSK	1	1	20.08	20.20	20.16		
30	QPSK	1	40	20.14	20.20	20.19		
30	QPSK	1	77	20.17	20.21	20.20		
30	QPSK	36	0	20.01	20.17	19.99	21.2	0.0
30	QPSK	36	22	20.17	20.22	20.19		
30	QPSK	36	43	19.97	20.15	20.02		
30	QPSK	75	0	20.15	20.20	20.15		
30	16QAM	1	1	20.07	20.12	19.95	21.2	0.0
30	64QAM	1	1	20.05	20.08	19.98	21.2	0.0
30	256QAM	1	1	19.98	19.98	19.92	21.2	0.0
Channel				516000	519000	522000	Tune-up limit (dB)	MPR
Frequency (MHz)				2590	2595	2610	21.2	0.0
20	QPSK	1	1	20.11	20.21	20.03	21.2	0.0
Channel				515500	519000	522500	Tune-up limit (dB)	MPR
Frequency (MHz)				2577.3	2595	2612.5	21.2	0.0
15	QPSK	1	1	20.17	20.08	20.12	21.2	0.0
Channel				515004	519000	522996	Tune-up limit (dB)	MPR
Frequency (MHz)				2576.02	2595	2614.98	21.2	0.0
10	QPSK	1	1	20.22	20.11	20.14	21.2	0.0



n38 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				517000	519000	521000	21.0	0.0
Frequency (MHz)				2585	2595	2605		
30	PV2 BPSK	1	1	19.90	19.98	19.91		
30	PV2 BPSK	1	40	19.80	19.82	19.78		
30	PV2 BPSK	1	77	19.97	19.99	19.91	21.0	0.0
30	PV2 BPSK	36	0	19.88	19.88	19.75		
30	PV2 BPSK	36	22	19.93	19.91	19.89		
30	PV2 BPSK	36	43	19.78	19.82	19.80		
30	PV2 BPSK	75	0	19.77	19.85	19.77	21.0	0.0
30	QPSK	1	1	20.00	20.03	19.98		
30	QPSK	1	40	19.78	19.84	19.78		
30	QPSK	1	77	19.98	20.01	19.93		
30	QPSK	36	0	19.82	19.82	19.73	21.0	0.0
30	QPSK	36	22	19.83	19.90	19.82		
30	QPSK	36	43	19.73	19.81	19.68		
30	QPSK	75	0	19.85	19.86	19.75		
30	16QAM	1	1	19.85	19.91	19.82	21.0	0.0
30	64QAM	1	1	19.22	19.25	19.18	21.0	0.0
30	256QAM	1	1	19.34	19.33	19.29	19.0	1.0
Channel				516000	519000	522000	Tune-up limit (dB)	MPR
Frequency (MHz)				2590	2595	2610	21.0	0.0
20	QPSK	1	1	19.83	19.88	19.75	21.0	0.0
Channel				515500	519000	522500	Tune-up limit (dB)	MPR
Frequency (MHz)				2577.3	2595	2612.5	21.0	0.0
15	QPSK	1	1	19.74	19.87	19.75	21.0	0.0
Channel				515004	519000	522996	Tune-up limit (dB)	MPR
Frequency (MHz)				2576.02	2595	2614.98	21.0	0.0
10	QPSK	1	1	19.77	19.67	19.79	21.0	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									
Frequency (MHz)				500202	518998	538000	21.2	0.0	
100	PV2 BPSK	1	1	2546.01	2592.99	2640			
100	PV2 BPSK	1	137	20.46	20.65	20.48			
100	PV2 BPSK	1	271	20.50	20.59	20.50			
100	PV2 BPSK	135	0	20.41	20.60	20.50	21.2	0.0	
100	PV2 BPSK	135	66	20.51	20.57	20.52	21.2	0.0	
100	PV2 BPSK	135	138	20.54	20.62	20.55	21.2	0.0	
100	PV2 BPSK	270	0	20.46	20.59	20.40	21.2	0.0	
100	QPSK	1	1	20.60	20.70	20.58	21.2	0.0	
100	QPSK	1	137	20.46	20.55	20.55			
100	QPSK	1	271	20.53	20.60	20.54			
100	QPSK	135	0	20.58	20.62	20.62			
100	QPSK	135	66	20.56	20.66	20.54	21.2	0.0	
100	QPSK	135	138	20.41	20.57	20.57	21.2	0.0	
100	QPSK	270	0	20.38	20.51	20.35	21.2	0.0	
100	16QAM	1	1	20.26	20.45	20.29	21.2	0.0	
100	64QAM	1	1	20.03	20.01	20.05	20.7	0.5	
100	256QAM	1	1	17.70	17.77	17.72	18.7	2.5	
Channel				508200	518998	528996	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.80	(dBm)	(dB)	
90	QPSK	1	1	20.58	20.58	20.49	21.2	0.0	
Channel				507204	518998	529998	Tune-up limit	MPR	
Frequency (MHz)				2531.02	2592.99	2648.80	(dBm)	(dB)	
80	QPSK	1	1	20.54	20.55	20.50	21.2	0.0	
Channel				506202	518998	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	20.46	20.63	20.42	21.2	0.0	
Channel				505200	518998	531996	Tune-up limit	MPR	
Frequency (MHz)				2526	2592.99	2659.80	(dBm)	(dB)	
60	QPSK	1	1	20.53	20.62	20.53	21.2	0.0	
Channel				504204	518998	532998	Tune-up limit	MPR	
Frequency (MHz)				2524.02	2592.99	2664.80	(dBm)	(dB)	
50	QPSK	1	1	20.41	20.61	20.57	21.2	0.0	
Channel				503202	518998	534000	Tune-up limit	MPR	
Frequency (MHz)				2518.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	20.59	20.60	20.50	21.2	0.0	
Channel				502200	518998	534996	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.80	(dBm)	(dB)	
30	QPSK	1	1	20.49	20.58	20.58	21.2	0.0	
Channel				501204	518998	535998	Tune-up limit	MPR	
Frequency (MHz)				2504.02	2592.99	2679.80	(dBm)	(dB)	
20	QPSK	1	1	20.58	20.64	20.53	21.2	0.0	
Channel				500700	518998	536496	Tune-up limit	MPR	
Frequency (MHz)				2503.5	2592.99	2683.48	(dBm)	(dB)	
15	QPSK	1	1	20.50	20.63	20.45	21.2	0.0	
Channel				500202	518998	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	19.47	20.55	20.48	21.2	0.0	

n41(HPUE) 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									
Frequency (MHz)				500202	518998	538000	21.2	0.0	
100	PV2 BPSK	1	1	2546.01	2592.99	2640			
100	PV2 BPSK	1	137	20.46	20.65	20.48			
100	PV2 BPSK	1	271	20.50	20.59	20.50			
100	PV2 BPSK	135	0	20.41	20.60	20.50	21.2	0.0	
100	PV2 BPSK	135	66	20.51	20.57	20.52	21.2	0.0	
100	PV2 BPSK	135	138	20.54	20.62	20.55	21.2	0.0	
100	PV2 BPSK	270	0	20.46	20.59	20.40	21.2	0.0	
100	QPSK	1	1	20.60	20.70	20.58	21.2	0.0	
100	QPSK	1	137	20.46	20.55	20.55			
100	QPSK	1	271	20.53	20.60	20.54			
100	QPSK	135	0	20.58	20.62	20.62			
100	QPSK	135	66	20.58	20.66	20.54	21.2	0.0	
100	QPSK	135	138	20.41	20.57	20.57	21.2	0.0	
100	QPSK	270	0	20.38	20.51	20.35	21.2	0.0	
100	16QAM	1	1	20.26	20.45	20.29	21.2	0.0	
100	64QAM	1	1	20.03	20.01	20.05	20.7	0.5	
100	256QAM	1	1	17.70	17.77	17.72	18.7	2.5	
Channel				508200	518998	528996	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.80	(dBm)	(dB)	
90	QPSK	1	1	20.58	20.58	20.49	21.2	0.0	
Channel				507204	518998	529998	Tune-up limit	MPR	
Frequency (MHz)				2531.02	2592.99	2648.80	(dBm)	(dB)	
80	QPSK	1	1	20.54	20.55	20.50	21.2	0.0	
Channel				506202	518998	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	20.46	20.63	20.42	21.2	0.0	
Channel				505200	518998	531996	Tune-up limit	MPR	
Frequency (MHz)				2526	2592.99	2659.80	(dBm)	(dB)	
60	QPSK	1	1	20.53	20.62	20.53	21.2	0.0	
Channel				504204	518998	532998	Tune-up limit	MPR	
Frequency (MHz)				2524.02	2592.99	2664.80	(dBm)	(dB)	
50	QPSK	1	1	20.41	20.61	20.57	21.2	0.0	
Channel				503202	518998	534000	Tune-up limit	MPR	
Frequency (MHz)				2518.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	20.59	20.60	20.50	21.2	0.0	
Channel				502200	518998	534996	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.80	(dBm)	(dB)	
30	QPSK	1	1	20.49	20.58	20.58	21.2	0.0	
Channel				501204	518998	535998	Tune-up limit	MPR	
Frequency (MHz)				2504.02	2592.99	2679.80	(dBm)	(dB)	
20	QPSK	1	1	20.58	20.64	20.53	21.2	0.0	
Channel				500700	518998	536496	Tune-up limit	MPR	
Frequency (MHz)				2503.5	2592.99	2683.48	(dBm)	(dB)	
15	QPSK	1	1	20.50	20.63	20.45	21.2	0.0	
Channel				500202	518998	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	19.47	20.55	20.48	21.2	0.0	



n41 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)				500202	518998	538000			
				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	20.10	20.21	20.14	21.0	0.0	
100	PV2 BPSK	1	137	19.92	20.10	20.01			
100	PV2 BPSK	1	271	20.01	19.97	19.98			
100	PV2 BPSK	135	0	19.78	19.97	19.83			
100	PV2 BPSK	135	86	19.89	19.95	19.95	21.0	0.0	
100	PV2 BPSK	135	138	19.81	19.99	19.97	21.0	0.0	
100	PV2 BPSK	270	0	19.90	20.04	20.01	21.0	0.0	
100	QPSK	1	1	20.06	20.25	20.15	21.0	0.0	
100	QPSK	1	137	19.93	19.93	19.86			
100	QPSK	1	271	19.99	20.15	20.03			
100	QPSK	135	0	19.95	19.98	19.83			
100	QPSK	135	86	20.06	20.13	20.10	21.0	0.0	
100	QPSK	135	138	19.94	20.10	20.06	21.0	0.0	
100	QPSK	270	0	19.98	19.97	19.95	21.0	0.0	
100	16QAM	1	1	19.77	19.95	19.76	21.0	0.0	
100	64QAM	1	1	20.09	20.09	20.09	21.0	0.0	
100	256QAM	1	1	18.22	18.40	18.33	19.5	1.5	
Channel				508200	518998	528996	Tune-up limit	MPR	
90	QPSK	1	1	19.97	20.25	20.15	21.0	0.0	
Channel				507204	518998	529998	Tune-up limit	MPR	
80	QPSK	1	1	19.99	20.22	20.09	21.0	0.0	
Channel				506202	518998	531000	Tune-up limit	MPR	
70	QPSK	1	1	19.99	20.15	19.99	21.0	0.0	
Channel				505200	518998	531996	Tune-up limit	MPR	
60	QPSK	1	1	19.89	20.21	20.07	21.0	0.0	
Channel				504204	518998	532998	Tune-up limit	MPR	
50	QPSK	1	1	20.00	20.13	20.08	21.0	0.0	
Channel				503202	518998	534000	Tune-up limit	MPR	
40	QPSK	1	1	20.04	20.14	20.08	21.0	0.0	
Channel				502200	518998	534996	Tune-up limit	MPR	
30	QPSK	1	1	20.01	20.12	20.00	21.0	0.0	
Channel				501204	518998	535998	Tune-up limit	MPR	
20	QPSK	1	1	19.96	20.19	20.10	21.0	0.0	
Channel				500700	518998	536496	Tune-up limit	MPR	
15	QPSK	1	1	20.01	20.14	20.11	21.0	0.0	
Channel				500202	518998	537000	Tune-up limit	MPR	
10	QPSK	1	1	19.98	20.23	20.11	21.0	0.0	

n41(HPUE) 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)				500202	518998	538000			
100	PV2 BPSK	1	1	2546.01	2592.99	2640	21.0	0.0	
100	PV2 BPSK	1	137	20.10	20.21	20.14			
100	PV2 BPSK	1	271	20.01	20.07	19.98			
100	PV2 BPSK	135	0	19.78	19.97	19.83			
100	PV2 BPSK	135	86	19.86	20.06	19.95	21.0	0.0	
100	PV2 BPSK	135	138	19.81	19.99	19.97	21.0	0.0	
100	PV2 BPSK	270	0	19.90	20.04	20.01	21.0	0.0	
100	QPSK	1	1	20.06	20.25	20.15	21.0	0.0	
100	QPSK	1	137	19.93	19.93	19.86			
100	QPSK	1	271	19.99	20.15	20.03			
100	QPSK	135	0	19.95	19.98	19.83			
100	QPSK	135	86	20.06	20.13	20.10	21.0	0.0	
100	QPSK	135	138	19.94	20.10	20.06	21.0	0.0	
100	QPSK	270	0	19.98	19.97	19.95	21.0	0.0	
100	16QAM	1	1	19.77	19.95	19.76	21.0	0.0	
100	64QAM	1	1	20.09	20.09	20.09	21.0	0.0	
100	256QAM	1	1	18.22	18.40	18.33	19.5	1.5	
Channel									
Frequency (MHz)				508200	518998	528996	Tune-up limit	MPR	
90	QPSK	1	1	2541	2592.99	2644.88	(dBm)	(dB)	
Channel									
Frequency (MHz)				507204	518998	529998	Tune-up limit	MPR	
80	QPSK	1	1	19.99	20.23	20.15	21.0	0.0	
Channel									
Frequency (MHz)				506202	518998	531000	Tune-up limit	MPR	
70	QPSK	1	1	19.99	20.12	19.95	21.0	0.0	
Channel									
Frequency (MHz)				505200	518998	531996	Tune-up limit	MPR	
60	QPSK	1	1	19.89	20.21	20.07	21.0	0.0	
Channel									
Frequency (MHz)				504204	518998	532998	Tune-up limit	MPR	
50	QPSK	1	1	20.00	20.13	20.08	21.0	0.0	
Channel									
Frequency (MHz)				503202	518998	534000	Tune-up limit	MPR	
40	QPSK	1	1	20.04	20.14	20.08	21.0	0.0	
Channel									
Frequency (MHz)				502200	518998	534996	Tune-up limit	MPR	
30	QPSK	1	1	20.01	20.12	20.00	21.0	0.0	
Channel									
Frequency (MHz)				501204	518998	535998	Tune-up limit	MPR	
20	QPSK	1	1	19.96	20.19	20.10	21.0	0.0	
Channel									
Frequency (MHz)				500700	518998	536496	Tune-up limit	MPR	
15	QPSK	1	1	20.01	20.14	20.11	21.0	0.0	
Channel									
Frequency (MHz)				500202	518998	537000	Tune-up limit	MPR	
10	QPSK	1	1	19.98	20.23	20.11	21.0	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				500202	518598	528000	21.2	0.0	
Frequency (MHz)				2548.01	2592.99	2640			
100	QPSK	1	1	20.12	20.20	20.10			
100	QPSK	1	137	19.93	20.10	19.82			
100	QPSK	1	271	19.82	19.88	19.81			
100	QPSK	137	0	19.77	19.93	19.86			
100	QPSK	137	68	19.93	20.10	20.01			
100	QPSK	137	138	20.01	19.98	19.92			
100	QPSK	273	0	18.75	18.79	18.74			
100	16QAM	1	1	19.48	19.67	19.54			
100	64QAM	1	1	17.91	18.06	17.92	19.2	2.0	
100	256QAM	1	1	15.55	15.44	15.34	18.2	5.0	
Channel				528203	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	21.2	0.0	
90	QPSK	1	1	19.94	20.19	20.02	19.8	0.0	
Channel				530243	518598	529255	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2649.99	21.2	0.0	
80	QPSK	1	1	20.00	20.17	19.99	20.2	0.0	
Channel				529292	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	21.2	0.0	
70	QPSK	1	1	20.07	20.01	20.09	21.2	0.0	
Channel				532203	518598	531926	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98	21.2	0.0	
60	QPSK	1	1	19.98	20.01	20.03	21.2	0.0	
Channel				524243	518598	532526	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	21.2	0.0	
50	QPSK	1	1	20.04	20.02	19.96	21.2	0.0	
Channel				530202	518598	530700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	21.2	0.0	
40	QPSK	1	1	19.98	20.19	20.05	21.2	0.0	
Channel				522203	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	21.2	0.0	
30	QPSK	1	1	20.08	20.17	20.00	21.2	0.0	
Channel				521204	518598	536996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	21.2	0.0	
20	QPSK	1	1	20.05	20.14	20.03	21.2	0.0	
Channel				520700	518598	538496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48	21.2	0.0	
15	QPSK	1	1	20.00	20.15	20.01	21.2	0.0	
Channel				520202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685	21.2	0.0	
10	QPSK	1	1	20.01	20.18	20.06	21.2	0.0	

n41 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				500202	518598	528000	21.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	QPSK	1	1	20.14	20.22	20.20			
100	QPSK	1	137	20.01	20.14	20.14			
100	QPSK	1	271	20.11	20.07	19.99			
100	QPSK	137	0	20.12	20.06	20.15			
100	QPSK	137	68	20.05	20.21	20.24			
100	QPSK	137	138	20.13	19.95	20.00			
100	QPSK	273	0	19.06	19.11	19.00			
100	16QAM	1	1	20.08	20.19	20.21	21.0	0.0	
100	64QAM	1	1	19.16	19.21	19.30	20.0	1.0	
100	256QAM	1	1	16.23	16.29	16.30	17.0	4.0	
Channel				528203	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	21.0	0.0	
90	QPSK	1	1	20.07	20.00	20.18	21.0	0.0	
Channel				530243	518598	529255	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2649.99	21.0	0.0	
80	QPSK	1	1	20.10	20.02	20.11	21.0	0.0	
Channel				529292	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	21.0	0.0	
70	QPSK	1	1	19.94	20.07	20.11	21.0	0.0	
Channel				532203	518598	531926	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98	21.0	0.0	
60	QPSK	1	1	20.03	20.14	20.14	21.0	0.0	
Channel				524243	518598	532526	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	21.0	0.0	
50	QPSK	1	1	20.10	20.01	20.00	21.0	0.0	
Channel				530202	518598	530700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	21.0	0.0	
40	QPSK	1	1	19.96	20.14	20.05	21.0	0.0	
Channel				522203	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	21.0	0.0	
30	QPSK	1	1	20.12	20.00	20.04	21.0	0.0	
Channel				521204	518598	536996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	21.0	0.0	
20	QPSK	1	1	19.97	20.01	20.00	21.0	0.0	
Channel				520700	518598	538496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48	21.0	0.0	
15	QPSK	1	1	20.01	20.02	20.04	21.0	0.0	
Channel				520202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685	21.0	0.0	
10	QPSK	1	1	19.93	20.11	20.03	21.0	0.0	



n48_Part96_FCC_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				636000	641666	646332	18.2	0.0
Frequency (MHz)				3570	3624.99	3679.98		
40	PV2 BPSK	1	1	16.97	16.98	16.89		
40	PV2 BPSK	1	53	16.76	16.79	16.78		
40	PV2 BPSK	1	104	16.84	16.92	16.83	18.2	0.0
40	PV2 BPSK	50	0	16.83	16.97	16.85		
40	PV2 BPSK	50	26	16.94	17.05	17.03		
40	PV2 BPSK	50	56	16.86	16.95	16.89		
40	PV2 BPSK	100	0	16.75	16.83	16.69	18.2	0.0
40	QPSK	1	1	17.07	17.10	16.97		
40	QPSK	1	53	16.70	16.73	16.83		
40	QPSK	1	104	16.82	16.93	16.85		
40	QPSK	50	0	16.96	17.02	16.86	18.2	0.0
40	QPSK	50	26	17.04	17.05	16.88		
40	QPSK	50	56	16.72	16.85	16.66		
40	QPSK	100	0	16.95	16.93	16.74		
40	16QAM	1	1	16.80	16.94	16.82	18.2	0.0
40	64QAM	1	1	16.84	16.97	16.95		
40	256QAM	1	1	16.97	17.05	17.04		
Channel				637334	641666	646000	Tune-up limit	MPR
Frequency (MHz)				3561.01	3624.99	3689	(dBm)	(dB)
20	QPSK	1	1	17.04	16.92	16.86	18.2	0.0
Channel				637000	641666	646332	Tune-up limit	MPR
Frequency (MHz)				3555	3624.99	3694.98	(dBm)	(dB)
10	QPSK	1	1	16.98	17.01	16.91	18.2	0.0

n48_Part96_FCC_ANT 13								
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				636000	641666	646332	21.2	0.0
Frequency (MHz)				3570	3624.99	3679.98		
40	PV2 BPSK	1	1	19.97	20.14	20.11		
40	PV2 BPSK	1	53	20.11	20.16	20.11		
40	PV2 BPSK	1	104	20.13	20.15	19.98	21.2	0.0
40	PV2 BPSK	50	0	19.88	20.05	19.91		
40	PV2 BPSK	50	26	20.06	20.15	20.14		
40	PV2 BPSK	50	56	19.92	20.05	20.01		
40	PV2 BPSK	100	0	19.94	20.13	19.96	21.2	0.0
40	QPSK	1	1	20.03	20.20	20.03		
40	QPSK	1	53	19.83	19.97	19.95		
40	QPSK	1	104	20.11	20.15	20.03		
40	QPSK	50	0	20.03	20.03	19.91	21.2	0.0
40	QPSK	50	26	20.11	20.14	20.13		
40	QPSK	50	56	20.04	20.06	19.95		
40	QPSK	100	0	20.04	20.06	19.95		
40	16QAM	1	1	20.06	20.10	20.08	21.2	0.0
40	64QAM	1	1	19.98	20.12	20.12		
40	256QAM	1	1	19.42	19.55	19.45		
Channel				637334	641666	646000	Tune-up limit	MPR
Frequency (MHz)				3561.01	3624.99	3689	(dBm)	(dB)
20	QPSK	1	1	19.97	20.05	19.91	21.2	0.0
Channel				637000	641666	646332	Tune-up limit	MPR
Frequency (MHz)				3555	3624.99	3694.98	(dBm)	(dB)
10	QPSK	1	1	19.91	20.06	19.95	21.2	0.0



Par270 n77_FCC_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)									
100	PV2 BPSK	1	1	16.37	16.59	16.43	17.7	0.0	
100	PV2 BPSK	1	137	16.41	16.44	16.32			
100	PV2 BPSK	1	271	16.37	16.38	16.35			
100	PV2 BPSK	135	0	16.37	16.43	16.36	17.7	0.0	
100	PV2 BPSK	135	86	16.38	16.54	16.45	17.7	0.0	
100	PV2 BPSK	135	138	16.33	16.38	16.31	17.7	0.0	
100	PV2 BPSK	270	0	16.42	16.27	16.25			
100	QPSK	1	1	16.58	16.70	16.60			
100	QPSK	1	137	16.46	16.54	16.48	17.7	0.0	
100	QPSK	1	271	16.23	16.28	16.26			
100	QPSK	135	0	16.32	16.56	16.41			
100	QPSK	135	86	16.29	16.66	16.31	17.7	0.0	
100	QPSK	135	138	16.29	16.34	16.29			
100	QPSK	270	0	16.46	16.50	16.38			
100	16QAM	1	1	16.48	16.51	16.27	17.7	0.0	
100	64QAM	1	1	16.29	16.44	16.33	17.7	0.0	
100	256QAM	1	1	16.19	16.34	16.15	17.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.08	16.51	16.42	17.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.53	16.65	16.57	17.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.44	16.55	16.50	17.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.44	16.62	16.55	17.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.43	16.54	16.60	17.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.51	16.52	16.55	17.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.52	16.65	16.56	17.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.58	16.57	16.48	17.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.57	16.55	16.51	17.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.47	16.63	16.59	17.7	0.0	

Par270 n77 HPUE_FCC_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)									
100	PV2 BPSK	1	1	16.37	16.59	16.43	17.7	0.0	
100	PV2 BPSK	1	137	16.41	16.44	16.32			
100	PV2 BPSK	1	271	16.37	16.38	16.35			
100	PV2 BPSK	135	0	16.37	16.43	16.36	17.7	0.0	
100	PV2 BPSK	135	86	16.38	16.54	16.45	17.7	0.0	
100	PV2 BPSK	135	138	16.33	16.38	16.31	17.7	0.0	
100	PV2 BPSK	270	0	16.42	16.27	16.25			
100	QPSK	1	1	16.58	16.70	16.60			
100	QPSK	1	137	16.46	16.54	16.48	17.7	0.0	
100	QPSK	1	271	16.23	16.28	16.26			
100	QPSK	135	0	16.32	16.56	16.41			
100	QPSK	135	86	16.29	16.66	16.31	17.7	0.0	
100	QPSK	135	138	16.29	16.34	16.29			
100	QPSK	270	0	16.46	16.50	16.38			
100	16QAM	1	1	16.48	16.51	16.27	17.7	0.0	
100	64QAM	1	1	16.29	16.44	16.33	17.7	0.0	
100	256QAM	1	1	16.19	16.34	16.15	17.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.08	16.51	16.42	17.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.53	16.65	16.57	17.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.44	16.56	16.50	17.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.44	16.62	16.55	17.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.43	16.54	16.60	17.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.51	16.52	16.55	17.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.52	16.65	16.56	17.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.58	16.57	16.48	17.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.57	16.55	16.51	17.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.47	16.63	16.59	17.7	0.0	



Par27Q n77_FCC_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	633332	633332	17.7	0.0	
Frequency (MHz)				3499.98	3499.98	3499.98			
100	PV2 BPSK	1	1	16.58	16.58	16.58			
100	PV2 BPSK	1	137	16.44	16.44	16.44	17.7	0.0	17.7
100	PV2 BPSK	1	271	16.32	16.32	16.32			
100	PV2 BPSK	135	0	16.45	16.45	16.45			
100	PV2 BPSK	135	86	16.58	16.58	16.58	17.7	0.0	17.7
100	PV2 BPSK	135	138	16.43	16.43	16.43			
100	PV2 BPSK	270	0	16.38	16.38	16.38			
100	QPSK	1	1	16.65	16.65	16.65	17.7	0.0	17.7
100	QPSK	1	137	16.37	16.37	16.37			
100	QPSK	1	271	16.28	16.28	16.28			
100	QPSK	135	0	16.52	16.52	16.52	17.7	0.0	17.7
100	QPSK	135	86	16.55	16.55	16.55			
100	QPSK	135	138	16.35	16.35	16.35			
100	QPSK	270	0	16.37	16.37	16.37	17.7	0.0	17.7
100	16QAM	1	1	16.44	16.44	16.44			
100	64QAM	1	1	16.48	16.48	16.48			
100	256QAM	1	1	16.21	16.21	16.21	17.7	0.0	17.7
Channel				633000	633332	633666			
Frequency (MHz)				3495	3499.98	3504.99			
50	QPSK	1	1	16.48	16.68	16.55	17.7	0.0	17.7
Channel				632668	633332	634000			
Frequency (MHz)				3481.02	3499.98	3519			
80	QPSK	1	1	16.57	16.67	16.41	17.7	0.0	17.7
Channel				632334	633332	634332			
Frequency (MHz)				3485.01	3499.98	3514.99			
70	QPSK	1	1	16.45	16.55	16.55	17.7	0.0	17.7
Channel				632000	633332	634666			
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	16.49	16.56	16.54	17.7	0.0	17.7
Channel				631668	633332	635000			
Frequency (MHz)				3476.02	3499.98	3520			
50	QPSK	1	1	16.50	16.53	16.55	17.7	0.0	17.7
Channel				631334	633332	635332			
Frequency (MHz)				3473.01	3499.98	3520.98			
40	QPSK	1	1	16.44	16.51	16.43	17.7	0.0	17.7
Channel				631000	633332	635666			
Frequency (MHz)				3469.02	3499.98	3524.99			
30	QPSK	1	1	16.52	16.57	16.58	17.7	0.0	17.7
Channel				630668	633332	636000			
Frequency (MHz)				3465.02	3499.98	3530			
20	QPSK	1	1	16.43	16.60	16.49	17.7	0.0	17.7
Channel				630500	633332	636166			
Frequency (MHz)				3461.5	3499.98	3542.49			
15	QPSK	1	1	16.40	16.62	16.59	17.7	0.0	17.7
Channel				630334	633332	636332			
Frequency (MHz)				3455.01	3499.98	3544.98			
10	QPSK	1	1	16.50	16.64	16.41	17.7	0.0	17.7
Channel				630000	633332	636666			
Frequency (MHz)				3450	3499.98	3550			

Par27Q n77 HPUE_FCC_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	633332	633332	17.7	0.0	
Frequency (MHz)				3499.98	3499.98	3499.98			
100	PV2 BPSK	1	1	16.58	16.58	16.58			
100	PV2 BPSK	1	137	16.44	16.44	16.44	17.7	0.0	17.7
100	PV2 BPSK	1	271	16.32	16.32	16.32			
100	PV2 BPSK	135	0	16.45	16.45	16.45			
100	PV2 BPSK	135	86	16.58	16.58	16.58	17.7	0.0	17.7
100	PV2 BPSK	135	138	16.43	16.43	16.43			
100	PV2 BPSK	270	0	16.38	16.38	16.38			
100	QPSK	1	1	16.65	16.65	16.65	17.7	0.0	17.7
100	QPSK	1	137	16.37	16.37	16.37			
100	QPSK	1	271	16.28	16.28	16.28			
100	QPSK	135	0	16.52	16.52	16.52	17.7	0.0	17.7
100	QPSK	135	86	16.55	16.55	16.55			
100	QPSK	135	138	16.35	16.35	16.35			
100	QPSK	270	0	16.37	16.37	16.37	17.7	0.0	17.7
100	16QAM	1	1	16.44	16.44	16.44			
100	64QAM	1	1	16.48	16.48	16.48			
100	256QAM	1	1	16.21	16.21	16.21	17.7	0.0	17.7
Channel				633000	633332	633666			
Frequency (MHz)				3495	3499.98	3504.99			
50	QPSK	1	1	16.48	16.68	16.55	17.7	0.0	17.7
Channel				632668	633332	634000			
Frequency (MHz)				3481.02	3499.98	3519			
80	QPSK	1	1	16.57	16.67	16.41	17.7	0.0	17.7
Channel				632334	633332	634332			
Frequency (MHz)				3485.01	3499.98	3514.99			
70	QPSK	1	1	16.45	16.55	16.55	17.7	0.0	17.7
Channel				632000	633332	634666			
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	16.49	16.56	16.54	17.7	0.0	17.7
Channel				631668	633332	635000			
Frequency (MHz)				3476.02	3499.98	3520			
50	QPSK	1	1	16.50	16.53	16.55	17.7	0.0	17.7
Channel				631334	633332	635332			
Frequency (MHz)				3473.01	3499.98	3520.98			
40	QPSK	1	1	16.44	16.51	16.43	17.7	0.0	17.7
Channel				631000	633332	635666			
Frequency (MHz)				3469.02	3499.98	3524.99			
30	QPSK	1	1	16.52	16.57	16.58	17.7	0.0	17.7
Channel				630668	633332	636000			
Frequency (MHz)				3465.02	3499.98	3530			
20	QPSK	1	1	16.43	16.60	16.49	17.7	0.0	17.7
Channel				630500	633332	636166			
Frequency (MHz)				3461.5	3499.98	3542.49			
15	QPSK	1	1	16.40	16.62	16.59	17.7	0.0	17.7
Channel				630334	633332	636332			
Frequency (MHz)				3455.01	3499.98	3544.98			
10	QPSK	1	1	16.50	16.64	16.41	17.7	0.0	17.7
Channel				630000	633332	636666			
Frequency (MHz)				3450	3499.98	3550			



Par270 n77_FCC_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	17.7	0.0	
100	QPSK	1	1	16.58	16.69	16.64			
100	QPSK	1	137	16.46	16.40	16.52			
100	QPSK	1	271	16.87	16.37	16.41			
100	QPSK	137	0	16.56	16.47	16.34			
100	QPSK	137	68	16.92	16.65	16.56			
100	QPSK	137	138	16.58	16.33	16.31	17.7	0.0	
100	QPSK	273	0	16.59	16.60	16.42			
100	16QAM	1	1	16.80	16.50	16.24			
100	64QAM	1	1	16.49	16.50	16.48			
100	256QAM	1	1	16.47	16.40	16.34			
Channel				6368.00	6368.00	6373.32	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)	
90	QPSK	1	1	16.61	16.52	16.58	17.7	0.0	
Channel				6393.34	6393.34	6396.66	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)	
80	QPSK	1	1	16.68	16.61	16.62	17.7	0.0	
Channel				6400.00	6400.00	6403.32	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	16.63	16.65	16.53	17.7	0.0	
Channel				6406.68	6406.68	6413.32	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3949.98	(dBm)	(dB)	
60	QPSK	1	1	16.65	16.54	16.57	17.7	0.0	
Channel				6433.34	6433.34	6436.66	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	16.64	16.54	16.52	17.7	0.0	
Channel				6460.00	6460.00	6463.32	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	16.63	16.67	16.61	17.7	0.0	
Channel				6476.68	6476.68	6483.32	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840.00	3964.98	(dBm)	(dB)	
30	QPSK	1	1	16.67	16.63	16.60	17.7	0.0	
Channel				6473.34	6473.34	6476.66	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	16.65	16.51	16.40	17.7	0.0	
Channel				6471.68	6471.68	6478.32	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	16.68	16.61	16.52	17.7	0.0	
Channel				6470.00	6470.00	6473.32	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	16.61	16.61	16.59	17.7	0.0	

Par27Q n77_FCC_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)											
100	QPSK	1	1		16.64		17.7	0.0			
100	QPSK	1	137		16.57						
100	QPSK	1	271		16.50						
100	QPSK	137	0		16.52						
100	QPSK	137	68		16.60		17.7	0.0			
100	QPSK	137	138		16.49						
100	QPSK	273	0		16.43						
100	16QAM	1	1		16.48						
100	64QAM	1	1		16.50		17.7	0.0			
100	256QAM	1	1		16.44						
Channel											
Frequency (MHz)							6330.00	6333.32	6336.66	Tune-up limit	MPR
							3495	3499.98	3504.99	(dBm)	(dB)
90	QPSK	1	1	16.60	16.55	16.46	17.7	0.0			
Channel							6356.66	6356.66	6360.00	Tune-up limit	MPR
Frequency (MHz)							3490.02	3499.98	3510	(dBm)	(dB)
80	QPSK	1	1	16.53	16.63	16.50	17.7	0.0			
Channel							6383.32	6383.32	6386.66	Tune-up limit	MPR
Frequency (MHz)							3485.01	3499.98	3514.98	(dBm)	(dB)
70	QPSK	1	1	16.49	16.61	16.52	17.7	0.0			
Channel							6410.00	6333.32	6416.66	Tune-up limit	MPR
Frequency (MHz)							3480	3499.98	3519.99	(dBm)	(dB)
60	QPSK	1	1	16.52	16.62	16.56	17.7	0.0			
Channel							6436.68	6333.32	6443.32	Tune-up limit	MPR
Frequency (MHz)							3475.02	3499.98	3525	(dBm)	(dB)
50	QPSK	1	1	16.58	16.49	16.55	17.7	0.0			
Channel							6463.32	6333.32	6470.00	Tune-up limit	MPR
Frequency (MHz)							3470.01	3499.98	3520.98	(dBm)	(dB)
40	QPSK	1	1	16.52	16.62	16.57	17.7	0.0			
Channel							6310.00	6333.32	6356.66	Tune-up limit	MPR
Frequency (MHz)							3465	3499.98	3534.99	(dBm)	(dB)
30	QPSK	1	1	16.48	16.62	16.40	17.7	0.0			
Channel							6356.68	6333.32	6390.00	Tune-up limit	MPR
Frequency (MHz)							3460.02	3499.98	3540	(dBm)	(dB)
20	QPSK	1	1	16.45	16.67	16.50	17.7	0.0			
Channel							6350.00	6333.32	6381.66	Tune-up limit	MPR
Frequency (MHz)							3457.5	3499.98	3542.48	(dBm)	(dB)
15	QPSK	1	1	16.59	16.69	16.57	17.7	0.0			
Channel							6303.34	6333.32	6363.32	Tune-up limit	MPR
Frequency (MHz)							3455.01	3499.98	3544.98	(dBm)	(dB)
10	QPSK	1	1	16.48	16.50	16.63	17.7	0.0			



Par270 n77_FCC_ANT 13									
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	19.7	0.0	
100	PV2 BPSK	1	1	18.16	18.26	18.15			
100	PV2 BPSK	1	137	17.90	17.87	17.97			19.7
100	PV2 BPSK	1	271	17.81	17.88	17.86			
100	PV2 BPSK	135	0	18.16	18.17	18.07	19.7	0.0	
100	PV2 BPSK	135	66	17.95	18.00	17.97	19.7	0.0	
100	PV2 BPSK	135	138	17.78	17.88	17.85	19.7	0.0	
100	PV2 BPSK	270	0	18.01	18.05	17.93	19.7	0.0	
100	QPSK	1	1	18.25	18.31	18.28	19.7	0.0	
100	QPSK	1	137	17.85	18.00	17.97			
100	QPSK	1	271	17.76	17.87	17.74			
100	QPSK	135	0	18.12	18.12	18.03			
100	QPSK	135	66	18.12	18.20	18.11	19.7	0.0	
100	QPSK	135	138	17.90	18.00	17.88	19.7	0.0	
100	QPSK	270	0	17.97	18.11	17.88	19.7	0.0	
100	16QAM	1	1	18.05	18.13	17.99	19.7	0.0	
100	64QAM	1	1	18.23	18.28	18.13	19.7	0.0	
100	256QAM	1	1	18.16	18.24	18.11	19.7	0.0	
Channel				649668	659000	662332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3840	3934.98	(dBm)	(dB)	
50	QPSK	1	1	18.19	18.18	18.24	19.7	0.0	
Channel				649334	659000	662666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)	
80	QPSK	1	1	18.18	18.18	18.09	19.7	0.0	
Channel				649000	659000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	18.19	18.13	18.11	19.7	0.0	
Channel				648668	659000	663332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3840	3949.98	(dBm)	(dB)	
60	QPSK	1	1	18.20	18.21	18.22	19.7	0.0	
Channel				648334	659000	663666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	18.07	18.16	18.24	19.7	0.0	
Channel				648000	659000	664000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	18.09	18.23	18.12	19.7	0.0	
Channel				647668	659000	664332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3840.00	3964.98	(dBm)	(dB)	
30	QPSK	1	1	18.07	18.20	18.13	19.7	0.0	
Channel				647334	659000	664666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	18.05	18.14	18.17	19.7	0.0	
Channel				647168	659000	664832	Tune-up limit	MPR	
Frequency (MHz)				3737.53	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	18.11	18.24	18.18	19.7	0.0	
Channel				647000	659000	665000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	18.16	18.28	18.24	19.7	0.0	

Par270 n77 HPUE_FCC_ANT 13									
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	19.7	0.0	
100	PV2 BPSK	1	1	18.16	18.26	18.15			
100	PV2 BPSK	1	137	17.90	17.87	17.97			
100	PV2 BPSK	1	271	17.81	17.88	17.86			
100	PV2 BPSK	135	0	18.16	18.17	18.07	19.7	0.0	
100	PV2 BPSK	135	66	17.95	18.00	17.97	19.7	0.0	
100	PV2 BPSK	135	138	17.78	17.88	17.85	19.7	0.0	
100	PV2 BPSK	270	0	18.01	18.05	17.93	19.7	0.0	
100	QPSK	1	1	18.25	18.31	18.28	19.7	0.0	
100	QPSK	1	137	17.85	18.00	17.97			
100	QPSK	1	271	17.76	17.87	17.74			
100	QPSK	135	0	18.12	18.12	18.03			
100	QPSK	135	66	18.12	18.20	18.11	19.7	0.0	
100	QPSK	135	138	17.90	18.00	17.88	19.7	0.0	
100	QPSK	270	0	17.97	18.11	17.88	19.7	0.0	
100	16QAM	1	1	18.05	18.13	17.99	19.7	0.0	
100	64QAM	1	1	18.23	18.28	18.13	19.7	0.0	
100	256QAM	1	1	18.16	18.24	18.11	19.7	0.0	
Channel				649668	659000	662332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3840	3934.98	(dBm)	(dB)	
50	QPSK	1	1	18.19	18.18	18.24	19.7	0.0	
Channel				649334	659000	662666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)	
80	QPSK	1	1	18.18	18.18	18.09	19.7	0.0	
Channel				649000	659000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	18.19	18.18	18.11	19.7	0.0	
Channel				648668	659000	663332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3840	3949.98	(dBm)	(dB)	
60	QPSK	1	1	18.20	18.21	18.22	19.7	0.0	
Channel				648334	659000	663666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	18.07	18.16	18.24	19.7	0.0	
Channel				648000	659000	664000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	18.09	18.23	18.12	19.7	0.0	
Channel				647668	659000	664332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3840.00	3964.98	(dBm)	(dB)	
30	QPSK	1	1	18.07	18.20	18.13	19.7	0.0	
Channel				647334	659000	664666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	18.05	18.14	18.17	19.7	0.0	
Channel				647168	659000	664832	Tune-up limit	MPR	
Frequency (MHz)				3737.53	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	18.11	18.24	18.18	19.7	0.0	
Channel				647000	659000	665000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	18.16	18.28	18.24	19.7	0.0	



Par27Q n77_FCC_ANT 13									
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	19.7	0.0	
Frequency (MHz)				3499.98	3499.98	3499.98			
100	PV2 BPSK	1	1	18.90	18.90	18.90			
100	PV2 BPSK	1	137	18.85	18.85	18.85	19.7	0.0	19.7
100	PV2 BPSK	1	271	18.68	18.68	18.68			
100	PV2 BPSK	135	0	18.85	18.85	18.85			
100	PV2 BPSK	135	86	18.82	18.82	18.82	19.7	0.0	19.7
100	PV2 BPSK	135	138	18.70	18.70	18.70			
100	PV2 BPSK	270	0	18.75	18.75	18.75			
100	QPSK	1	1	18.92	18.92	18.92	19.7	0.0	19.7
100	QPSK	1	137	18.75	18.75	18.75			
100	QPSK	1	271	18.52	18.52	18.52			
100	QPSK	135	0	18.82	18.82	18.82	19.7	0.0	19.7
100	QPSK	135	86	18.86	18.86	18.86			
100	QPSK	135	138	18.68	18.68	18.68			
100	QPSK	270	0	18.73	18.73	18.73	19.7	0.0	19.7
100	16QAM	1	1	18.70	18.70	18.70			
100	64QAM	1	1	18.82	18.82	18.82			
100	256QAM	1	1	18.74	18.74	18.74	19.7	0.0	19.7
Channel				633000	633332	633666			
Frequency (MHz)				3499.98	3499.98	3504.99			
90	QPSK	1	1	18.94	18.72	18.71	19.7	0.0	19.7
Channel				632668	633332	634000			
Frequency (MHz)				3481.02	3499.98	3510			
80	QPSK	1	1	18.96	18.71	18.71	19.7	0.0	19.7
Channel				632334	633332	634332			
Frequency (MHz)				3486.01	3499.98	3514.98			
70	QPSK	1	1	18.93	18.77	18.80	19.7	0.0	19.7
Channel				632000	633332	634666			
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	18.77	18.73	18.85	19.7	0.0	19.7
Channel				631668	633332	635000			
Frequency (MHz)				3476.02	3499.98	3502			
50	QPSK	1	1	18.96	18.74	18.85	19.7	0.0	19.7
Channel				631334	633332	635332			
Frequency (MHz)				3470.01	3499.98	3509.98			
40	QPSK	1	1	18.76	18.76	18.81	19.7	0.0	19.7
Channel				631000	633332	635666			
Frequency (MHz)				3465	3499.98	3504.99			
30	QPSK	1	1	18.90	18.73	18.80	19.7	0.0	19.7
Channel				630668	633332	636000			
Frequency (MHz)				3460.02	3499.98	3500			
20	QPSK	1	1	18.88	18.76	18.78	19.7	0.0	19.7
Channel				630500	633332	636166			
Frequency (MHz)				3459.5	3499.98	3502.49			
15	QPSK	1	1	18.84	18.73	18.83	19.7	0.0	19.7
Channel				630334	633332	636332			
Frequency (MHz)				3455.01	3499.98	3504.98			
10	QPSK	1	1	18.80	18.84	18.75	19.7	0.0	19.7
Channel				630000	633332	636666			
Frequency (MHz)				3450	3499.98	3509.99			

Par27Q n77 HPUE_FCC_ANT 13									
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	19.7	0.0	
Frequency (MHz)				3499.98	3499.98	3499.98			
100	PV2 BPSK	1	1	18.90	18.90	18.90			
100	PV2 BPSK	1	137	18.85	18.85	18.85	19.7	0.0	19.7
100	PV2 BPSK	1	271	18.68	18.68	18.68			
100	PV2 BPSK	135	0	18.85	18.85	18.85			
100	PV2 BPSK	135	86	18.82	18.82	18.82	19.7	0.0	19.7
100	PV2 BPSK	135	138	18.70	18.70	18.70			
100	PV2 BPSK	270	0	18.75	18.75	18.75			
100	QPSK	1	1	18.92	18.92	18.92	19.7	0.0	19.7
100	QPSK	1	137	18.75	18.75	18.75			
100	QPSK	1	271	18.52	18.52	18.52			
100	QPSK	135	0	18.82	18.82	18.82	19.7	0.0	19.7
100	QPSK	135	86	18.86	18.86	18.86			
100	QPSK	135	138	18.68	18.68	18.68			
100	QPSK	270	0	18.73	18.73	18.73	19.7	0.0	19.7
100	16QAM	1	1	18.70	18.70	18.70			
100	64QAM	1	1	18.82	18.82	18.82			
100	256QAM	1	1	18.74	18.74	18.74	19.7	0.0	19.7
Channel				633000	633332	633666			
Frequency (MHz)				3499.98	3499.98	3504.99			
90	QPSK	1	1	18.94	18.72	18.71	19.7	0.0	19.7
Channel				632668	633332	634000			
Frequency (MHz)				3481.02	3499.98	3510			
80	QPSK	1	1	18.96	18.71	18.71	19.7	0.0	19.7
Channel				632334	633332	634332			
Frequency (MHz)				3486.01	3499.98	3514.98			
70	QPSK	1	1	18.93	18.77	18.80	19.7	0.0	19.7
Channel				632000	633332	634666			
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	18.77	18.73	18.85	19.7	0.0	19.7
Channel				631668	633332	635000			
Frequency (MHz)				3476.02	3499.98	3502			
50	QPSK	1	1	18.96	18.74	18.85	19.7	0.0	19.7
Channel				631334	633332	635332			
Frequency (MHz)				3470.01	3499.98	3509.98			
40	QPSK	1	1	18.76	18.76	18.81	19.7	0.0	19.7
Channel				631000	633332	635666			
Frequency (MHz)				3465	3499.98	3504.99			
30	QPSK	1	1	18.90	18.73	18.80	19.7	0.0	19.7
Channel				630668	633332	636000			
Frequency (MHz)				3460.02	3499.98	3500			
20	QPSK	1	1	18.88	18.76	18.78	19.7	0.0	19.7
Channel				630500	633332	636166			
Frequency (MHz)				3459.5	3499.98	3502.49			
15	QPSK	1	1	18.84	18.73	18.83	19.7	0.0	19.7
Channel				630334	633332	636332			
Frequency (MHz)				3455.01	3499.98	3504.98			
10	QPSK	1	1	18.80	18.84	18.75	19.7	0.0	19.7
Channel				630000	633332	636666			
Frequency (MHz)				3450	3499.98	3509.99			



Par270 n77_FCC_ANT 13									
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)				65000	66000	66000			
				3760	3840	3930			
100	QPSK	1	1	18.15	18.30	18.16	19.7	0.0	
100	QPSK	1	137	17.81	17.89	17.84			
100	QPSK	1	271	17.66	17.77	17.63			
100	QPSK	137	0	18.09	18.08	17.93			
100	QPSK	137	68	18.03	18.15	18.03			
100	QPSK	137	138	17.81	17.97	17.72	19.7	0.0	
100	QPSK	273	0	17.82	18.04	17.94			
100	16QAM	1	1	17.97	18.12	17.82			
100	64QAM	1	1	18.17	18.21	18.08			
100	256QAM	1	1	18.13	18.23	17.98			
Channel				64668	66000	66332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)	
90	QPSK	1	1	18.22	18.17	18.04	19.7	0.0	
Channel				64934	66000	66266	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)	
80	QPSK	1	1	18.18	18.10	18.06	19.7	0.0	
Channel				65000	66000	66300	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	18.22	18.25	18.18	19.7	0.0	
Channel				64668	66000	66332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3949.98	(dBm)	(dB)	
60	QPSK	1	1	18.18	18.20	18.15	19.7	0.0	
Channel				64814	66000	66366	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	18.20	18.25	18.15	19.7	0.0	
Channel				66000	66500	66400	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	18.09	18.18	18.05	19.7	0.0	
Channel				64768	66000	66432	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840.00	3964.98	(dBm)	(dB)	
30	QPSK	1	1	18.17	18.17	18.10	19.7	0.0	
Channel				64734	66000	66466	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	18.06	18.20	18.05	19.7	0.0	
Channel				64718	66000	66432	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	18.12	18.20	18.11	19.7	0.0	
Channel				64700	66000	66500	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	18.10	18.19	18.15	19.7	0.0	

Par27Q n77_FCC_ANT 13									
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)				63300	63332	63398			
100	QPSK	1	1		18.81		19.7	0.0	
100	QPSK	1	137		18.66				
100	QPSK	1	271		18.40				
100	QPSK	137	0		18.75				
100	QPSK	137	68		18.77				
100	QPSK	137	138		18.66		19.7	0.0	
100	QPSK	273	0		18.78				
100	16QAM	1	1		18.65				
100	64QAM	1	1		18.73				
100	256QAM	1	1		18.69				
Channel				633000	633302	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dbm)	(db)	
90	QPSK	1	1	18.76	18.67	18.69	19.7	0.0	
Channel				632968	633302	633600	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3499.98	3510	(dbm)	(db)	
80	QPSK	1	1	18.71	18.68	18.69	19.7	0.0	
Channel				63514	633312	633636	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dbm)	(db)	
70	QPSK	1	1	18.63	18.77	18.57	19.7	0.0	
Channel				63500	633312	633666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.99	(dbm)	(db)	
60	QPSK	1	1	18.61	18.64	18.70	19.7	0.0	
Channel				63500	633312	633666	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dbm)	(db)	
50	QPSK	1	1	18.73	18.75	18.69	19.7	0.0	
Channel				63514	633312	633636	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3520.98	(dbm)	(db)	
40	QPSK	1	1	18.71	18.63	18.74	19.7	0.0	
Channel				631000	633312	633666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dbm)	(db)	
30	QPSK	1	1	18.74	18.64	18.60	19.7	0.0	
Channel				633668	633312	633600	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dbm)	(db)	
20	QPSK	1	1	18.69	18.68	18.50	19.7	0.0	
Channel				635000	633312	633666	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3499.98	3542.48	(dbm)	(db)	
15	QPSK	1	1	18.63	18.72	18.71	19.7	0.0	
Channel				630334	633312	633636	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dbm)	(db)	
10	QPSK	1	1	18.73	18.60	18.68	19.7	0.0	



Par270 n78_FCC_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				650000	3750		17.7	0.0	
Frequency (MHz)				3750					
100	PV2 BPSK	1	1	16.40					
100	PV2 BPSK	1	137	16.30					
100	PV2 BPSK	1	271	16.29			17.7	0.0	
100	PV2 BPSK	135	0	16.36					
100	PV2 BPSK	135	66	16.51					
100	PV2 BPSK	135	136	16.27					
100	PV2 BPSK	270	0	16.09			17.7	0.0	
100	QPSK	1	1	16.66					
100	QPSK	1	137	16.47					
100	QPSK	1	271	16.20					
100	QPSK	135	0	16.37			17.7	0.0	
100	QPSK	135	66	16.52					
100	QPSK	135	136	16.19					
100	QPSK	270	0	16.43					
100	16QAM	1	1	16.38			17.7	0.0	
100	64QAM	1	1	16.32					
100	256QAM	1	1	16.25					
Channel				649668	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3750	3754.98	(dBm)	(dB)	
90	QPSK	1	1	16.30	16.40	16.30	17.7	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)	
80	QPSK	1	1	16.25	16.54	16.23	17.7	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	16.24	16.42	16.30	17.7	0.0	
Channel				648668	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3731.02	3750	3769.98	(dBm)	(dB)	
60	QPSK	1	1	16.18	16.57	16.36	17.7	0.0	
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3728.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1	16.22	16.57	16.30	17.7	0.0	
Channel				648000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3725	3750	3795	(dBm)	(dB)	
40	QPSK	1	1	16.26	16.48	16.41	17.7	0.0	
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3721.02	3750.00	3784.98	(dBm)	(dB)	
30	QPSK	1	1	16.35	16.54	16.41	17.7	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3718.01	3750	3786.99	(dBm)	(dB)	
20	QPSK	1	1	16.24	16.48	16.27	17.7	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3715	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	16.22	16.51	16.30	17.7	0.0	

Par270 n78 HPUE_FCC_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				650000	3750		17.7	0.0	
Frequency (MHz)				3750					
100	PV2 BPSK	1	1	16.40					
100	PV2 BPSK	1	137	16.30					
100	PV2 BPSK	1	271	16.29			17.7	0.0	
100	PV2 BPSK	135	0	16.36					
100	PV2 BPSK	135	66	16.51					
100	PV2 BPSK	135	136	16.27					
100	PV2 BPSK	270	0	16.09			17.7	0.0	
100	QPSK	1	1	16.66					
100	QPSK	1	137	16.47					
100	QPSK	1	271	16.20					
100	QPSK	135	0	16.37			17.7	0.0	
100	QPSK	135	66	16.52					
100	QPSK	135	136	16.19					
100	QPSK	270	0	16.43					
100	16QAM	1	1	16.38			17.7	0.0	
100	64QAM	1	1	16.32					
100	256QAM	1	1	16.25					
Channel				649668	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3750	3754.98	(dBm)	(dB)	
90	QPSK	1	1	16.30	16.40	16.30	17.7	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)	
80	QPSK	1	1	16.25	16.54	16.23	17.7	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	16.24	16.42	16.30	17.7	0.0	
Channel				648668	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3731.02	3750	3769.98	(dBm)	(dB)	
60	QPSK	1	1	16.18	16.57	16.36	17.7	0.0	
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3728.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1	16.22	16.57	16.30	17.7	0.0	
Channel				648000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3725	3750	3795	(dBm)	(dB)	
40	QPSK	1	1	16.26	16.48	16.41	17.7	0.0	
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3721.02	3750.00	3784.98	(dBm)	(dB)	
30	QPSK	1	1	16.35	16.54	16.41	17.7	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3718.01	3750	3786.99	(dBm)	(dB)	
20	QPSK	1	1	16.24	16.48	16.27	17.7	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3715	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	16.22	16.51	16.30	17.7	0.0	



Par27Q n78_FCC_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	633332	633332	17.7	0.0	
Frequency (MHz)				3499.98	3499.98	3499.98			
100	PV2 BPSK	1	1	16.44	16.44	16.44			
100	PV2 BPSK	1	137	16.41	16.41	16.41			
100	PV2 BPSK	1	271	16.19	16.19	16.19	17.7	0.0	
100	PV2 BPSK	135	0	16.38	16.38	16.38			
100	PV2 BPSK	135	86	16.56	16.56	16.56			
100	PV2 BPSK	135	138	16.41	16.41	16.41			
100	PV2 BPSK	270	0	16.23	16.23	16.23	17.7	0.0	
100	QPSK	1	1	16.61	16.61	16.61			
100	QPSK	1	137	16.37	16.37	16.37			
100	QPSK	1	271	16.23	16.23	16.23			
100	QPSK	135	0	16.52	16.52	16.52	17.7	0.0	
100	QPSK	135	86	16.55	16.55	16.55			
100	QPSK	135	138	16.23	16.23	16.23			
100	QPSK	270	0	16.19	16.19	16.19			
100	16QAM	1	1	16.41	16.41	16.41	17.7	0.0	
100	64QAM	1	1	16.38	16.38	16.38			
100	256QAM	1	1	16.63	16.63	16.63			
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3499.98	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	16.46	16.59	16.32	17.7	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3481.02	3499.98	3510	(dBm)	(dB)	
80	QPSK	1	1	16.47	16.59	16.31	17.7	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3486.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	16.53	16.43	16.30	17.7	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)	
60	QPSK	1	1	16.39	16.41	16.43	17.7	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3502	(dBm)	(dB)	
50	QPSK	1	1	16.58	16.59	16.27	17.7	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3509.98	(dBm)	(dB)	
40	QPSK	1	1	16.44	16.51	16.24	17.7	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3504.99	(dBm)	(dB)	
30	QPSK	1	1	16.40	16.43	16.31	17.7	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3501	(dBm)	(dB)	
20	QPSK	1	1	16.56	16.44	16.35	17.7	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3444.98	(dBm)	(dB)	
10	QPSK	1	1	16.48	16.53	16.36	17.7	0.0	

Par27Q n78 HPUE_FCC_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	633332	633332	17.7	0.0	
Frequency (MHz)				3499.98	3499.98	3499.98			
100	PV2 BPSK	1	1	16.44	16.44	16.44			
100	PV2 BPSK	1	137	16.41	16.41	16.41			
100	PV2 BPSK	1	271	16.19	16.19	16.19	17.7	0.0	
100	PV2 BPSK	135	0	16.38	16.38	16.38			
100	PV2 BPSK	135	86	16.56	16.56	16.56			
100	PV2 BPSK	135	138	16.41	16.41	16.41			
100	PV2 BPSK	270	0	16.23	16.23	16.23	17.7	0.0	
100	QPSK	1	1	16.61	16.61	16.61			
100	QPSK	1	137	16.37	16.37	16.37			
100	QPSK	1	271	16.23	16.23	16.23			
100	QPSK	135	0	16.52	16.52	16.52	17.7	0.0	
100	QPSK	135	86	16.55	16.55	16.55			
100	QPSK	135	138	16.23	16.23	16.23			
100	QPSK	270	0	16.19	16.19	16.19			
100	16QAM	1	1	16.41	16.41	16.41	17.7	0.0	
100	64QAM	1	1	16.38	16.38	16.38			
100	256QAM	1	1	16.63	16.63	16.63			
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3499.98	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	16.46	16.59	16.32	17.7	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3481.02	3499.98	3510	(dBm)	(dB)	
80	QPSK	1	1	16.47	16.59	16.31	17.7	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3486.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	16.53	16.43	16.30	17.7	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)	
60	QPSK	1	1	16.39	16.41	16.43	17.7	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3502	(dBm)	(dB)	
50	QPSK	1	1	16.58	16.59	16.27	17.7	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3509.98	(dBm)	(dB)	
40	QPSK	1	1	16.44	16.51	16.24	17.7	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3504.99	(dBm)	(dB)	
30	QPSK	1	1	16.40	16.43	16.31	17.7	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3501	(dBm)	(dB)	
20	QPSK	1	1	16.56	16.44	16.35	17.7	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3444.98	(dBm)	(dB)	
10	QPSK	1	1	16.48	16.53	16.36	17.7	0.0	



Par270 n78_FCC_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				650000			17.7	0.0	
Frequency (MHz)				3750					
100	QPSK	1	1	16.56					
100	QPSK	1	137	16.31					
100	QPSK	1	271	16.27					
100	QPSK	137	0	16.42			17.7	0.0	
100	QPSK	137	66	16.50					
100	QPSK	137	138	16.44					
100	QPSK	273	0	16.45					
100	8QAM	1	1	16.30			17.7	0.0	
100	8QAM	1	1	16.39			17.7	0.0	
100	256QAM	1	1	16.40			17.7	0.0	
Channel				649968	650032		Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3754.98			
90	QPSK	1	1	16.49		16.51	17.7	0.0	
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3759.99			
80	QPSK	1	1	16.45		16.54	17.7	0.0	
Channel				649200	650000	650800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	16.48		16.52	17.7	0.0	
Channel				648568	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3769.98			
60	QPSK	1	1	16.52		16.48	17.7	0.0	
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1	16.45		16.55	17.7	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	16.43		16.40	17.7	0.0	
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3716.02	3750.00	3784.98			
30	QPSK	1	1	16.40		16.39	17.7	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3789.99			
20	QPSK	1	1	16.45		16.43	17.7	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	16.53		16.47	16.39	17.7	0.0

Par27Q n78_FCC_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				633000			17.7	0.0	
Frequency (MHz)				3499.98					
100	QPSK	1	1	16.56					
100	QPSK	1	137	16.31					
100	QPSK	1	271	16.27					
100	QPSK	137	0	16.42			17.7	0.0	
100	QPSK	137	66	16.50					
100	QPSK	137	138	16.44					
100	QPSK	273	0	16.45					
100	8QAM	1	1	16.30			17.7	0.0	
100	8QAM	1	1	16.39			17.7	0.0	
100	256QAM	1	1	16.40			17.7	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1	16.39		16.44	16.35	17.7	0.0
Channel				632666	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3519			
80	QPSK	1	1	16.37		16.49	16.40	17.7	0.0
Channel				632332	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	16.43		16.51	16.45	17.7	0.0
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	16.49		16.50	16.44	17.7	0.0
Channel				631666	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	16.40		16.35	16.35	17.7	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	16.39		16.35	16.35	17.7	0.0
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1	16.44		16.53	16.53	17.7	0.0
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	16.37		16.42	16.42	17.7	0.0
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3499.98	3544.98			
10	QPSK	1	1	16.48		16.49	16.32	17.7	0.0



Par270 n78_FCC_ANT 13									
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			19.7	0.0	
Frequency (MHz)				3750					
100	PV2 BPSK	1	1	18.18					
100	PV2 BPSK	1	137	18.17					
100	PV2 BPSK	1	271	18.18			19.7	0.0	
100	PV2 BPSK	135	0	18.09					
100	PV2 BPSK	135	86	18.04					
100	PV2 BPSK	135	138	18.13					
100	PV2 BPSK	270	0	18.12			19.7	0.0	
100	QPSK	1	1	18.20					
100	QPSK	1	137	18.15					
100	QPSK	1	271	18.03			19.7	0.0	
100	QPSK	135	0	18.13					
100	QPSK	135	86	18.15					
100	QPSK	135	138	18.08			19.7	0.0	
100	QPSK	270	0	18.08					
100	16QAM	1	1	18.17					
100	64QAM	1	1	18.18					
100	256QAM	1	1	18.06					
Channel				849668	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3750	3756.98	(dBm)	(dB)	
90	QPSK	1	1	18.08		18.12	19.7	0.0	
Channel				849334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)	
80	QPSK	1	1	18.08		18.07	19.7	0.0	
Channel				849000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	18.13		18.02	19.7	0.0	
Channel				848668	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3750	3756.98	(dBm)	(dB)	
60	QPSK	1	1	18.09		18.08	19.7	0.0	
Channel				848334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)	
50	QPSK	1	1	18.00		17.99	19.7	0.0	
Channel				848000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
40	QPSK	1	1	18.03		18.10	19.7	0.0	
Channel				847668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3750.00	3754.98	(dBm)	(dB)	
30	QPSK	1	1	18.08		18.05	19.7	0.0	
Channel				847334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)	
20	QPSK	1	1	18.07		18.13	19.7	0.0	
Channel				847000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
10	QPSK	1	1	18.13		18.07	19.7	0.0	

Par270 n78 HPUE_FCC_ANT 13									
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			19.7	0.0	
Frequency (MHz)				3750					
100	PV2 BPSK	1	1	18.18					
100	PV2 BPSK	1	137	18.17					
100	PV2 BPSK	1	271	18.18			19.7	0.0	
100	PV2 BPSK	135	0	18.09					
100	PV2 BPSK	135	86	18.04					
100	PV2 BPSK	135	138	18.13					
100	PV2 BPSK	270	0	18.12			19.7	0.0	
100	QPSK	1	1	18.20					
100	QPSK	1	137	18.15					
100	QPSK	1	271	18.03			19.7	0.0	
100	QPSK	135	0	18.13					
100	QPSK	135	86	18.15					
100	QPSK	135	138	18.08			19.7	0.0	
100	QPSK	270	0	18.08					
100	16QAM	1	1	18.17					
100	64QAM	1	1	18.18					
100	256QAM	1	1	18.06					
Channel				849668	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3750	3756.98	(dBm)	(dB)	
90	QPSK	1	1	18.08		18.12	19.7	0.0	
Channel				849334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)	
80	QPSK	1	1	18.08		18.07	19.7	0.0	
Channel				849000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	18.13		18.02	19.7	0.0	
Channel				848668	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3750	3756.98	(dBm)	(dB)	
60	QPSK	1	1	18.09		18.08	19.7	0.0	
Channel				848334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)	
50	QPSK	1	1	18.00		17.99	19.7	0.0	
Channel				848000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
40	QPSK	1	1	18.03		18.10	19.7	0.0	
Channel				847668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3743.01	3750.00	3754.99	(dBm)	(dB)	
30	QPSK	1	1	18.08		18.05	19.7	0.0	
Channel				847334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)	
20	QPSK	1	1	18.07		17.98	19.7	0.0	
Channel				847000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
10	QPSK	1	1	18.13		18.07	19.7	0.0	



Par27Q n78_FCC_ANT 13									
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	19.7	0.0	
Frequency (MHz)				3499.98	3499.98	3499.98			
100	PV2 BPSK	1	1	18.45	18.45	18.45			
100	PV2 BPSK	1	137	18.24	18.24	18.24			
100	PV2 BPSK	1	271	18.37	18.37	18.37	19.7	0.0	
100	PV2 BPSK	135	0	18.28	18.28	18.28			
100	PV2 BPSK	135	86	18.29	18.29	18.29			
100	PV2 BPSK	135	138	18.37	18.37	18.37			
100	PV2 BPSK	270	0	18.31	18.31	18.31	19.7	0.0	
100	QPSK	1	1	18.51	18.51	18.51			
100	QPSK	1	137	18.28	18.28	18.28			
100	QPSK	1	271	18.38	18.38	18.38	19.7	0.0	
100	QPSK	135	0	18.34	18.34	18.34			
100	QPSK	135	86	18.42	18.42	18.42			
100	QPSK	135	138	18.38	18.38	18.38			
100	QPSK	270	0	18.35	18.35	18.35	19.7	0.0	
100	16QAM	1	1	18.20	18.20	18.20			
100	64QAM	1	1	18.42	18.42	18.42			
100	256QAM	1	1	18.19	18.19	18.19			
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3499.98	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	18.31	18.27	18.23	19.7	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3483.02	3499.98	3516.94	(dBm)	(dB)	
80	QPSK	1	1	18.44	18.27	18.41	19.7	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	18.33	18.27	18.33	19.7	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)	
60	QPSK	1	1	18.37	18.39	18.39	19.7	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3478.02	3499.98	3522	(dBm)	(dB)	
50	QPSK	1	1	18.41	18.41	18.41	19.7	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3473.01	3499.98	3528.98	(dBm)	(dB)	
40	QPSK	1	1	18.42	18.33	18.29	19.7	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	18.39	18.42	18.36	19.7	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1	18.36	18.42	18.40	19.7	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1	18.38	18.33	18.39	19.7	0.0	

Par27Q n78 HPUE_FCC_ANT 13									
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	19.7	0.0	
Frequency (MHz)				3499.98	3499.98	3499.98			
100	PV2 BPSK	1	1	18.45	18.45	18.45			
100	PV2 BPSK	1	137	18.24	18.24	18.24			
100	PV2 BPSK	1	271	18.37	18.37	18.37	19.7	0.0	
100	PV2 BPSK	135	0	18.28	18.28	18.28			
100	PV2 BPSK	135	86	18.29	18.29	18.29			
100	PV2 BPSK	135	138	18.37	18.37	18.37			
100	PV2 BPSK	270	0	18.31	18.31	18.31	19.7	0.0	
100	QPSK	1	1	18.51	18.51	18.51			
100	QPSK	1	137	18.28	18.28	18.28			
100	QPSK	1	271	18.38	18.38	18.38	19.7	0.0	
100	QPSK	135	0	18.34	18.34	18.34			
100	QPSK	135	86	18.42	18.42	18.42			
100	QPSK	135	138	18.38	18.38	18.38			
100	QPSK	270	0	18.35	18.35	18.35	19.7	0.0	
100	16QAM	1	1	18.20	18.20	18.20			
100	64QAM	1	1	18.42	18.42	18.42			
100	256QAM	1	1	18.19	18.19	18.19			
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3499.98	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	18.31	18.27	18.23	19.7	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3483.02	3499.98	3516.94	(dBm)	(dB)	
80	QPSK	1	1	18.44	18.27	18.41	19.7	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	18.33	18.27	18.33	19.7	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)	
60	QPSK	1	1	18.37	18.39	18.39	19.7	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3478.02	3499.98	3522	(dBm)	(dB)	
50	QPSK	1	1	18.37	18.41	18.41	19.7	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3473.01	3499.98	3528.98	(dBm)	(dB)	
40	QPSK	1	1	18.42	18.33	18.29	19.7	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	18.39	18.42	18.36	19.7	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1	18.36	18.42	18.40	19.7	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1	18.38	18.33	18.39	19.7	0.0	



Par270 n78_FCC_ANT 13											
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)				650000		3750					
100	QPSK	1	1	18.18				19.7	0.0		
100	QPSK	1	137	18.00							
100	QPSK	1	271	17.98							
100	QPSK	137	0	18.12							
100	QPSK	137	68	18.15				19.7	0.0		
100	QPSK	137	138	17.95							
100	QPSK	273	0	18.00							
100	16QAM	1	1	18.13							
100	64QAM	1	1	17.99				19.7	0.0		
100	256QAM	1	1	18.03							
Channel				649968	650000	650332	Tune-up limit				
Frequency (MHz)				3745.02	3750	3754.98	(dbm)				
90	QPSK	1	1	18.07		17.93	18.08	19.7	0.0		
Channel				649354	650000	650666	Tune-up limit		MPR		
Frequency (MHz)				3742.01	3750	3759.99	(dbm)		(db)		
80	QPSK	1	1	18.01		17.99	17.96	19.7	0.0		
Channel				649000	650000	651000	Tune-up limit		MPR		
Frequency (MHz)				3735	3750	3765	(dbm)		(db)		
70	QPSK	1	1	18.15		18.07	18.03	19.7	0.0		
Channel				648668	650000	651332	Tune-up limit		MPR		
Frequency (MHz)				3732.02	3750	3769.98	(dbm)		(db)		
60	QPSK	1	1	18.09		18.13	18.13	19.7	0.0		
Channel				648353	650000	651666	Tune-up limit		MPR		
Frequency (MHz)				3725.01	3750	3774.99	(dbm)		(db)		
50	QPSK	1	1	18.00		18.07	17.97	19.7	0.0		
Channel				648000	650000	652000	Tune-up limit		MPR		
Frequency (MHz)				3720	3750	3780	(dbm)		(db)		
40	QPSK	1	1	18.01		18.07	17.98	19.7	0.0		
Channel				647688	650000	652332	Tune-up limit		MPR		
Frequency (MHz)				3716.02	3750.00	3784.98	(dbm)		(db)		
30	QPSK	1	1	18.15		18.00	18.04	19.7	0.0		
Channel				647334	650000	652666	Tune-up limit		MPR		
Frequency (MHz)				3710.01	3750	3799.99	(dbm)		(db)		
20	QPSK	1	1	18.14		18.01	17.95	19.7	0.0		
Channel				647000	650000	653000	Tune-up limit		MPR		
Frequency (MHz)				3705	3750	3795	(dbm)		(db)		
10	QPSK	1	1	18.08		18.15	18.13	19.7	0.0		

Par27Q n78_FCC_ANT 13											
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)				633000	633332	633666	Tune-up limit				
100	QPSK	1	1	3495	3499.98	3504.99	(dbm)	MPR			
100	QPSK	1	137	18.33	18.35	18.34	19.7	19.7	0.0		
100	QPSK	1	271	18.22	18.271						
100	QPSK	137	0	18.25							
100	QPSK	137	68	18.30							
100	QPSK	137	138	18.20				19.7	0.0		
100	QPSK	273	0	18.18							
100	16QAM	1	1	18.18							
100	64QAM	1	1	18.37							
100	256QAM	1	1	18.02				19.7	0.0		
Channel											
Frequency (MHz)				633000	633332	633666	Tune-up limit				
90	QPSK	1	1	3495	3499.98	3504.99	(dbm)	MPR			
90	QPSK	1	1	18.33	18.35	18.34	19.7	19.7	0.0		
Channel				632660	633332	634000	Tune-up limit				
Frequency (MHz)				3489.02	3499.98	3510	(dbm)			MPR	
80	QPSK	1	1	18.27	18.34	18.29	19.7			19.7	0.0
Channel				632334	633332	634332	Tune-up limit				
Frequency (MHz)				3485.01	3499.98	3514.98	(dbm)	MPR			
70	QPSK	1	1	18.34	18.40	18.24	19.7	19.7	0.0		
Channel				632000	633332	634666	Tune-up limit				
Frequency (MHz)				3480	3499.98	3519.99	(dbm)			MPR	
60	QPSK	1	1	18.37	18.35	18.29	19.7			19.7	0.0
Channel				631668	633332	635000	Tune-up limit				
Frequency (MHz)				3475.02	3499.98	3525	(dbm)	MPR			
50	QPSK	1	1	18.40	18.30	18.35	19.7	19.7	0.0		
Channel				631334	633332	635332	Tune-up limit				
Frequency (MHz)				3470.01	3499.98	3529.98	(dbm)			MPR	
40	QPSK	1	1	18.30	18.28	18.19	19.7			19.7	0.0
Channel				631000	633332	635666	Tune-up limit				
Frequency (MHz)				3465	3499.98	3534.99	(dbm)	MPR			
30	QPSK	1	1	18.25	18.34	18.31	19.7	19.7	0.0		
Channel				630668	633332	636000	Tune-up limit				
Frequency (MHz)				3460.02	3499.98	3540	(dbm)			MPR	
20	QPSK	1	1	18.39	18.27	18.20	19.7			19.7	0.0
Channel				630334	633332	636332	Tune-up limit				
Frequency (MHz)				3455.01	3499.98	3544.98	(dbm)	MPR			
10	QPSK	1	1	18.31	18.31	18.23	19.7	19.7	0.0		

Reduced Power Mode for DSI2&7&12

GSM650_Ant 1		Burst Average Power (dBm)			Tune-up		Frame Average Power (dBm)			Tune-up	
TX Channel		128	168	251	Limit		128	168	251	Limit	
Frequency (MHz)		854.2	858.4	868.6	(dBm)		854.2	858.4	868.6	(dBm)	
GSM 1 Tx slot		33.30	33.33	33.29	34.00		24.30	24.33	24.29	25.00	
GPRS/EDGE(GMSK) 1 Tx slot		33.24	33.22	33.20	34.00		24.24	24.22	24.20	25.00	
GPRS/EDGE(GMSK) 2 Tx slots		29.80	29.85	29.77	31.00		23.80	23.85	23.77	25.00	
GPRS/EDGE(GMSK) 3 Tx slots		27.86	28.00	27.90	29.20		23.60	23.74	23.64	24.94	
GPRS/EDGE(GMSK) 4 Tx slots		26.89	27.00	26.82	28.50		23.69	24.00	23.92	25.50	
EDGE 1 Tx slot		26.71	26.59	26.57	28.00		17.71	17.59	17.67	19.00	
EDGE 2 Tx slots		23.72	23.51	23.79	25.00		17.72	17.51	17.79	19.00	
EDGE 3 Tx slots		21.83	21.70	21.77	23.20		17.57	17.44	17.51	18.94	
EDGE 4 Tx slots		20.91	20.80	20.74	22.50		17.81	17.80	17.74	19.50	
DTM Multi-slot	GSM 1 Tx slot	29.70	29.84	29.72	31.00		23.64	23.77	23.66	24.98	
	GPRS 1 Tx slot	29.63	29.75	29.64	31.00						
DTM Multi-slot class 5		29.82	29.82	29.82	31.00		23.76	23.76	23.68	24.98	
class 9		29.74	29.75	29.77	31.00						
DTM Multi-slot class 11	GSM 1 Tx slot	27.65	28.04	27.87	29.20		23.70	23.81	23.68	24.94	
	GPRS 2 Tx slots	27.96	28.09	27.92	29.20						
DTM Multi-slot class 5	GSM 1 Tx slot	26.89	26.87	26.79	31.00		21.73	21.68	21.69	22.94	
	EDGE 1 Tx slot	23.38	23.15	23.55	25.00						
DTM Multi-slot class 9	GSM 1 Tx slot	29.83	29.79	29.74	31.00		21.68	21.63	21.64	22.94	
	EDGE 1 Tx slot	26.36	26.25	26.53	25.00						
DTM Multi-slot class 11	GSM 1 Tx slot	27.87	28.05	28.00	29.20		20.52	20.58	20.57	21.94	
	EDGE 2 Tx slots	21.60	21.40	21.49	23.20						

<WCDMA State1>

Band		WCDMA_V_Ant 1			Tune-up	
TX Channel		4132	4182	4233	Limit	
Rx Channel		4337	4407	4458	(dBm)	
Frequency (MHz)		862.4	868.4	876.6		
3GPP Rel 99		24.02	24.00	23.99	24.80	
3GPP Rel 99		24.03	24.10	24.06	24.80	
3GPP Rel 6		23.26	23.19	23.11	23.80	
3GPP Rel 6		23.29	23.15	23.14	23.80	
3GPP Rel 6		22.78	22.70	22.61	23.30	
3GPP Rel 6		22.75	22.71	22.59	23.30	
3GPP Rel 6		23.25	23.20	23.10	23.80	
3GPP Rel 6		23.15	23.07	23.13	23.80	
3GPP Rel 6		22.75	22.77	22.69	23.30	
3GPP Rel 6		22.63	22.60	22.53	23.30	
3GPP Rel 6		23.21	23.20	23.15	23.80	
3GPP Rel 6		21.21	21.18	21.09	21.80	
3GPP Rel 6		22.20	22.23	22.12	22.80	
3GPP Rel 6		21.22	21.19	21.11	21.80	
3GPP Rel 6		23.30	23.20	23.10	23.80	
3GPP Rel 7		21.52	21.50	21.55	21.80	

Band 5_Ant 1

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				25000	25025	25050		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	23.88	23.01	23.84	24.8	0
10	QPSK	1	25	23.87	23.95	23.80		
10	QPSK	1	49	23.85	23.87	23.75		
10	QPSK	25	0	22.98	23.01	23.01	23.8	1
10	QPSK	25	12	22.90	23.02	22.98		
10	QPSK	25	25	22.93	23.03	22.88		
10	QPSK	50	0	22.85	23.01	22.90	22.8	2
10	16QAM	1	0	23.38	23.38	23.37		
10	16QAM	1	25	23.34	23.35	23.12		
10	16QAM	1	49	23.36	23.40	23.18	22.8	2
10	16QAM	25	0	21.93	21.98	21.86		
10	16QAM	25	12	21.91	22.05	21.94		
10	16QAM	25	25	21.94	22.00	21.87	22.8	2
10	16QAM	50	0	21.89	22.00	21.92		
10	8QAM	1	0	22.16	22.35	22.13		
10	8QAM	1	25	22.29	22.23	22.10	22.8	2
10	8QAM	1	49	22.10	22.14	22.18		
10	8QAM	25	0	20.90	20.97	20.95		
10	8QAM	25	12	20.90	21.08	20.92	21.8	3
10	8QAM	25	25	20.94	20.97	20.90		
10	8QAM	50	0	20.89	20.99	20.89		
10	256QAM	1	0	19.03	19.05	18.87	19.8	5
10	256QAM	1	25	18.91	19.00	18.85		
10	256QAM	1	49	18.84	18.95	18.79		
10	256QAM	25	0	18.88	19.02	18.87	19.8	5
10	256QAM	25	12	18.90	18.92	18.83		
10	256QAM	25	25	18.95	18.98	18.88		
10	256QAM	50	0	18.85	18.93	18.83	Tune-up limit (dBm)	MPR (dB)
Channel				25050	25075	25100		
Frequency (MHz)				836.5	836.5	844.5		
5	QPSK	1	0	23.92	23.89	23.76	24.8	0
5	QPSK	1	12	23.92	23.92	23.85		
5	QPSK	1	24	23.89	23.80	23.73		
5	QPSK	12	0	22.95	22.87	22.76	23.8	1
5	QPSK	12	7	23.05	22.96	22.86		
5	QPSK	12	13	23.00	22.91	22.81		
5	16QAM	25	0	22.99	22.95	22.75	22.8	1
5	16QAM	1	0	23.29	23.18	23.23		
5	16QAM	1	12	23.45	23.39	23.29		
5	16QAM	1	24	23.12	23.21	23.05	22.8	2
5	16QAM	12	0	21.99	21.91	21.81		
5	16QAM	12	7	22.06	22.01	21.94		
5	16QAM	12	13	22.05	21.93	21.85	22.8	2
5	16QAM	25	0	22.04	21.89	21.73		
5	8QAM	1	0	22.20	22.16	22.11	22.8	2
5	8QAM	1	12	22.37	22.09	22.16		
5	8QAM	1	24	22.19	22.19	22.04		
5	8QAM	12	0	20.97	20.91	20.80	21.8	3
5	8QAM	12	7	21.08	21.01	20.91		
5	8QAM	12	13	21.08	20.98	20.87		
5	8QAM	25	0	21.04	20.95	20.76	19.8	5
5	256QAM	1	0	19.01	18.92	18.75		
5	256QAM	1	12	18.89	18.90	18.85		
5	256QAM	1	24	18.74	18.80	18.62	19.8	5
5	256QAM	12	0	18.84	18.85	18.83		
5	256QAM	12	7	18.72	18.82	18.70		
5	256QAM	12	13	18.75	18.85	18.68	Tune-up limit (dBm)	MPR (dB)
5	256QAM	25	0	18.67	18.93	18.77		
Channel				25075	25075	25075		
Frequency (MHz)				844.5	844.5	844.5		
3	QPSK	1	0	23.90	23.78	23.76	24.8	0
3	QPSK	1	8	23.91	23.86	23.80		
3	QPSK	1	14	23.89	23.80	23.67		
3	QPSK	8	0	23.04	22.87	22.76	23.8	1
3	QPSK	8	4	23.07	22.98	22.81		
3	QPSK	8	7	23.03	22.92	22.84		
3	QPSK	15	0	23.01	22.83	22.76	23.8	1
3	16QAM	1	0	23.30	23.23	23.15		
3	16QAM	1	8	23.44	23.40	23.21		
3	16QAM	1	14	23.31	23.15	23.16	22.8	2
3	16QAM	8	0	22.13	21.84	21.81		
3	16QAM	8	4	22.17	22.03	21.87		
3	16QAM	8	7	22.12	22.02	21.86	22.8	2
3	16QAM	15	0	22.06	21.87	21.77		
3	8QAM	1	0	22.26	22.05	22.00		
3	8QAM	1	8	22.28	22.04	22.10	21.8	3
3	8QAM	1	14	22.13	22.18	21.88		
3	8QAM	8	0	21.08	20.87	20.76		
3	8QAM	8	4	21.08	21.07	20.84	19.8	5
3	8QAM	8	7	21.06	21.00	20.91		
3	8QAM	15	0	21.04	20.90	20.78		
3	256QAM	1	0	18.88	19.05	18.70	19.8	5
3	256QAM	1	8	18.85	18.85	18.67		
3	256QAM	1	14	18.71	18.83	18.63		
3	256QAM	8	0	18.72	18.86	18.91	Tune-up limit (dBm)	MPR (dB)
3	256QAM	8	4	18.78	18.82	18.89		
3	256QAM	8	7	18.76	18.86	18.77		
Channel				25097	25075	25043		
Frequency (MHz)				854.7	856.5	858.3		
1.4	QPSK	1	0	23.87	23.83	23.70	24.8	0
1.4	QPSK	1	3	23.97	23.81	23.78		
1.4	QPSK	1	5	23.95	23.87	23.75		
1.4	QPSK	3	0	23.93	23.90	23.79	23.8	1
1.4	QPSK	3	1	23.98	23.88	23.80		
1.4	QPSK	3	3	23.93	23.90	23.76		
1.4	QPSK	6	0	21.98	21.82	21.83	22.8	2
1.4	QPSK	6	1	23.36	23.37	23.13		
1.4	16QAM	1	3	23.37	23.35	23.15		
1.4	16QAM	1	5	23.50	23.32	23.08	23.8	1
1.4	16QAM	1	7	23.21	23.08	23.02		
1.4	16QAM	3	1	23.17	23.10	22.92		
1.4	16QAM	3	3	23.23	23.04	22.96	22.8	2
1.4	16QAM	6	0	22.01	21.91	21.87		
1.4	8QAM	1	0	22.21	22.15	21.99		
1.4	8QAM	1	3	22.19	22.17	22.08	22.8	2
1.4	8QAM	1	5	22.15	22.12	21.88		
1.4	8QAM	3	0	22.11	21.99	21.96		
1.4	8QAM	3	1	22.15	22.03	21.97	21.8	3
1.4	8QAM	3	3	22.17	22.03	21.92		
1.4	8QAM	6	0	21.91	20.86	20.86		
1.4	256QAM	1	0	19.00	19.02	18.80	19.8	5
1.4	256QAM	1	3	18.84	18.94	18.89		
1.4	256QAM	1	5	18.70	18.92	18.70		
1.4	256QAM	3	0	18.81	18.85	18.84	Tune-up limit (dBm)	MPR (dB)
1.4	256QAM	3	1	18.75	18.84	18.76		
1.4	256QAM	3	3	18.89	18.86	18.77		
1.4	256QAM	6	0	18.77	18.74	18.66		

Band 12_Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				23000	23025	23130		
Frequency (MHz)				704	707.5	711.5		
10	QPSK	1	0	23.94	24.00	23.87	24.8	0
10	QPSK	1	25	23.90	23.90	23.81		
10	QPSK	1	49	23.92	23.88	23.86		
10	QPSK	25	0	22.95	23.01	22.93	23.8	1
10	QPSK	25	12	22.89	22.96	22.92		
10	QPSK	25	25	22.93	23.00	22.90		
10	QPSK	50	0	22.94	23.00	22.89	23.8	1
10	16QAM	1	0	23.22	23.28	23.18		
10	16QAM	1	25	23.23	23.28	23.23		
10	16QAM	1	49	23.23	23.22	23.23	22.8	2
10	16QAM	25	0	21.88	21.93	21.88		
10	16QAM	25	12	22.02	22.02	22.00		
10	16QAM	25	25	22.03	22.03	22.00	22.8	2
10	16QAM	50	0	21.88	21.99	21.81		
10	8QAM	1	0	22.11	22.17	21.94		
10	8QAM	1	25	22.09	22.28	22.27	22.8	2
10	8QAM	1	49	22.14	22.30	22.22		
10	8QAM	25	0	20.92	20.93	20.87		
10	8QAM	25	12	20.98	21.00	20.92	21.8	3
10	8QAM	25	25	20.99	21.01	20.99		
10	8QAM	50	0	20.97	21.01	20.86		
10	256QAM	1	1	18.92	19.02	18.84	19.8	5
10	256QAM	1	25	18.78	18.95	18.95		
10	256QAM	1	49	18.82	18.90	18.90		
10	256QAM	25	0	18.83	18.88	18.84	19.8	5
10	256QAM	25	12	18.86	18.85	18.85		
10	256QAM	25	25	18.80	18.93	18.92		
10	256QAM	50	0	18.84	18.84	18.88		
Channel				23035	23059	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				715.5	717.5	721.5		
5	QPSK	1	0	23.19	23.85	23.82	24.8	0
5	QPSK	1	12	23.44	23.83	23.90		
5	QPSK	1	24	23.80	23.83	23.87		
5	QPSK	12	0	22.83	22.87	22.87	23.8	1
5	QPSK	12	7	22.85	22.96	23.00		
5	QPSK	12	12	22.92	22.94	22.92		
5	QPSK	25	0	22.90	22.95	22.89	23.8	1
5	16QAM	1	0	23.19	23.16	23.16		
5	16QAM	1	12	23.20	23.18	23.28		
5	16QAM	1	24	23.19	23.13	23.27	22.8	2
5	16QAM	12	0	21.86	21.92	21.86		
5	16QAM	12	7	22.01	22.05	22.04		
5	16QAM	12	13	21.86	22.00	22.01	22.8	2
5	16QAM	25	0	21.81	21.85	21.88		
5	8QAM	1	0	21.95	22.05	22.13		
5	8QAM	1	12	22.11	22.18	22.21	22.8	2
5	8QAM	1	24	22.14	22.11	22.05		
5	8QAM	12	0	20.86	20.88	20.80		
5	8QAM	12	7	20.98	21.01	21.04	21.8	3
5	8QAM	12	13	20.98	20.96	20.96		
5	8QAM	25	0	20.92	20.87	20.91		
5	256QAM	1	1	18.78	18.88	18.73	19.8	5
5	256QAM	1	12	18.67	18.92	18.79		
5	256QAM	1	24	18.65	18.82	18.84		
5	256QAM	12	0	18.81	18.74	18.74	19.8	5
5	256QAM	12	7	18.82	18.82	18.75		
5	256QAM	12	13	18.85	18.75	18.74		
5	256QAM	25	0	18.79	18.88	18.80		
Channel				23065	23090	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				726.5	729.5	733.5		
3	QPSK	1	0	23.19	23.76	23.80	24.8	0
3	QPSK	1	8	23.40	23.88	23.89		
3	QPSK	1	14	23.78	23.78	23.85		
3	QPSK	8	0	22.81	22.83	22.88	23.8	1
3	QPSK	8	4	22.93	22.94	22.91		
3	QPSK	8	7	22.94	22.97	22.96		
3	QPSK	15	0	22.81	22.92	22.88	22.8	1
3	16QAM	1	0	23.14	23.20	23.20		
3	16QAM	1	8	23.28	23.20	23.20		
3	16QAM	1	14	23.19	23.18	23.21	23.8	1
3	16QAM	8	0	22.92	22.97	22.92		
3	16QAM	8	4	22.93	22.92	22.98		
3	16QAM	8	7	22.93	22.90	22.91	22.8	2
3	16QAM	15	0	21.93	21.93	21.91		
3	8QAM	1	0	21.97	22.20	22.11		
3	8QAM	1	8	22.10	22.16	22.11	22.8	2
3	8QAM	1	14	22.07	22.13	22.12		
3	8QAM	8	0	21.92	20.90	20.97		
3	8QAM	8	4	20.88	20.98	21.07	21.8	3
3	8QAM	8	7	20.94	21.01	21.04		
3	8QAM	15	0	20.94	20.97	20.91		
3	256QAM	1	1	18.77	18.88	18.84	19.8	5
3	256QAM	1	8	18.62	18.81	18.75		
3	256QAM	1	14	18.80	18.80	18.90		
3	256QAM	8	0	18.81	18.70	18.78	19.8	5
3	256QAM	8	4	18.91	18.80	18.78		
3	256QAM	8	7	18.82	18.81	18.92		
3	256QAM	15	0	18.69	18.80	18.69		
Channel				23071	23096	23175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				736.5	739.5	743.5		
1.4	QPSK	1	0	23.84	23.83	23.80	24.8	0
1.4	QPSK	1	3	23.81	23.88	23.91		
1.4	QPSK	1	5	23.81	23.81	23.88		
1.4	QPSK	3	0	23.85	23.89	23.93	23.8	1
1.4	QPSK	3	1	23.85	23.89	23.91		
1.4	QPSK	3	3	23.84	23.90	23.88		
1.4	QPSK	6	0	22.87	22.90	22.93	23.8	1
1.4	16QAM	1	0	23.17	23.22	23.26		
1.4	16QAM	1	3	23.87	23.86	23.93		
1.4	16QAM	1	5	23.18	23.29	23.32	23.8	1
1.4	16QAM	3	0	22.89	22.98	23.02		
1.4	16QAM	3	1	23.05	23.03	23.15		
1.4	16QAM	3	3	23.04	22.98	23.12	22.8	2
1.4	16QAM	6	0	21.99	22.00	22.03		
1.4	8QAM	1	0	22.18	21.99	22.11		
1.4	8QAM	1	3	22.22	22.08	22.28	22.8	2
1.4	8QAM	1	5	22.06	21.99	22.07		
1.4	8QAM	3	0	21.98	22.02	22.04		
1.4	8QAM	3	1	21.99	22.07	22.09	21.8	3
1.4	8QAM	3	3	21.98	22.08	22.12		
1.4	8QAM	6	0	20.96	20.97	20.99		
1.4	256QAM	1	1	18.77	18.89	18.80	19.8	5
1.4	256QAM	1	5	18.73	18.80	18.73		
1.4	256QAM	3	0	18.79	18.68	18.71		
1.4	256QAM	3	1	18.91	18.77	18.74	19.8	5
1.4	256QAM	3	3	18.76	18.86	18.88		
1.4	256QAM	6	0	18.81	18.79	18.83		



Band 13_Ant 1									
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)			Tune-up limit (dBm)	MPR (dB)	
				762					
10	QPSK	1	0	23.90	23.90		24.8	0	
10	QPSK	1	25	23.90	23.90				
10	QPSK	1	49	23.89	23.89				
10	QPSK	25	0	22.99	22.99		23.8	1	
10	QPSK	25	12	22.97	22.97				
10	QPSK	25	25	22.90	22.90				
10	16QAM	1	0	23.20	23.20		23.8	1	
10	16QAM	1	25	23.22	23.22				
10	16QAM	1	49	23.24	23.24				
10	16QAM	25	0	22.00	22.00		22.8	2	
10	16QAM	25	12	21.99	21.99				
10	16QAM	50	0	21.97	21.97				
10	64QAM	1	0	22.15	22.15		22.8	2	
10	64QAM	1	25	22.21	22.21				
10	64QAM	1	49	22.14	22.14				
10	64QAM	25	0	21.01	21.01		21.8	3	
10	64QAM	25	12	20.98	20.98				
10	64QAM	25	25	20.91	20.91				
10	64QAM	50	0	20.90	20.90		19.8	5	
10	256QAM	1	0	18.08	18.08				
10	256QAM	1	25	18.02	18.02				
10	256QAM	1	49	18.00	18.00		19.8	5	
10	256QAM	25	0	18.95	18.95				
10	256QAM	25	12	18.90	18.90				
10	256QAM	25	25	18.88	18.88		Tune-up limit (dBm)	MPR (dB)	
Channel				23305	23305	23355			
Frequency (MHz)				779.5	782	784.5			
5	QPSK	1	0	23.80	23.84	23.76	24.8	0	
5	QPSK	1	12	23.18	23.91	23.83			
5	QPSK	1	24	23.85	23.81	23.88			
5	QPSK	12	0	22.82	22.81	22.86	23.8	1	
5	QPSK	12	7	22.05	22.80	22.88			
5	QPSK	12	13	22.90	22.80	22.84			
5	QPSK	25	0	22.82	22.82	22.83	23.8	1	
5	16QAM	1	0	23.20	23.08	23.22			
5	16QAM	1	12	23.30	23.25	23.27			
5	16QAM	1	24	23.22	23.14	23.06	22.8	2	
5	16QAM	12	0	21.85	21.85	21.90			
5	16QAM	12	7	21.08	21.88	21.96			
5	16QAM	12	13	21.04	21.87	21.83	22.8	2	
5	16QAM	25	0	21.94	21.85	21.85			
5	64QAM	1	0	22.09	22.18	22.08			
5	64QAM	1	12	22.19	22.16	22.02	22.8	2	
5	64QAM	1	24	22.17	22.08	22.06			
5	64QAM	12	0	20.86	20.86	20.91			
5	64QAM	12	7	20.06	20.87	20.92	21.8	3	
5	64QAM	12	13	20.99	20.84	20.93			
5	64QAM	25	0	20.95	20.85	20.85			
5	256QAM	1	0	18.99	18.91	18.99	19.8	5	
5	256QAM	1	12	19.00	19.00	18.87			
5	256QAM	1	24	18.85	18.99	18.86			
5	256QAM	12	0	18.81	18.84	18.81	19.8	5	
5	256QAM	12	7	18.84	18.89	18.94			
5	256QAM	12	13	18.74	18.82	18.83			
5	256QAM	25	0	18.75	18.89	18.80			

Band 17_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq 23765	Power Middle Ch / Freq 23790	Power High Ch / Freq 23800	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.85	23.90	23.80	24.8	0	
10	QPSK	1	25	23.80	23.85	23.76			
10	QPSK	1	49	23.77	23.62	23.75			
10	QPSK	25	0	22.98	22.99	22.97	23.8	1	
10	QPSK	25	12	22.81	22.95	22.96			
10	QPSK	25	25	22.86	22.89	22.80			
10	QPSK	50	0	22.93	22.97	22.84	23.8	1	
10	16QAM	1	0	23.26	23.20	23.20			
10	16QAM	1	25	23.25	23.11	23.30			
10	16QAM	1	49	23.27	23.25	23.23	22.8	2	
10	16QAM	25	0	21.88	21.89	21.92			
10	16QAM	25	12	22.03	21.95	21.97			
10	16QAM	25	25	22.03	22.04	22.05	22.8	2	
10	16QAM	50	0	21.99	21.95	21.98			
10	64QAM	1	0	22.08	22.07	22.12			
10	64QAM	1	25	22.09	22.10	22.27	22.8	2	
10	64QAM	1	49	22.14	22.27	22.27			
10	64QAM	25	0	20.87	20.95	21.00			
10	64QAM	25	12	21.00	20.93	20.96	21.8	3	
10	64QAM	25	25	20.98	21.01	21.02			
10	64QAM	50	0	20.98	20.92	20.94			
10	256QAM	1	0	18.89	18.90	18.86	19.8	5	
10	256QAM	1	25	18.89	18.92	18.87			
10	256QAM	1	49	18.87	18.88	18.72			
10	256QAM	25	0	18.84	18.84	18.71	19.8	5	
10	256QAM	25	12	18.96	18.90	18.99			
10	256QAM	25	25	18.76	18.90	18.74			
10	256QAM	50	0	18.75	18.87	18.80	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.73	23.82	23.75	24.8	0	
5	QPSK	1	12	23.85	23.88	23.85			
5	QPSK	1	24	23.79	23.78	23.81			
5	QPSK	12	0	22.78	22.77	22.80	23.8	1	
5	QPSK	12	7	22.88	22.81	22.91			
5	QPSK	12	13	22.85	22.88	22.91			
5	QPSK	25	0	22.84	22.79	22.80	23.8	1	
5	16QAM	1	0	23.21	23.15	23.09			
5	16QAM	1	12	23.27	23.27	23.30			
5	16QAM	1	24	23.13	23.02	23.09	22.8	2	
5	16QAM	12	0	21.82	21.84	21.83			
5	16QAM	12	7	21.92	21.90	21.99			
5	16QAM	12	13	21.95	21.96	21.98	22.8	2	
5	16QAM	25	0	21.86	21.83	21.83			
5	64QAM	1	0	21.94	21.92	22.08			
5	64QAM	1	12	22.02	22.07	22.19	22.8	2	
5	64QAM	1	24	22.05	22.05	22.02			
5	64QAM	12	0	20.77	20.81	20.90			
5	64QAM	12	7	20.94	20.90	20.92	21.8	3	
5	64QAM	12	13	20.93	20.97	20.92			
5	64QAM	25	0	20.85	20.81	20.86			
5	256QAM	1	0	18.95	18.92	18.97	19.8	5	
5	256QAM	1	12	18.81	18.82	18.85			
5	256QAM	1	24	18.70	18.80	18.72			
5	256QAM	12	0	18.88	18.88	18.85	19.8	5	
5	256QAM	12	7	18.81	18.83	18.85			
5	256QAM	12	13	18.67	18.81	18.67			
5	256QAM	25	0	18.84	18.80	18.77			

Band 26_Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	24.00	24.03	23.83	24.8	0
15	QPSK	1	37	23.88	23.85	23.71		
15	QPSK	1	74	23.62	23.73	23.53		
15	QPSK	36	0	22.90	22.90	22.85	23.8	1
15	QPSK	36	20	22.83	22.93	22.79		
15	QPSK	36	39	22.89	22.88	22.80		
15	QPSK	75	0	22.81	22.81	22.82	23.8	1
15	16QAM	1	0	23.05	23.11	23.10		
15	16QAM	1	37	23.09	23.11	23.00		
15	16QAM	1	74	22.96	23.13	22.89	22.8	2
15	16QAM	36	0	21.88	21.92	21.79		
15	16QAM	36	20	21.84	21.96	21.83		
15	16QAM	36	39	21.87	21.96	21.83	22.8	2
15	16QAM	75	0	21.83	21.96	21.84		
15	64QAM	1	0	21.84	21.92	21.84		
15	64QAM	1	37	22.06	21.94	21.91	22.8	2
15	64QAM	1	74	21.82	22.06	21.73		
15	64QAM	36	0	20.92	20.89	20.81	21.8	3
15	64QAM	36	20	20.86	20.93	20.90		
15	64QAM	36	39	20.88	20.93	20.81		
15	64QAM	75	0	20.83	20.93	20.83	19.8	5
15	256QAM	1	0	18.87	18.84	18.92		
15	256QAM	1	37	18.81	18.89	18.89		
15	256QAM	1	74	18.78	18.80	18.79	19.8	5
15	256QAM	36	0	18.87	18.82	18.89		
15	256QAM	36	20	18.73	18.86	18.77		
15	256QAM	36	39	18.68	18.86	18.78	19.8	5
15	256QAM	75	0	18.89	18.86	18.77		
Channel				26740	26865	26980	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				817.0	831.5	841		
10	QPSK	1	0	23.92	23.83	23.79	24.8	0
10	QPSK	1	25	23.86	23.84	23.75		
10	QPSK	1	49	23.84	23.78	23.66		
10	QPSK	25	0	22.86	22.86	22.82	23.8	1
10	QPSK	25	12	22.87	22.81	22.88		
10	QPSK	25	25	22.91	22.94	22.83		
10	QPSK	10	0	22.84	22.84	22.84	23.8	1
10	16QAM	1	0	23.25	23.23	23.16		
10	16QAM	1	25	23.22	23.20	23.16		
10	16QAM	1	49	23.22	23.20	23.16	22.8	2
10	16QAM	25	0	21.90	21.91	21.82		
10	16QAM	25	12	21.88	21.88	21.87		
10	16QAM	25	25	21.88	21.84	21.84	22.8	2
10	16QAM	50	0	21.96	21.87	21.86		
10	64QAM	1	0	22.01	22.08	22.04		
10	64QAM	1	25	22.12	22.15	22.09	22.8	2
10	64QAM	1	49	22.08	22.06	21.93		
10	64QAM	25	0	20.89	20.90	20.79	21.8	3
10	64QAM	25	12	20.95	20.91	20.89		
10	64QAM	25	25	20.90	20.95	20.89		
10	256QAM	1	0	18.81	18.82	18.85	19.8	5
10	256QAM	1	25	18.75	18.87	18.83		
10	256QAM	1	49	18.64	18.77	18.74		
10	256QAM	25	0	18.75	18.81	18.85	19.8	5
10	256QAM	25	12	18.73	18.71	18.65		
10	256QAM	25	25	18.68	18.82	18.68		
10	256QAM	50	0	18.87	18.84	18.80	Tune-up limit (dBm) MPR (dB)	
Channel				26715 <th>26865<th>27015<th colspan="2"></th></th></th>	26865 <th>27015<th colspan="2"></th></th>	27015 <th colspan="2"></th>		
Frequency (MHz)				815.5 <th>831.5<th>845.5<th colspan="2"></th></th></th>	831.5 <th>845.5<th colspan="2"></th></th>	845.5 <th colspan="2"></th>		
5	QPSK	1	0	23.81	23.84	23.64	24.8	0
5	QPSK	1	12	23.72	23.74	23.67		
5	QPSK	1	24	23.83	23.87	23.66		
5	QPSK	12	0	22.86	22.86	22.71	23.8	1
5	QPSK	12	7	22.87	22.89	22.74		
5	QPSK	12	13	22.92	22.95	22.78		
5	QPSK	25	0	22.91	22.85	22.73	23.8	1
5	16QAM	1	0	23.24	23.22	23.18		
5	16QAM	1	12	23.25	23.27	23.25		
5	16QAM	1	24	23.25	23.16	23.07	22.8	2
5	16QAM	12	0	21.90	21.89	21.77		
5	16QAM	12	7	21.98	21.95	21.84		
5	16QAM	12	13	21.94	21.84	21.84	22.8	2
5	16QAM	25	0	21.91	21.96	21.94		
5	64QAM	1	0	22.08	22.12	21.99	22.8	2
5	64QAM	1	12	22.07	22.13	22.00		
5	64QAM	1	24	22.08	22.04	21.92		
5	64QAM	12	0	20.91	20.86	20.76	21.8	3
5	64QAM	12	7	20.98	20.91	20.79		
5	64QAM	12	13	20.98	20.99	20.86		
5	64QAM	25	0	20.94	20.85	20.76	19.8	5
5	256QAM	1	0	18.68	18.89	18.81		
5	256QAM	1	12	18.72	18.86	18.87		
5	256QAM	1	24	18.67	18.82	18.69	19.8	5
5	256QAM	12	0	18.80	18.77	18.89		
5	256QAM	12	7	18.70	18.73	18.65		
5	256QAM	12	13	18.63	18.81	18.69	19.8	5
5	256QAM	25	0	18.71	18.50	18.69		
Channel				26705 <th>26865<th>27025<th>Tune-up limit (dBm)</th><th>MPR (dB)</th></th></th>	26865 <th>27025<th>Tune-up limit (dBm)</th><th>MPR (dB)</th></th>	27025 <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5 <th>831.5<th>847.5<th colspan="2"></th></th></th>	831.5 <th>847.5<th colspan="2"></th></th>	847.5 <th colspan="2"></th>		
3	QPSK	1	0	23.80	23.74	23.59	24.8	0
3	QPSK	1	8	23.83	23.81	23.75		
3	QPSK	1	14	23.82	23.75	23.61		
3	QPSK	8	0	22.94	22.85	22.73	23.8	1
3	QPSK	8	4	22.96	22.89	22.73		
3	QPSK	8	7	22.92	22.92	22.78		
3	QPSK	15	0	22.89	22.85	22.71	23.8	1
3	16QAM	1	0	23.19	23.19	23.12		
3	16QAM	1	8	23.11	23.17	23.17		
3	16QAM	1	14	23.04	23.14	23.02	22.8	2
3	16QAM	8	0	22.02	21.80	21.85		
3	16QAM	8	4	22.04	22.00	21.79		
3	16QAM	8	7	21.99	22.05	21.87	22.8	2
3	16QAM	15	0	21.95	21.89	21.73		
3	64QAM	1	0	22.06	22.08	21.87		
3	64QAM	1	8	22.18	22.15	21.94	22.8	2
3	64QAM	1	14	22.15	21.88	21.73		
3	64QAM	8	0	20.98	20.89	20.76		
3	64QAM	8	4	20.93	20.89	20.86	21.8	3
3	64QAM	8	7	20.95	20.89	20.83		
3	64QAM	15	0	20.96	20.89	20.73		
3	256QAM	1	0	18.79	18.81	18.74	19.8	5
3	256QAM	1	8	18.63	18.95	18.77		
3	256QAM	1	14	18.67	18.82	18.73		
3	256QAM	8	0	18.69	18.75	18.78	19.8	5
3	256QAM	8	4	18.64	18.81	18.65		
3	256QAM	8	7	18.66	18.82	18.71		
3	256QAM	15	0	18.76	18.95	18.59	Tune-up limit (dBm) MPR (dB)	
Channel				26697 <th>26865<th>27033<th colspan="2"></th></th></th>	26865 <th>27033<th colspan="2"></th></th>	27033 <th colspan="2"></th>		
Frequency (MHz)				811.7 <th>831.5<th>848.3<th colspan="2"></th></th></th>	831.5 <th>848.3<th colspan="2"></th></th>	848.3 <th colspan="2"></th>		
1.4	QPSK	1	0	23.94	23.76	23.67	24.8	0
1.4	QPSK	1	3	23.81	23.88	23.74		
1.4	QPSK	1	14	23.84	23.82	23.71		
1.4	QPSK	3	0	23.85	23.87	23.74	23.8	1
1.4	QPSK	3	1	23.80	23.86	23.77		
1.4	QPSK	3	3	23.85	23.86	23.72		
1.4	QPSK	6	0	22.91	22.82	22.76	23.8	1
1.4	16QAM	1	0	23.13	23.10	23.04		
1.4	16QAM	1	3	23.15	23.13	23.13		
1.4	16QAM	1	5	23.19	23.15	23.07	22.8	2
1.4	16QAM	3	0	23.11	22.96	22.87		
1.4	16QAM	3	1	23.06	22.98	22.83		
1.4	16QAM	3	3	23.07	23.02	22.91	22.8	2
1.4	16QAM	6	0	21.99	21.89	21.84		
1.4	64QAM	1	0	22.05	21.90	21.89		
1.4	64QAM	1	3	22.10	22.15	21.90	21.8	3
1.4	64QAM	1	5	22.02	22.03	21.87		
1.4	64QAM	3	0	22.08	21.92	21.78		
1.4	64QAM	3	1	22.04	21.97	21.85	19.8	5
1.4	64QAM	3	3	22.03	22.02	21.86		
1.4	256QAM	6	0	20.93	20.90	20.83	21.8	3
1.4	256QAM	6	3	20.87	20.87	20.77		
1.4	256QAM	6	5	20.77	20.87	20.74		
1.4	256QAM	1	0	18.74	18.72	18.78	19.8	5
1.4	256QAM	3	0	18.86	18.87	18.79		
1.4	256QAM	3	1	18.83	18.89	18.70		
1.4	256QAM	3	3	18.86	18.86	18.75	19.8	5
1.4	256QAM	3	5	18.84	18.86	18.74		
1.4	256QAM	3	7	18.63	18.85	18.70		



n5 Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Inst (dBm)	MPR (dB)
Channel				16600	16700	16760		
Frequency (MHz)				834	836.5	839		
20	P12 BPSK	1	1	23.86	23.86	23.93	25.2	0.0
20	P12 BPSK	1	53	23.77	23.85	23.83		
20	P12 BPSK	1	104	23.90	23.92	23.85		
20	P12 BPSK	50	0	23.70	23.77	23.71	24.7	0.5
20	P12 BPSK	50	26	23.83	23.97	23.90	25.2	0.0
20	P12 BPSK	50	56	23.40	23.40	23.34	24.7	0.5
20	P12 BPSK	100	0	23.38	23.30	23.31		
20	P12 BPSK	100	0	23.38	23.30	23.31		
20	QPSK	1	1	23.91	24.00	23.87	25.2	0.0
20	QPSK	1	53	23.74	23.90	23.81		
20	QPSK	1	104	23.89	23.96	23.78		
20	QPSK	50	0	23.45	23.50	23.49	24.2	1.0
20	QPSK	50	26	23.90	23.95	23.88	25.2	0.0
20	QPSK	50	56	23.35	23.39	23.52	24.2	1.0
20	QPSK	100	0	23.50	23.58	23.52	24.2	1.0
20	16QAM	1	1	23.55	22.86	23.69	24.2	1.0
20	64QAM	1	1	22.05	22.00	22.05	22.7	2.5
20	256QAM	1	1	20.11	20.12	20.11	20.7	4.5
Channel				16700	16760	16800		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.95	23.86	23.93	25.2	0.0
Channel				16760	16800	16820		
Frequency (MHz)				839	836.5	844		
10	QPSK	1	1	23.87	23.95	23.93	25.2	0.0
Channel				16800	16820	16830		
Frequency (MHz)				836.5	846.5	846.5		
5	QPSK	1	1	23.98	23.94	23.81	25.2	0.0

n71 Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Inst (dBm)	MPR (dB)
Channel				18400	18500	18560		
Frequency (MHz)				673	680.5	688		
20	P12 BPSK	1	1	23.30	23.38	23.36	25.2	0.0
20	P12 BPSK	1	53	23.22	23.30	23.33		
20	P12 BPSK	1	104	23.23	23.26	23.23		
20	P12 BPSK	50	0	23.17	23.30	23.25	24.7	0.5
20	P12 BPSK	50	26	23.30	23.33	23.23	25.2	0.0
20	P12 BPSK	50	56	22.99	23.10	23.01	24.7	0.5
20	P12 BPSK	100	0	23.12	23.15	23.01		
20	P12 BPSK	100	0	23.12	23.15	23.01		
20	QPSK	1	1	24.26	24.32	24.19	25.2	0.0
20	QPSK	1	53	24.06	24.25	24.17		
20	QPSK	1	104	24.12	24.20	24.17		
20	QPSK	50	0	23.35	23.52	23.38	24.2	1.0
20	QPSK	50	26	24.28	24.30	24.18	25.2	0.0
20	QPSK	50	56	23.22	23.40	23.37	24.2	1.0
20	QPSK	100	0	23.29	23.43	23.30	24.2	1.0
20	16QAM	1	1	23.43	23.30	23.44	24.2	1.0
20	64QAM	1	1	21.82	22.00	21.90	22.7	2.5
20	256QAM	1	1	20.01	20.01	19.83	20.7	4.5
Channel				18500	18560	18600		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	24.20	24.19	24.19	25.2	0.0
Channel				18560	18600	18620		
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	24.18	24.20	24.13	25.2	0.0
Channel				18600	18620	18630		
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	24.16	24.24	24.19	25.2	0.0

Band 2_Ant 4													
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Middle Ch / Freq	Tune-up limit (dBm)	MPR (dB)					
Channel													
Frequency (MHz)				18700	18900	19100							
20	QPSK	1	0	20.45	20.5	20.41	21.4	0					
20	QPSK	1	49	20.34	20.48	20.37							
20	QPSK	1	99	20.27	20.39	20.29							
20	QPSK	50	0	20.35	20.41	20.32							
20	QPSK	50	24	20.31	20.4	20.31	21.4	0					
20	QPSK	50	50	20.28	20.37	20.28							
20	QPSK	100	0	20.36	20.39	20.35							
20	16QAM	1	0	20.43	20.45	20.32							
20	16QAM	1	49	20.36	20.39	20.37	21.4	0					
20	16QAM	1	99	20.39	20.48	20.48							
20	16QAM	50	0	20.34	20.37	20.24							
20	16QAM	50	24	20.32	20.46	20.44							
20	16QAM	50	50	20.26	20.35	20.3	21.4	0					
20	16QAM	100	0	20.35	20.36	20.32							
20	84QAM	1	0	20.27	20.35	20.33							
20	84QAM	1	49	20.39	20.4	20.28		21.4	0				
20	84QAM	1	99	20.49	20.49	20.35							
20	84QAM	50	0	19.64	19.59	19.48							
20	84QAM	50	24	19.58	19.57	19.57	20.8	0.6					
20	84QAM	50	50	19.5	19.52	19.54							
20	84QAM	100	0	19.55	19.54	19.55							
20	256QAM	1	0	17.62	17.65	17.52							
20	256QAM	1	49	17.50	17.52	17.34	18.8	2.6					
20	256QAM	1	99	17.50	17.59	17.47							
20	256QAM	50	0	17.51	17.55	17.41							
20	256QAM	50	24	17.41	17.60	17.50							
20	256QAM	50	50	17.46	17.63	17.60	18.8	2.6					
20	256QAM	100	0	17.48	17.55	17.55							
Channel													
Frequency (MHz)				18675	18900	19125				Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	20.33	20.39	20.31	21.4	0					
15	QPSK	1	37	20.22	20.42	20.23							
15	QPSK	1	74	20.27	20.29	20.28							
15	QPSK	36	0	20.3	20.4	20.28							
15	QPSK	36	20	20.19	20.29	20.23	21.4	0					
15	QPSK	36	39	20.27	20.29	20.18							
15	QPSK	75	0	20.21	20.24	20.14							
15	16QAM	1	0	20.34	20.36	20.23							
15	16QAM	1	37	20.28	20.24	20.3	21.4	0					
15	16QAM	1	74	20.28	20.38	20.43							
15	16QAM	36	0	20.19	20.23	20.15							
15	16QAM	36	20	20.2	20.35	20.45		21.4	0				
15	16QAM	36	39	20.23	20.22	20.15							
15	16QAM	75	0	20.29	20.29	20.27							
15	84QAM	1	0	20.27	20.3	20.23	21.4	0					
15	84QAM	1	37	20.29	20.37	20.14							
15	84QAM	1	74	20.35	20.48	20.25							
15	84QAM	36	0	19.5	19.45	19.45							
15	84QAM	36	20	19.45	19.52	19.46	20.8	0.6					
15	84QAM	36	39	19.39	19.46	19.46							
15	84QAM	75	0	19.47	19.46	19.46							
15	256QAM	1	0	17.58	17.57	17.43							
15	256QAM	1	37	17.46	17.48	17.29	18.8	2.6					
15	256QAM	1	74	17.44	17.45	17.35							
15	256QAM	36	0	17.42	17.46	17.34							
15	256QAM	36	20	17.26	17.46	17.41		18.8	2.6				
15	256QAM	36	39	17.32	17.46	17.45							
15	256QAM	75	0	17.32	17.50	17.50							
15	256QAM	75	0	17.41	17.42	17.42							
Channel													
Frequency (MHz)				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)					
10	QPSK	1	0	20.41	20.35	20.3	21.4	0					
10	QPSK	1	25	20.23	20.35	20.3							
10	QPSK	1	49	20.26	20.27	20.28							
10	QPSK	25	0	20.23	20.28	20.25							
10	QPSK	25	12	20.3	20.31	20.17	21.4	0					
10	QPSK	25	25	20.15	20.28	20.27							
10	QPSK	50	0	20.21	20.37	20.28							
10	16QAM	1	0	20.39	20.38	20.35		21.4	0				
10	16QAM	1	25	20.28	20.36	20.22							
10	16QAM	1	49	20.3	20.33	20.35							
10	16QAM	25	0	20.32	20.35	20.21		21.4	0				
10	16QAM	25	12	20.21	20.32	20.33							
10	16QAM	25	25	20.17	20.33	20.22							
10	16QAM	50	0	20.22	20.29	20.22		21.4	0				
10	84QAM	1	0	20.18	20.34	20.33							
10	84QAM	1	25	20.32	20.3	20.2							
10	84QAM	1	49	20.48	20.37	20.35		20.8	0.6				
10	84QAM	25	0	19.51	19.45	19.39							
10	84QAM	25	12	19.45	19.5	19.49							
10	84QAM	25	25	19.38	19.46	19.46		18.8	2.6				
10	84QAM	50	0	19.41	19.41	19.5							
10	256QAM	1	0	17.55	17.60	17.38							
10	256QAM	1	25	17.42	17.48	17.27	18.8	2.6					
10	256QAM	1	49	17.45	17.47	17.35							
10	256QAM	25	0	17.45	17.43	17.27							
10	256QAM	25	12	17.32	17.48	17.41							
10	256QAM	25	25	17.32	17.55	17.53	18.8	2.6					
10	256QAM	50	0	17.34	17.47	17.44							
Channel													
Frequency (MHz)				18625	18900	19075				Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	20.3	20.38	20.29	21.4	0					
5	QPSK	1	12	20.28	20.46	20.37							
5	QPSK	1	24	20.26	20.33	20.18							
5	QPSK	12	0	20.28	20.34	20.24		21.4	0				
5	QPSK	12	7	20.18	20.27	20.21							
5	QPSK	12	13	20.27	20.28	20.13							
5	QPSK	25	0	20.24	20.32	20.22	21.4	0					
5	16QAM	1	0	20.36	20.39	20.23							
5	16QAM	1	12	20.27	20.27	20.27							
5	16QAM	1	24	20.24	20.34	20.38		21.4	0				
5	16QAM	12	0	20.24	20.26	20.18							
5	16QAM	12	7	20.32	20.36	20.34							
5	16QAM	12	13	20.25	20.27	20.21	21.4	0					
5	16QAM	25	0	20.32	20.28	20.17							
5	84QAM	1	0	20.14	20.26	20.18							
5	84QAM	1	12	20.37	20.4	20.24		21.4	0				
5	84QAM	1	24	20.4	20.45	20.27							
5	84QAM	12	0	19.56	19.47	19.44							
5	84QAM	12	7	19.54	19.53	19.5	20.8	0.6					
5	84QAM	12	13	19.44	19.48	19.42							
5	84QAM	25	0	19.42	19.5	19.46							
5	256QAM	1	0	17.49	17.61	17.47		18.8	2.6				
5	256QAM	1	12	17.46	17.46	17.30							
5	256QAM	1	24	17.44	17.49	17.41							
5	256QAM	12	0	17.49	17.49	17.33		18.8	2.6				
5	256QAM	12	7	17.27	17.36	17.36							
5	256QAM	12	13	17.41	17.56	17.49							
5	256QAM	25	0	17.44	17.48	17.51							
Channel													
Frequency (MHz)				18615	18900	19195					Tune-up limit (dBm)	MPR (dB)	
3	QPSK	1	0	20.51	20.37	20.40	21.4	0					
3	QPSK	1	8	20.25	20.33	20.22							
3	QPSK	1	14	20.19	20.29	20.14							
3	QPSK	8	0	20.30	20.41	20.27		21.4	0				
3	QPSK	8	4	20.25	20.25	20.31							
3	QPSK	15	0	20.24	20.37	20.13							
3	16QAM	1	0	20.41	20.33	20.19	21.4	0					
3	16QAM	1	8	20.31	20.30	20.37							
3	16QAM	1	14	20.33	20.48	20.41							
3	16QAM	8	0	20.27	20.32	20.16		21.4	0				
3	16QAM	8	4	20.29	20.39	20.38							
3	16QAM	8	8	20.11	20.38	20.18							
3	16QAM	15	0	20.35	20.35	20.20	21.4	0					
3	84QAM	1	0	20.23	20.22	20.25							
3	84QAM	1	8	20.27	20.31	20.17							
3	84QAM	1	14	20.40	20.37	20.21		21.4	0				
3	84QAM	8	0	19.53	19.54	19.41							
3	84QAM	8	4	19.51	19.53	19.46							
3	84QAM	8	7	19.40	19.43	19.41	20.8	0.6					
3	84QAM	15	0	19.44	19.48	19.46							
3	256QAM	1	0	17.50	17.53	17.48							
3	256QAM	1	8	17.40	17.41	17.25							
3	256QAM	1	14	17.38	17.50	17.42	18.8	2.6					
3	256QAM	8	0	17.38	17.46	17.35							
3	256QAM	8	4	17.35	17.53	17.42							
3	256QAM	8	7	17.35	17.59	17.52							
3	256QAM	15	0	17.37	17.49	17.43	18.8	2.6					
Channel													
Frequency (MHz)				18607	18900	19198				Tune-up limit (dBm)	MPR (dB)		
1.4	QPSK	1	0	20.38	20.44	20.44				21.4	0		
1.4	QPSK	1	3	20.20	20.47	20.25							
1.4	QPSK	1	5	20.25	20.39	20.29							
1.4	QPSK	3	0	20.35	20.41	20.32							
1.4	QPSK	3	1	20.19	20.34	20.26	21.4	0					
1.4	QPSK	3	3	20.21	20.25	20.15							
1.4	QPSK	6	0	20.27	20.32	20.24							
1.4	16QAM	1	0	20.39	20.44	20.22							
1.4	16QAM	1	3	20.30	20.24	20.27	21.4	0					
1.4	16QAM	1	5	20.24	20.38	20.38							
1.4	16QAM	3	1	20.26	20.24	20.16							
1.4	16QAM	3	1	20.32	20.46	20.36							
1.4	16QAM	3	3	20.23	20.25	20.16	21.4	0					
1.4	16QAM	6	0	20.20	20.31	20.23							
1.4	16QAM	6	3	20.31	20.33	20.28							
1.4	16QAM	6	5	20.29	20.40	20.27							
1.4	84QAM	3	0	20.25	20.25	20.32	21.4	0					
1.4	84QAM	3	3	20.30	20.31	20.29							
1.4	84QAM	3	3	20.25	20.33	20.33							
1.4	256QAM	6	0	17.61	17.62	17.49							
1.4	256QAM	1	3	17.49	17.42	17.29	18.8	2.6					
1.4	256QAM	1	5	17.49	17.45	17.45							
1.4	256QAM	3	1	17.49	17.52	17.35							
1.4	256QAM	3	1	17.37	17.52	17.45							
1.4	256QAM	3	3	17.39	17.59	17.59							



Band 2_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				18700	18900	19100						
Frequency (MHz)				18700	18900	19100						
20	QPSK	1	0	16.55	16.57	16.50	17.8	0				
20	QPSK	1	49	16.46	16.56	16.45						
20	QPSK	1	99	16.49	16.47	16.46						
20	QPSK	50	0	16.48	16.49	16.45						
20	QPSK	50	24	16.41	16.45	16.48	17.8	0				
20	QPSK	50	50	16.42	16.48	16.42						
20	QPSK	100	0	16.46	16.47	16.41						
20	16QAM	1	0	16.45	16.39	16.32						
20	16QAM	1	99	16.34	16.48	16.30	17.8	0				
20	16QAM	1	99	16.31	16.41	16.39						
20	16QAM	50	0	16.43	16.52	16.45						
20	16QAM	50	24	16.45	16.37	16.34						
20	16QAM	50	50	16.49	16.36	16.35	17.8	0				
20	16QAM	100	0	16.33	16.46	16.37						
20	8QAM	1	0	16.46	16.51	16.36						
20	8QAM	1	49	16.42	16.56	16.31						
20	8QAM	1	99	16.44	16.47	16.35	17.8	0				
20	8QAM	50	0	16.40	16.46	16.21						
20	8QAM	50	24	16.39	16.43	16.24						
20	8QAM	50	50	16.40	16.31	16.37						
20	8QAM	100	0	16.36	16.49	16.23	17.8	0				
20	256QAM	1	0	16.34	16.38	16.33						
20	256QAM	1	49	16.45	16.49	16.36						
20	256QAM	1	99	16.43	16.48	16.23						
20	256QAM	50	0	16.30	16.52	16.35	17.8	0				
20	256QAM	50	24	16.44	16.45	16.29						
20	256QAM	50	50	16.26	16.40	16.29						
20	256QAM	100	0	16.27	16.50	16.27						
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				18675	18900	19125						
15	QPSK	1	0	16.44	16.51	16.38	17.8	0				
15	QPSK	1	37	16.27	16.51	16.28						
15	QPSK	1	74	16.31	16.39	16.39						
15	QPSK	36	0	16.41	16.40	16.35						
15	QPSK	36	20	16.22	16.29	16.33	17.8	0				
15	QPSK	36	39	16.28	16.36	16.34						
15	QPSK	36	58	16.35	16.35	16.25						
15	QPSK	75	0	16.35	16.35	16.25						
15	16QAM	1	0	16.35	16.35	16.38	17.8	0				
15	16QAM	1	37	16.37	16.41	16.43						
15	16QAM	1	74	16.36	16.44	16.43						
15	16QAM	36	0	16.38	16.41	16.33						
15	16QAM	36	20	16.52	16.44	16.44	17.8	0				
15	16QAM	36	39	16.43	16.36	16.24						
15	16QAM	75	0	16.41	16.46	16.35						
15	8QAM	1	0	16.41	16.43	16.40						
15	8QAM	1	37	16.35	16.46	16.33	17.8	0				
15	8QAM	1	74	16.44	16.47	16.28						
15	8QAM	36	0	16.53	16.37	16.24						
15	8QAM	36	20	16.42	16.43	16.24						
15	8QAM	36	39	16.34	16.37	16.30	17.8	0				
15	8QAM	75	0	16.35	16.41	16.25						
15	256QAM	1	0	16.38	16.50	16.37						
15	256QAM	1	37	16.50	16.39	16.22						
15	256QAM	1	74	16.40	16.56	16.37	17.8	0				
15	256QAM	36	0	16.40	16.52	16.29						
15	256QAM	36	20	16.47	16.32	16.24						
15	256QAM	36	39	16.34	16.44	16.31						
15	256QAM	75	0	16.30	16.41	16.30	17.8	0				
15	256QAM	75	0	16.30	16.41	16.30						
Channel				18650	18900	19150				Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				18650	18900	19150						
10	QPSK	1	0	16.50	16.51	16.35	17.8	0				
10	QPSK	1	25	16.30	16.44	16.31						
10	QPSK	1	49	16.33	16.32	16.34						
10	QPSK	25	0	16.43	16.42	16.42						
10	QPSK	25	12	16.32	16.26	16.30	17.8	0				
10	QPSK	25	25	16.34	16.36	16.33						
10	QPSK	50	0	16.37	16.27	16.24						
10	16QAM	1	0	16.38	16.47	16.37						
10	16QAM	1	25	16.32	16.42	16.35	17.8	0				
10	16QAM	1	49	16.33	16.43	16.31						
10	16QAM	25	0	16.47	16.44	16.33						
10	16QAM	25	12	16.37	16.35	16.37						
10	16QAM	25	25	16.48	16.40	16.23	17.8	0				
10	16QAM	50	0	16.45	16.54	16.37						
10	8QAM	1	0	16.46	16.40	16.36						
10	8QAM	1	25	16.32	16.52	16.26						
10	8QAM	1	49	16.42	16.40	16.29	17.8	0				
10	8QAM	25	0	16.36	16.47	16.27						
10	8QAM	25	12	16.43	16.35	16.29						
10	8QAM	25	25	16.37	16.38	16.37						
10	8QAM	50	0	16.31	16.51	16.33	17.8	0				
10	8QAM	50	0	16.31	16.51	16.33						
10	8QAM	50	0	16.31	16.51	16.33						
10	8QAM	50	0	16.31	16.51	16.33						
10	256QAM	1	0	16.39	16.52	16.29	17.8	0				
10	256QAM	1	0	16.39	16.52	16.29						
10	256QAM	1	49	16.40	16.45	16.35						
10	256QAM	1	99	16.32	16.44	16.25						
10	256QAM	25	0	16.36	16.48	16.38	17.8	0				
10	256QAM	25	0	16.36	16.48	16.38						
10	256QAM	25	12	16.34	16.40	16.34						
10	256QAM	25	25	16.31	16.38	16.33						
10	256QAM	50	0	16.35	16.39	16.29	17.8	0				
10	256QAM	50	0	16.35	16.39	16.29						
Channel				1852.5	1880	1907.5				Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5						
5	QPSK	1	0	16.43	16.49	16.30	17.8	0				
5	QPSK	1	12	16.38	16.40	16.38						
5	QPSK	1	24	16.38	16.37	16.36						
5	QPSK	12	0	16.29	16.43	16.34						
5	QPSK	12	7	16.24	16.29	16.39	17.8	0				
5	QPSK	12	13	16.37	16.28	16.35						
5	QPSK	25	0	16.33	16.29	16.23						
5	16QAM	1	0	16.42	16.46	16.30						
5	16QAM	1	12	16.32	16.42	16.36	17.8	0				
5	16QAM	1	24	16.41	16.44	16.36						
5	16QAM	12	0	16.45	16.40	16.40						
5	16QAM	12	7	16.38	16.38	16.38						
5	16QAM	12	13	16.51	16.41	16.33	17.8	0				
5	16QAM	25	0	16.37	16.49	16.27						
5	8QAM	1	0	16.48	16.49	16.33						
5	8QAM	1	12	16.33	16.53	16.33						
5	8QAM	1	24	16.38	16.34	16.24	17.8	0				
5	8QAM	12	0	16.40	16.52	16.19						
5	8QAM	12	7	16.29	16.33	16.33						
5	8QAM	12	13	16.31	16.40	16.34						
5	8QAM	25	0	16.45	16.41	16.19	17.8	0				
5	256QAM	1	0	16.37	16.40	16.42						
5	256QAM	1	12	16.46	16.48	16.33						
5	256QAM	1	24	16.33	16.49	16.37						
5	256QAM	12	0	16.39	16.54	16.40	17.8	0				
5	256QAM	12	7	16.37	16.43	16.36						
5	256QAM	12	13	16.37	16.34	16.33						
5	256QAM	25	0	16.29	16.36	16.29						
Channel				18515	18900	19185				Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				18515	18900	19185						
3	QPSK	1	0	16.40	16.39	16.45	17.8	0				
3	QPSK	1	8	16.28	16.48	16.32						
3	QPSK	1	16	16.42	16.38	16.32						
3	QPSK	8	0	16.39	16.44	16.44	17.8	0				
3	QPSK	8	8	16.24	16.38	16.36						
3	QPSK	8	7	16.31	16.37	16.22						
3	16QAM	15	0	16.41	16.31	16.28						
3	16QAM	1	0	16.44	16.30	16.30	17.8	0				
3	16QAM	1	14	16.39	16.45	16.37						
3	16QAM	8	0	16.33	16.31	16.42						
3	16QAM	8	4	16.46	16.44	16.44						
3	16QAM	8	7	16.44	16.44	16.27	17.8	0				
3	16QAM	15	0	16.43	16.53	16.27						
3	16QAM	1	0	16.42	16.46	16.45						
3	8QAM	1	0	16.43	16.45	16.35						
3	8QAM	1	14	16.49	16.40	16.24	17.8	0				
3	8QAM	8	0	16.40	16.44	16.19						
3	8QAM	8	4	16.36	16.37	16.28						
3	8QAM	8	7	16.29	16.35	16.25						
3	8QAM	15	0	16.46	16.42	16.27	17.8	0				
3	256QAM	1	0	16.38	16.40	16.40						
3	256QAM	1	8	16.45	16.40	16.35						
3	256QAM	1	14	16.34	16.56	16.25						
3	256QAM	8	0	16.39	16.43	16.28	17.8	0				
3	256QAM	8	4	16.40	16.32	16.37						
3	256QAM	8	7	16.25	16.43	16.25						
3	256QAM	15	0	16.27	16.43	16.27						
Channel				18607	18900	19198	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				18607	18900	19198						
1.4	QPSK	1	0	16.39	16.42	16.30	17.8	0				
1.4	QPSK	1	3	16.31	16.40	16.28						
1.4	QPSK	1	5	16.42	16.33	16.20						
1.4	QPSK	3	1	16.26	16.29	16.40						
1.4	QPSK	3	3	16.38	16.35	16.25	17.8	0				
1.4	QPSK	3	5	16.41	16.42	16.32						
1.4	16QAM	1	0	16.45	16.43	16.42						
1.4	16QAM	1	3	16.31	16.38	16.44						
1.4	16QAM	1	5	16.42	16.30	16.30	17.8	0				
1.4	16QAM	3	1	16.45	16.41	16.39						
1.4	16QAM	3	1	16.46	16.32	16.43						
1.4	16QAM	3	3	16.42	16.42	16.38						
1.4	16QAM	6	1	16.47	16.43	16.34	17.8	0				
1.4	8QAM	1	0	16.37	16.44	16.47						
1.4	8QAM	1	3	16.37	16.54	16.29						
1.4	8QAM	3	1	16.53	16.38	16.27						
1.4	8QAM	3	5	16.35	16.38	16.27	17.8	0				
1.4	8QAM	3	7	16.29	16.35	16.29						
1.4	8QAM	6	1	16.28</								

Band 4_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 Frequency (MHz)				20050	20175	20300		
				1720	1732.5	1745		
20	QPSK	1	0	19.98	20.02	19.98	20.9	0
20	QPSK	1	49	19.78	19.91	19.83		
20	QPSK	1	99	19.85	19.97	19.91		
20	QPSK	50	0	19.9	19.93	19.91		
20	QPSK	50	24	19.83	19.83	19.83	20.4	0
20	QPSK	50	50	19.89	19.82	19.85		
20	QPSK	100	0	19.85	19.81	19.8		
20	16QAM	1	0	19.9	19.81	19.94		
20	16QAM	1	49	19.91	19.74	19.85	20.9	0
20	16QAM	1	99	19.89	19.89	19.88		
20	16QAM	50	0	19.85	19.84	19.84		
20	16QAM	50	24	19.73	19.77	19.84		
20	16QAM	50	50	19.73	19.78	19.82	20.9	0
20	64QAM	1	0	19.84	19.78	19.86		
20	64QAM	1	49	19.89	19.78	19.95		
20	64QAM	1	99	19.84	19.81	19.87		
20	64QAM	50	0	19.49	19.53	19.58	20.4	0.5
20	64QAM	50	24	19.54	19.6	19.64		
20	64QAM	50	50	19.53	19.57	19.67		
20	64QAM	100	0	19.58	19.58	19.65		
20	256QAM	1	0	17.48	17.65	17.83	18.4	2.5
20	256QAM	1	49	17.69	17.69	17.64		
20	256QAM	1	99	17.65	17.70	17.54		
20	256QAM	50	0	17.62	17.66	17.48		
20	256QAM	50	24	17.51	17.58	17.50	18.4	2.5
20	256QAM	50	50	17.45	17.60	17.48		
20	256QAM	100	0	17.46	17.63	17.47		
Channel Frequency (MHz)				20025	20175	20325		
				1712.5	1722.5	1747.5		
15	QPSK	1	0	19.81	19.97	19.98	20.9	0
15	QPSK	1	37	19.75	19.88	19.85		
15	QPSK	1	74	19.72	19.88	19.75		
15	QPSK	36	0	19.85	19.8	19.83		
15	QPSK	36	20	19.79	19.79	19.78	20.9	0
15	QPSK	36	36	19.89	19.78	19.87		
15	QPSK	75	0	19.76	19.91	19.77		
15	16QAM	1	0	19.9	19.69	19.8		
15	16QAM	1	37	19.75	19.69	19.84	20.9	0
15	16QAM	1	74	19.76	19.83	19.75		
15	16QAM	36	0	19.9	19.78	19.86		
15	16QAM	36	20	19.7	19.69	19.74		
15	16QAM	75	0	19.67	19.73	19.79	20.9	0
15	16QAM	75	0	19.67	19.78	19.79		
15	64QAM	1	0	19.79	19.73	19.75		
15	64QAM	1	37	19.84	19.75	19.89		
15	64QAM	1	74	19.79	19.84	19.87	20.9	0
15	64QAM	36	0	19.31	19.4	19.52		
15	64QAM	36	20	19.48	19.42	19.57		
15	64QAM	36	39	19.36	19.4	19.47		
15	64QAM	75	0	19.5	19.52	19.59	18.4	2.5
15	256QAM	1	0	17.48	17.51	17.63		
15	256QAM	1	37	17.64	17.67	17.59		
15	256QAM	1	74	17.57	17.67	17.48		
15	256QAM	36	0	17.44	17.61	17.31	18.4	2.5
15	256QAM	36	20	17.34	17.38	17.31		
15	256QAM	36	39	17.33	17.42	17.36		
15	256QAM	75	0	17.29	17.60	17.30		
Channel Frequency (MHz)				20000	20175	20300		
				1715	1732.5	1750		
10	QPSK	1	0	19.83	19.94	19.88	20.9	0
10	QPSK	1	25	19.75	19.85	19.81		
10	QPSK	1	49	19.73	19.84	19.72		
10	QPSK	25	0	19.76	19.8	19.82		
10	QPSK	25	12	19.8	19.75	19.8	20.9	0
10	QPSK	25	25	19.78	19.74	19.77		
10	QPSK	50	0	19.84	19.81	19.82		
10	16QAM	1	0	19.89	19.69	19.8		
10	16QAM	1	25	19.79	19.66	19.89	20.9	0
10	16QAM	1	49	19.84	19.82	19.75		
10	16QAM	25	0	19.85	19.87	19.74		
10	16QAM	25	12	19.78	19.84	19.84		
10	16QAM	25	25	19.83	19.88	19.76	20.9	0
10	16QAM	50	0	19.68	19.66	19.79		
10	64QAM	1	0	19.76	19.79	19.85		
10	64QAM	1	25	19.85	19.81	19.86		
10	64QAM	1	49	19.81	19.82	19.89	20.9	0
10	64QAM	25	0	19.35	19.35	19.44		
10	64QAM	25	12	19.54	19.47	19.64		
10	64QAM	25	25	19.41	19.48	19.55		
10	64QAM	50	0	19.45	19.47	19.54	18.4	2.5
10	256QAM	1	0	17.44	17.65	17.39		
10	256QAM	1	25	17.53	17.58	17.48		
10	256QAM	1	49	17.67	17.59	17.46		
10	256QAM	25	0	17.51	17.62	17.48	18.4	2.5
10	256QAM	25	12	17.45	17.45	17.45		
10	256QAM	25	25	17.29	17.48	17.32		
10	256QAM	50	0	17.38	17.51	17.39		
Channel Frequency (MHz)				19975	20175	20375		
				1712.5	1732.5	1752.5		
5	QPSK	1	0	19.77	19.84	19.87	20.9	0
5	QPSK	1	12	19.76	19.84	19.8		
5	QPSK	1	24	19.78	19.92	19.72		
5	QPSK	12	0	19.85	19.83	19.83		
5	QPSK	12	7	19.79	19.79	19.83	20.9	0
5	QPSK	12	13	19.86	19.78	19.79		
5	QPSK	25	0	19.85	19.81	19.7		
5	16QAM	1	0	19.9	19.74	19.77		
5	16QAM	1	12	19.83	19.55	19.85	20.9	0
5	16QAM	1	24	19.86	19.73	19.71		
5	16QAM	12	0	19.81	19.8	19.81		
5	16QAM	12	7	19.69	19.7	19.81		
5	16QAM	12	13	19.61	19.87	19.78	20.9	0
5	16QAM	25	0	19.74	19.68	19.85		
5	16QAM	25	0	19.82	19.72	19.89		
5	16QAM	1	12	19.88	19.68	19.83		
5	64QAM	1	24	19.77	19.68	19.89	20.4	0.5
5	64QAM	12	0	19.41	19.42	19.5		
5	64QAM	12	7	19.43	19.55	19.53		
5	64QAM	12	13	19.47	19.53	19.58		
5	64QAM	25	0	19.47	19.44	19.56	18.4	2.5
5	256QAM	1	0	17.28	17.50	17.44		
5	256QAM	1	12	17.54	17.54	17.49		
5	256QAM	1	24	17.52	17.62	17.41		
5	256QAM	12	0	17.44	17.50	17.31	18.4	2.5
5	256QAM	12	7	17.44	17.57	17.43		
5	256QAM	12	13	17.38	17.80	17.41		
5	256QAM	25	0	17.46	17.54	17.47		
Channel Frequency (MHz)				19985	20175	20385		
				1712.5	1732.5	1753.5		
3	QPSK	1	0	19.92	19.87	19.85	20.9	0
3	QPSK	1	8	19.75	19.88	19.85		
3	QPSK	1	16	19.89	19.86	19.84		
3	QPSK	8	0	19.85	19.87	19.85		
3	QPSK	8	4	19.68	19.73	19.83	20.9	0
3	QPSK	8	7	19.65	19.67	19.72		
3	QPSK	15	0	19.74	19.80	19.73		
3	16QAM	1	0	19.87	19.68	19.90		
3	16QAM	1	8	19.74	19.58	19.78	20.9	0
3	16QAM	1	16	19.86	19.77	19.77		
3	16QAM	8	0	19.83	19.82	19.78		
3	16QAM	8	7	19.63	19.82	19.78		
3	16QAM	8	14	19.61	19.90	19.77	20.9	0
3	16QAM	15	0	19.74	19.76	19.88		
3	64QAM	1	0	19.72	19.73	19.82		
3	64QAM	1	8	19.83	19.79	19.84		
3	64QAM	1	16	19.78	19.82	19.83	20.4	0.5
3	64QAM	8	0	19.3				
3	64QAM	8	4	19.37	19.42	19.47		
3	64QAM	8	7	19.39	19.50	19.45		
3	64QAM	15	0	19.42	19.50	19.51	18.4	2.5
3	256QAM	1	0	17.35	17.48	17.50		
3	256QAM	1	8	17.55	17.58	17.52		
3	256QAM	1	14	17.47	17.51	17.38		
3	256QAM	8	0	17.59	17.48	17.46	18.4	2.5
3	256QAM	8	4	17.48	17.47	17.47		
3	256QAM	8	7	17.31	17.48	17.34		
3	256QAM	8	14	17.37	17.57	17.38		
3	256QAM	15	0	17.35	17.59	17.36		
Channel Frequency (MHz)				1710	1732.5	1754.3	Tune-up limit (dBm)	MPR (dB)
1.4	QPSK	1	0	19.70	19.68	19.94	20.9	0
1.4	QPSK	1	3	19.79	19.84	19.76		
1.4	QPSK	1	5	19.76	19.90	19.78		
1.4	QPSK	3	0	19.81	19.92	19.88		
1.4	QPSK	3	3	19.68	19.74	19.84	20.9	0
1.4	QPSK	3	3	19.76	19.75	19.81		
1.4	QPSK	6	0	19.85	19.88	19.83		
1.4	16QAM	1	0	19.76	19.81	19.84		
1.4	16QAM	1	3	19.74	19.60	19.79	20.9	0
1.4	16QAM	1	3	19.76	19.78	19.74		
1.4	16QAM	1	19.84	19.67	19.79			
1.4	16QAM	3	1	19.85	19.76	19.74		
1.4	16QAM	6	0	19.67	19.81	19.78	20.9	0
1.4	16QAM	6	0	19.76	19.81	19.85		
1.4	64QAM	1	0	19.80	19.75	19.83		
1.4	64QAM	3	0	19.83	19.86	19.86		
1.4	64QAM	1	5	19.67	19.94	19.95	20.9	0
1.4	64QAM	3	0	19.74	19.69	19.88		
1.4	64QAM	3	1	19.80	19.86	19.86		
1.4	64QAM	3	3	19.76	19.84	19.95		
1.4	64QAM	6	0	19.56	19.43	19.65	20.4	0.5
1.4	256QAM	1	0	17.40	17.55	17.50		
1.4	256QAM	1	3	17.57	17.64	17.52		
1.4	256QAM	1	5	17.53	17.61	17.42		
1.4	256QAM	3	0	17.45	17.47	17.42	18.4	2.5
1.4	256QAM	3	1	17.39	17.57	17.38		
1.4	256QAM	3	3	17.42	17.49	17.45		
1.4	256QAM	6	0	17.38	17.52	17.39		
1.4	256QAM	6	3	17.37	17.48	17.45		



Band 4_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				20050	20175	20300						
Frequency (MHz)				1720	1725	1745						
20	QPSK	1	0	16.58	16.51	16.60	17.3	0				
20	QPSK	1	49	16.39	16.58	16.55						
20	QPSK	1	99	16.58	16.63	16.54						
20	QPSK	50	0	16.58	16.58	16.53						
20	QPSK	50	24	16.43	16.56	16.56	17.3	0				
20	QPSK	50	50	16.45	16.57	16.60						
20	QPSK	100	0	16.59	16.62	16.62						
20	16QAM	1	0	16.42	16.44	16.40						
20	16QAM	1	49	16.62	16.59	16.49	17.3	0				
20	16QAM	1	99	16.31	16.51	16.42						
20	16QAM	50	0	16.52	16.61	16.48						
20	16QAM	50	24	16.35	16.52	16.42						
20	16QAM	50	50	16.53	16.55	16.44	17.3	0				
20	16QAM	100	0	16.52	16.48	16.57						
20	64QAM	1	0	16.43	16.54	16.52						
20	64QAM	1	49	16.30	16.57	16.42						
20	64QAM	1	99	16.57	16.50	16.34	17.3	0				
20	64QAM	50	0	16.48	16.68	16.49						
20	64QAM	50	24	16.55	16.63	16.51						
20	64QAM	50	50	16.51	16.58	16.48						
20	64QAM	100	0	16.51	16.62	16.63	17.3	0				
20	256QAM	1	0	16.51	16.50	16.45						
20	256QAM	1	49	16.55	16.59	16.46						
20	256QAM	1	99	16.40	16.40	16.39						
20	256QAM	50	0	16.35	16.47	16.55	17.3	0				
20	256QAM	50	24	16.50	16.64	16.44						
20	256QAM	50	50	16.45	16.54	16.56						
20	256QAM	100	0	16.44	16.59	16.58						
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				1717.5	1722.5	1747.5						
15	QPSK	1	0	16.45	16.60	16.43	17.3	0				
15	QPSK	1	37	16.39	16.51	16.55						
15	QPSK	1	74	16.38	16.60	16.45						
15	QPSK	36	0	16.50	16.65	16.49						
15	QPSK	36	20	16.34	16.58	16.52	17.3	0				
15	QPSK	36	39	16.37	16.53	16.48						
15	QPSK	75	0	16.40	16.48	16.48						
15	16QAM	1	0	16.30	16.30	16.25						
15	16QAM	1	49	16.42	16.30	16.41	17.3	0				
15	16QAM	1	74	16.20	16.45	16.31						
15	16QAM	36	0	16.45	16.48	16.41						
15	16QAM	36	20	16.33	16.48	16.39		17.3	0			
15	16QAM	75	0	16.42	16.45	16.40						
15	64QAM	1	0	16.39	16.55	16.50						
15	64QAM	1	37	16.30	16.35	16.31		17.3	0			
15	64QAM	1	74	16.39	16.42	16.29						
15	64QAM	36	0	16.41	16.58	16.44						
15	64QAM	36	20	16.51	16.43	16.41	17.3	0				
15	64QAM	75	0	16.36	16.53	16.44						
15	256QAM	1	0	16.27	16.50	16.50						
15	256QAM	1	0	16.37	16.39	16.26	17.3	0				
15	256QAM	1	37	16.46	16.46	16.29						
15	256QAM	1	74	16.34	16.33	16.32						
15	256QAM	36	0	16.33	16.43	16.37		17.3	0			
15	256QAM	36	20	16.47	16.45	16.40						
15	256QAM	36	39	16.41	16.47	16.41						
15	256QAM	75	0	16.43	16.44	16.41	Tune-up limit (dBm)	MPR (dB)				
Channel				20000	20175	20350						
Frequency (MHz)				1711.5	1720.5	1747.5						
10	QPSK	1	0	16.51	16.65	16.52	17.3	0				
10	QPSK	1	25	16.33	16.49	16.51						
10	QPSK	1	49	16.37	16.55	16.33						
10	QPSK	25	0	16.47	16.63	16.60						
10	QPSK	25	12	16.42	16.47	16.52	17.3	0				
10	QPSK	25	25	16.32	16.48	16.45						
10	QPSK	50	0	16.41	16.53	16.52						
10	16QAM	1	0	16.21	16.37	16.23		17.3	0			
10	16QAM	1	25	16.54	16.48	16.31						
10	16QAM	1	49	16.28	16.46	16.44						
10	16QAM	25	0	16.50	16.48	16.38		17.3	0			
10	16QAM	25	12	16.32	16.51	16.31						
10	16QAM	25	25	16.34	16.48	16.44						
10	16QAM	50	0	16.44	16.45	16.46		17.3	0			
10	64QAM	1	0	16.35	16.59	16.48						
10	64QAM	1	25	16.35	16.44	16.32						
10	64QAM	1	49	16.32	16.47	16.35		17.3	0			
10	64QAM	25	0	16.35	16.49	16.40						
10	64QAM	25	12	16.38	16.48	16.47						
10	64QAM	25	25	16.39	16.58	16.39		17.3	0			
10	64QAM	50	0	16.38	16.57	16.47						
10	256QAM	1	0	16.40	16.50	16.36	17.3	0				
10	256QAM	1	25	16.34	16.42	16.32						
10	256QAM	1	49	16.27	16.39	16.29						
10	256QAM	25	0	16.31	16.44	16.33		17.3	0			
10	256QAM	25	12	16.47	16.45	16.40						
10	256QAM	25	25	16.38	16.47	16.46						
10	256QAM	50	0	16.45	16.50	16.45	Tune-up limit (dBm)	MPR (dB)				
Channel				1707.5	1712.5	1752.5						
Frequency (MHz)				1712.5	1720.5	1752.5						
5	QPSK	1	0	16.50	16.61	16.52	17.3	0				
5	QPSK	1	12	16.44	16.53	16.43						
5	QPSK	1	24	16.44	16.48	16.43						
5	QPSK	12	0	16.48	16.58	16.48		17.3	0			
5	QPSK	12	7	16.47	16.51	16.59						
5	QPSK	12	13	16.43	16.48	16.55						
5	QPSK	25	0	16.40	16.51	16.57	17.3	0				
5	16QAM	1	0	16.35	16.38	16.15						
5	16QAM	1	12	16.44	16.50	16.36						
5	16QAM	1	24	16.29	16.38	16.40		17.3	0			
5	16QAM	12	0	16.49	16.44	16.26						
5	16QAM	12	7	16.29	16.43	16.30						
5	16QAM	12	13	16.31	16.44	16.41	17.3	0				
5	16QAM	25	0	16.45	16.51	16.39						
5	64QAM	1	0	16.34	16.47	16.40						
5	64QAM	1	12	16.22	16.36	16.31		17.3	0			
5	64QAM	1	24	16.34	16.46	16.28						
5	64QAM	12	0	16.30	16.50	16.40						
5	64QAM	12	7	16.39	16.57	16.44	17.3	0				
5	64QAM	12	13	16.33	16.56	16.37						
5	64QAM	25	0	16.41	16.46	16.48						
5	256QAM	1	0	16.45	16.39	16.25	17.3	0				
5	256QAM	1	12	16.42	16.38	16.34						
5	256QAM	1	24	16.30	16.28	16.29						
5	256QAM	12	0	16.37	16.42	16.44		17.3	0			
5	256QAM	12	7	16.36	16.51	16.47						
5	256QAM	12	13	16.45	16.50	16.33						
5	256QAM	25	0	16.47	16.55	16.38	Tune-up limit (dBm)	MPR (dB)				
Channel				1711.5	1752.5	1755.5						
Frequency (MHz)				1711.5	1752.5	1755.5						
3	QPSK	1	0	16.44	16.53	16.43	17.3	0				
3	QPSK	1	8	16.42	16.53	16.58						
3	QPSK	1	14	16.40	16.60	16.42						
3	QPSK	8	0	16.39	16.58	16.61		17.3	0			
3	QPSK	8	4	16.34	16.51	16.51						
3	QPSK	8	7	16.37	16.54	16.44	17.3	0				
3	QPSK	15	0	16.48	16.50	16.50						
3	16QAM	1	0	16.22	16.40	16.19						
3	16QAM	1	8	16.41	16.50	16.41		17.3	0			
3	16QAM	1	14	16.20	16.34	16.41						
3	16QAM	8	0	16.50	16.56	16.26						
3	16QAM	8	7	16.30	16.52	16.30	17.3	0				
3	16QAM	8	14	16.43	16.50	16.42						
3	16QAM	15	0	16.45	16.48	16.38						
3	64QAM	1	0	16.44	16.53	16.37		17.3	0			
3	64QAM	1	8	16.34	16.34	16.30						
3	64QAM	1	14	16.47	16.45	16.32						
3	64QAM	8	0	16.39	16.49	16.36	17.3	0				
3	64QAM	8	7	16.36	16.52	16.48						
3	64QAM	8	14	16.43	16.55	16.36						
3	256QAM	15	0	16.28	16.56	16.49		17.3	0			
3	256QAM	1	0	16.44	16.52	16.33						
3	256QAM	1	8	16.33	16.50	16.25						
3	256QAM	1	14	16.38	16.31	16.25	17.3	0				
3	256QAM	8	0	16.27	16.37	16.37						
3	256QAM	8	4	16.35	16.52	16.34						
3	256QAM	8	7	16.46	16.50	16.39		17.3	0			
3	256QAM	15	0	16.41	16.41	16.41						
Channel				19867	20175	20385	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				19917	19925	19934						
1.4	QPSK	1	0	16.45	16.60	16.45	17.3	0				
1.4	QPSK	1	3	16.39	16.64	16.50						
1.4	QPSK	1	5	16.43	16.55	16.62						
1.4	QPSK	3	0	16.43	16.55	16.51						
1.4	QPSK	3	1	16.43	16.56	16.44	17.3	0				
1.4	QPSK	3	3	16.42	16.51	16.53						
1.4	QPSK	6	0	16.46	16.58	16.44						
1.4	16QAM	1	0	16.29	16.42	16.28						
1.4	16QAM	1	3	16.52	16.51	16.35	17.3	0				
1.4	16QAM	1	5	16.19	16.42	16.33						
1.4	16QAM	3	1	16.40	16.49	16.30						
1.4	16QAM	3	3	16.29	16.41	16.34						
1.4	16QAM	6	0	16.47	16.47	16.51	17.3	0				
1.4	64QAM	1	0	16.31	16.51	16.35						
1.4	64QAM	1	3	16.32	16.32	16.31						
1.4	64QAM	1	5	16.42	16.50	16.34						
1.4	64QAM	3	0	16.44	16.52	16.42	17.3	0				
1.4	64QAM	3	1	16.45	16.58	16.48						
1.4	64QAM	3	3	16.41	16.47	16.32						
1.4	64QAM	6	0	16.36	16.56	16.49						
1.4	256QAM	1	0	16.43	16.43	16.27	17.3	0				
1.4	256QAM	1	3	16.40	16.42	16.36						
1.4	256QAM	1	5	16.37	16.39	16.26						
1.4	256QAM	3	0	16.46	16.37	16.32						

Band 5_Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600	24.8	0
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	23.82	23.86	23.77	24.8	0
10	QPSK	1	25	23.77	23.84	23.72		
10	QPSK	1	49	23.68	23.72	23.61		
10	QPSK	25	0	22.81	22.90	22.79		
10	QPSK	25	12	22.76	22.89	22.78		
10	QPSK	25	25	22.80	22.85	22.76	23.8	1
10	QPSK	50	0	22.74	22.88	22.80		
10	16QAM	1	0	23.09	23.18	23.16		
10	16QAM	1	25	23.16	23.14	23.17		
10	16QAM	1	49	23.15	23.11	23.21		
10	16QAM	25	0	21.77	21.80	21.76	22.8	2
10	16QAM	25	12	21.78	21.89	21.83		
10	16QAM	25	25	21.79	21.87	21.75		
10	16QAM	50	0	21.73	21.85	21.78		
10	64QAM	1	0	22.01	22.02	21.82		
10	64QAM	1	25	22.00	22.02	22.06	22.8	2
10	64QAM	1	49	22.01	21.98	21.97		
10	64QAM	25	0	20.78	20.79	20.72		
10	64QAM	25	12	20.79	20.91	20.85		
10	64QAM	25	25	20.85	20.85	20.71		
10	64QAM	50	0	20.72	20.85	20.80	21.8	3
10	256QAM	1	0	18.97	19.00	18.81		
10	256QAM	1	25	18.83	19.02	19.00		
10	256QAM	1	49	18.78	18.85	18.86		
10	256QAM	25	0	18.83	18.88	18.80		
10	256QAM	25	12	18.89	18.89	18.87	19.8	5
10	256QAM	25	25	18.77	18.95	18.95		
10	256QAM	50	0	18.88	19.00	18.82		
Channel				20425	20525	20625		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	23.75	23.71	23.67	24.8	0
5	QPSK	1	12	23.81	23.82	23.73		
5	QPSK	1	24	23.76	23.68	23.61		
5	QPSK	12	0	22.80	22.73	22.66		
5	QPSK	12	7	22.89	22.85	22.76		
5	QPSK	12	13	22.88	22.80	22.71	23.8	1
5	QPSK	25	0	22.87	22.74	22.64		
5	16QAM	1	0	23.18	23.13	23.12		
5	16QAM	1	12	23.24	23.21	23.09		
5	16QAM	1	24	23.09	23.09	22.97		
5	16QAM	12	0	21.84	21.82	21.70	22.8	2
5	16QAM	12	7	21.98	21.88	21.85		
5	16QAM	12	13	21.81	21.83	21.78		
5	16QAM	25	0	21.89	21.72	21.68		
5	64QAM	1	0	22.02	21.98	21.88		
5	64QAM	1	12	22.05	22.18	21.98	22.8	2
5	64QAM	1	24	22.02	22.18	22.02		
5	64QAM	12	0	20.79	20.75	20.72		
5	64QAM	12	7	20.92	20.87	20.81		
5	64QAM	12	13	20.89	20.82	20.73		
5	64QAM	25	0	20.89	20.76	20.68	21.8	3
5	256QAM	1	0	18.95	18.95	18.80		
5	256QAM	1	12	18.83	18.97	19.00		
5	256QAM	1	24	18.78	18.76	18.78		
5	256QAM	12	0	18.74	18.75	18.74		
5	256QAM	12	7	18.80	18.75	18.78	19.8	5
5	256QAM	12	13	18.75	18.93	18.82		
5	256QAM	25	0	18.79	18.87	18.89		
Channel				20415	20525	20635		
Frequency (MHz)				825.5	835.5	845.5		
3	QPSK	1	0	23.78	23.65	23.55	24.8	0
3	QPSK	1	8	23.82	23.81	23.67		
3	QPSK	1	14	23.77	23.71	23.57		
3	QPSK	8	0	22.86	22.75	22.67		
3	QPSK	8	4	22.88	22.82	22.67		
3	QPSK	8	7	22.87	22.79	22.71	23.8	1
3	QPSK	15	0	22.86	22.70	22.61		
3	16QAM	1	0	23.08	23.07	22.91		
3	16QAM	1	8	23.27	23.33	23.14		
3	16QAM	1	14	23.03	23.00	22.93		
3	16QAM	8	0	22.01	21.80	21.75	22.8	2
3	16QAM	8	4	21.99	21.81	21.78		
3	16QAM	8	7	21.97	21.90	21.75		
3	16QAM	15	0	21.98	21.73	21.67		
3	64QAM	1	0	22.16	21.81	21.67		
3	64QAM	1	8	22.14	21.99	21.93	22.8	2
3	64QAM	1	14	22.09	21.91	21.89		
3	64QAM	8	0	20.93	20.77	20.71		
3	64QAM	8	4	20.97	20.90	20.73		
3	64QAM	8	7	20.93	20.85	20.80		
3	64QAM	15	0	20.89	20.75	20.64	21.8	3
3	256QAM	1	0	18.81	18.99	18.83		
3	256QAM	1	8	18.83	18.91	18.90		
3	256QAM	1	14	18.68	18.83	18.84		
3	256QAM	8	0	18.74	18.84	18.78		
3	256QAM	8	4	18.77	18.70	18.75	19.8	5
3	256QAM	8	7	18.74	18.81	18.80		
3	256QAM	15	0	18.71	18.90	18.70		
Channel				20407	20525	20643		
Frequency (MHz)				824.7	835.5	846.3		
1.4	QPSK	1	0	23.75	23.76	23.67	24.8	0
1.4	QPSK	1	3	23.82	23.75	23.63		
1.4	QPSK	1	5	23.82	23.66	23.64		
1.4	QPSK	3	0	23.83	23.73	23.70		
1.4	QPSK	3	1	23.81	23.80	23.71		
1.4	QPSK	3	3	23.81	23.80	23.71	23.8	1
1.4	QPSK	6	0	21.86	21.88	21.89		
1.4	16QAM	1	0	23.28	23.31	23.17		
1.4	16QAM	1	3	23.43	23.23	23.17		
1.4	16QAM	1	5	23.38	23.13	23.02		
1.4	16QAM	3	0	23.01	22.95	22.82	23.8	1
1.4	16QAM	3	1	23.10	22.92	22.91		
1.4	16QAM	3	3	23.03	22.95	22.95		
1.4	16QAM	6	0	21.98	21.84	21.81		
1.4	64QAM	1	0	22.05	21.99	21.88		
1.4	64QAM	1	3	22.04	22.15	21.94	22.8	2
1.4	64QAM	1	5	22.00	22.02	21.88		
1.4	64QAM	3	0	21.98	21.89	21.81		
1.4	64QAM	3	1	21.98	21.81	21.87		
1.4	64QAM	3	3	21.95	21.94	21.79		
1.4	64QAM	6	0	20.86	20.77	20.75	21.8	3
1.4	256QAM	1	0	18.81	18.94	18.83		
1.4	256QAM	1	3	18.76	18.91	18.82		
1.4	256QAM	1	5	18.86	18.76	18.80		
1.4	256QAM	3	0	18.90	18.70	18.71		
1.4	256QAM	3	1	18.74	18.74	18.84	19.8	5
1.4	256QAM	3	3	18.86	18.94	18.92		
1.4	256QAM	6	0	18.95	18.89	18.89		
Channel				824.7	835.5	846.3		
Frequency (MHz)				824.7	835.5	846.3		
1.4	QPSK	1	0	23.67	23.83	23.70	24.8	0
1.4	QPSK	1	3	23.81	23.81	23.78		
1.4	QPSK	1	5	23.95	23.87	23.75		
1.4	QPSK	3	0	23.93	23.90	23.79		
1.4	QPSK	3	1	23.98	23.88	23.80		
1.4	QPSK	3	3	23.93	23.90	23.76	23.8	1
1.4	QPSK	6	0	21.96	21.82	21.83		
1.4	16QAM	1	0	23.38	23.37	23.13		
1.4	16QAM	1	3	23.37	23.35	23.16		
1.4	16QAM	1	5	23.50	23.32	23.08		
1.4	16QAM	3	0	23.21	22.98	23.02	23.8	1
1.4	16QAM	3	1	23.17	23.10	22.92		
1.4	16QAM	3	3	23.23	23.14	22.88		
1.4	16QAM	6	0	22.01	21.91	21.87		
1.4	64QAM	1	0	22.21	22.15	21.99		
1.4	64QAM	1	3	22.19	22.17	22.08	22.8	2
1.4	64QAM	1	5	22.15	22.12	21.88		
1.4	64QAM	3	0	22.11	21.99	21.96		
1.4	64QAM	3	1	22.03	21.97	21.97		
1.4	64QAM	3	3	22.17	22.03	21.92		
1.4	256QAM	1	0	21.01	20.88	20.86	21.8	3
1.4	256QAM	1	1	19.00	19.02	18.82		
1.4	256QAM	1	3	18.84	18.94	18.89		
1.4	256QAM	1	5	18.70	18.92	18.70		
1.4	256QAM	3	0	18.61	18.85	18.84		
1.4	256QAM	3	1					

Band 7_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 Frequency (MHz)				20850	21100	21350	21.2	0	
20	QPSK	1	0	20.58	20.61	20.57			
20	QPSK	1	49	20.43	20.32	20.42			
20	QPSK	50	0	20.45	20.30	20.31			
20	QPSK	50	0	20.51	20.52	20.43			
20	QPSK	50	24	20.42	20.28	20.30	21.2	0	
20	QPSK	50	0	20.49	20.28	20.28			
20	QPSK	100	0	20.41	20.43	20.28			
20	16QAM	1	0	20.41	20.30	20.33			
20	16QAM	50	0	20.53	20.40	20.29			
20	16QAM	1	99	20.46	20.35	20.41	21.2	0	
20	16QAM	50	0	20.55	20.41	20.42			
20	16QAM	50	24	20.55	20.50	20.44			
20	16QAM	50	50	20.51	20.50	20.51			
20	16QAM	100	0	20.51	20.49	20.49			
20	64QAM	1	49	20.58	20.53	20.58	21.2	0	
20	64QAM	1	99	20.51	20.57	20.60			
20	64QAM	1	99	20.55	20.52	20.59			
20	64QAM	50	0	19.51	19.44	19.41			
20	64QAM	50	24	19.54	19.50	19.41			
20	64QAM	50	50	19.49	19.50	19.46	19.7	1.5	
20	256QAM	1	0	19.51	19.49	19.50			
20	256QAM	1	0	16.88	17.05	17.01			
20	256QAM	1	49	17.03	17.11	16.94			
20	256QAM	99	1	17.07	17.09	17.06			
20	256QAM	50	0	17.14	17.15	17.00	17.7	3.5	
20	256QAM	50	24	16.85	17.02	16.97			
20	256QAM	50	50	16.86	17.00	16.94			
20	256QAM	100	0	17.07	17.10	17.08			
20	256QAM	100	0	20.425	21.100	21.375			
Channel Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	20.49	20.47	20.50	21.2	0	
15	QPSK	1	37	20.26	20.19	20.34			
15	QPSK	1	74	20.40	20.23	20.22			
15	QPSK	36	0	20.43	20.39	20.40			
15	QPSK	36	20	20.30	20.26	20.16			
15	QPSK	36	39	20.36	20.18	20.34	21.2	0	
15	QPSK	36	0	20.36	20.18	20.34			
15	QPSK	75	0	20.34	20.34	20.16			
15	16QAM	1	0	20.36	20.23	20.27			
15	16QAM	1	37	20.49	20.27	20.17			
15	16QAM	1	74	20.35	20.33	20.35	21.2	0	
15	16QAM	36	0	20.49	20.33	20.40			
15	16QAM	36	20	20.44	20.44	20.39			
15	16QAM	36	39	20.43	20.38	20.40			
15	16QAM	75	0	20.51	20.48	20.45			
15	64QAM	1	0	20.53	20.43	20.50	21.2	0	
15	64QAM	1	37	20.44	20.46	20.46			
15	64QAM	1	74	20.54	20.49	20.45			
15	64QAM	36	0	19.43	19.43	19.31			
15	64QAM	36	20	19.50	19.40	19.36			
15	64QAM	36	39	19.47	19.38	19.37	19.7	1.5	
15	64QAM	75	0	19.40	19.42	19.49			
15	256QAM	1	0	16.85	17.02	16.98			
15	256QAM	1	37	16.86	17.05	16.85			
15	256QAM	1	74	17.03	16.99	17.05			
15	256QAM	36	0	17.04	17.06	16.92	17.7	3.5	
15	256QAM	36	39	16.83	16.96	16.96			
15	256QAM	36	39	16.84	16.99	16.83			
15	256QAM	75	0	17.02	17.03	17.06			
15	256QAM	75	0	20.003	21.100	21.375			
Channel Frequency (MHz)				2505	2535	2567.5	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	20.53	20.49	20.50	21.2	0	
10	QPSK	1	25	20.39	20.28	20.31			
10	QPSK	1	49	20.39	20.20	20.16			
10	QPSK	25	0	20.46	20.48	20.19			
10	QPSK	25	0	20.41	20.19	20.27			
10	QPSK	25	25	20.44	20.15	20.31	21.2	0	
10	QPSK	50	0	20.39	20.38	20.24			
10	16QAM	1	0	20.27	20.22	20.27			
10	16QAM	1	25	20.41	20.39	20.15			
10	16QAM	1	49	20.32	20.31	20.40			
10	16QAM	25	0	20.45	20.38	20.37	21.2	0	
10	16QAM	25	12	20.43	20.46	20.38			
10	16QAM	25	25	20.44	20.35	20.46			
10	16QAM	50	0	20.49	20.40	20.35			
10	64QAM	1	0	20.43	20.39	20.43			
10	64QAM	1	25	20.50	20.44	20.56	21.2	0	
10	64QAM	1	49	20.54	20.47	20.59			
10	64QAM	25	0	19.46	19.33	19.37			
10	64QAM	25	12	19.53	19.44	19.31			
10	64QAM	25	25	19.40	19.46	19.40			
10	64QAM	50	0	19.43	19.48	19.48	19.7	1.5	
10	256QAM	1	0	16.85	17.01	16.95			
10	256QAM	1	25	16.86	17.10	16.92			
10	256QAM	1	49	17.03	17.05	17.02			
10	256QAM	25	0	17.08	17.10	16.95			
10	256QAM	25	12	16.82	16.82	16.86	17.7	3.5	
10	256QAM	25	25	16.85	16.87	16.82			
10	256QAM	50	0	17.02	16.99	16.96			
10	256QAM	50	0	20.075	21.100	21.425			
Channel Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	20.53	20.49	20.50	21.2	0	
5	QPSK	1	12	20.33	20.20	20.31			
5	QPSK	1	24	20.35	20.25	20.30			
5	QPSK	12	0	20.44	20.47	20.27			
5	QPSK	12	7	20.34	20.22	20.26			
5	QPSK	12	13	20.39	20.13	20.23	21.2	0	
5	QPSK	25	0	20.30	20.31	20.16			
5	16QAM	1	0	20.30	20.19	20.26			
5	16QAM	1	12	20.42	20.34	20.12			
5	16QAM	1	24	20.34	20.20	20.26	21.2	0	
5	16QAM	12	0	20.53	20.33	20.32			
5	16QAM	12	7	20.53	20.40	20.36			
5	16QAM	12	13	20.39	20.45	20.51			
5	16QAM	25	0	20.44	20.34	20.48			
5	64QAM	1	0	20.56	20.42	20.57	21.2	0	
5	64QAM	1	12	20.39	20.49	20.47			
5	64QAM	1	24	20.54	20.50	20.51			
5	64QAM	12	0	19.48	19.35	19.30			
5	64QAM	12	7	19.44	19.48	19.32			
5	64QAM	12	13	19.44	19.42	19.37	19.7	1.5	
5	64QAM	25	0	19.50	19.48	19.41			
5	256QAM	1	0	16.81	16.97	16.95			
5	256QAM	1	12	17.01	17.08	16.89			
5	256QAM	1	24	17.04	17.07	16.95			
5	256QAM	12	0	17.05	17.06	16.93	17.7	3.5	
5	256QAM	12	7	16.73	16.90	16.93			
5	256QAM	12	13	16.84	16.85	16.91			
5	256QAM	25	0	16.80	16.98	17.00			
5	256QAM	25	0	20.075	21.100	21.425			

Band 7 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				20850	21100	21350			
Frequency (MHz)				2310	2325	2340			
20	QPSK	1	0	23.52	23.53	23.50	24.1	0	
20	QPSK	1	49	23.40	23.53	23.52			
20	QPSK	1	99	23.44	23.45	23.51			
20	QPSK	50	0	22.51	22.50	22.54			
20	QPSK	50	24	22.46	22.56	22.51			
20	QPSK	50	50	22.50	22.51	22.49	23.1	1	
20	QPSK	100	0	22.51	22.50	22.53			
20	16QAM	1	0	22.87	22.81	22.70	23.1	1	
20	16QAM	1	49	23.00	22.83	22.81			
20	16QAM	50	0	22.77	22.80	22.75			
20	16QAM	50	0	21.72	21.67	21.58			
20	16QAM	50	24	21.73	21.67	21.59			
20	16QAM	50	50	21.69	21.65	21.65	22.1	2	
20	16QAM	100	0	21.72	21.64	21.65			
20	64QAM	1	0	21.76	21.68	21.67	22.1	2	
20	64QAM	1	49	21.77	21.75	21.69			
20	64QAM	1	99	21.70	21.74	21.78			
20	64QAM	50	0	20.73	20.65	20.57			
20	64QAM	50	24	20.74	20.65	20.60			
20	64QAM	50	50	20.69	20.65	20.65	21.1	3	
20	64QAM	100	0	20.71	20.65	20.65			
20	256QAM	1	0	18.53	18.60	18.54	19.1	5	
20	256QAM	1	49	18.44	18.55	18.43			
20	256QAM	1	99	18.40	18.50	18.34			
20	256QAM	50	0	18.49	18.49	18.48			
20	256QAM	50	24	18.58	18.59	18.46			
20	256QAM	50	50	18.43	18.62	18.65	19.1	5	
20	256QAM	100	0	18.36	18.32	18.36			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.5	2525	2549.5			
15	QPSK	1	0	23.42	23.42	23.42	24.1	0	
15	QPSK	1	37	23.35	23.38	23.43			
15	QPSK	1	74	23.37	23.35	23.33			
15	QPSK	36	0	22.56	22.51	22.49			
15	QPSK	36	20	22.71	22.47	22.52			
15	QPSK	36	39	22.46	22.48	22.48	23.1	1	
15	QPSK	75	0	22.69	22.53	22.52			
15	16QAM	1	0	22.85	22.66	22.59	23.1	1	
15	16QAM	1	37	22.92	22.70	22.67			
15	16QAM	1	74	22.58	22.69	22.57			
15	16QAM	36	0	21.84	21.62	21.50			
15	16QAM	36	20	21.69	21.62	21.49			
15	16QAM	36	39	21.60	21.51	21.56	22.1	2	
15	16QAM	75	0	21.54	21.61	21.47			
15	64QAM	1	0	21.57	21.60	21.49	22.1	2	
15	64QAM	1	37	21.84	21.65	21.56			
15	64QAM	1	74	21.54	21.59	21.62			
15	64QAM	36	0	20.63	20.55	20.41			
15	64QAM	36	20	20.70	20.56	20.56			
15	64QAM	36	39	20.61	20.63	20.57	21.1	3	
15	64QAM	75	0	20.59	20.65	20.53			
15	256QAM	1	0	18.38	18.59	18.39	19.1	5	
15	256QAM	1	37	18.34	18.44	18.33			
15	256QAM	1	74	18.41	18.48	18.31			
15	256QAM	36	0	18.41	18.56	18.40			
15	256QAM	36	20	18.46	18.35	18.34			
15	256QAM	36	39	18.28	18.45	18.45	19.1	5	
15	256QAM	75	0	18.24	18.39	18.24			
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2525	2555			
10	QPSK	1	0	23.39	23.46	23.46	24.1	0	
10	QPSK	1	25	23.34	23.33	23.39			
10	QPSK	1	49	23.44	23.37	23.33			
10	QPSK	25	0	22.70	22.58	22.44			
10	QPSK	25	12	22.67	22.54	22.45			
10	QPSK	25	25	22.58	22.59	22.66	23.1	1	
10	QPSK	50	0	22.52	22.46	22.60			
10	16QAM	1	0	22.85	22.81	22.65	23.1	1	
10	16QAM	1	25	22.85	22.81	23.01			
10	16QAM	1	49	22.80	22.71	22.84			
10	16QAM	25	0	21.61	21.68	21.47			
10	16QAM	25	12	21.57	21.55	21.43			
10	16QAM	25	25	21.50	21.46	21.46	22.1	2	
10	64QAM	50	0	21.67	21.59	21.60			
10	64QAM	1	0	21.62	21.66	21.53	22.1	2	
10	64QAM	1	25	21.76	21.63	21.66			
10	64QAM	1	49	21.64	21.55	21.75			
10	64QAM	25	0	20.56	20.49	20.40			
10	64QAM	25	12	20.57	20.53	20.43			
10	64QAM	25	25	20.64	20.65	20.61	21.1	3	
10	64QAM	50	0	20.53	20.50	20.47			
10	256QAM	1	0	18.45	18.56	18.48	19.1	5	
10	256QAM	1	25	18.37	18.55	18.36			
10	256QAM	1	49	18.30	18.35	18.20			
10	256QAM	25	0	18.40	18.39	18.39			
10	256QAM	25	12	18.41	18.44	18.29			
10	256QAM	25	25	18.24	18.50	18.41	19.1	5	
10	256QAM	50	0	18.24	18.48	18.24			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2525	2547.5			
5	QPSK	1	0	23.33	23.44	23.50	24.1	0	
5	QPSK	1	12	23.25	23.49	23.33			
5	QPSK	1	24	23.33	23.39	23.43			
5	QPSK	12	0	22.53	22.54	22.45			
5	QPSK	12	7	22.59	22.58	22.41			
5	QPSK	12	13	22.62	22.59	22.66	23.1	1	
5	QPSK	25	0	22.57	22.54	22.53			
5	16QAM	1	0	22.86	22.67	22.59	23.1	1	
5	16QAM	1	12	22.92	22.70	23.00			
5	16QAM	1	24	22.65	22.78	22.63			
5	16QAM	12	0	21.69	21.63	21.55			
5	16QAM	12	7	21.59	21.62	21.45			
5	16QAM	12	13	21.67	21.64	21.63	22.1	2	
5	16QAM	25	0	21.60	21.55	21.53			
5	64QAM	1	0	21.65	21.59	21.56	22.1	2	
5	64QAM	1	12	21.64	21.71	21.58			
5	64QAM	12	0	20.69	20.36	20.51			
5	64QAM	12	7	20.56	20.49	20.42			
5	64QAM	12	13	20.59	20.65	20.65			
5	64QAM	25	0	20.64	20.65	20.60	21.1	3	
5	64QAM	25	7	18.45	18.55	18.46			
5	256QAM	1	0	18.34	18.50	18.33	19.1	5	
5	256QAM	1	12	18.41	18.48	18.31			
5	256QAM	12	0	18.45	18.50	18.44			
5	256QAM	12	7	18.52	18.51	18.40			
5	256QAM	12	13	18.43	18.60	18.60			
5	256QAM	25	0	18.24	18.42	18.20	19.1	5	

Band 7_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)				20850	21100	21350	14.8	0	
Frequency (MHz)				20850	21100	21350			
20	QPSK	1	0	13.74	13.81	13.77	14.8	0	
20	QPSK	1	49	13.69	13.72	13.72			
20	QPSK	50	0	13.62	13.65	13.65			
20	QPSK	50	0	13.57	13.58	13.60			
20	QPSK	50	24	13.50	13.51	13.56	14.8	0	
20	QPSK	50	0	13.52	13.57	13.59			
20	QPSK	100	0	13.51	13.56	13.55			
20	16QAM	1	0	13.49	13.54	13.61			
20	16QAM	1	0	13.57	13.58	13.57	14.8	0	
20	16QAM	1	99	13.51	13.58	13.44			
20	16QAM	50	0	13.65	13.70	13.72			
20	16QAM	50	24	13.66	13.54	13.41			
20	16QAM	50	50	13.54	13.60	13.63	14.8	0	
20	16QAM	100	0	13.63	13.56	13.60			
20	16QAM	1	0	13.52	13.58	13.70			
20	16QAM	1	49	13.52	13.53	13.78			
20	16QAM	1	99	13.57	13.42	13.61	14.8	0	
20	16QAM	50	0	13.60	13.63	13.53			
20	16QAM	50	24	13.73	13.42	13.53			
20	16QAM	50	50	13.54	13.67	13.55			
20	16QAM	100	0	13.63	13.58	13.67	14.8	0	
20	256QAM	1	0	13.56	13.49	13.59			
20	256QAM	1	49	13.72	13.61	13.45			
20	256QAM	1	99	13.56	13.57	13.59			
20	256QAM	50	0	13.64	13.45	13.46	14.8	0	
20	256QAM	50	24	13.62	13.55	13.64			
20	256QAM	50	50	13.68	13.63	13.58			
20	256QAM	100	0	13.63	13.59	13.40			
Channel Frequency (MHz)				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	13.56	13.72	13.69	14.8	0	
15	QPSK	1	37	13.62	13.56	13.67			
15	QPSK	1	74	13.42	13.53	13.49			
15	QPSK	36	0	13.42	13.49	13.49			
15	QPSK	36	20	13.34	13.37	13.48	14.8	0	
15	QPSK	36	39	13.32	13.38	13.45			
15	QPSK	75	0	13.38	13.51	13.39			
15	16QAM	1	0	13.42	13.37	13.54			
15	16QAM	1	37	13.58	13.39	13.55	14.8	0	
15	16QAM	1	74	13.97	13.53	13.31			
15	16QAM	36	0	13.58	13.50	13.67			
15	16QAM	36	20	13.58	13.37	13.23			
15	16QAM	36	39	13.45	13.47	13.46	14.8	0	
15	16QAM	75	0	13.57	13.38	13.51			
15	16QAM	1	1	13.40	13.39	13.59			
15	16QAM	1	37	13.42	13.39	13.73			
15	16QAM	36	0	13.50	13.36	13.41	14.8	0	
15	16QAM	36	20	13.57	13.35	13.37			
15	16QAM	36	39	13.46	13.41	13.38			
15	16QAM	36	75	13.44	13.53	13.49			
15	256QAM	1	0	13.51	13.36	13.49	14.8	0	
15	256QAM	1	37	13.60	13.42	13.40			
15	256QAM	1	74	13.48	13.41	13.54			
15	256QAM	36	0	13.50	13.38	13.28			
15	256QAM	36	20	13.56	13.45	13.57	14.8	0	
15	256QAM	36	39	13.41	13.55	13.53			
15	256QAM	75	0	13.53	13.47	13.34			
Channel Frequency (MHz)				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	13.55	13.67	13.66	14.8	0	
10	QPSK	1	25	13.59	13.52	13.64			
10	QPSK	1	49	13.57	13.50	13.46			
10	QPSK	25	0	13.38	13.61	13.43			
10	QPSK	12	0	13.33	13.53	13.38	14.8	0	
10	QPSK	25	25	13.36	13.40	13.43			
10	QPSK	50	0	13.38	13.43	13.43			
10	16QAM	1	13.31	13.37	13.42	13.42			
10	16QAM	1	25	13.56	13.50	13.58	14.8	0	
10	16QAM	1	49	13.39	13.46	13.34			
10	16QAM	25	0	13.51	13.59	13.51			
10	16QAM	25	12	13.59	13.45	13.25			
10	16QAM	25	25	13.34	13.46	13.44	14.8	0	
10	16QAM	50	0	13.48	13.39	13.42			
10	16QAM	1	0	13.38	13.49	13.56			
10	16QAM	1	25	13.36	13.47	13.70			
10	16QAM	1	49	13.42	13.35	13.46	14.8	0	
10	16QAM	25	0	13.55	13.47	13.41			
10	16QAM	25	12	13.55	13.25	13.43			
10	16QAM	25	25	13.46	13.49	13.45			
10	16QAM	50	0	13.46	13.46	13.49	14.8	0	
10	256QAM	1	0	13.50	13.44	13.52			
10	256QAM	1	25	13.61	13.43	13.30			
10	256QAM	1	49	13.41	13.42	13.52			
10	256QAM	25	0	13.48	13.28	13.29			
10	256QAM	25	12	13.52	13.36	13.52	14.8	0	
10	256QAM	25	25	13.51	13.49	13.40			
10	256QAM	50	0	13.45	13.44	13.24			
Channel Frequency (MHz)				20775	21100	21325	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				20775	21100	21325	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	13.57	13.64	13.63	14.8	0	
5	QPSK	1	12	13.50	13.61	13.61			
5	QPSK	1	24	13.45	13.60	13.51			
5	QPSK	12	0	13.52	13.48	13.42			
5	QPSK	12	7	13.30	13.39	13.45	14.8	0	
5	QPSK	12	13	13.34	13.52	13.50			
5	QPSK	25	0	13.44	13.38	13.45			
5	16QAM	1	0	13.33	13.49	13.47			
5	16QAM	1	12	13.57	13.39	13.45	14.8	0	
5	16QAM	1	24	13.41	13.53	13.25			
5	16QAM	12	0	13.52	13.56	13.60			
5	16QAM	12	7	13.50	13.36	13.29			
5	16QAM	12	13	13.38	13.47	13.45	14.8	0	
5	16QAM	25	0	13.53	13.45	13.50			
5	16QAM	1	0	13.43	13.47	13.60			
5	16QAM	1	12	13.36	13.46	13.60			
5	16QAM	1	24	13.46	13.28	13.56	14.8	0	
5	16QAM	12	0	13.46	13.54	13.40			
5	16QAM	12	7	13.63	13.25	13.34			
5	16QAM	12	13	13.49	13.40	13.39			
5	16QAM	25	0	13.57	13.39	13.47	14.8	0	
5	256QAM	1	0	13.43	13.36	13.49			
5	256QAM	1	12	13.59	13.49	13.36			
5	256QAM	1	24	13.37	13.41	13.40			
5	256QAM	12	0	13.54	13.27	13.27	14.8	0	
5	256QAM	12	7	13.44	13.41	13.56			
5	256QAM	12	13	13.49	13.52	13.50			
5	256QAM	25	0	13.47	13.52	13.34			

Band 7_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				20850	21100	21350			
Frequency (MHz)				2310	2525	2560			
20	QPSK	1	0	20.77	20.74	20.70	21.6	0	
20	QPSK	1	49	20.68	20.78	20.71			
20	QPSK	1	99	20.63	20.69	20.49			
20	QPSK	50	0	20.70	20.74	20.58			
20	QPSK	50	24	20.57	20.71	20.58	21.6	0	
20	QPSK	50	50	20.62	20.69	20.52	21.6	0	
20	QPSK	100	0	20.63	20.70	20.56			
20	16QAM	1	0	20.48	20.55	20.38			
20	16QAM	1	49	20.35	20.51	20.38			
20	16QAM	1	99	20.36	20.45	20.37	21	0.6	
20	16QAM	50	0	19.71	19.88	19.68			
20	16QAM	50	24	19.81	19.90	19.85			
20	16QAM	50	50	19.79	19.88	19.83			
20	16QAM	100	0	19.81	19.82	19.76	21	0.6	
20	64QAM	1	0	19.96	19.90	19.87			
20	64QAM	1	49	19.72	19.84	19.82			
20	64QAM	1	99	19.88	19.92	19.86			
20	64QAM	50	0	18.82	18.95	18.79	20	1.6	
20	64QAM	50	24	18.76	18.90	18.82			
20	64QAM	50	50	18.92	19.00	18.98			
20	64QAM	100	0	18.75	18.85	18.66			
20	256QAM	1	0	16.81	16.88	16.78	18	3.6	
20	256QAM	1	49	16.77	16.85	16.67			
20	256QAM	1	99	16.80	16.81	16.62			
20	256QAM	50	0	16.81	16.80	16.50			
20	256QAM	50	24	16.69	16.87	16.70	18	3.6	
20	256QAM	50	50	16.73	16.88	16.88			
20	256QAM	100	0	16.68	16.84	16.73			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2525	2565.5			
15	QPSK	1	0	20.71	20.71	20.63	21.6	0	
15	QPSK	1	37	20.55	20.75	20.66			
15	QPSK	1	74	20.48	20.56	20.38			
15	QPSK	36	0	20.59	20.61	20.40			
15	QPSK	36	20	20.49	20.61	20.56	21.6	0	
15	QPSK	36	39	20.52	20.62	20.48			
15	QPSK	75	0	20.46	20.55	20.40			
15	16QAM	1	0	20.30	20.40	20.34			
15	16QAM	1	37	20.25	20.25	20.27	21.6	0	
15	16QAM	1	74	20.21	20.40	20.38			
15	16QAM	36	0	19.62	19.81	19.59			
15	16QAM	36	20	19.67	19.75	19.71			
15	16QAM	36	39	19.66	19.74	19.70	21	0.6	
15	16QAM	75	0	19.77	19.74	19.72			
15	64QAM	1	0	19.77	19.75	19.78			
15	64QAM	1	74	19.68	19.73	19.68			
15	64QAM	1	37	19.87	19.81	19.85	21	0.6	
15	64QAM	36	0	18.84	18.93	18.81			
15	64QAM	36	20	18.64	18.85	18.70			
15	64QAM	36	39	18.83	18.97	18.89			
15	64QAM	75	0	18.71	18.80	18.84	20	1.6	
15	256QAM	1	0	16.73	16.76	16.70			
15	256QAM	1	37	16.76	16.74	16.66			
15	256QAM	1	74	16.78	16.67	16.58			
15	256QAM	36	0	16.72	16.75	16.78	18	3.6	
15	256QAM	36	20	16.54	16.69	16.55			
15	256QAM	36	39	16.64	16.63	16.79			
15	256QAM	75	0	16.52	16.79	16.57			
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				25066	2525	25666			
10	QPSK	1	0	20.73	20.69	20.60	21.6	0	
10	QPSK	1	25	20.65	20.69	20.63			
10	QPSK	1	49	20.49	20.64	20.43			
10	QPSK	25	0	20.63	20.59	20.51			
10	QPSK	25	13	20.50	20.45	20.45	21.6	0	
10	QPSK	25	25	20.49	20.54	20.45			
10	QPSK	50	0	20.45	20.59	20.55			
10	16QAM	1	0	20.41	20.53	20.27			
10	16QAM	1	25	20.31	20.39	20.28	21.6	0	
10	16QAM	1	49	20.22	20.44	20.35			
10	16QAM	25	0	19.63	19.67	19.67			
10	16QAM	25	12	19.64	19.87	19.68			
10	16QAM	25	25	19.67	19.69	19.71	21	0.6	
10	64QAM	1	0	19.76	19.66	19.71			
10	64QAM	1	25	19.79	19.86	19.80			
10	64QAM	1	25	19.99	19.72	19.69			
10	64QAM	25	0	18.86	18.84	18.83	21	0.6	
10	64QAM	25	12	18.85	18.71	18.71			
10	64QAM	25	25	18.75	18.85	18.81			
10	64QAM	50	0	18.69	18.70	18.62			
10	256QAM	1	0	16.80	16.82	16.77	18	3.6	
10	256QAM	1	25	16.68	16.68	16.58			
10	256QAM	1	49	16.74	16.74	16.58			
10	256QAM	25	0	16.81	16.80	16.87			
10	256QAM	25	12	16.62	16.73	16.66	18	3.6	
10	256QAM	25	25	16.73	16.88	16.88			
10	256QAM	50	0	16.60	16.70	16.65			
Channel				21075	21100	21125			
Frequency (MHz)				2502.5	2525	2567.5			
5	QPSK	1	0	20.63	20.71	20.60	21.6	0	
5	QPSK	1	24	20.58	20.72	20.59			
5	QPSK	1	24	20.62	20.67	20.47			
5	QPSK	12	0	20.56	20.60	20.48			
5	QPSK	12	7	20.50	20.63	20.48	21.6	0	
5	QPSK	12	13	20.48	20.54	20.47			
5	QPSK	26	0	20.48	20.57	20.57			
5	16QAM	1	0	20.41	20.43	20.20			
5	16QAM	1	12	20.30	20.51	20.32	21.6	0	
5	16QAM	1	24	20.20	20.63	20.18			
5	16QAM	12	0	19.68	19.63	19.65			
5	16QAM	12	7	19.74	19.73	19.78			
5	16QAM	12	13	19.66	19.72	19.70	21	0.6	
5	16QAM	25	0	19.63	19.68	19.58			
5	64QAM	1	0	19.72	19.81	19.81			
5	64QAM	1	19	19.67	19.80	19.67			
5	64QAM	1	24	19.79	19.92	19.77	21	0.6	
5	64QAM	12	0	18.79	18.92	18.76			
5	64QAM	12	7	18.73	18.73	18.78			
5	64QAM	12	13	18.77	18.88	18.83			
5	64QAM	25	0	18.75	18.76	18.68	20	1.6	
5	256QAM	1	0	16.81	16.72	16.78			
5	256QAM	1	12	16.81	16.81	16.51			
5	256QAM	1	24	16.62	16.79	16.44			
5	256QAM	12	0	16.68	16.87	16.72	18	3.6	
5	256QAM	12	7	16.69	16.75	16.70			
5	256QAM	12	13	16.57	16.80	16.72			
5	256QAM	25	0	16.69	16.69	16.69			

Band 12_Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)				23060	23095	23130	24.3	0
Frequency (MHz)				707.5	707.5	711.5		
10	QPSK	1	0	23.69	23.82	23.69	24.3	0
10	QPSK	1	25	23.65	23.70	23.60		
10	QPSK	25	0	23.61	23.62	23.60		
10	QPSK	25	12	22.71	22.74	22.71		
10	QPSK	25	25	22.74	22.74	22.69	23.3	1
10	QPSK	50	0	22.71	22.79	22.74		
10	16QAM	1	0	23.14	22.95	23.21		
10	16QAM	1	25	23.12	23.10	23.19		
10	16QAM	1	49	23.12	23.13	23.19	22.3	2
10	16QAM	25	0	21.70	21.70	21.74		
10	16QAM	25	12	21.82	21.75	21.85		
10	16QAM	25	25	21.75	21.83	21.83		
10	16QAM	50	0	21.79	21.72	21.85	22.3	2
10	64QAM	1	0	21.83	21.77	21.95		
10	64QAM	1	25	22.02	21.93	21.96		
10	64QAM	1	49	22.00	21.93	21.88		
10	64QAM	25	0	20.72	20.70	20.75	21.3	3
10	64QAM	25	12	20.79	20.76	20.83		
10	64QAM	25	25	20.78	20.81	20.81		
10	64QAM	50	0	20.77	20.70	20.97		
10	256QAM	1	0	18.70	18.80	18.75	19.3	5
10	256QAM	1	25	18.58	18.75	18.72		
10	256QAM	1	49	18.61	18.77	18.63		
10	256QAM	25	0	18.74	18.82	18.69		
10	256QAM	25	12	18.58	18.72	18.56	19.3	5
10	256QAM	25	25	18.58	18.75	18.68		
10	256QAM	50	0	18.59	18.69	18.57		
Channel Frequency (MHz)				23035	23095	23105	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	701.5	713.5	24.3	0
5	QPSK	1	0	23.58	23.57	23.62		
5	QPSK	1	12	23.69	23.68	23.68	23.3	1
5	QPSK	1	24	23.63	23.64	23.70		
5	QPSK	12	0	22.64	22.65	22.70		
5	QPSK	12	7	22.74	22.75	22.82		
5	QPSK	12	13	22.70	22.76	22.79	23.3	1
5	QPSK	25	0	22.70	22.65	22.69		
5	16QAM	1	0	22.94	23.03	23.05		
5	16QAM	1	12	23.01	23.23	23.23		
5	16QAM	1	24	22.91	23.12	23.10	22.3	2
5	16QAM	12	0	21.67	21.73	21.72		
5	16QAM	12	7	21.81	21.85	21.81		
5	16QAM	12	13	21.78	21.81	21.83		
5	16QAM	25	0	21.75	21.89	21.73	22.3	2
5	64QAM	1	0	21.81	21.97	21.90		
5	64QAM	1	12	22.07	22.00	22.07		
5	64QAM	1	24	21.90	21.93	22.01		
5	64QAM	12	0	20.70	20.73	20.72	21.3	3
5	64QAM	12	7	20.82	20.80	20.86		
5	64QAM	12	13	20.73	20.74	20.80		
5	64QAM	25	0	20.73	20.68	20.72		
5	256QAM	1	0	18.59	18.72	18.74	19.3	5
5	256QAM	1	12	18.56	18.69	18.71		
5	256QAM	1	24	18.48	18.72	18.59		
5	256QAM	12	0	18.64	18.68	18.67		
5	256QAM	12	7	18.43	18.72	18.53	19.3	5
5	256QAM	12	13	18.42	18.60	18.53		
5	256QAM	25	0	18.49	18.52	18.40		
Channel Frequency (MHz)				23025	23095	23105	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5	24.3	0
3	QPSK	1	0	23.68	23.66	23.58		
3	QPSK	1	8	23.75	23.77	23.65	23.3	1
3	QPSK	1	14	23.71	23.67	23.56		
3	QPSK	8	0	22.88	22.73	22.85		
3	QPSK	8	4	22.88	22.81	22.67		
3	QPSK	8	7	22.87	22.80	22.72	23.3	1
3	QPSK	15	0	22.83	22.68	22.62		
3	16QAM	1	0	23.05	23.13	22.97		
3	16QAM	1	8	23.30	23.26	23.17		
3	16QAM	1	14	23.15	23.05	23.05	22.3	2
3	16QAM	8	0	21.97	21.80	21.74		
3	16QAM	8	4	21.97	21.92	21.73		
3	16QAM	8	7	21.95	21.85	21.77		
3	16QAM	15	0	21.98	21.73	21.67	22.3	2
3	64QAM	1	0	21.89	22.03	21.81		
3	64QAM	1	8	22.00	21.89	21.90		
3	64QAM	1	14	21.96	21.93	22.00		
3	64QAM	8	0	20.88	20.81	20.71	21.3	3
3	64QAM	8	4	20.96	20.85	20.67		
3	64QAM	8	7	20.97	20.81	20.72		
3	64QAM	15	0	20.90	20.72	20.64		
3	256QAM	1	0	18.65	18.70	18.62	19.3	5
3	256QAM	1	8	18.57	18.61	18.57		
3	256QAM	1	14	18.61	18.73	18.56		
3	256QAM	8	0	18.63	18.77	18.59		
3	256QAM	8	4	18.56	18.70	18.45	19.3	5
3	256QAM	8	7	18.52	18.59	18.52		
3	256QAM	15	0	18.56	18.61	18.57		
Channel Frequency (MHz)				699.7	707.5	715.3	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3	24.3	0
1.4	QPSK	1	0	23.73	23.66	23.61		
1.4	QPSK	1	3	23.69	23.71	23.67	23.8	1
1.4	QPSK	1	5	23.71	23.67	23.58		
1.4	QPSK	3	0	23.76	23.75	23.68		
1.4	QPSK	3	1	23.72	23.72	23.73		
1.4	QPSK	3	3	23.76	23.75	23.69	23.3	1
1.4	QPSK	6	0	21.83	21.69	21.68		
1.4	16QAM	1	0	23.22	23.22	23.04		
1.4	16QAM	1	3	23.22	23.29	23.07		
1.4	16QAM	1	5	23.24	23.23	23.01	22.8	2
1.4	16QAM	3	0	23.03	23.00	22.93		
1.4	16QAM	3	1	23.07	22.92	22.82		
1.4	16QAM	3	3	23.05	22.94	22.96		
1.4	16QAM	6	0	21.92	21.73	21.78	22.3	2
1.4	64QAM	1	0	22.07	21.97	22.03		
1.4	64QAM	1	3	22.06	21.93	22.11		
1.4	64QAM	1	5	22.15	21.87	22.07		
1.4	64QAM	3	0	21.95	21.93	21.79	22.3	2
1.4	64QAM	3	1	22.02	21.87	22.04		
1.4	64QAM	3	3	21.95	21.88	22.02		
1.4	64QAM	6	0	20.96	20.97	20.96		
1.4	256QAM	1	0	18.77	18.83	18.80	19.8	5
1.4	256QAM	1	3	18.66	18.88	18.92		

Band 13_Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel Frequency (MHz)				23230 782			24.3	0		
10	QPSK	1	0	23.78	23.78	23.78				
10	QPSK	1	25	23.70	23.70	23.70	23.3	1		
10	QPSK	1	49	23.53	23.53	23.53				
10	QPSK	25	0	22.80	22.80	22.80				
10	QPSK	25	12	22.78	22.78	22.78				
10	QPSK	25	25	22.78	22.78	22.78	23.3	1		
10	QPSK	50	0	22.78	22.78	22.78				
10	16QAM	1	0	23.18	23.18	23.18				
10	16QAM	1	25	23.11	23.11	23.11				
10	16QAM	1	49	23.06	23.06	23.06	22.3	1		
10	16QAM	25	0	21.79	21.79	21.79				
10	16QAM	25	12	21.81	21.81	21.81				
10	16QAM	25	25	21.75	21.75	21.75				
10	16QAM	50	0	21.75	21.75	21.75	22.3	2		
10	64QAM	1	0	21.97	21.97	21.97				
10	64QAM	1	25	22.06	22.06	22.06				
10	64QAM	1	49	22.00	22.00	22.00				
10	64QAM	25	0	20.80	20.80	20.80	21.3	3		
10	64QAM	25	12	20.82	20.82	20.82				
10	64QAM	25	25	20.74	20.74	20.74				
10	64QAM	50	0	20.76	20.76	20.76				
10	256QAM	1	0	18.80	18.80	18.80	19.3	5		
10	256QAM	1	25	18.77	18.77	18.77				
10	256QAM	1	49	18.75	18.75	18.75				
10	256QAM	25	0	18.70	18.70	18.70				
10	256QAM	25	12	18.79	18.79	18.79	19.3	5		
10	256QAM	25	25	18.82	18.82	18.82				
10	256QAM	50	0	18.75	18.75	18.75				
Channel Frequency (MHz)				23205 779.5	23230 782	23255 784.5			Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	23.74	23.73	23.70	24.3	0		
5	QPSK	1	12	23.76	23.72	23.74				
5	QPSK	1	24	23.73	23.74	23.62				
5	QPSK	12	0	22.78	22.74	22.76				
5	QPSK	12	7	22.86	22.73	22.78	23.3	1		
5	QPSK	12	13	22.82	22.72	22.75				
5	QPSK	25	0	22.84	22.73	22.76				
5	16QAM	1	0	23.03	23.10	23.12				
5	16QAM	1	12	23.20	23.29	23.17	23.3	1		
5	16QAM	1	24	23.15	23.11	23.15				
5	16QAM	12	0	21.78	21.83	21.81				
5	16QAM	12	7	21.97	21.79	21.84				
5	16QAM	12	13	21.88	21.80	21.84	22.3	2		
5	16QAM	25	0	21.94	21.75	21.79				
5	16QAM	25	0	21.95	22.10	22.04				
5	64QAM	1	12	22.07	22.19	21.93				
5	64QAM	1	24	22.08	22.15	22.02	22.3	2		
5	64QAM	1	0	20.84	20.75	20.81				
5	64QAM	12	0	20.84	20.76	20.80				
5	64QAM	12	7	20.94	20.81	20.82				
5	64QAM	12	13	20.90	20.79	20.79	21.3	3		
5	64QAM	25	0	20.83	20.76	20.80				
5	256QAM	1	0	18.61	18.73	18.79				
5	256QAM	1	12	18.58	18.58	18.65				
5	256QAM	1	24	18.75	18.75	18.69	19.3	5		
5	256QAM	12	0	18.68	18.55	18.64				
5	256QAM	12	7	18.63	18.68	18.65				
5	256QAM	12	13	18.64	18.70	18.68				
5	256QAM	25	0	18.67	18.71	18.63	19.3	5		
Channel Frequency (MHz)				23205	23230	23255			Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	23.74	23.73	23.70			24.3	0
5	QPSK	1	12	23.76	23.72	23.74				
5	QPSK	1	24	23.73	23.74	23.62				
5	QPSK	12	0	22.78	22.74	22.76				
5	QPSK	12	7	22.86	22.73	22.78	23.3	1		
5	QPSK	12	13	22.82	22.72	22.75				
5	QPSK	25	0	22.84	22.73	22.76				
5	16QAM	1	0	23.03	23.10	23.12				
5	16QAM	1	12	23.20	23.29	23.17	23.3	1		
5	16QAM	1	24	23.15	23.11	23.15				
5	16QAM	12	0	21.78	21.83	21.81				
5	16QAM	12	7	21.97	21.79	21.84				
5	16QAM	12	13	21.88	21.80	21.84	22.3	2		
5	16QAM	25	0	21.94	21.75	21.79				
5	16QAM	25	0	21.95	22.10	22.04				
5	64QAM	1	12	22.07	22.19	21.93				
5	64QAM	1	24	22.08	22.15	22.02	22.3	2		
5	64QAM	1	0	20.84	20.75	20.81				
5	64QAM	12	0	20.84	20.76	20.80				
5	64QAM	12	7	20.94	20.81	20.82				
5	64QAM	12	13	20.90	20.79	20.79	21.3	3		
5	64QAM	25	0	20.83	20.76	20.80				
5	256QAM	1	0	18.61	18.73	18.79				
5	256QAM	1	12	18.58	18.58	18.65				
5	256QAM	1	24	18.75	18.75	18.69	19.3	5		
5	256QAM	12	0	18.68	18.55	18.64				
5	256QAM	12	7	18.63	18.68	18.65				
5	256QAM	12	13	18.64	18.70	18.68				
5	256QAM	25	0	18.67	18.71	18.63	19.3	5		
Channel Frequency (MHz)				23205	23230	23255			Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	23.74	23.73	23.70			24.3	0
5	QPSK	1	12	23.76	23.72	23.74				
5	QPSK	1	24	23.73	23.74	23.62				
5	QPSK	12	0	22.78	22.74	22.76				
5	QPSK	12	7	22.86	22.73	22.78	23.3	1		
5	QPSK	12	13	22.82	22.72	22.75				
5	QPSK	25	0	22.84	22.73	22.76				
5	16QAM	1	0	23.03	23.10	23.12				
5	16QAM	1	12	23.20	23.29	23.17	23.3	1		
5	16QAM	1	24	23.15	23.11	23.15				
5	16QAM	12	0	21.78	21.83	21.81				
5	16QAM	12	7	21.97	21.79	21.84				
5	16QAM	12	13	21.88	21.80	21.84	22.3	2		
5	16QAM	25	0	21.94	21.75	21.79				
5	16QAM	25	0	21.95	22.10	22.04				
5	64QAM	1	12	22.07	22.19	21.93				
5	64QAM	1	24	22.08	22.15	22.02	22.3	2		
5	64QAM	1	0	20.84	20.75	20.81				
5	64QAM	12	0	20.84	20.76	20.80				
5	64QAM	12	7	20.94	20.81	20.82				
5	64QAM	12	13	20.90	20.79	20.79	21.3	3		
5	64QAM	25	0	20.83	20.76	20.80				
5	256QAM	1	0	18.61	18.73	18.79				
5	256QAM	1	12	18.58	18.58	18.65				
5	256QAM	1	24	18.75	18.75	18.69	19.3	5		
5	256QAM	12	0	18.68	18.55	18.64				
5	256QAM	12	7	18.63	18.68	18.65				
5	256QAM	12	13	18.64	18.70	18.68				
5	256QAM	25	0	18.67	18.71	18.63	19.3	5		
Channel Frequency (MHz)				23205	23230	23255			Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	23.74	23.73	23.70			24.3	0
5	QPSK	1	12	23.76	23.72	23.74				
5	QPSK	1	24	23.73	23.74	23.62				
5	QPSK	12	0	22.78	22.74	22.76				
5	QPSK	12	7	22.86	22.73	22.78	23.3	1		
5	QPSK	12	13	22.82	22.72	22.75				
5	QPSK	25	0	22.84	22.73	22.76				
5	16QAM	1	0	23.03	23.10	23.12				
5	16QAM	1	12	23.20	23.29	23.17	23.3	1		
5	16QAM	1	24	23.15	23.11	23.15				
5	16QAM	12	0	21.78	21.83	21.81				
5	16QAM	12	7	21.97	21.79	21.84				
5	16QAM	12	13	21.88	21.80	21.84	22.3	2		
5	16QAM	25	0	21.94	21.75	21.79				
5	16QAM	25	0	21.95	22.10	22.04				
5	64QAM	1	12	22.07	22.19	21.93				
5	64QAM	1	24	22.08	22.15	22.02	22.3	2		
5	64QAM	1	0	20.84	20.75	20.81				
5	64QAM	12	0	20.84	20.76	20.80				
5	64QAM	12	7	20.94	20.81	20.82				
5	64QAM	12	13	20.90	20.79	20.79	21.3	3		
5	64QAM	25	0	20.83	20.76	20.80				
5	256QAM	1	0	18.61	18.73	18.79				
5	256QAM	1	12	18.58	18.58	18.65				
5	256QAM	1	24	18.75	18.75	18.69	19.3	5		
5	256QAM	12	0	18.68	18.55	18.64				
5	256QAM	12	7	18.63	18.68	18.65				
5	256QAM	12	13	18.64	18.70	18.68				
5	256QAM	25	0	18.67	18.71	18.63	19.3	5		
Channel Frequency (MHz)				23205	23230	23255			Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	23.74	23.73	23.70			24.3	0
5	QPSK	1	12	23.76	23.72	23.74				
5	QPSK	1	24	23.73	23.74	23.62				
5	QPSK	12	0	22.78	22.74	22.76				
5	QPSK	12	7	22.86	22.73	22.78	23.3	1		
5	QPSK	12	13	22.82	22.72	22.75				
5	QPSK	25	0	22.84	22.73	22.76				
5	16QAM	1	0	23.03	23.10	23.12				
5	16QAM	1	12	23.20	23.29	23.17	23.3	1		
5	16QAM	1	24	23.15	23.11	23.15				
5	16QAM	12	0	21.78	21.83	21.81				
5	16QAM	12	7	21.97	21.79	21.84				
5	16QAM	12	13	21.88	21.80	21.84	22.3	2		
5	16QAM	25	0	21.94	21.75	21.79				
5	16QAM	25	0	21.95	22.10	22.04				
5	64QAM	1	12	22.07	22.19	21.93				
5	64QAM	1	24	22.08	22.15	22.02	22.3	2		
5	64QAM	1	0	20.84	20.75	20.81				
5	64QAM	12	0	20.84	20.76	20.80				
5	64QAM	12	7	20.94	20.81	20.82				
5	64QAM	12	13	20.90	20.79	20.79	21.3	3		
5	64QAM	25	0	20.83	20.76	20.80				
5	256QAM	1	0	18.61	18.73	18.79				
5	256QAM	1	12	18.58	18.58	18.65				
5	256QAM	1	24	18.75	18.75	18.69	19.3	5		
5	256QAM	12	0	18.68	18.55	18.64				
5	256QAM	12	7	18.63	18.68	18.65				
5	256QAM	12	13	18.64	18.70	18.68				
5	256QAM	25	0	18.67	18.71	18.63	19.3	5		
Channel Frequency (MHz)				23205	23230	23255			Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0							

Band 17_Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)				23760	23790	23800		
				710	710	711		
10	QPSK	1	0	23.63	23.76	23.65	24.3	0
10	QPSK	1	25	23.60	23.75	23.61		
10	QPSK	1	49	23.55	23.70	23.58		
10	QPSK	25	0	23.78	22.82	22.76		
10	QPSK	25	12	22.73	22.78	22.73	23.3	1
10	QPSK	25	25	22.75	22.86	22.71		
10	QPSK	50	0	22.78	22.80	22.75		
10	16QAM	1	0	23.09	23.07	23.06		
10	16QAM	1	25	23.01	23.18	23.07	23.3	1
10	16QAM	1	49	23.29	23.26	23.26		
10	16QAM	25	0	21.73	21.75	21.75		
10	16QAM	25	12	21.86	21.81	21.81		
10	16QAM	25	25	21.84	21.84	21.85	22.3	2
10	16QAM	50	0	21.79	21.75	21.78		
10	64QAM	1	0	21.81	21.88	21.91		
10	64QAM	1	25	21.95	22.13	22.08		
10	64QAM	1	49	22.03	22.03	21.95	22.3	2
10	64QAM	25	0	20.71	20.71	20.72		
10	64QAM	25	12	20.81	20.77	20.79		
10	64QAM	25	25	20.77	20.83	20.85		
10	64QAM	50	0	20.81	20.72	20.73	21.3	3
10	256QAM	1	0	18.71	18.75	18.70		
10	256QAM	1	25	18.54	18.72	18.61		
10	256QAM	1	49	18.74	18.77	18.73		
10	256QAM	25	0	18.52	18.70	18.60	19.3	5
10	256QAM	25	12	18.63	18.79	18.71		
10	256QAM	25	25	18.80	18.80	18.79		
10	256QAM	50	0	18.66	18.74	18.61		
Channel Frequency (MHz)				23765	23790	23825	Tune-up limit (dBm)	MPR (dB)
				706.5	710	713.5		
5	QPSK	1	0	23.59	23.66	23.67	24.3	0
5	QPSK	1	12	23.72	23.69	23.71		
5	QPSK	1	24	23.69	23.69	23.64		
5	QPSK	12	0	22.68	22.70	22.71		
5	QPSK	12	7	22.80	22.73	22.83	23.3	1
5	QPSK	12	13	22.76	22.79	22.81		
5	QPSK	25	0	22.76	22.69	22.72		
5	16QAM	1	0	23.11	23.10	23.00		
5	16QAM	1	12	23.19	23.20	23.21	23.3	1
5	16QAM	1	24	22.99	23.11	23.16		
5	16QAM	12	0	21.72	21.73	21.73		
5	16QAM	12	7	21.83	21.79	21.89		
5	16QAM	12	13	21.80	21.86	21.84	22.3	2
5	16QAM	25	0	21.77	21.72	21.77		
5	16QAM	25	0	22.07	21.96	21.93		
5	64QAM	1	12	22.04	21.99	22.04		
5	64QAM	1	24	22.07	21.94	21.96	22.3	2
5	64QAM	12	0	20.66	20.74	20.75		
5	64QAM	12	7	20.80	20.79	20.88		
5	64QAM	12	13	20.76	20.82	20.83		
5	64QAM	25	0	20.77	20.72	20.70	21.3	3
5	256QAM	1	0	18.55	18.59	18.70		
5	256QAM	1	12	18.36	18.64	18.45		
5	256QAM	1	24	18.58	18.61	18.69		
5	256QAM	12	0	18.45	18.59	18.59	19.3	5
5	256QAM	12	7	18.50	18.68	18.58		
5	256QAM	12	13	18.66	18.74	18.61		
5	256QAM	25	0	18.50	18.56	18.59		

Band 17_Ant 1

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)				23760	23790	23800		
				710	710	711		
10	QPSK	1	0	23.82	23.59	23.80	24.8	0
10	QPSK	1	25	23.80	23.85	23.76		
10	QPSK	1	49	23.77	23.92	23.76		
10	QPSK	25	0	22.86	22.99	22.87		
10	QPSK	25	12	22.81	22.95	22.96	23.8	1
10	QPSK	25	25	22.86	22.86	22.90		
10	QPSK	50	0	22.93	22.97	22.84		
10	16QAM	1	0	23.26	23.20	23.20		
10	16QAM	1	25	23.25	23.11	23.20	23.8	1
10	16QAM	1	49	23.27	23.26	23.23		
10	16QAM	25	0	21.88	21.89	21.92		
10	16QAM	25	12	22.03	21.96	21.97		
10	16QAM	25	25	22.03	22.04	22.05	22.8	2
10	16QAM	50	0	21.99	21.95	21.98		
10	64QAM	1	0	22.08	22.07	22.13		
10	64QAM	1	25	22.09	22.10	22.27		
10	64QAM	1	49	22.14	22.27	22.27	22.8	2
10	64QAM	25	0	20.87	20.88	21.00		
10	64QAM	25	12	21.05	20.93	20.96		
10	64QAM	25	25	20.99	21.01	21.02		
10	64QAM	50	0	20.98	20.92	20.94	21.8	3
10	256QAM	1	0	18.89	18.96	18.86		
10	256QAM	1	25	18.89	18.92	18.87		
10	256QAM	1	49	18.87	18.88	18.72		
10	256QAM	25	0	18.84	18.84	18.71	19.8	5
10	256QAM	25	12	18.96	19.00	18.99		
10	256QAM	25	25	18.76	18.90	18.74		
10	256QAM	50	0	18.75	18.87	18.80		
Channel Frequency (MHz)				23765	23790	23825	Tune-up limit (dBm)	MPR (dB)
				706.5	710	713.5		
5	QPSK	1	0	23.73	23.82	23.75	24.8	0
5	QPSK	1	12	23.85	23.88	23.85		
5	QPSK	1	24	23.79	23.78	23.81		
5	QPSK	12	0	22.76	22.77	22.80		
5	QPSK	12	7	22.88	22.81	22.91	23.8	1
5	QPSK	12	13	22.85	22.88	22.91		
5	QPSK	25	0	22.84	22.79	22.80		
5	16QAM	1	0	23.21	23.15	23.09		
5	16QAM	1	12	23.27	23.27	23.30	23.8	1
5	16QAM	1	24	23.13	23.02	23.29		
5	16QAM	12	0	21.82	21.84	21.85		
5	16QAM	12	7	21.92	21.90	21.99		
5	16QAM	12	13	21.95	21.96	21.96	22.8	2
5	16QAM	25	0	21.86	21.83	21.85		
5	64QAM	1	0	21.94	21.92	22.08		
5	64QAM	1	12	22.02	22.07	22.19		
5	64QAM	1	24	22.05	22.05	22.02	22.8	2
5	64QAM	12	0	20.77	20.81	20.85		
5	64QAM	12	7	20.94	20.90	20.92		
5	64QAM	12	13	20.93	20.97	20.92		
5	64QAM	25	0	20.85	20.81	20.86	21.8	3
5	256QAM	1	0	18.85	18.92	18.67		
5	256QAM	1	12	18.81	18.82	18.85		
5	256QAM	1	24	18.70	18.80	18.72		
5	256QAM	12	0	18.68	18.68	18.55	19.8	5
5	256QAM	12	7	18.81	18.83	18.85		
5	256QAM	12	13	18.67	18.81	18.67		
5	256QAM	25	0	18.64	18.80	18.77		



Band 25_Ant 4											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)			
Channel				26140	26340	26590					
Frequency (MHz)				1800	1800	1905					
20	QPSK	1	0	20.6	20.77	20.63	21.4	0			
20	QPSK	1	49	20.47	20.58	20.65					
20	QPSK	1	99	20.43	20.55	20.49					
20	QPSK	50	0	20.66	20.68	20.65					
20	QPSK	50	24	20.6	20.65	20.62	21.4	0			
20	QPSK	50	50	20.54	20.63	20.62					
20	QPSK	100	0	20.69	20.7	20.68					
20	16QAM	1	0	20.72	20.63	20.71					
20	16QAM	1	49	20.6	20.7	20.69	21.4	0			
20	16QAM	1	99	20.68	20.73	20.65					
20	16QAM	50	0	20.54	20.55	20.47					
20	16QAM	50	24	20.48	20.58	20.47					
20	16QAM	50	50	20.61	20.64	20.52	21.4	0			
20	16QAM	100	0	20.52	20.59	20.54					
20	64QAM	1	0	20.59	20.55	20.48					
20	64QAM	1	49	20.56	20.55	20.52					
20	64QAM	1	99	20.51	20.62	20.53	21.4	0			
20	64QAM	50	0	19.74	19.59	19.53					
20	64QAM	50	24	19.67	19.67	19.59					
20	64QAM	50	50	19.62	19.56	19.59					
20	256QAM	100	0	19.66	19.6	19.52	20.4	1			
20	256QAM	1	0	17.40	17.56	17.55					
20	256QAM	1	49	17.59	17.60	17.47					
20	256QAM	1	99	17.53	17.66	17.48					
20	256QAM	50	0	17.44	17.52	17.52	18.4	3			
20	256QAM	50	0	17.44	17.52	17.52					
20	256QAM	50	24	17.47	17.59	17.54					
20	256QAM	50	50	17.48	17.50	17.49					
20	256QAM	100	0	17.39	17.58	17.47	18.4	3			
20	256QAM	100	0	17.39	17.58	17.47					
20	256QAM	100	0	17.39	17.58	17.47					
20	256QAM	100	0	17.39	17.58	17.47					
Channel				26115	26340	26615	Turn-up limit (dBm)			MPR (dB)	
Frequency (MHz)				1857.5	1860	1907.5					
15	QPSK	1	0	20.45	20.58	20.5	21.4	0			
15	QPSK	1	37	20.35	20.42	20.37					
15	QPSK	1	74	20.26	20.42	20.35					
15	QPSK	36	0	20.81	20.63	20.49					
15	QPSK	36	20	20.51	20.54	20.44	21.4	0			
15	QPSK	36	39	20.35	20.45	20.37					
15	QPSK	75	0	20.56	20.61	20.63					
15	16QAM	1	0	20.63	20.49	20.56					
15	16QAM	1	37	20.57	20.5	20.61	21.4	0			
15	16QAM	1	74	20.6	20.67	20.59					
15	16QAM	36	0	20.38	20.46	20.37					
15	16QAM	36	20	20.31	20.45	20.34					
15	16QAM	36	39	20.53	20.49	20.39	21.4	0			
15	16QAM	75	0	20.44	20.53	20.36					
15	64QAM	1	0	20.41	20.49	20.38					
15	64QAM	1	37	20.46	20.47	20.33					
15	64QAM	1	74	20.44	20.54	20.42	21.4	0			
15	64QAM	36	0	19.56	19.63	19.43					
15	64QAM	36	20	19.53	19.64	19.44					
15	64QAM	36	39	19.56	19.65	19.53					
15	64QAM	75	0	19.58	19.42	19.42	20.4	1			
15	256QAM	1	0	17.21	17.56	17.36					
15	256QAM	1	37	17.55	17.59	17.43					
15	256QAM	1	74	17.47	17.53	17.42					
15	256QAM	36	0	17.34	17.52	17.42	18.4	3			
15	256QAM	36	20	17.30	17.40	17.37					
15	256QAM	36	39	17.47	17.45	17.48					
15	256QAM	75	0	17.36	17.45	17.44					
Channel				26080	26340	26615	Turn-up limit (dBm)			MPR (dB)	
Frequency (MHz)				1855	1860	1910					
10	QPSK	1	0	20.55	20.67	20.48	21.4	0			
10	QPSK	1	25	20.42	20.39	20.31					
10	QPSK	1	49	20.38	20.44	20.39					
10	QPSK	25	0	20.61	20.51	20.47					
10	QPSK	25	12	20.48	20.46	20.46	21.4	0			
10	QPSK	25	25	20.36	20.57	20.52					
10	QPSK	50	0	20.53	20.62	20.49					
10	16QAM	1	0	20.57	20.46	20.5					
10	16QAM	1	25	20.43	20.51	20.56	21.4	0			
10	16QAM	1	49	20.54	20.64	20.5					
10	16QAM	25	0	20.45	20.45	20.35					
10	16QAM	25	12	20.38	20.5	20.37					
10	16QAM	25	25	20.53	20.53	20.43	21.4	0			
10	16QAM	50	0	20.36	20.54	20.49					
10	64QAM	1	0	20.46	20.43	20.42					
10	64QAM	1	25	20.48	20.44	20.36					
10	64QAM	1	49	20.41	20.46	20.44	20.4	1			
10	64QAM	25	0	19.72	19.59	19.51					
10	64QAM	25	12	19.65	19.58	19.56					
10	64QAM	25	25	19.59	19.51	19.58					
10	64QAM	50	0	19.65	19.46	19.51	18.4	3			
10	256QAM	1	0	17.35	17.55	17.50					
10	256QAM	1	25	17.42	17.52	17.30					
10	256QAM	1	49	17.49	17.66	17.44					
10	256QAM	25	0	17.36	17.40	17.44	18.4	3			
10	256QAM	25	12	17.48	17.59	17.53					
10	256QAM	25	25	17.42	17.43	17.43					
10	256QAM	50	0	17.22	17.44	17.30					
Channel				26065	26340	26615	Turn-up limit (dBm)			MPR (dB)	
Frequency (MHz)				1852.5	1860	1912.5					
5	QPSK	1	0	20.46	20.72	20.48	21.4	0			
5	QPSK	1	12	20.36	20.42	20.45					
5	QPSK	1	24	20.34	20.38	20.3					
5	QPSK	12	0	20.68	20.62	20.46					
5	QPSK	12	7	20.55	20.51	20.59	21.4	0			
5	QPSK	12	13	20.38	20.46	20.53					
5	QPSK	25	0	20.57	20.5	20.5					
5	16QAM	1	0	20.65	20.49	20.52					
5	16QAM	1	12	20.43	20.58	20.61	21.4	0			
5	16QAM	1	24	20.46	20.56	20.46					
5	16QAM	12	0	20.34	20.39	20.39					
5	16QAM	12	7	20.42	20.49	20.39					
5	16QAM	12	13	20.44	20.47	20.37	21.4	0			
5	16QAM	25	0	20.38	20.48	20.45					
5	64QAM	1	0	20.46	20.47	20.34					
5	64QAM	1	12	20.44	20.5	20.37					
5	64QAM	1	24	20.4	20.44	20.47	20.4	1			
5	64QAM	12	0	19.72	19.41	19.51					
5	64QAM	12	7	19.52	19.58	19.43					
5	64QAM	12	13	19.45	19.45	19.42					
5	64QAM	25	0	19.57	19.55	19.43	18.4	3			
5	256QAM	1	0	17.34	17.53	17.49					
5	256QAM	1	12	17.53	17.43	17.41					
5	256QAM	1	24	17.43	17.28	17.38					
5	256QAM	12	0	17.41	17.41	17.49	18.4	3			
5	256QAM	12	7	17.29	17.47	17.36					
5	256QAM	12	13	17.41	17.40	17.42					
5	256QAM	25	0	17.31	17.58	17.39					
Channel				26055	26340	26675	Turn-up limit (dBm)			MPR (dB)	
Frequency (MHz)				1851.5	1860	1913.5					
3	QPSK	1	0	20.52	20.71	20.50	21.4	0			
3	QPSK	1	8	20.32	20.48	20.46					
3	QPSK	1	14	20.28	20.36	20.33					
3	QPSK	8	0	20.49	20.57	20.52	21.4	0			
3	QPSK	8	8	20.43	20.52	20.46					
3	QPSK	8	7	20.41	20.50	20.53					
3	16QAM	15	0	20.59	20.56	20.53	21.4	0			
3	16QAM	1	0	20.54	20.54	20.54					
3	16QAM	1	8	20.52	20.62	20.60					
3	16QAM	8	14	20.50	20.68	20.31	21.4	0			
3	16QAM	8	4	20.28	20.44	20.32					
3	16QAM	8	7	20.56	20.47	20.37					
3	16QAM	15	0	20.37	20.49	20.43	21.4	0			
3	64QAM	1	0	20.43	20.43	20.38					
3	64QAM	1	8	20.42	20.43	20.34					
3	64QAM	1	14	20.43	20.53	20.41	20.4	1			
3	64QAM	8	0	19.60	19.41	19.39					
3	64QAM	8	4	19.48	19.43	19.39					
3	64QAM	8	7	19.59	19.45	19.56	18.4	3			
3	256QAM	1	0	19.66	19.44	19.52					
3	256QAM	1	8	17.28	17.41	17.31					
3	256QAM	1	8	17.56	17.45	17.44	18.4	3			
3	256QAM	1	14	17.43	17.56	17.38					
3	256QAM	8	0	17.36	17.41	17.31					
3	256QAM	8	4	17.47	17.47	17.54	18.4	3			
3	256QAM	8	7	17.36	17.41	17.37					
3	256QAM	15	0	17.36	17.47	17.44					
Channel				26047	26340	26683	Turn-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1850.7	1860	1914.3					
1.4	QPSK	1	0	20.48	20.57	20.57	21.4	0			
1.4	QPSK	1	3	20.29	20.48	20.60					
1.4	QPSK	1	5	20.28	20.35	20.39					
1.4	QPSK	3	0	20.53	20.53	20.55	21.4	0			
1.4	QPSK	3	1	20.42	20.47	20.54					
1.4	QPSK	3	3	20.31	20.44	20.41					
1.4	QPSK	6	0	20.56	20.50	20.57	21.4	0			
1.4	16QAM	1	0	20.50	20.56	20.54					
1.4	16QAM	1	3	20.35	20.56	20.52					
1.4	16QAM	1	5	20.54	20.56	20.50	21.4	0			
1.4	16QAM	3	0	20.63	20.51	20.53					
1.4	16QAM	3	1	20.42	20.59	20.64					
1.4	16QAM	3	3	20.55	20.53	20.47	21.4	0			
1.4	16QAM	6	0	20.34	20.47	20.29					
1.4	64QAM	1	0	20.37	20.41	20.29					
1.4	64QAM	1	3	20.50	20.45	20.36	21.4	0			
1.4	64QAM	1	5	20.46	20.39	20.44					
1.4	64QAM	3	0	20.52	20.42	20.42					
1.4	64QAM	3	1	20.42	20.45	20.45	20.4	1			
1.4	64QAM	3	3	20.41	20.35	20.39					
1.4	64QAM	6	0	19.61	19.43	19.47					
1.4	256QAM										

Band 25_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)				26140	26340	26590				
20	QPSK	1	0	16.74	16.79	16.68	17.8	0		
20	QPSK	1	49	16.68	16.69	16.62				
20	QPSK	1	99	16.73	16.70	16.67				
20	QPSK	50	0	16.62	16.70	16.68				
20	QPSK	50	24	16.60	16.68	16.63				
20	QPSK	50	50	16.52	16.55	16.47	17.8	0		
20	QPSK	100	0	16.59	16.63	16.58				
20	16QAM	1	0	16.55	16.52	16.54				
20	16QAM	1	49	16.47	16.45	16.49				
20	16QAM	1	99	16.65	16.71	16.71				
20	16QAM	50	0	16.62	16.65	16.66	17.8	0		
20	16QAM	50	24	16.35	16.41	16.32				
20	16QAM	50	50	16.48	16.54	16.59				
20	16QAM	100	0	16.60	16.62	16.61				
20	64QAM	1	0	16.37	16.47	16.47				
20	64QAM	1	49	16.50	16.52	16.45	17.8	0		
20	64QAM	1	99	16.62	16.64	16.63				
20	64QAM	50	0	16.34	16.42	16.42				
20	64QAM	50	24	16.71	16.66	16.56				
20	64QAM	50	50	16.36	16.46	16.40				
20	256QAM	100	0	16.60	16.62	16.53	17.8	0		
20	256QAM	1	0	16.34	16.43	16.33				
20	256QAM	1	99	16.55	16.54	16.56				
20	256QAM	50	0	16.60	16.62	16.61				
20	256QAM	50	24	16.64	16.60	16.65				
20	256QAM	50	50	16.59	16.57	16.51	17.8	0		
20	256QAM	100	0	16.55	16.56	16.50				
Channel										
Frequency (MHz)				26115	26340	26615			Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	16.62	16.64	16.55			17.8	0
15	QPSK	1	37	16.62	16.52	16.48				
15	QPSK	1	74	16.54	16.63	16.59				
15	QPSK	36	0	16.54	16.56	16.56				
15	QPSK	36	20	16.57	16.60	16.56				
15	QPSK	36	36	16.33	16.44	16.31	17.8	0		
15	QPSK	75	0	16.39	16.58	16.52				
15	16QAM	1	0	16.44	16.37	16.37				
15	16QAM	1	37	16.31	16.35	16.32				
15	16QAM	1	74	16.60	16.56	16.59				
15	16QAM	36	0	16.53	16.45	16.46	17.8	0		
15	16QAM	36	20	16.22	16.35	16.23				
15	16QAM	36	36	16.32	16.44	16.49				
15	16QAM	75	0	16.60	16.47	16.52				
15	64QAM	1	0	16.22	16.27	16.26				
15	64QAM	1	37	16.45	16.40	16.42	17.8	0		
15	64QAM	1	74	16.55	16.42	16.36				
15	64QAM	36	0	16.24	16.34	16.42				
15	64QAM	36	20	16.59	16.52	16.44				
15	64QAM	36	36	16.16	16.32	16.33				
15	64QAM	75	0	16.46	16.49	16.33	17.8	0		
15	256QAM	1	0	16.25	16.24	16.22				
15	256QAM	1	37	16.34	16.47	16.35				
15	256QAM	1	74	16.35	16.37	16.37				
15	256QAM	36	0	16.48	16.57	16.52				
15	256QAM	36	20	16.45	16.53	16.40	17.8	0		
15	256QAM	36	36	16.52	16.43	16.35				
15	256QAM	75	0	16.47	16.48	16.43				
Channel										
Frequency (MHz)				26090	26340	26640			Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	16.58	16.65	16.61	17.8	0		
10	QPSK	1	25	16.50	16.58	16.51				
10	QPSK	1	49	16.60	16.54	16.58				
10	QPSK	25	0	16.50	16.50	16.48				
10	QPSK	25	12	16.57	16.55	16.50				
10	QPSK	25	25	16.46	16.42	16.37	17.8	0		
10	QPSK	50	0	16.44	16.56	16.48				
10	16QAM	1	0	16.46	16.34	16.45				
10	16QAM	1	25	16.40	16.31	16.30				
10	16QAM	1	49	16.45	16.65	16.54				
10	16QAM	25	0	16.54	16.57	16.55	17.8	0		
10	16QAM	25	12	16.26	16.29	16.24				
10	16QAM	25	25	16.37	16.41	16.40				
10	16QAM	50	0	16.60	16.47	16.57				
10	64QAM	1	0	16.31	16.28	16.36				
10	64QAM	1	25	16.30	16.34	16.28	17.8	0		
10	64QAM	1	49	16.52	16.45	16.53				
10	64QAM	25	0	16.15	16.27	16.33				
10	64QAM	25	12	16.64	16.52	16.48				
10	64QAM	25	25	16.25	16.35	16.29				
10	64QAM	50	0	16.46	16.52	16.45	17.8	0		
10	256QAM	1	0	16.14	16.27	16.25				
10	256QAM	1	1	16.32	16.36	16.40				
10	256QAM	1	49	16.36	16.40	16.47				
10	256QAM	25	0	16.52	16.57	16.50				
10	256QAM	25	12	16.57	16.54	16.60	17.8	0		
10	256QAM	25	25	16.48	16.49	16.39				
10	256QAM	50	0	16.42	16.47	16.35				
Channel										
Frequency (MHz)				26055	26340	26675			Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	16.59	16.73	16.64	17.8	0		
5	QPSK	1	12	16.57	16.60	16.55				
5	QPSK	1	24	16.62	16.60	16.56				
5	QPSK	12	0	16.53	16.63	16.56				
5	QPSK	12	7	16.43	16.62	16.52				
5	QPSK	12	13	16.37	16.48	16.34	17.8	0		
5	QPSK	25	0	16.39	16.50	16.44				
5	16QAM	1	0	16.45	16.44	16.37				
5	16QAM	1	12	16.32	16.29	16.33				
5	16QAM	1	12	16.57	16.51	16.55				
5	16QAM	12	0	16.55	16.46	16.54	17.8	0		
5	16QAM	12	7	16.21	16.22	16.18				
5	16QAM	12	13	16.34	16.45	16.45				
5	16QAM	25	0	16.52	16.51	16.49				
5	64QAM	1	0	16.22	16.29	16.33				
5	64QAM	1	13	16.33	16.33	16.27	17.8	0		
5	64QAM	1	24	16.53	16.51	16.46				
5	64QAM	12	0	16.23	16.36	16.39				
5	64QAM	12	7	16.52	16.56	16.41				
5	64QAM	12	13	16.21	16.29	16.20				
5	64QAM	25	0	16.51	16.48	16.37	17.8	0		
5	256QAM	1	0	16.28	16.24	16.28				
5	256QAM	1	12	16.35	16.47	16.38				
5	256QAM	1	24	16.42	16.40	16.46				
5	256QAM	12	0	16.42	16.48	16.41				
5	256QAM	12	7	16.46	16.46	16.50	17.8	0		
5	256QAM	12	13	16.45	16.39	16.44				
5	256QAM	25	0	16.49	16.48	16.41				
Channel										
Frequency (MHz)				26055	26340	26675			Tune-up limit (dBm)	MPR (dB)
3	QPSK	1	0	16.60	16.73	16.62	17.8	0		
3	QPSK	1	8	16.49	16.64	16.53				
3	QPSK	1	14	16.54	16.63	16.54				
3	QPSK	8	0	16.46	16.49	16.53				
3	QPSK	8	4	16.50	16.55	16.58				
3	QPSK	8	7	16.41	16.39	16.37	17.8	0		
3	QPSK	15	0	16.54	16.53	16.48				
3	16QAM	1	0	16.49	16.43	16.41				
3	16QAM	1	8	16.57	16.53	16.34				
3	16QAM	1	14	16.53	16.61	16.60				
3	16QAM	8	0	16.44	16.47	16.49	17.8	0		
3	16QAM	8	7	16.25	16.36	16.14				
3	16QAM	8	7	16.38	16.45	16.40				
3	16QAM	15	0	16.60	16.56	16.53				
3	64QAM	1	0	16.27	16.42	16.28				
3	64QAM	1	8	16.35	16.33	16.31	17.8	0		
3	64QAM	1	14	16.56	16.59	16.55				
3	64QAM	8	0	16.29	16.33	16.29				
3	64QAM	8	4	16.66	16.55	16.36				
3	64QAM	8	7	16.27	16.33	16.35				
3	64QAM	15	0	16.48	16.53	16.39	17.8	0		
3	256QAM	1	0	16.25	16.23	16.25				
3	256QAM	1	8	16.28	16.44	16.44				
3	256QAM	1	14	16.48	16.47	16.48				
3	256QAM	8	0	16.51	16.51	16.56				
3	256QAM	8	4	16.57	16.54	16.60	17.8	0		
3	256QAM	8	7	16.43	16.48	16.39				
3	256QAM	15	0	16.49	16.48	16.41				
Channel										
Frequency (MHz)				26013	26340	26715			Tune-up limit (dBm)	MPR (dB)
1.4	QPSK	1	0	16.55	16.73	16.57	17.8	0		
1.4	QPSK	1	5	16.60	16.64	16.53				
1.4	QPSK	3	0	16.46	16.59	16.57				
1.4	QPSK	3	3	16.57	16.54	16.57				
1.4	QPSK	3	3	16.40	16.39	16.42				
1.4	QPSK	3	3	16.39	16.48	16.53	17.8	0		
1.4	16QAM	1	0	16.39	16.38	16.45				
1.4	16QAM	1	3	16.38	16.30	16.30				
1.4	16QAM	1	5	16.39	16.60	16.57				
1.4	16QAM	3	0	16.46	16.57	16.56				
1.4	16QAM	3	1	16.30	16.22	16.17	17.8	0		
1.4	16QAM	3	3	16.43	16.43	16.50				
1.4	16QAM	6	0	16.60	16.52	16.46				
1.4	16QAM	6	0	16.20	16.31	16.36				
1.4	64QAM	1	0	16.35	16.40	16.40				
1.4	64QAM	1	5	16.50	16.54	16.58	17.8	0		
1.4	64QAM	3	0	16.27	16.27	16.40				
1.4	64QAM	3	1	16.54	16.55	16.45				
1.4	64QAM	3	3	16.16	16.39	16.32				
1.4	64QAM	6	0	16.18	16.28	16.38				
1.4	256QAM	1	0	16.16	16.56	16.38	17.8	0		
1.4	256QAM	1	3	16.31	16.49	16.43				
1.4	256QAM	1	5	16.36	16.37	16.48				
1.4	256QAM	3	0	16.53	16.44	16.46				
1.4	256QAM	3	1	16.51	16.40	16.51				
1.4	256QAM	3	3	16.37	16.49	16.31	17.8	0		
1.4	256QAM	6	0	16.42	16.45	16.45				

Band 26_Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				26765	26865	26965		
				821.5	831.5	841.5		
15	QPSK	1	0	23.81	23.85	23.83	24.3	0
15	QPSK	1	37	23.92	23.84	23.60		
15	QPSK	1	74	23.99	23.86	23.45		
15	QPSK	36	0	22.74	22.76	22.69		
15	QPSK	36	20	22.73	22.68	22.68	23.3	1
15	QPSK	36	39	22.71	22.73	22.62		
15	QPSK	75	0	22.77	22.80	22.68		
15	16QAM	1	0	22.84	22.91	22.86		
15	16QAM	1	37	22.97	22.93	22.81	23.3	1
15	16QAM	1	74	22.96	22.90	22.84		
15	16QAM	36	0	21.71	21.72	21.68		
15	16QAM	36	20	21.79	21.71	21.62		
15	16QAM	36	39	21.79	21.75	21.68	22.3	2
15	16QAM	75	0	21.79	21.67	21.69		
15	64QAM	1	0	21.80	21.85	21.80		
15	64QAM	1	37	21.85	21.76	21.77		
15	64QAM	1	74	21.84	21.74	21.80	21.3	3
15	64QAM	36	0	20.74	20.73	20.65		
15	64QAM	36	20	20.76	20.67	20.70		
15	64QAM	36	39	20.73	20.67	20.68		
15	64QAM	75	0	20.77	20.69	20.69	19.3	5
15	256QAM	1	0	18.62	18.77	18.71		
15	256QAM	1	37	18.54	18.70	18.65		
15	256QAM	1	74	18.70	18.60	18.68		
15	256QAM	36	0	18.70	18.75	18.66	19.3	5
15	256QAM	36	20	18.59	18.69	18.62		
15	256QAM	36	39	18.72	18.74	18.59		
15	256QAM	75	0	18.63	18.79	18.74		
Channel								
Frequency (MHz)				26740	26840	26940	Turn-up limit (dBm)	MPR (dB)
				819	831.5	844		
10	QPSK	1	0	23.68	23.64	23.70	24.3	0
10	QPSK	1	25	23.42	23.63	23.71		
10	QPSK	1	49	23.44	23.66	23.62		
10	QPSK	25	0	22.78	22.82	22.77		
10	QPSK	25	12	22.87	22.85	22.84	23.3	1
10	QPSK	25	25	22.83	22.88	22.81		
10	QPSK	50	0	22.86	22.82	22.80		
10	16QAM	1	0	23.28	23.29	23.09		
10	16QAM	1	25	23.13	23.14	23.20	23.3	1
10	16QAM	1	49	23.29	23.20	23.01		
10	16QAM	25	0	21.83	21.84	21.76		
10	16QAM	25	12	21.93	21.88	21.87		
10	16QAM	25	25	21.89	21.90	21.83	22.3	2
10	16QAM	50	0	21.86	21.82	21.81		
10	64QAM	1	0	21.89	22.04	22.05		
10	64QAM	1	25	22.07	22.02	21.79		
10	64QAM	1	49	21.92	21.83	21.79	21.3	3
10	64QAM	25	0	20.81	20.86	20.76		
10	64QAM	25	12	20.87	20.87	20.85		
10	64QAM	25	25	20.86	20.81	20.80		
10	64QAM	50	0	20.87	20.82	20.84	19.3	5
10	256QAM	1	0	18.45	18.68	18.70		
10	256QAM	1	25	18.51	18.64	18.63		
10	256QAM	1	49	18.60	18.79	18.49		
10	256QAM	25	0	18.51	18.63	18.63	19.3	5
10	256QAM	25	12	18.53	18.53	18.61		
10	256QAM	25	25	18.59	18.58	18.45		
10	256QAM	50	0	18.46	18.79	18.60		
Channel								
Frequency (MHz)				26715 <th>26815<th>26915</th><th>Turn-up limit (dBm)</th><th>MPR (dB)</th></th>	26815 <th>26915</th> <th>Turn-up limit (dBm)</th> <th>MPR (dB)</th>	26915	Turn-up limit (dBm)	MPR (dB)
				816.5 <th>831.5<th>846.5<th></th><th></th></th></th>	831.5 <th>846.5<th></th><th></th></th>	846.5 <th></th> <th></th>		
5	QPSK	1	0	23.71	23.72	23.68	24.3	0
5	QPSK	1	12	23.73	23.74	23.71		
5	QPSK	1	24	23.74	23.68	23.65		
5	QPSK	12	0	22.76	22.81	22.72		
5	QPSK	12	7	22.87	22.83	22.75	23.3	1
5	QPSK	12	13	22.85	22.88	22.75		
5	QPSK	25	0	22.85	22.80	22.73		
5	16QAM	1	0	23.16	23.11	23.01		
5	16QAM	1	12	23.23	23.13	23.21	23.3	1
5	16QAM	1	24	23.07	23.14	22.98		
5	16QAM	12	0	21.86	21.84	21.73		
5	16QAM	12	7	21.92	21.88	21.79		
5	16QAM	12	13	21.87	21.92	21.86	22.3	2
5	16QAM	25	0	21.89	21.83	21.75		
5	64QAM	1	0	22.07	22.05	21.89		
5	64QAM	1	12	22.00	22.09	22.00		
5	64QAM	1	24	21.94	22.02	21.82	21.3	3
5	64QAM	12	0	20.82	20.84	20.69		
5	64QAM	12	7	20.93	20.89	20.75		
5	64QAM	12	13	20.90	20.89	20.75		
5	64QAM	25	0	20.84	20.83	20.70	19.3	5
5	256QAM	1	0	18.49	18.75	18.58		
5	256QAM	1	12	18.45	18.52	18.54		
5	256QAM	1	24	18.61	18.67	18.60		
5	256QAM	12	0	18.63	18.63	18.54	19.3	5
5	256QAM	12	7	18.42	18.63	18.61		
5	256QAM	12	13	18.68	18.57	18.74		
5	256QAM	25	0	18.45	18.70	18.74		
Channel								
Frequency (MHz)				26705 <th>26805<th>27025</th><th>Turn-up limit (dBm)</th><th>MPR (dB)</th></th>	26805 <th>27025</th> <th>Turn-up limit (dBm)</th> <th>MPR (dB)</th>	27025	Turn-up limit (dBm)	MPR (dB)
				815.5 <th>831.5<th>847.5<th></th><th></th></th></th>	831.5 <th>847.5<th></th><th></th></th>	847.5 <th></th> <th></th>		
3	QPSK	1	0	23.77	23.69	23.60	24.3	0
3	QPSK	1	8	23.71	23.72	23.73		
3	QPSK	1	14	23.69	23.73	23.60		
3	QPSK	8	0	22.87	22.79	22.72		
3	QPSK	8	4	22.89	22.81	22.70	23.3	1
3	QPSK	8	7	22.82	22.88	22.78		
3	16QAM	1	0	23.80	23.78	23.68		
3	16QAM	1	0	23.24	23.12	22.99		
3	16QAM	1	8	23.28	23.12	23.01	23.3	1
3	16QAM	1	8	23.09	23.00	22.98		
3	16QAM	8	0	21.92	21.85	21.80		
3	16QAM	8	4	21.96	21.90	21.83		
3	16QAM	8	7	21.88	21.99	21.82	22.3	2
3	16QAM	15	0	21.81	21.79	21.66		
3	64QAM	1	0	21.88	22.02	21.87		
3	64QAM	1	8	22.09	22.18	22.03		
3	64QAM	1	14	21.94	21.96	21.71	21.3	3
3	64QAM	8	0	20.89	20.81	20.71		
3	64QAM	8	4	20.93	20.85	20.78		
3	64QAM	8	7	20.91	20.96	20.82		
3	64QAM	15	0	20.89	20.82	20.69	19.3	5
3	256QAM	1	0	18.52	18.76	18.61		
3	256QAM	1	8	18.47	18.59	18.57		
3	256QAM	1	14	18.70	18.74	18.59		
3	256QAM	8	0	18.69	18.75	18.62	19.3	5
3	256QAM	8	4	18.46	18.58	18.51		
3	256QAM	8	7	18.70	18.64	18.54		
3	256QAM	15	0	18.55	18.69	18.62		
Channel								
Frequency (MHz)				26997 <th>26995<th>27033</th><th>Turn-up limit (dBm)</th><th>MPR (dB)</th></th>	26995 <th>27033</th> <th>Turn-up limit (dBm)</th> <th>MPR (dB)</th>	27033	Turn-up limit (dBm)	MPR (dB)
				814.7 <th>831.5<th>848.3<th></th><th></th></th></th>	831.5 <th>848.3<th></th><th></th></th>	848.3 <th></th> <th></th>		
1.4	QPSK	1	0	23.55	23.63	23.64	24.3	0
1.4	QPSK	1	3	23.73	23.69	23.72		
1.4	QPSK	1	5	23.69	23.72	23.64		
1.4	QPSK	3	0	23.71	23.73	23.70		
1.4	QPSK	3	1	23.70	23.73	23.69	23.3	1
1.4	QPSK	6	0	23.70	23.70	23.72		
1.4	QPSK	6	0	22.82	22.77	22.71		
1.4	16QAM	1	0	23.09	23.09	22.98		
1.4	16QAM	1	3	23.16	23.13	23.01	23.3	1
1.4	16QAM	1	5	23.16	23.16	22.92		
1.4	16QAM	3	0	22.96	22.82	22.82		
1.4	16QAM	3	0	22.83	22.90	22.87		
1.4	16QAM	3	3	22.99	22.91	22.86	22.3	2
1.4	16QAM	6	0	21.87	21.84	21.86		
1.4	64QAM	1	0	23.14	23.13	23.08		
1.4	64QAM	1	3	22.05	22.00	21.98		
1.4	64QAM	1	5	22.10	21.92	21.96	22.3	2
1.4	64QAM	3	0	21.99	21.84	21.87		
1.4	64QAM	3	1	21.94	21.90	21.83		
1.4	64QAM	6	0	20.90	20.85	20.83		21.3
1.4	256QAM	1	0	18.55	18.74	18.54		
1.4	256QAM	1	8	18.48	18.67	18.61		
1.4	256QAM	1	5	18.59	18.70	18.53	19.3	
1.4	256QAM	1	14	18.70	18.74	18.59		
1.4	256QAM	8	0	18.69	18.75	18.62		
1.4	256QAM	8	4	18.46	18.58	18.51		
1.4	256QAM	8	7	18.70	18.64	18.54		19.3
1.4	256QAM	3	1	18.58	18.54	18.46		
1.4	256QAM	3	3	18.57	18.69	18.48		
1.4	256QAM	6	0	18.59	18.73	18.69		

Band 30_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 Frequency (MHz)				27710			20.4	0
10	QPSK	1	0		19.75			
10	QPSK	1	25		19.7		20.4	0
10	QPSK	1	49		19.65			
10	QPSK	25	0		19.65		20.4	0
10	QPSK	25	12		19.67			
10	QPSK	25	25		19.67		20.4	0
10	QPSK	50	0		19.68			
10	16QAM	1	0		19.65		20.4	0
10	16QAM	1	25		19.64			
10	16QAM	1	49		19.69		20.4	0
10	16QAM	25	0		19.6			
10	16QAM	25	12		19.62		20.4	0
10	16QAM	25	25		19.69			
10	16QAM	50	0		19.62		20.4	0
10	64QAM	1	0		19.68			
10	64QAM	1	25		19.67		20.4	0
10	64QAM	1	49		19.63			
10	64QAM	25	0		19.35		19.9	0.5
10	64QAM	25	12		19.31			
10	64QAM	25	25		19.36		19.9	0.5
10	64QAM	50	0		19.3			
10	256QAM	1	0		17.20		17.9	2.5
10	256QAM	1	25		17.30			
10	256QAM	1	49		17.17		17.9	2.5
10	256QAM	25	0		17.24			
10	256QAM	25	12		17.21		17.9	2.5
10	256QAM	25	25		17.25			
10	256QAM	50	0		17.27		Tune-up limit	
Channel Frequency (MHz)				27685	27710	27735	MPR (dB)	
5	QPSK	1	0		19.60	19.61	20.4	0
5	QPSK	1	12		19.69	19.65		
5	QPSK	1	24		19.57	19.64	20.4	0
5	QPSK	12	0		19.51	19.6		
5	QPSK	12	7		19.49	19.61	20.4	0
5	QPSK	12	13		19.48	19.56		
5	QPSK	25	0		19.69	19.61	20.4	0
5	16QAM	1	0		19.6	19.69		
5	16QAM	1	12		19.55	19.66	20.4	0
5	16QAM	1	24		19.6	19.62		
5	16QAM	12	0		19.59	19.53	20.4	0
5	16QAM	12	7		19.64	19.56		
5	16QAM	12	13		19.57	19.61	20.4	0
5	16QAM	25	0		19.63	19.59		
5	64QAM	1	0		19.6	19.63	20.4	0
5	64QAM	1	12		19.54	19.59		
5	64QAM	1	24		19.59	19.66	19.9	0.5
5	64QAM	12	0		19.35	19.34		
5	64QAM	12	7		19.12	19.29	19.9	0.5
5	64QAM	12	13		19.31	19.35		
5	64QAM	25	0		19.15	19.2	17.9	2.5
5	256QAM	1	0		17.06	17.17		
5	256QAM	1	12		17.17	17.22	17.9	2.5
5	256QAM	1	24		17.06	17.16		
5	256QAM	12	0		17.19	17.17	17.9	2.5
5	256QAM	12	7		17.02	17.19		
5	256QAM	12	13		17.10	17.17	17.9	2.5
5	256QAM	25	0		17.15	17.22		

Band 30_Ant 5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tuneup limit (dBm)	MPR (dB)
Channel Frequency (MHz)				27710			24.3	0
10	QPSK	1	0		23.68			
10	QPSK	1	25		23.60			
10	QPSK	1	49		23.65			
10	QPSK	25	0		22.76			
10	QPSK	25	12		22.70			
10	QPSK	25	25		22.73			
10	QPSK	50	0		22.69			
10	16QAM	1	0		23.10			
10	16QAM	1	25		23.06			
10	16QAM	1	49		23.16			
10	16QAM	25	0		21.69			
10	16QAM	25	12		21.71			
10	16QAM	25	25		21.75			
10	16QAM	50	0		21.69			
10	64QAM	1	0		21.94			
10	64QAM	1	25		21.93			
10	64QAM	1	49		21.72			
10	64QAM	25	0		20.69			
10	64QAM	25	12		20.69			
10	64QAM	25	25		20.73			
10	64QAM	50	0		20.64			
10	256QAM	1	0		18.60			
10	256QAM	1	25		18.55			
10	256QAM	1	49		18.52			
10	256QAM	25	0		18.50			
10	256QAM	25	12		18.57			
10	256QAM	25	25		18.59			
10	256QAM	50	0		18.51			
Channel Frequency (MHz)				27685	27710	27735	Tuneup limit (dBm)	MPR (dB)
5	QPSK	1	0		23.58	23.58	24.3	0
5	QPSK	1	12		23.47	23.58		
5	QPSK	1	24		23.64	23.55	23.3	1
5	QPSK	12	0		22.48	22.50		
5	QPSK	12	7		22.63	22.51	23.3	1
5	QPSK	12	13		22.70	22.69		
5	QPSK	25	0		22.49	22.58	23.3	1
5	16QAM	1	0		23.00	23.09		
5	16QAM	1	12		22.88	23.04	23.3	1
5	16QAM	1	24		23.05	23.12		
5	16QAM	12	0		21.62	21.56	22.3	2
5	16QAM	12	7		21.70	21.69		
5	16QAM	12	13		21.58	21.71	22.3	2
5	16QAM	25	0		21.50	21.57		
5	64QAM	1	0		21.85	21.80	21.3	3
5	64QAM	1	12		21.83	21.86		
5	64QAM	1	24		21.84	21.71	19.3	5
5	64QAM	12	0		20.51	20.51		
5	64QAM	12	7		20.61	20.65	19.3	5
5	64QAM	12	13		20.70	20.64		
5	64QAM	25	0		20.61	20.57	19.3	5
5	256QAM	1	0		18.47	18.49		
5	256QAM	1	12		18.54	18.52	19.3	5
5	256QAM	1	24		18.37	18.47		
5	256QAM	12	0		18.45	18.31	19.3	5
5	256QAM	12	7		18.53	18.53		
5	256QAM	12	13		18.42	18.46	19.3	5
5	256QAM	25	0		18.35	18.35		

Band 30_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]				27710			17.3	0
10	QPSK	1	0	16.81	16.81	16.81		
10	QPSK	1	25	16.89	16.89	16.89	17.3	0
10	QPSK	1	49	16.81	16.81	16.81		
10	QPSK	25	0	16.77	16.77	16.77	17.3	0
10	QPSK	25	12	16.84	16.84	16.84		
10	QPSK	25	25	16.96	16.96	16.96	17.3	0
10	QPSK	50	0	16.70	16.70	16.70		
10	16QAM	1	0	16.85	16.85	16.85	17.3	0
10	16QAM	1	25	16.76	16.76	16.76		
10	16QAM	1	49	16.73	16.73	16.73	17.3	0
10	16QAM	25	0	16.76	16.76	16.76		
10	16QAM	25	12	16.60	16.60	16.60	17.3	0
10	16QAM	25	25	16.82	16.82	16.82		
10	16QAM	50	0	16.78	16.78	16.78	17.3	0
10	64QAM	1	0	16.58	16.58	16.58		
10	64QAM	1	25	16.65	16.65	16.65	17.3	0
10	64QAM	1	49	16.60	16.60	16.60		
10	64QAM	25	0	16.57	16.57	16.57	17.3	0
10	64QAM	25	12	16.70	16.70	16.70		
10	64QAM	25	25	16.69	16.69	16.69	17.3	0
10	256QAM	1	0	16.66	16.66	16.66		
10	256QAM	1	25	16.58	16.58	16.58	17.3	0
10	256QAM	1	49	16.69	16.69	16.69		
10	256QAM	25	0	16.69	16.69	16.69	17.3	0
10	256QAM	25	12	16.57	16.57	16.57		
10	256QAM	25	25	16.66	16.66	16.66	17.3	0
10	256QAM	50	0	16.58	16.58	16.58		
Channel Frequency [MHz]				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	16.71	16.67	16.70	17.3	0
5	QPSK	1	12	16.54	16.50	16.58		
5	QPSK	1	24	16.50	16.44	16.52	17.3	0
5	QPSK	12	0	16.59	16.58	16.62		
5	QPSK	12	7	16.54	16.46	16.53	17.3	0
5	QPSK	12	13	16.53	16.47	16.48		
5	QPSK	25	0	16.59	16.62	16.59	17.3	0
5	16QAM	1	0	16.45	16.51	16.51		
5	16QAM	1	12	16.72	16.71	16.73	17.3	0
5	16QAM	1	24	16.73	16.77	16.75		
5	16QAM	12	0	16.67	16.63	16.71	17.3	0
5	16QAM	12	7	16.48	16.53	16.47		
5	16QAM	12	13	16.42	16.53	16.55	17.3	0
5	16QAM	25	0	16.71	16.73	16.69		
5	64QAM	1	0	16.49	16.41	16.48	17.3	0
5	64QAM	1	12	16.55	16.49	16.51		
5	64QAM	1	24	16.44	16.48	16.42	17.3	0
5	64QAM	12	0	16.52	16.56	16.58		
5	64QAM	12	7	16.62	16.50	16.62	17.3	0
5	64QAM	12	13	16.58	16.64	16.61		
5	64QAM	25	0	16.61	16.50	16.46	17.3	0
5	256QAM	1	0	16.41	16.53	16.43		
5	256QAM	1	12	16.55	16.55	16.49	17.3	0
5	256QAM	1	24	16.59	16.50	16.54		
5	256QAM	12	0	16.62	16.61	16.62	17.3	0
5	256QAM	12	7	16.45	16.48	16.44		
5	256QAM	12	13	16.52	16.56	16.49	17.3	0
5	256QAM	25	0	16.41	16.45	16.43		

Band 30_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]				27710			22.1	0
10	QPSK	1	0	21.51	21.51	21.51		
10	QPSK	1	25	21.49	21.49	21.49	22.1	0
10	QPSK	1	49	21.36	21.36	21.36		
10	QPSK	25	0	21.33	21.33	21.33	22.1	0
10	QPSK	25	12	21.33	21.33	21.33		
10	QPSK	25	25	21.36	21.36	21.36	22.1	0
10	QPSK	50	0	21.35	21.35	21.35		
10	16QAM	1	0	21.41	21.41	21.41	22.1	0
10	16QAM	1	25	21.33	21.33	21.33		
10	16QAM	1	49	21.35	21.35	21.35	21.1	1
10	16QAM	25	0	20.41	20.41	20.41		
10	16QAM	25	12	20.35	20.35	20.35	21.1	1
10	16QAM	25	25	20.33	20.33	20.33		
10	16QAM	50	0	20.39	20.39	20.39	21.1	1
10	64QAM	1	0	20.73	20.73	20.73		
10	64QAM	1	25	20.68	20.68	20.68	21.1	1
10	64QAM	1	49	20.62	20.62	20.62		
10	64QAM	25	0	19.33	19.33	19.33	20.1	2
10	64QAM	25	12	19.30	19.30	19.30		
10	64QAM	25	25	19.35	19.35	19.35	18.1	4
10	256QAM	1	0	17.30	17.30	17.30		
10	256QAM	1	25	17.25	17.25	17.25	18.1	4
10	256QAM	1	49	17.28	17.28	17.28		
10	256QAM	25	0	17.28	17.28	17.30	18.1	4
10	256QAM	25	12	17.30	17.30	17.33		
10	256QAM	50	0	17.25	17.25	17.25	18.1	4
Channel Frequency [MHz]				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	21.36	21.48	21.40	22.1	0
5	QPSK	1	12	21.24	21.22	21.28		
5	QPSK	1	24	21.34	21.29	21.27	22.1	0
5	QPSK	12	0	21.29	21.28	21.31		
5	QPSK	12	7	21.23	21.27	21.19	22.1	0
5	QPSK	12	13	21.20	21.29	21.22		
5	QPSK	25	0	21.17	21.21	21.18	22.1	0
5	16QAM	1	0	21.28	21.36	21.25		
5	16QAM	1	12	21.22	21.21	21.20	22.1	0
5	16QAM	1	24	21.29	21.39	21.30		
5	16QAM	12	0	20.49	20.29	20.24	21.1	1
5	16QAM	12	7	20.17	20.35	20.24		
5	16QAM	12	13	20.21	20.14	20.16	21.1	1
5	16QAM	25	0	20.39	20.29	20.29		
5	16QAM	25	12	20.62	20.60	20.53	21.1	1
5	64QAM	1	0	20.65	20.49	20.51		
5	64QAM	1	12	20.61	20.59	20.57	21.1	1
5	64QAM	1	24	20.61	20.59	20.57		
5	64QAM	12	0	19.27	19.15	19.31	20.1	2
5	64QAM	12	7	19.27	19.17	19.28		
5	64QAM	12	13	19.21	19.34	19.28	18.1	4
5	64QAM	25	0	19.30	19.33	19.25		
5	256QAM	1	0	17.21	17.39	17.13	18.1	4
5	256QAM	1	12	17.07	17.07	17.14		
5	256QAM	1	24	17.23	17.11	17.23	18.1	4
5	256QAM	12	0	17.10	17.12	17.12		
5	256QAM	12	7	17.20	17.22	17.13	18.1	4
5	256QAM	12	13	17.32	17.21	17.31		
5	256QAM	25	0	17.25	17.25	17.06	18.1	4
5	256QAM	25	12	17.25	17.25	17.06		

Band 66_Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Lb / Freq	Power Mb / Freq	Power Hb / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				130272	130292	130272				
20	QPSK	1	0	19.99	20.15	20.14	20.9	0		
20	QPSK	1	49	20.02	20.14	20.03				
20	QPSK	1	99	19.98	20.12	20.01				
20	QPSK	50	0	20.07	20.11	20.04				
20	QPSK	50	24	19.99	20.03	20.03	20.9	0		
20	QPSK	50	50	20.03	20.05	19.98				
20	QPSK	100	0	20.03	20.09	20.01				
20	16QAM	1	0	20.07	19.99	20.07				
20	16QAM	1	49	20.03	19.98	20.1	20.9	0		
20	16QAM	1	99	20.03	19.99	19.98				
20	16QAM	50	0	20.03	19.99	19.98				
20	16QAM	50	24	20.05	19.95	19.97				
20	16QAM	50	24	19.94	20	20.05	20.9	0		
20	16QAM	50	50	19.9	20.05	19.99				
20	64QAM	1	0	20.03	20.01	20.12				
20	64QAM	1	49	20.05	19.99	20.13				
20	64QAM	1	99	19.97	20.11	20.11	20.9	0		
20	64QAM	50	0	19.95	19.98	19.71				
20	64QAM	50	24	19.64	19.69	19.64				
20	64QAM	50	50	19.58	19.58	19.61				
20	64QAM	100	0	19.61	19.58	19.66	20.4	0.5		
20	256QAM	1	0	17.62	17.69	17.63				
20	256QAM	1	49	17.48	17.65	17.64				
20	256QAM	1	99	17.53	17.66	17.44				
20	256QAM	50	0	17.53	17.66	17.57	18.4	2.5		
20	256QAM	50	24	17.71	17.75	17.73				
20	256QAM	50	50	17.61	17.70	17.54				
20	256QAM	100	0	17.60	17.62	17.61				
Channel										
Frequency (MHz)				130272	130292	130272			Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	17.15	17.45	17.75	20.9	0		
15	QPSK	1	37	19.92	19.98	20.11				
15	QPSK	1	74	19.81	20.05	19.85				
15	QPSK	1	90	19.90	19.94	19.92				
15	QPSK	36	20	19.90	19.85	19.89	20.9	0		
15	QPSK	36	39	20.01	19.98	19.93				
15	QPSK	75	0	20.09	20.08	20.12				
15	16QAM	1	0	19.95	19.86	19.89				
15	16QAM	1	37	19.97	19.77	20.10	20.9	0		
15	16QAM	1	74	19.90	19.81	19.90				
15	16QAM	36	0	19.89	19.95	19.85				
15	16QAM	36	20	19.82	19.80	19.85				
15	16QAM	36	39	19.76	19.91	19.80	20.9	0		
15	16QAM	75	0	19.81	19.92	19.92				
15	64QAM	1	0	19.86	20.13	19.94				
15	64QAM	1	37	19.89	19.79	20.07				
15	64QAM	1	74	19.85	20.04	20.01	20.9	0		
15	64QAM	36	0	19.48	19.66	19.66				
15	64QAM	36	20	19.53	19.64	19.56				
15	64QAM	36	39	19.56	19.64	19.56				
15	64QAM	36	39	19.58	19.58	19.64	20.4	0.5		
15	256QAM	1	0	17.60	17.66	17.55				
15	256QAM	1	37	17.43	17.59	17.56				
15	256QAM	1	74	17.50	17.62	17.40				
15	256QAM	36	0	17.47	17.64	17.46				
15	256QAM	36	39	17.67	17.67	17.69	18.4	2.5		
15	256QAM	36	74	17.50	17.62	17.48				
15	256QAM	75	0	17.58	17.54	17.57				
15	256QAM	75	0	17.52	17.52	17.52				
Channel										
Frequency (MHz)				130222	130222	130222			Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	19.87	20.06	20.05	20.9	0		
10	QPSK	1	25	19.89	20.04	20.04				
10	QPSK	1	49	19.90	19.94	19.90				
10	QPSK	25	0	19.96	19.89	19.95				
10	QPSK	25	12	19.80	19.91	19.89	20.9	0		
10	QPSK	25	25	19.96	19.96	19.91				
10	QPSK	50	0	19.98	19.96	20.07				
10	16QAM	1	0	19.92	19.91	19.99				
10	16QAM	1	25	19.94	19.75	20.04	20.9	0		
10	16QAM	1	49	19.91	19.79	19.81				
10	16QAM	25	0	20.00	19.99	19.98				
10	16QAM	25	12	19.77	19.92	19.90				
10	16QAM	25	25	19.70	19.89	19.86	20.9	0		
10	16QAM	50	0	19.83	19.81	19.89				
10	64QAM	1	0	19.98	20.07	20.02				
10	64QAM	1	25	19.95	19.84	20.10				
10	64QAM	1	49	19.91	20.01	20.01	20.9	0		
10	64QAM	25	0	19.50	19.65	19.66				
10	64QAM	25	12	19.99	19.62	19.58				
10	64QAM	25	25	19.94	19.56	19.51				
10	64QAM	50	0	19.59	19.54	19.63	20.4	0.5		
10	256QAM	1	0	17.56	17.67	17.58				
10	256QAM	1	25	17.43	17.63	17.40				
10	256QAM	1	49	17.46	17.54	17.40				
10	256QAM	25	0	17.42	17.55	17.50				
10	256QAM	25	12	17.48	17.66	17.65	18.4	2.5		
10	256QAM	25	25	17.50	17.62	17.53				
10	256QAM	50	0	17.52	17.52	17.52				
10	256QAM	50	0	17.52	17.52	17.52				
Channel										
Frequency (MHz)				131172	130272	130272			Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	19.91	20.08	20.09	20.9	0		
5	QPSK	1	12	19.88	20.00	19.97				
5	QPSK	1	24	19.88	19.92	19.86				
5	QPSK	12	0	19.97	19.94	19.96				
5	QPSK	12	7	19.80	19.98	19.90	20.9	0		
5	QPSK	12	13	19.95	19.92	20.00				
5	QPSK	25	0	19.99	20.02	20.08				
5	16QAM	1	0	19.95	19.85	20.00				
5	16QAM	1	12	19.98	19.81	20.01	20.9	0		
5	16QAM	1	24	19.84	19.91	19.90				
5	16QAM	12	0	19.90	19.92	19.82				
5	16QAM	12	7	19.78	19.82	19.85				
5	16QAM	12	13	19.75	19.70	19.85	20.9	0		
5	16QAM	25	0	19.89	19.81	20.00				
5	64QAM	1	0	19.91	20.09	19.92				
5	64QAM	1	12	19.87	19.90	20.08				
5	64QAM	1	24	19.77	19.91	20.09	20.9	0		
5	64QAM	12	0	19.45	19.63	19.65				
5	64QAM	12	7	19.59	19.56	19.53				
5	64QAM	12	13	19.53	19.62	19.54				
5	64QAM	25	0	19.58	19.50	19.57	20.4	0.5		
5	256QAM	1	0	17.55	17.63	17.51				
5	256QAM	1	12	17.43	17.58	17.59				
5	256QAM	1	24	17.46	17.59	17.54				
5	256QAM	12	0	17.44	17.55	17.50	18.4	2.5		
5	256QAM	12	7	17.70	17.72	17.61				
5	256QAM	12	13	17.52	17.69	17.51				
5	256QAM	25	0	17.53	17.61	17.55				
Channel										
Frequency (MHz)				131167	130222	130267			Tune-up limit (dBm)	MPR (dB)
3	QPSK	1	0	19.92	19.98	20.05	20.9	0		
3	QPSK	1	8	19.92	20.03	20.07				
3	QPSK	1	14	19.89	19.92	19.96				
3	QPSK	8	0	19.96	19.92	19.96				
3	QPSK	8	4	19.90	19.94	19.91	20.9	0		
3	QPSK	8	7	19.93	19.96	19.96				
3	QPSK	15	0	20.08	19.97	20.05				
3	16QAM	1	0	19.96	19.87	19.93				
3	16QAM	1	8	19.98	19.73	20.14	20.9	0		
3	16QAM	1	14	19.87	19.80	19.83				
3	16QAM	8	0	19.92	20.00	19.79				
3	16QAM	8	4	19.77	19.83	19.87				
3	16QAM	8	7	19.77	19.95	19.79	20.9	0		
3	16QAM	15	0	19.77	19.87	19.98				
3	64QAM	1	0	19.91	20.11	19.99				
3	64QAM	1	8	19.88	19.80	19.98				
3	64QAM	1	14	19.81	20.02	20.08	20.4	0.5		
3	64QAM	8	0	19.51	19.54	19.60				
3	64QAM	8	4	19.59	19.59	19.58				
3	64QAM	8	7	19.54	19.54	19.54				
3	256QAM	1	0	17.53	17.64	17.53	18.4	2.5		
3	256QAM	1	8	17.40	17.65	17.56				
3	256QAM	1	14	17.47	17.59	17.37				
3	256QAM	1	24	17.47	17.64	17.50				
3	256QAM	8	0	17.60	17.68	17.61	18.4	2.5		
3	256QAM	8	4	17.60	17.62	17.51				
3	256QAM	8	7	17.54	17.65	17.45				
3	256QAM	15	0	17.53	17.53	17.53				
Channel										
Frequency (MHz)				17107	1745	1779.3			Tune-up limit (dBm)	MPR (dB)
1.4	QPSK	1	0	19.91	20.04	20.01	20.9	0		
1.4	QPSK	3	0	19.84	19.98	19.94				
1.4	QPSK	1	5	19.79	19.93	19.94				
1.4	QPSK	3	0	19.93	20.02	19.88				
1.4	QPSK	1	0	19.94	19.96	19.96	20.9	0		
1.4	QPSK	3	3	19.91	19.97	20.02				
1.4	QPSK	9	0	20.07	20.00	19.97				
1.4	16QAM	1	0	19.95	19.82	19.97				
1.4	16QAM	1	3	19.91	19.75	20.08	20.9	0		
1.4	16QAM	1	5	19.91	19.82	19.83				
1.4	16QAM	1	9	19.93	19.82	19.87				
1.4	16QAM	3	1	19.85	19.88	19.93				
1.4	16QAM	3	3	19.75	19.87	19.82	20.9	0		
1.4	16QAM	6	0	19.77	19.82	19.90				
1.4	64QAM	1	0	19.88	20.00	19.97				
1.4	64QAM	1	3	19.82	19.96	19.94				
1.4	64QAM	1	5	19.78	19.96	20.02	20.9	0		
1.4	64QAM	3	0	19.82	20.07	19.98				
1.4	64QAM	3	1	19.83	20.08	20.03				
1.4	64QAM	3	3	19.79	20.09	20.02				
1.4	64QAM	6	0	19.64	19.85	19.66	20.4	0.5		
1.4	256QAM	1	0	17.54	17.65	17.56				
1.4	256QAM	1	3	17.38	17.59	17.58				
1.4	256QAM	1	5	17.49	17.59	17.39				
1.4	256QAM	3	0	17.51	17.62	17.46	18.4	2.5		
1.4	256QAM	3	1	17.60	17.68	17.72				
1.4	256QAM	3	3	17.50	17.61	17.51				
1.4	256QAM	6	0	17.50	17.61	17.51				
1.4	256QAM	6	0	17.50	17.61	17.51				
1.4	256QAM	6	0	17.50	17.61	17.51				

Band 66_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)										
20	QPSK	1	0	130072	130222	130272	17.3	0		
20	QPSK	1	49	16.69	16.61	16.68				
20	QPSK	1	99	16.54	16.67	16.67				
20	QPSK	50	0	16.61	16.75	16.73				
20	QPSK	50	24	16.58	16.70	16.69	17.3	0		
20	QPSK	50	50	16.53	16.68	16.66				
20	QPSK	100	0	16.59	16.71	16.69				
20	16QAM	1	0	16.45	16.52	16.40				
20	16QAM	1	49	16.44	16.50	16.58	17.3	0		
20	16QAM	1	99	16.44	16.56	16.54				
20	16QAM	50	0	16.61	16.65	16.51				
20	16QAM	50	24	16.50	16.62	16.52				
20	16QAM	50	50	16.54	16.66	16.57	17.3	0		
20	16QAM	100	0	16.52	16.67	16.64				
20	256QAM	1	0	16.56	16.62	16.48				
20	256QAM	1	49	16.57	16.60	16.50				
20	256QAM	1	99	16.51	16.53	16.45	17.3	0		
20	256QAM	50	0	16.48	16.57	16.56				
20	256QAM	50	24	16.57	16.69	16.58				
20	256QAM	50	50	16.59	16.64	16.57				
20	256QAM	100	0	16.57	16.66	16.61	17.3	0		
Channel										
Frequency (MHz)										
15	QPSK	1	0	130072	130222	130267	17.3	0		
15	QPSK	1	37	16.53	16.56	16.48				
15	QPSK	1	74	16.46	16.51	16.48				
15	QPSK	36	0	16.43	16.62	16.64				
15	QPSK	36	20	16.37	16.50	16.52	17.3	0		
15	QPSK	36	36	16.44	16.60	16.49				
15	QPSK	75	0	16.37	16.48	16.55				
15	16QAM	1	0	16.27	16.35	16.19				
15	16QAM	1	37	16.30	16.49	16.19	17.3	0		
15	16QAM	1	74	16.24	16.35	16.42				
15	16QAM	36	0	16.53	16.57	16.32				
15	16QAM	36	20	16.34	16.50	16.35				
15	16QAM	36	36	16.42	16.50	16.41	17.3	0		
15	16QAM	75	0	16.35	16.53	16.51				
15	64QAM	1	1	16.39	16.45	16.45				
15	64QAM	1	37	16.30	16.35	16.24				
15	64QAM	1	74	16.34	16.45	16.26	17.3	0		
15	64QAM	36	0	16.35	16.45	16.48				
15	64QAM	36	20	16.53	16.60	16.45				
15	64QAM	36	36	16.40	16.59	16.41				
15	256QAM	1	0	16.44	16.53	16.46	17.3	0		
15	256QAM	1	6	16.42	16.39	16.30				
15	256QAM	1	37	16.46	16.37	16.28				
15	256QAM	1	74	16.37	16.45	16.23				
15	256QAM	36	0	16.39	16.42	16.43	17.3	0		
15	256QAM	36	20	16.44	16.60	16.47				
15	256QAM	36	36	16.36	16.48	16.34				
15	256QAM	75	0	16.40	16.52	16.53				
Channel										
Frequency (MHz)										
10	QPSK	1	0	130022	130222	130262	17.3	0		
10	QPSK	1	25	16.52	16.62	16.58				
10	QPSK	1	25	16.34	16.44	16.37				
10	QPSK	36	49	16.38	16.57	16.42				
10	QPSK	25	0	16.40	16.55	16.65	17.3	0		
10	QPSK	25	12	16.38	16.57	16.58				
10	QPSK	25	25	16.36	16.55	16.58				
10	QPSK	50	0	16.50	16.51	16.50				
10	16QAM	1	0	16.32	16.39	16.24	17.3	0		
10	16QAM	1	25	16.47	16.49	16.43				
10	16QAM	1	49	16.33	16.40	16.41				
10	16QAM	25	0	16.43	16.47	16.41				
10	16QAM	25	12	16.41	16.46	16.32	17.3	0		
10	16QAM	25	25	16.31	16.36	16.49				
10	16QAM	50	0	16.41	16.42	16.41				
10	64QAM	1	0	16.34	16.56	16.44				
10	64QAM	1	25	16.29	16.42	16.29	17.3	0		
10	64QAM	1	49	16.40	16.37	16.40				
10	64QAM	25	0	16.44	16.46	16.39				
10	64QAM	25	12	16.44	16.52	16.45				
10	64QAM	25	25	16.36	16.36	16.41	17.3	0		
10	64QAM	50	0	16.41	16.46	16.52				
10	256QAM	1	0	16.47	16.44	16.35				
10	256QAM	1	6	16.40	16.41	16.33				
10	256QAM	1	49	16.30	16.39	16.24	17.3	0		
10	256QAM	25	0	16.29	16.45	16.33				
10	256QAM	25	12	16.41	16.57	16.48				
10	256QAM	25	25	16.47	16.43	16.38				
10	256QAM	50	0	16.46	16.54	16.46				
Channel										
Frequency (MHz)										
5	QPSK	1	0	1712.5	1745	1777.5	17.3	0		
5	QPSK	1	12	16.50	16.48	16.48				
5	QPSK	1	24	16.46	16.58	16.40				
5	QPSK	12	0	16.48	16.57	16.57				
5	QPSK	12	7	16.35	16.56	16.56	17.3	0		
5	QPSK	12	13	16.43	16.45	16.54				
5	QPSK	1	0	16.48	16.48	16.54				
5	16QAM	1	0	16.37	16.37	16.28				
5	16QAM	1	12	16.48	16.52	16.37	17.3	0		
5	16QAM	1	24	16.36	16.34	16.46				
5	16QAM	12	0	16.47	16.49	16.38				
5	16QAM	12	7	16.29	16.41	16.33				
5	16QAM	12	13	16.34	16.43	16.43	17.3	0		
5	16QAM	25	0	16.38	16.44	16.43				
5	64QAM	1	0	16.43	16.47	16.52				
5	64QAM	1	12	16.29	16.49	16.21				
5	64QAM	1	24	16.47	16.51	16.25	17.3	0		
5	64QAM	12	0	16.43	16.61	16.51				
5	64QAM	12	7	16.40	16.58	16.45				
5	64QAM	12	13	16.47	16.61	16.32				
5	256QAM	1	0	16.29	16.51	16.41	17.3	0		
5	256QAM	1	12	16.47	16.51	16.39				
5	256QAM	1	24	16.29	16.39	16.33				
5	256QAM	12	0	16.37	16.42	16.47				
5	256QAM	12	7	16.40	16.56	16.40	17.3	0		
5	256QAM	12	13	16.36	16.51	16.36				
5	256QAM	25	0	16.49	16.47	16.40				
Channel										
Frequency (MHz)										
3	QPSK	1	0	131067	130222	130267	17.3	0		
3	QPSK	1	8	16.55	16.62	16.59				
3	QPSK	1	14	16.35	16.59	16.51				
3	QPSK	8	0	16.44	16.63	16.51				
3	QPSK	8	4	16.35	16.59	16.60	17.3	0		
3	QPSK	8	7	16.45	16.54	16.52				
3	QPSK	15	0	16.39	16.61	16.49				
3	16QAM	1	0	16.25	16.29	16.24				
3	16QAM	1	8	16.43	16.53	16.47	17.3	0		
3	16QAM	1	14	16.30	16.39	16.46				
3	16QAM	8	0	16.44	16.51	16.37				
3	16QAM	8	7	16.32	16.51	16.44				
3	16QAM	15	0	16.42	16.50	16.40	17.3	0		
3	16QAM	1	0	16.38	16.55	16.41				
3	64QAM	1	8	16.32	16.39	16.24				
3	64QAM	1	14	16.49	16.40	16.27				
3	64QAM	8	0	16.31	16.51	16.40	17.3	0		
3	64QAM	8	4	16.40	16.52	16.36				
3	64QAM	8	7	16.42	16.57	16.45				
3	64QAM	15	0	16.44	16.49	16.42				
3	256QAM	1	0	16.48	16.48	16.30	17.3	0		
3	256QAM	1	8	16.40	16.40	16.38				
3	256QAM	1	14	16.41	16.31	16.29				
3	256QAM	8	0	16.40	16.42	16.46	17.3	0		
3	256QAM	8	4	16.49	16.49	16.46				
3	256QAM	8	7	16.51	16.56	16.36				
3	256QAM	15	0	16.49	16.48	16.41				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	1710.7	1745	1779.3	17.3	0		
1.4	QPSK	1	6	16.49	16.73	16.51				
1.4	QPSK	1	14	16.35	16.72	16.54				
1.4	QPSK	1	5	16.80	16.87	16.49				
1.4	QPSK	3	0	16.46	16.82	16.64	17.3	0		
1.4	QPSK	3	14	16.43	16.81	16.67				
1.4	QPSK	3	3	16.43	16.58	16.47				
1.4	QPSK	9	0	16.41	16.82	16.84				
1.4	16QAM	1	0	16.28	16.31	16.24	17.3	0		
1.4	16QAM	1	3	16.53	16.49	16.46				
1.4	16QAM	1	5	16.29	16.46	16.37				
1.4	16QAM	3	1	16.47	16.82	16.84				
1.4	16QAM	3	1	16.35	16.49	16.42	17.3	0		
1.4	16QAM	3	14	16.44	16.43	16.43				
1.4	16QAM	6	0	16.42	16.43	16.53				
1.4	16QAM	3	3	16.49	16.53	16.43				
1.4	64QAM	1	0	16.29	16.31	16.23	17.3	0		
1.4	64QAM	1	5	16.42	16.39	16.36				
1.4	64QAM	3	0	16.39	16.51	16.48				
1.4	64QAM	3	1	16.51	16.54	16.48				
1.4	64QAM	3	3	16.45	16.50	16.33	17.3	0		
1.4	64QAM	6	0	16.31	16.48	16.43				
1.4	256QAM	1	0	16.45	16.42	16.35				
1.4	256QAM	1	3	16.41	16.38	16.40				
1.4	256QAM	1	5	16.35	16.34	16.33	17.3	0		
1.4	256QAM	3	0	16.26	16.36	16.30				
1.4	256QAM	3	1	16.30	16.80	16.39				
1.4	256QAM	3	3	16.43	16.56	16.37				
1.4	256QAM	6	0	16.49	16.48	16.48				

Band 71_Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				133222	133297	133372			
Frequency (MHz)				673	680.5	688			
20	QPSK	1	0	23.78	23.81	23.75	24.3	0	
20	QPSK	1	49	23.72	23.72	23.72			
20	QPSK	1	99	23.51	23.70	23.56			
20	QPSK	50	0	22.84	22.83	22.87			
20	QPSK	50	24	22.78	22.80	22.78	23.3	1	
20	QPSK	50	50	22.72	22.74	22.66			
20	QPSK	100	0	22.72	22.81	22.72			
20	16QAM	1	0	22.82	22.86	22.78			
20	16QAM	1	49	22.91	23.03	22.93	23.3	1	
20	16QAM	1	99	22.87	22.91	22.85			
20	16QAM	50	0	21.77	21.88	21.86			
20	16QAM	50	24	21.75	21.80	21.79			
20	16QAM	50	50	21.70	21.78	21.72	22.3	2	
20	16QAM	100	0	21.70	21.81	21.74			
20	64QAM	1	0	22.13	22.16	22.14			
20	64QAM	1	49	21.78	21.86	21.78			
20	64QAM	1	99	21.71	21.75	21.80	22.3	2	
20	64QAM	50	0	20.78	20.83	20.81			
20	64QAM	50	24	20.78	20.83	20.76			
20	64QAM	50	50	20.62	20.68	20.68			
20	256QAM	100	0	20.63	20.75	20.68	21.3	3	
20	256QAM	1	0	18.80	18.82	18.72			
20	256QAM	1	49	18.67	18.85	18.74			
20	256QAM	1	99	18.65	18.80	18.79			
20	256QAM	50	0	18.68	18.79	18.68	19.3	5	
20	256QAM	50	24	18.70	18.77	18.67			
20	256QAM	50	50	18.66	18.75	18.63			
20	256QAM	100	0	18.55	18.72	18.57			
Channel				133197	133297	133397			
Frequency (MHz)				670.5	680.5	690.5	Tune-up limit (dBm)		MPR (dB)
15	QPSK	1	0	23.69	23.72	23.74	24.3	0	
15	QPSK	1	37	23.68	23.62	23.61			
15	QPSK	1	74	23.47	23.64	23.49			
15	QPSK	36	0	22.80	22.81	22.86			
15	QPSK	36	20	22.84	22.70	22.70	23.3	1	
15	QPSK	36	39	22.87	22.72	22.82			
15	QPSK	75	0	22.68	22.74	22.67			
15	16QAM	1	0	22.77	22.76	22.73			
15	16QAM	1	37	22.85	22.88	22.91	23.3	1	
15	16QAM	1	74	22.79	22.79	22.80			
15	16QAM	36	0	21.76	21.96	21.76			
15	16QAM	36	20	21.67	21.67	21.69			
15	16QAM	36	39	21.62	21.70	21.61	22.3	2	
15	16QAM	75	0	21.59	21.80	21.73			
15	64QAM	1	0	22.07	22.08	22.09			
15	64QAM	1	37	21.72	21.77	21.76			
15	64QAM	1	74	21.66	21.73	21.69	22.3	2	
15	64QAM	36	0	20.75	20.82	20.77			
15	64QAM	36	20	20.77	20.72	20.74			
15	64QAM	36	39	20.66	20.61	20.68			
15	64QAM	75	0	20.82	20.71	20.83	21.3	3	
15	256QAM	1	0	18.70	18.73	18.71			
15	256QAM	1	37	18.81	18.75	18.87			
15	256QAM	1	74	18.80	18.79	18.73			
15	256QAM	36	0	18.83	18.68	18.81	19.3	5	
15	256QAM	36	20	18.68	18.75	18.67			
15	256QAM	36	39	18.57	18.64	18.57			
15	256QAM	75	0	18.43	18.62	18.51			
Channel				133202	133297	133402			
Frequency (MHz)				668	660.5	663	Tune-up limit (dBm)		MPR (dB)
10	QPSK	1	0	23.67	23.69	23.67	24.3	0	
10	QPSK	1	25	23.68	23.68	23.66			
10	QPSK	1	49	23.43	23.69	23.45			
10	QPSK	25	0	22.78	22.91	22.79			
10	QPSK	25	12	22.72	22.75	22.69	23.3	1	
10	QPSK	25	25	22.62	22.67	22.55			
10	QPSK	50	0	22.65	22.79	22.68			
10	16QAM	1	0	22.70	22.75	22.68			
10	16QAM	1	25	22.83	23.00	22.84	23.3	1	
10	16QAM	1	49	22.78	22.79	22.76			
10	16QAM	25	0	21.72	21.85	21.80			
10	16QAM	25	12	21.89	21.77	21.76			
10	16QAM	25	25	21.63	21.72	21.61	22.3	2	
10	16QAM	50	0	21.69	21.75	21.63			
10	64QAM	1	0	22.02	22.14	22.13			
10	64QAM	1	25	21.75	21.81	21.75			
10	64QAM	1	49	21.69	21.69	21.67	22.3	2	
10	64QAM	25	0	20.98	20.71	20.89			
10	64QAM	25	12	20.74	20.79	20.65			
10	64QAM	25	25	20.50	20.66	20.56			
10	64QAM	50	0	20.52	20.70	20.59	21.3	3	
10	256QAM	1	0	18.78	18.75	18.63			
10	256QAM	1	25	18.64	18.78	18.73			
10	256QAM	1	49	18.54	18.70	18.70			
10	256QAM	25	0	18.58	18.69	18.65	19.3	5	
10	256QAM	25	12	18.64	18.75	18.67			
10	256QAM	25	25	18.60	18.74	18.59			
10	256QAM	50	0	18.47	18.61	18.51			
Channel				133147	133297	133447			
Frequency (MHz)				665.5	680.5	695.5	Tune-up limit (dBm)		MPR (dB)
5	QPSK	1	0	23.77	23.79	23.69	24.3	0	
5	QPSK	1	12	23.71	23.67	23.65			
5	QPSK	1	24	23.50	23.58	23.51			
5	QPSK	12	0	22.78	22.85	22.75			
5	QPSK	12	7	22.06	22.79	22.65	23.3	1	
5	QPSK	12	13	22.61	22.65	22.57			
5	QPSK	26	0	22.64	22.71	22.71			
5	16QAM	1	0	22.70	22.78	22.73			
5	16QAM	1	12	22.89	22.94	22.86	23.3	1	
5	16QAM	1	24	22.84	22.88	22.83			
5	16QAM	12	0	21.68	21.85	21.81			
5	16QAM	12	7	21.70	21.77	21.69			
5	16QAM	12	13	21.58	21.67	21.66	22.3	2	
5	16QAM	25	0	21.64	21.72	21.67			
5	64QAM	1	0	22.05	22.10	22.09			
5	64QAM	1	19	21.67	21.82	21.68			
5	64QAM	1	24	21.68	21.68	21.66	22.3	2	
5	64QAM	12	0	20.72	20.81	20.77			
5	64QAM	12	7	20.77	20.73	20.69			
5	64QAM	12	13	20.61	20.61	20.60			
5	64QAM	25	0	20.53	20.70	20.56	21.3	3	
5	256QAM	1	0	18.73	18.72	18.62			
5	256QAM	1	12	18.66	18.84	18.72			
5	256QAM	1	24	18.63	18.73	18.75			
5	256QAM	12	0	18.65	18.71	18.63	19.3	5	
5	256QAM	12	7	18.63	18.73	18.58			
5	256QAM	12	13	18.56	18.67	18.60			
5	256QAM	25	0	18.48	18.66	18.48			

Band 71_Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133297	133372		
Frequency (MHz)				673	680.5	688		
20	QPSK	1	0	23.82	23.84	23.74	24.8	0
20	QPSK	1	49	23.80	23.54	23.71		
20	QPSK	1	99	23.78	23.83	23.61		
20	QPSK	50	0	23.11	23.14	23.07		
20	QPSK	50	24	23.08	23.11	23.03	23.8	1
20	QPSK	50	50	22.92	23.00	22.85		
20	QPSK	100	0	23.03	23.11	23.04		
20	16QAM	1	0	23.21	23.29	23.27		
20	16QAM	1	49	23.13	23.14	23.06	23.8	1
20	16QAM	1	99	23.16	23.20	23.19		
20	16QAM	50	0	22.10	22.20	22.17		
20	16QAM	50	24	22.01	22.13	22.11		
20	16QAM	50	50	22.01	22.03	21.96	22.8	2
20	16QAM	100	0	22.03	22.04	21.96		
20	64QAM	1	0	22.28	22.27	22.18		
20	64QAM	1	49	22.22	22.26	22.19		
20	64QAM	1	99	22.07	22.12	22.08	21.8	3
20	64QAM	50	0	21.08	21.16	21.06		
20	64QAM	50	24	21.08	21.14	21.06		
20	64QAM	50	50	20.90	20.96	20.90		
20	256QAM	1	0	18.82	18.85	18.86	19.8	5
20	256QAM	1	18.80	18.83	18.85	18.85		
20	256QAM	1	99	18.86	18.88	18.77		
20	256QAM	50	0	18.79	18.84	18.80		
20	256QAM	50	24	18.80	18.86	18.84	19.8	5
20	256QAM	50	50	18.82	18.86	18.84		
20	256QAM	100	0	18.83	18.87	18.70		
Channel				133107	133177	133247		
Frequency (MHz)				670.5	680.5	690.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	23.73	23.62	23.64	24.8	0
15	QPSK	1	37	23.75	23.62	23.68		
15	QPSK	1	74	23.74	23.62	23.58		
15	QPSK	36	0	22.97	23.11	22.93		
15	QPSK	36	20	23.09	23.08	23.04	23.8	1
15	QPSK	36	39	22.81	22.90	22.84		
15	QPSK	75	0	23.02	23.06	22.98		
15	16QAM	1	0	23.13	23.14	23.10		
15	16QAM	1	37	23.08	23.11	23.03	23.8	1
15	16QAM	1	74	23.04	23.18	23.15		
15	16QAM	36	0	22.08	22.13	22.15		
15	16QAM	36	20	21.90	22.07	21.99		
15	16QAM	36	59	21.83	21.95	21.92	22.8	2
15	16QAM	75	0	21.84	21.93	21.84		
15	64QAM	1	0	22.15	22.18	22.09		
15	64QAM	1	37	22.11	22.23	22.11		
15	64QAM	1	74	22.07	22.20	22.05	22.8	2
15	64QAM	36	0	21.03	21.12	21.01		
15	64QAM	36	20	21.00	21.02	21.00		
15	64QAM	36	59	20.82	20.85	20.82		
15	64QAM	75	0	20.96	21.06	20.94	21.8	3
15	256QAM	1	0	18.77	18.87	18.78		
15	256QAM	37	0	18.72	18.79	18.80		
15	256QAM	1	74	18.77	18.78	18.69		
15	256QAM	36	0	18.74	18.78	18.73	19.8	5
15	256QAM	36	20	18.79	18.92	18.92		
15	256QAM	36	39	18.76	18.82	18.72		
15	256QAM	75	0	18.81	18.85	18.66		
Channel				133112	133172	133232	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				666	680.5	693		
10	QPSK	1	0	23.81	24.02	23.58	24.8	0
10	QPSK	1	23	23.75	23.84	23.65		
10	QPSK	1	49	23.66	23.72	23.60		
10	QPSK	25	0	23.06	23.16	23.02		
10	QPSK	25	12	23.01	23.06	23.05	23.8	1
10	QPSK	25	25	22.82	22.86	22.82		
10	QPSK	50	0	22.08	22.09	22.09		
10	16QAM	1	0	23.14	23.27	23.19		
10	16QAM	1	25	23.10	23.10	22.97	23.8	1
10	16QAM	1	49	23.10	23.10	23.13		
10	16QAM	25	0	22.00	22.14	22.07		
10	16QAM	25	12	21.94	22.03	22.05		
10	16QAM	25	25	21.80	22.01	21.88	22.8	2
10	16QAM	50	0	21.93	21.95	21.86		
10	64QAM	1	0	22.15	22.26	22.11		
10	64QAM	1	25	22.13	22.20	22.09		
10	64QAM	1	49	22.03	22.07	22.01	21.8	3
10	64QAM	25	0	21.01	21.07	20.96		
10	64QAM	25	12	20.98	21.00	20.95		
10	64QAM	25	25	20.82	20.84	20.80		
10	256QAM	1	0	20.90	21.03	20.92	19.8	5
10	256QAM	1	18.75	18.84	18.83			
10	256QAM	1	25	18.75	18.87	18.75		
10	256QAM	1	49	18.82	18.84	18.69		
10	256QAM	25	0	18.69	18.73	18.75	19.8	5
10	256QAM	25	12	18.83	18.85	18.85		
10	256QAM	25	25	18.75	18.78	18.73		
10	256QAM	50	0	18.74	18.75	18.69		
Channel				133147	133297	133447	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	0	23.73	23.62	23.67	24.8	0
5	QPSK	1	12	23.71	23.91	23.67		
5	QPSK	1	24	23.74	23.79	23.57		
5	QPSK	12	0	22.88	23.12	22.98		
5	QPSK	12	7	23.04	23.04	22.84	23.8	1
5	QPSK	12	13	22.86	22.82	22.87		
5	QPSK	26	0	22.08	23.09	22.92		
5	16QAM	1	0	23.11	23.18	23.20		
5	16QAM	1	12	23.03	23.13	23.07	23.8	1
5	16QAM	24	0	23.09	23.09	23.07		
5	16QAM	12	0	22.07	22.17	22.06		
5	16QAM	12	7	21.92	22.07	22.07		
5	16QAM	12	13	21.07	21.86	21.50	22.8	2
5	16QAM	25	0	21.91	22.01	21.91		
5	64QAM	1	0	22.17	22.23	22.13		
5	64QAM	1	12	22.14	22.14	22.10		
5	64QAM	1	24	21.99	22.04	22.00	21.8	3
5	64QAM	12	0	20.99	21.15	20.95		
5	64QAM	12	12	20.99	21.13	20.94		
5	64QAM	12	13	20.88	20.92	20.84		
5	64QAM	25	0	20.93	21.05	20.97	19.8	5
5	256QAM	1	0	18.73	18.83	18.76		
5	256QAM	1	12	18.77	18.82	18.74		
5	256QAM	1	24	18.77	18.78	18.68		
5	256QAM	12	0	18.73	18.86	18.86	19.8	5
5	256QAM	12	13	18.75	18.86	18.80		
5	256QAM	12	15	18.73	18.81	18.76		
5	256QAM	25	0	18.77	18.78	18.70		

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)				2230	2255	2210		
20	QPSK	1	0	22.8	22.85	22.75	23.4	0
20	QPSK	1	49	22.75	22.69	22.7		
20	QPSK	1	99	22.77	22.65	22.84		
20	QPSK	50	0	21.89	21.81	21.81	22.4	1
20	QPSK	50	24	21.84	21.78	21.72		
20	QPSK	50	50	21.79	21.82	21.79		
20	QPSK	100	0	21.81	21.89	21.73	22.4	1
20	16QAM	1	0	22.12	21.8	21.89		
20	16QAM	1	49	22.25	22.35	22.26		
20	16QAM	1	99	21.99	21.89	21.97	21.4	2
20	16QAM	50	0	20.9	20.74	20.68		
20	16QAM	50	24	20.93	20.78	20.73		
20	16QAM	50	50	20.88	20.85	20.8	21.4	2
20	16QAM	100	0	20.9	20.78	20.7		
20	64QAM	1	0	20.97	20.78	20.87		
20	64QAM	1	49	20.91	20.94	20.84	21.4	2
20	64QAM	1	99	20.91	20.91	20.79		
20	64QAM	50	0	19.78	19.72	19.69		
20	64QAM	50	24	19.89	19.78	19.78	20.4	3
20	64QAM	50	50	19.89	19.85	19.8		
20	64QAM	100	0	19.92	19.75	19.71		
20	256QAM	1	0	17.43	17.45	17.43	18.4	5
20	256QAM	1	49	17.45	17.49	17.47		
20	256QAM	99	1	17.36	17.42	17.40		
20	256QAM	50	0	17.35	17.42	17.28	18.4	5
20	256QAM	50	24	17.42	17.48	17.34		
20	256QAM	50	50	17.43	17.59	17.49		
20	256QAM	100	0	17.35	17.43	17.27		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2217.5	2235	2212.5		
15	QPSK	1	0	22.65	22.69	22.54	23.4	0
15	QPSK	1	37	22.72	22.58	22.59		
15	QPSK	1	74	22.66	22.58	22.56		
15	QPSK	36	0	21.70	21.68	21.61	22.4	1
15	QPSK	36	20	21.80	21.72	21.66		
15	QPSK	36	39	21.81	21.72	21.77		
15	QPSK	75	0	21.88	21.65	21.68	22.4	1
15	16QAM	1	0	22.20	21.87	21.86		
15	16QAM	1	37	22.22	22.28	22.19		
15	16QAM	1	74	21.98	21.78	21.91	21.4	2
15	16QAM	36	0	20.70	20.72	20.65		
15	16QAM	36	20	20.89	20.71	20.64		
15	16QAM	36	39	20.81	20.78	20.71	21.4	2
15	16QAM	75	0	20.80	20.64	20.64		
15	64QAM	1	0	20.93	20.70	20.82		
15	64QAM	1	37	20.84	20.83	20.79	21.4	2
15	64QAM	1	74	20.88	20.88	20.75		
15	64QAM	36	0	19.89	19.86	19.82		
15	64QAM	36	20	19.81	19.67	19.73	20.4	3
15	64QAM	36	39	19.84	19.84	19.70		
15	64QAM	75	0	19.88	19.75	19.63		
15	256QAM	1	0	17.42	17.41	17.38	18.4	5
15	256QAM	1	37	17.41	17.38	17.44		
15	256QAM	1	74	17.29	17.47	17.31		
15	256QAM	36	0	17.27	17.38	17.24	18.4	5
15	256QAM	36	20	17.34	17.40	17.27		
15	256QAM	36	39	17.34	17.43	17.41		
15	256QAM	75	0	17.24	17.40	17.23		
Channel				37900	38000	38100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2275	2295	2265		
10	QPSK	1	0	22.69	22.69	22.56	23.4	0
10	QPSK	1	25	22.75	22.65	22.58		
10	QPSK	1	49	22.68	22.61	22.57		
10	QPSK	25	0	21.79	21.72	21.54	22.4	1
10	QPSK	25	12	21.87	21.74	21.71		
10	QPSK	25	25	21.88	21.71	21.73		
10	QPSK	50	0	21.79	21.61	21.60	22.4	1
10	16QAM	1	0	22.07	21.89	21.79		
10	16QAM	1	25	22.22	22.28	22.16		
10	16QAM	1	49	21.93	21.80	21.82	21.4	2
10	16QAM	25	0	20.78	20.71	20.61		
10	16QAM	25	12	20.87	20.77	20.62		
10	16QAM	25	25	20.77	20.79	20.69	21.4	2
10	16QAM	50	0	20.63	20.71	20.61		
10	64QAM	1	0	20.89	20.71	20.80		
10	64QAM	1	25	20.86	20.89	20.61	21.4	2
10	64QAM	1	49	20.79	20.90	20.70		
10	64QAM	25	0	19.71	19.69	19.57		
10	64QAM	25	12	19.84	19.75	19.69	20.4	3
10	64QAM	25	25	19.82	19.82	19.74		
10	64QAM	50	0	19.85	19.67	19.70		
10	256QAM	1	0	17.37	17.39	17.41	18.4	5
10	256QAM	1	25	17.43	17.42	17.40		
10	256QAM	1	49	17.24	17.45	17.38		
10	256QAM	25	0	17.34	17.32	17.27	18.4	5
10	256QAM	25	12	17.31	17.39	17.33		
10	256QAM	25	25	17.31	17.43	17.40		
10	256QAM	50	0	17.34	17.40	17.20		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2272.5	2295	2317.5		
5	QPSK	1	0	22.67	22.67	22.51	23.4	0
5	QPSK	1	12	22.69	22.66	22.60		
5	QPSK	1	24	22.71	22.57	22.81		
5	QPSK	12	0	21.71	21.70	21.63	22.4	1
5	QPSK	12	7	21.80	21.72	21.71		
5	QPSK	12	13	21.63	21.79	21.67		
5	QPSK	25	0	21.81	21.63	21.67	22.4	1
5	16QAM	1	0	22.02	21.89	21.88		
5	16QAM	1	12	22.24	22.21	21.96		
5	16QAM	1	24	21.89	21.81	21.92	21.4	2
5	16QAM	12	0	20.77	20.63	20.61		
5	16QAM	12	7	20.92	20.89	20.68		
5	16QAM	12	13	20.78	20.77	20.70	21.4	2
5	16QAM	25	0	20.84	20.79	20.66		
5	64QAM	1	0	20.92	20.87	20.84		
5	64QAM	1	12	20.82	20.81	20.82	21.4	2
5	64QAM	1	24	20.83	20.82	20.69		
5	64QAM	12	0	19.76	19.61	19.62		
5	64QAM	12	7	19.79	19.74	19.73	20.4	3
5	64QAM	12	13	19.80	19.81	19.73		
5	64QAM	25	0	19.62	19.64	19.66		
5	256QAM	1	0	17.34	17.38	17.42	18.4	5
5	256QAM	1	12	17.30	17.37	17.40		
5	256QAM	1	24	17.35	17.40	17.29		
5	256QAM	12	0	17.34	17.32	17.16	18.4	5
5	256QAM	12	7	17.33	17.44	17.28		
5	256QAM	12	13	17.39	17.40	17.45		
5	256QAM	25	0	17.33	17.33	17.19		

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)				23.20	23.25	23.10		
20	QPSK	1	0	24.16	24.20	24.11	24.8	0
20	QPSK	1	49	24.15	24.12	24.09		
20	QPSK	1	99	23.97	24.03	23.99		
20	QPSK	50	0	23.18	23.25	23.19	23.8	1
20	QPSK	50	24	23.16	23.17	23.15		
20	QPSK	50	50	23.10	23.11	23.08		
20	QPSK	100	0	23.16	23.18	23.04	23.8	1
20	16QAM	1	0	23.17	23.22	23.16		
20	16QAM	1	49	22.80	22.88	22.86		
20	16QAM	1	99	23.13	23.29	23.17	22.8	2
20	16QAM	50	0	22.16	22.15	22.07		
20	16QAM	50	24	22.27	22.08	22.06		
20	16QAM	50	50	22.26	22.20	22.22	22.8	2
20	16QAM	100	0	22.23	22.20	22.19		
20	16QAM	100	1	22.20	22.17	22.16		
20	64QAM	1	49	22.15	21.74	21.95	22.8	2
20	64QAM	1	99	21.85	21.79	21.80		
20	64QAM	50	0	21.19	21.06	21.07	21.8	3
20	64QAM	50	50	21.28	21.05	21.17		
20	64QAM	100	0	21.26	21.05	21.04		
20	25QAM	1	0	18.85	18.90	18.86	19.8	5
20	25QAM	1	49	18.78	18.94	18.75		
20	25QAM	1	99	18.79	18.89	18.87		
20	25QAM	50	0	18.94	18.96	18.92	19.8	5
20	25QAM	50	24	18.84	18.91	18.74		
20	25QAM	50	50	19.01	18.88	18.91		
20	25QAM	100	0	18.78	18.95	18.95		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				23.175	23.25	23.125		
15	QPSK	1	0	24.12	24.19	24.04	24.8	0
15	QPSK	1	37	24.09	24.10	24.00		
15	QPSK	1	74	23.81	23.85	23.78		
15	QPSK	36	0	22.99	23.10	22.81	23.8	1
15	QPSK	36	20	23.23	23.04	22.99		
15	QPSK	36	36	23.12	23.01	23.09		
15	QPSK	75	0	23.12	23.11	23.05	23.8	1
15	16QAM	1	0	23.12	23.11	23.05		
15	16QAM	1	37	22.89	22.98	23.07		
15	16QAM	1	74	23.05	23.36	23.07	22.8	2
15	16QAM	36	0	21.97	22.10	21.86		
15	16QAM	36	20	22.08	21.83	21.97		
15	16QAM	36	36	22.14	22.05	22.10	22.8	2
15	16QAM	75	0	22.13	22.14	22.09		
15	16QAM	75	0	22.04	22.08	22.08		
15	64QAM	1	37	22.06	21.81	21.86	22.8	2
15	64QAM	1	74	21.74	21.79	21.69		
15	64QAM	36	0	21.13	20.93	21.03		
15	64QAM	36	20	21.12	21.00	21.10	21.8	3
15	64QAM	36	36	21.09	21.07	20.94		
15	64QAM	75	0	21.22	20.91	21.01		
15	25QAM	1	0	18.84	18.94	18.96	19.8	5
15	25QAM	1	37	18.76	18.76	18.73		
15	25QAM	1	74	18.66	18.75	18.65		
15	25QAM	36	0	18.90	18.82	18.85	19.8	5
15	25QAM	36	20	18.67	18.80	18.57		
15	25QAM	36	36	18.97	18.90	18.62		
15	25QAM	75	0	18.73	18.79	18.90		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				23.15	23.25	23.15		
10	QPSK	1	0	24.08	24.14	23.93	24.8	0
10	QPSK	1	25	23.97	24.02	23.92		
10	QPSK	1	49	23.86	24.03	23.85		
10	QPSK	25	0	22.85	22.94	22.86	23.8	1
10	QPSK	25	12	23.28	23.11	23.17		
10	QPSK	25	25	23.05	23.23	22.98		
10	QPSK	50	0	23.05	23.07	22.88	23.8	1
10	16QAM	1	0	22.68	23.19	22.15		
10	16QAM	1	25	22.79	22.92	22.70		
10	16QAM	1	49	22.94	23.13	23.11	22.8	2
10	16QAM	25	0	22.03	22.03	21.98		
10	16QAM	25	12	22.16	22.00	21.95		
10	16QAM	25	25	22.19	22.20	22.15	21.8	3
10	16QAM	50	0	22.11	22.09	22.07		
10	64QAM	1	0	22.02	21.99	21.98		
10	64QAM	1	25	21.98	21.82	21.78	22.8	2
10	64QAM	1	49	21.68	21.73	21.63		
10	64QAM	25	0	21.13	21.05	21.01		
10	64QAM	25	12	21.07	21.04	21.05	21.8	3
10	64QAM	25	25	21.10	21.06	21.05		
10	64QAM	50	0	21.19	20.89	20.95		
10	25QAM	1	0	18.68	18.96	18.80	19.8	5
10	25QAM	1	25	18.75	18.97	18.79		
10	25QAM	1	49	18.78	18.89	18.77		
10	25QAM	25	0	18.84	18.85	18.78	19.8	5
10	25QAM	25	12	18.81	18.75	18.71		
10	25QAM	25	25	18.85	18.83	18.83		
10	25QAM	50	0	18.74	18.91	18.97		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				23.125	23.25	23.175		
5	QPSK	1	0	24.11	24.11	24.05	24.8	0
5	QPSK	1	12	24.04	24.11	23.90		
5	QPSK	1	24	23.85	23.97	23.92		
5	QPSK	12	0	23.02	23.09	22.91	23.8	1
5	QPSK	12	7	23.19	23.09	23.13		
5	QPSK	12	13	23.13	23.11	23.08		
5	QPSK	25	0	23.03	23.11	22.85	23.8	1
5	16QAM	1	0	23.15	23.11	23.16		
5	16QAM	1	12	22.74	22.97	22.76		
5	16QAM	12	24	22.94	23.11	22.99	22.8	2
5	16QAM	12	0	22.07	22.01	21.98		
5	16QAM	12	7	22.15	21.90	21.94		
5	16QAM	12	13	22.15	22.17	22.17	22.8	2
5	16QAM	25	0	22.06	22.19	22.02		
5	16QAM	25	0	22.20	22.16	22.16		
5	64QAM	1	12	21.03	21.89	21.89	22.8	2
5	64QAM	1	24	21.82	21.73	21.77		
5	64QAM	12	0	21.07	21.94	20.95		
5	64QAM	12	7	21.01	20.97	20.97	21.8	3
5	64QAM	12	13	21.19	21.04	21.04		
5	64QAM	25	0	21.18	20.85	20.94		
5	25QAM	1	0	18.71	18.84	18.82	19.8	5
5	25QAM	1	12	18.70	18.80	18.67		
5	25QAM	1	24	18.68	18.86	18.67		
5	25QAM	12	0	18.75	18.85	18.79	19.8	5
5	25QAM	12	7	18.66	18.82	18.59		
5	25QAM	12	13	18.90	18.80	18.80		
5	25QAM	25	0	18.60	18.87	18.77		

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)				2245	2285	2325	2365	2405			
20	QPSK	1	0	2245	2285	2325	2365	2405	23.4	0	
20	QPSK	1	49	2245	2285	2325	2365	2405			
20	QPSK	1	98	2245	2285	2325	2365	2405			
20	QPSK	50	0	2154	2158	2162	2166	2170			
20	QPSK	50	24	2161	2163	2165	2167	2169			
20	QPSK	50	50	2168	2170	2172	2174	2176	22.4	1	
20	QPSK	100	0	2159	2163	2167	2171	2175			
20	16QAM	1	0	2157	2159	2161	2163	2165			
20	16QAM	1	49	2155	2157	2159	2161	2163			
20	16QAM	1	98	2146	2147	2148	2149	2150			
20	16QAM	50	0	2064	2066	2068	2070	2072	21.4	2	
20	16QAM	50	24	2068	2070	2072	2074	2076			
20	16QAM	50	50	2073	2075	2077	2079	2081			
20	16QAM	100	0	2068	2070	2074	2078	2082			
20	16QAM	100	0	2068	2070	2074	2078	2082			
20	64QAM	1	49	206	206	206	206	206	21.4	2	
20	64QAM	1	98	2042	207	208	208	208			
20	64QAM	50	0	193	193	193	193	193			
20	64QAM	50	24	1989	1979	1955	1954	1938			
20	64QAM	50	50	1971	1975	1981	1982	1942			
20	256QAM	1	0	1770	1751	1769	1768	1773	18.4	5	
20	256QAM	1	49	1759	1742	1772	1756	1743			
20	256QAM	1	98	1755	1770	1758	1759	1755			
20	256QAM	50	0	1761	1754	1761	1753	1752			
20	256QAM	50	24	1740	1727	1754	1744	1755			
20	256QAM	100	0	1739	1732	1742	1734	1734	18.4	5	
20	256QAM	100	0	1734	1742	1745	1725	1737			
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2243.5	2283.5	2323	2363	2403			
15	QPSK	1	0	2243.5	2283	2322	2362	2402	23.40	0	
15	QPSK	1	37	2243.5	2283	2322	2362	2402			
15	QPSK	1	74	2243.5	2283	2322	2362	2402			
15	QPSK	36	0	2144	2152	2151	2130	2128			
15	QPSK	36	20	2151	2145	2153	2141	2120			
15	QPSK	36	39	2151	2145	2153	2141	2120	22.4	1	
15	QPSK	75	0	2160	2148	2160	2143	2129			
15	16QAM	1	0	2139	2154	2141	2144	2125			
15	16QAM	1	37	2152	2131	2120	2155	2120			
15	16QAM	1	74	2135	2156	2160	2128	2133			
15	16QAM	36	0	2046	2051	2036	2045	2045	21.4	2	
15	16QAM	36	20	2058	2068	2044	2048	2029			
15	16QAM	36	39	2054	2060	2054	2041	2040			
15	16QAM	75	0	2045	2052	2040	2038	2038			
15	64QAM	1	0	2041	2034	2048	2013	2020			
15	64QAM	1	37	2042	2054	2038	2042	2018	21.4	2	
15	64QAM	1	74	2035	2048	2040	2054	2020			
15	64QAM	36	0	1954	1961	1948	1933	1929			
15	64QAM	36	20	1954	1960	1940	1947	1919			
15	64QAM	36	39	1957	1967	1947	1945	1940			
15	256QAM	1	0	1761	1739	1760	1759	1773	18.4	5	
15	256QAM	1	49	1743	1728	1747	1753	1763			
15	256QAM	1	98	1746	1765	1749	1756	1754			
15	256QAM	36	0	1747	1739	1747	1734	1737			
15	256QAM	36	20	1725	1725	1739	1737	1737			
15	256QAM	36	39	1724	1715	1723	1713	1718	18.4	5	
15	256QAM	75	0	1718	1737	1729	1716	1725			
Channel				39700	40150	40600	41050	41500	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2241	2281	2321	2361	2401			
10	QPSK	1	0	2241	2281	2321	2361	2401	23.40	0	
10	QPSK	1	25	2252	2254	2248	2243	2223			
10	QPSK	1	49	2239	2257	2244	2244	2230			
10	QPSK	25	0	2145	2162	2160	2131	2114			
10	QPSK	25	12	2159	2162	2139	2153	2122			
10	QPSK	25	25	2153	2144	2149	2149	2134	22.4	1	
10	QPSK	50	0	2164	2157	2164	2139	2120			
10	16QAM	1	0	2152	2162	2143	2139	2120			
10	16QAM	1	25	2160	2138	2133	2155	2127			
10	16QAM	1	49	2146	2156	2157	2144	2145			
10	16QAM	25	0	2059	2064	2048	2041	2022	21.4	2	
10	16QAM	25	12	2059	2062	2045	2059	2021			
10	16QAM	25	25	2053	2068	2055	2047	2037			
10	16QAM	50	0	2053	2059	2040	2043	2022			
10	64QAM	1	0	2035	2042	2042	2013	2021			
10	64QAM	1	25	2049	2052	2045	2037	2028	20.4	3	
10	64QAM	1	49	2041	2054	2050	2049	2012			
10	64QAM	25	0	1954	1955	1948	1929	1930			
10	64QAM	25	12	1950	1965	1936	1945	1920			
10	64QAM	25	25	1960	1968	1950	1942	1930			
10	256QAM	1	0	1766	1748	1760	1746	1771	18.4	5	
10	256QAM	1	25	1743	1735	1736	1743	1727			
10	256QAM	1	49	1751	1752	1754	1745	1741			
10	256QAM	25	0	1747	1737	1747	1753	1746			
10	256QAM	25	12	1731	1716	1745	1727	1743			
10	256QAM	25	25	1733	1730	1732	1721	1720	18.4	5	
10	256QAM	50	0	1721	1727	1733	1710	1726			
Channel				39675	40148	40600	41053	41505	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2248.5	2294.5	2343	2390.5	2437.5			
5	QPSK	1	0	2248.5	2294	2342	2387	2434	23.40	0	
5	QPSK	1	12	2237	2248	2237	2230	2222			
5	QPSK	1	24	2235	2255	2260	2232	2243			
5	QPSK	12	0	2151	2149	2169	2128	2128			
5	QPSK	12	7	2166	2149	2149	2147	2125			
5	QPSK	12	13	2145	2139	2145	2141	2138	22.4	1	
5	QPSK	25	0	2155	2156	2162	2148	2132			
5	16QAM	1	0	2153	2152	2140	2144	2122			
5	16QAM	1	12	2157	2132	2127	2158	2136			
5	16QAM	1	24	2128	2168	2162	2146	2133			
5	16QAM	12	0	2048	2063	2038	2046	2028	21.4	2	
5	16QAM	12	7	2055	2070	2041	2053	2026			
5	16QAM	12	13	2054	2074	2054	2049	2038			
5	16QAM	25	0	2061	2059	2048	2046	2018			
5	64QAM	1	0	2040	2050	2047	2026	2020			
5	64QAM	1	12	2059	2053	2054	2038	2025	21.4	2	
5	64QAM	1	24	2035	2060	2059	2058	2017			
5	64QAM	12	0	1949	1949	1941	1937	1930			
5	64QAM	12	13	1960	1969	1952	1939	1936			
5	256QAM	1	0	1764	1746	1763	1750	1760			
5	256QAM	1	12	1755	1731	1748	1755	1740	18.4	5	
5	256QAM	1	24	1736	1755	1738	1751	1742			
5	256QAM	12	0	1745	1750	1745	1745	1745			
5	256QAM	12	7	1728	1726	1740	1743	1754			
5	256QAM	25	0	1733	1742	1744	1721	1724			

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)				2245	2285	2325	2365	2405		
20	QPSK	1	0	2245	2285	2325	2365	2405	24.8	0
20	QPSK	1	49	24.17	24.18	24.17	24.22	24.13		
20	QPSK	1	98	24.17	24.18	24.17	24.22	24.10		
20	QPSK	50	0	23.21	23.23	23.23	23.25	23.20		
20	QPSK	50	24	23.20	23.12	23.19	23.20	23.11	23.8	1
20	QPSK	50	24	23.20	23.12	23.12	23.25	23.14		
20	QPSK	100	0	23.20	23.20	23.20	23.25	23.20		
20	16QAM	1	0	23.15	23.18	23.07	23.09	23.05		
20	16QAM	1	49	23.47	23.31	23.31	23.29	23.29	23.8	1
20	16QAM	1	98	23.22	23.25	23.11	23.19	23.15		
20	16QAM	50	0	22.19	22.21	22.24	22.12	22.08		
20	16QAM	50	24	22.28	22.31	22.22	22.22	22.08		
20	16QAM	50	24	22.28	22.31	22.24	22.22	22.13	22.8	2
20	16QAM	100	0	22.31	22.26	22.24	22.20	22.04		
20	16QAM	1	0	22.11	22.06	22.08	22.08	22.11		
20	16QAM	1	49	22.22	22.13	22.11	22.08	22.17		
20	16QAM	1	99	22.22	22.13	22.18	22.08	22.13	22.8	2
20	16QAM	50	0	21.18	21.18	21.18	21.14	21.03		
20	16QAM	50	24	21.31	21.30	21.16	21.21	21.21		
20	16QAM	50	24	21.28	21.29	21.25	21.20	21.12		
20	16QAM	100	0	21.28	21.27	21.20	21.20	21.07	21.8	3
20	256QAM	1	0	19.04	19.01	19.18	18.99	19.00		
20	256QAM	1	49	19.01	18.98	19.15	18.94	19.13		
20	256QAM	1	98	19.03	18.97	19.05	18.87	19.03		
20	256QAM	50	0	18.84	18.04	19.13	18.88	19.13	19.8	5
20	256QAM	50	24	18.15	16.13	19.11	19.15	19.15		
20	256QAM	50	24	19.02	19.04	19.08	18.98	19.08		
20	256QAM	100	0	18.99	18.04	19.07	19.01	19.10		
Channel				39725	40173	40620	41058	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2245.3	2285.3	2325.3	2365.3	2405.5		
15	QPSK	1	0	24.24	24.08	24.24	24.04	24.17	24.80	0
15	QPSK	1	37	24.09	24.06	24.24	24.08	23.97		
15	QPSK	1	74	24.07	24.07	24.16	24.13	24.13		
15	QPSK	36	0	23.13	23.12	23.19	23.14	23.08		
15	QPSK	36	20	23.10	23.08	23.09	23.03	23.11	23.8	1
15	QPSK	36	20	23.05	23.07	23.07	23.09	23.07		
15	QPSK	39	0	23.08	22.95	23.19	23.17	22.88		
15	QPSK	75	0	23.06	23.06	22.84	23.07	23.05		
15	16QAM	1	0	23.43	23.15	23.14	23.10	23.00	23.8	1
15	16QAM	1	37	23.15	23.15	23.14	23.10	23.00		
15	16QAM	1	74	23.09	23.08	23.18	23.02	23.08		
15	16QAM	36	0	22.18	22.15	22.15	22.04	21.95		
15	16QAM	36	20	22.09	22.21	21.99	22.21	21.98	22.8	2
15	16QAM	36	39	22.13	22.10	22.07	22.10	21.95		
15	16QAM	75	0	22.16	22.07	22.16	22.19	21.98		
15	16QAM	0	0	21.96	22.03	21.93	21.91	22.10		
15	16QAM	1	37	22.11	21.84	22.20	22.01	22.16	22.8	2
15	16QAM	1	74	21.90	21.90	22.05	22.09	21.98		
15	16QAM	36	0	21.09	21.18	21.03	21.03	21.03		
15	16QAM	36	20	21.19	21.19	21.04	21.16	20.90		
15	16QAM	36	21	21.18	21.19	21.08	21.08	21.03	21.8	3
15	16QAM	75	0	21.21	21.13	21.10	21.05	21.05		
15	256QAM	1	0	18.92	18.96	19.01	18.87	18.83		
15	256QAM	1	37	18.95	18.97	18.98	18.77	18.87		
15	256QAM	1	74	19.02	19.01	19.04	18.80	18.83	19.8	5
15	256QAM	36	0	18.72	18.98	19.01	18.95	19.06		
15	256QAM	36	20	19.00	19.06	19.04	19.04	19.11		
15	256QAM	36	39	18.88	18.04	19.19	18.90	19.05		
15	256QAM	75	0	18.85	18.99	18.93	18.84	19.08		
Channel				40000	40100	40100	41000	41000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	24.15	24.20	24.24	24.18	24.17	24.80	0
10	QPSK	1	25	24.17	24.07	24.16	24.17	24.05		
10	QPSK	1	49	23.97	23.95	24.13	24.10	24.06		
10	QPSK	25	0	23.20	23.13	23.19	23.17	23.11		
10	QPSK	25	12	23.12	23.20	23.16	23.02	23.08	23.8	1
10	QPSK	25	25	23.20	23.11	22.99	23.15	22.97		
10	QPSK	50	0	23.17	23.05	23.23	23.01	22.97		
10	16QAM	1	0	23.10	23.07	22.93	22.93	22.93		
10	16QAM	1	25	23.41	23.19	23.05	23.08	23.02	23.8	1
10	16QAM	1	49	23.08	23.09	23.05	23.04	22.96		
10	16QAM	25	11	22.18	22.18	22.09	22.09	21.93		
10	16QAM	25	12	22.19	22.16	22.09	22.04	21.95		
10	16QAM	25	25	22.21	22.18	22.05	22.18	22.04	22.8	2
10	16QAM	1	25	22.19	22.11	22.00	21.98	21.96		
10	16QAM	25	0	21.29	21.08	21.13	21.05	20.95		
10	16QAM	25	12	21.24	21.21	21.08	21.07	21.04		
10	16QAM	25	25	21.26	21.26	21.07	21.04	20.95	21.8	3
10	16QAM	50	0	21.09	21.24	20.98	21.15	21.07		
10	16QAM	1	0	19.56	19.63	19.60	18.83	19.03		
10	16QAM	1	25	18.91	18.82	19.05	18.85	19.05		
10	256QAM	1	49	18.98	18.98	19.00	18.84	18.80	19.8	5
10	256QAM	25	0	18.84	19.00	18.88	18.98	18.98		
10	256QAM	25	12	19.05	19.07	19.02	19.04	19.07		
10	256QAM	25	25	18.73	19.00	19.04	18.83	19.03		
10	256QAM	50	0	19.93	19.01	19.03	18.95	19.05		
Channel				39679	40148	40620	41053	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2268.5	2294.8	2320.3	2349.50	2387.5		
8	QPSK	1	0	24.20	24.24	24.23	24.23	24.23	24.80	0
8	QPSK	1	12	24.38	24.09	24.15	24.21	24.04		
8	QPSK	12	0	23.15	23.12	23.22	23.02	23.18		
8	QPSK	12	7	23.14	23.20	23.09	23.04	22.99		
8	QPSK	12	13	22.98	23.07	23.03	23.07	23.02	23.8	1
8	QPSK	24	0	23.18	23.10	23.16	23.16	22.88		
8	16QAM	1	0	22.99	23.12	22.91	23.02	23.00		
8	16QAM	1	12	23.38	23.14	22.82	23.22	22.93		
8	16QAM	1	24	23.17	24.14	23.17	23.19	23.02	23.8	1
8	16QAM	12	0	22.00	22.16	21.92	22.12	21.93		
8	16QAM	12	7	22.17	22.14	22.07	22.14	21.96		
8	16QAM	12	13	22.15	22.12	22.07	22.06	21.96		
8	16QAM	25	0	21.92	21.99	21.89	21.20	21.92	22.8	2
8	16QAM	1	0	22.28	22.29	22.11	21.88	22.04		
8	16QAM	1	24	22.04	22.02	21.94	22.00	21.98		
8	16QAM	1	24	21.98	22.01	22.02	22.12	22.08		
8	16QAM	12	0	21.08	21.12	21.12	21.05	20.96	21.8	3
8	16QAM	12	13	21.27	21.10	21.17	21.12	21.04		
8	16QAM	25	0	21.20	21.10	21.17	21.08	20.92		
8	256QAM	1	0	18.93	18.94	19.07	18.88	18.81		
8	256QAM	1	12	18.91	18.91	18.98	18.90	18.99	19.8	5
8	256QAM	1	24	18.91	18.85	18.86	18.86	18.95		
8	256QAM	12	0	18.73	18.85	18.85	18.85	18.95		
8	256QAM	12	7	19.08	19.09	19.04	18.98	19.03		
8	256QAM	12	13	18.67	18.67	18.65	18.65	18.65	19.8	5
8	256QAM	25	0	19.03	19.00	19.01	18.91	19.08		



Band 41_Ant 6

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											
Frequency (MHz)											
20	QPSK	1	0	39750	40185	40620	41055	41490	17.2	0	
20	QPSK	1	49	16.56	16.58	16.57	16.50	16.52			
20	QPSK	1	99	16.50	16.55	16.57	16.42	16.48			
20	QPSK	50	0	16.36	16.52	16.47	16.51	16.51			
20	QPSK	50	24	16.51	16.51	16.48	16.49	16.45	17.2	0	
20	QPSK	50	100	16.45	16.47	16.56	16.49	16.45			
20	QPSK	100	0	16.35	16.30	16.50	16.48	16.41			
20	16QAM	1	0	16.49	16.55	16.53	16.59	16.45			
20	16QAM	1	49	16.31	16.38	16.42	16.42	16.29	17.2	0	
20	16QAM	1	89	16.40	16.31	16.40	16.40	16.31			
20	16QAM	50	0	16.53	16.48	16.41	16.52	16.52			
20	16QAM	50	24	16.43	16.45	16.53	16.52	16.50			
20	16QAM	50	100	16.41	16.42	16.43	16.47	16.42	17.2	0	
20	16QAM	100	0	16.48	16.40	16.53	16.33	16.44			
20	64QAM	1	0	16.29	16.33	16.44	16.43	16.44			
20	64QAM	1	49	16.47	16.49	16.46	16.46	16.43			
20	64QAM	50	0	16.42	16.47	16.45	16.40	16.39	17.2	0	
20	64QAM	50	0	16.55	16.56	16.46	16.55	16.58			
20	64QAM	50	24	16.50	16.56	16.54	16.56	16.57			
20	64QAM	50	100	16.34	16.32	16.30	16.33	16.42			
20	64QAM	100	0	16.31	16.37	16.48	16.29	16.43	17.2	0	
20	256QAM	1	0	16.37	16.52	16.38	16.43	16.44			
20	256QAM	1	49	16.51	16.51	16.31	16.54	16.54			
20	256QAM	50	0	16.44	16.48	16.55	16.41	16.41			
20	256QAM	50	24	16.39	16.40	16.40	16.42	16.44	17.2	0	
20	256QAM	50	100	16.35	16.35	16.31	16.32	16.32			
20	256QAM	100	0	16.37	16.31	16.38	16.28	16.33			
Channel											
Frequency (MHz)											
15	QPSK	1	0	39725	40173	40620	41068	41515	17.20	0	
15	QPSK	1	49	16.54	16.54	16.48	16.52	16.41			
15	QPSK	1	74	16.46	16.54	16.42	16.41	16.46			
15	QPSK	36	0	16.48	16.53	16.42	16.52	16.54			
15	QPSK	36	0	16.40	16.42	16.53	16.52	16.43	17.2	0	
15	QPSK	36	39	16.42	16.41	16.43	16.49	16.39			
15	QPSK	75	0	16.45	16.51	16.50	16.45	16.52			
15	16QAM	1	0	16.50	16.41	16.42	16.41	16.41			
15	16QAM	1	37	16.44	16.39	16.48	16.45	16.42	17.2	0	
15	16QAM	1	74	16.41	16.46	16.44	16.44	16.44			
15	16QAM	36	0	16.42	16.44	16.46	16.54	16.39			
15	16QAM	36	39	16.46	16.47	16.51	16.45	16.45			
15	16QAM	36	75	16.44	16.53	16.51	16.45	16.39	17.2	0	
15	16QAM	75	0	16.45	16.54	16.48	16.48	16.39			
15	64QAM	1	0	16.48	16.49	16.44	16.45	16.45			
15	64QAM	1	37	16.42	16.53	16.47	16.54	16.43			
15	64QAM	36	0	16.44	16.46	16.52	16.45	16.45	17.2	0	
15	64QAM	36	0	16.51	16.51	16.40	16.49	16.44			
15	64QAM	36	20	16.48	16.44	16.44	16.51	16.50			
15	64QAM	36	75	16.48	16.46	16.50	16.40	16.40			
15	64QAM	75	0	16.48	16.53	16.39	16.52	16.54	17.2	0	
15	256QAM	1	0	16.44	16.39	16.48	16.43	16.43			
15	256QAM	1	49	16.50	16.46	16.45	16.40	16.41			
15	256QAM	1	74	16.49	16.52	16.46	16.49	16.40			
15	256QAM	36	0	16.53	16.43	16.54	16.50	16.50	17.2	0	
15	256QAM	36	39	16.41	16.41	16.39	16.41	16.53			
15	256QAM	36	75	16.54	16.48	16.42	16.54	16.51			
15	256QAM	75	0	16.39	16.47	16.50	16.48	16.50			
Channel											
Frequency (MHz)											
10	QPSK	1	0	2501	2547	2593	2639	2685	17.20	0	
10	QPSK	1	0	16.40	16.49	16.47	16.52	16.46			
10	QPSK	1	49	16.40	16.43	16.40	16.41	16.41			
10	QPSK	1	49	16.49	16.41	16.51	16.54	16.53			
10	QPSK	25	0	16.53	16.50	16.40	16.54	16.46	17.2	0	
10	QPSK	25	12	16.50	16.48	16.40	16.54	16.52			
10	QPSK	25	25	16.49	16.46	16.54	16.47	16.50			
10	QPSK	50	0	16.48	16.50	16.47	16.50	16.42			
10	16QAM	1	0	16.41	16.48	16.47	16.46	16.42	17.2	0	
10	16QAM	1	25	16.45	16.39	16.42	16.41	16.39			
10	16QAM	1	49	16.46	16.40	16.54	16.41	16.51			
10	16QAM	25	0	16.48	16.52	16.50	16.54	16.43			
10	16QAM	25	12	16.40	16.49	16.53	16.51	16.51	17.2	0	
10	16QAM	25	25	16.52	16.46	16.48	16.46	16.39			
10	16QAM	50	0	16.50	16.53	16.48	16.48	16.54			
10	16QAM	50	10	16.54	16.48	16.40	16.43	16.54			
10	64QAM	1	0	16.54	16.48	16.40	16.43	16.54	17.2	0	
10	64QAM	1	25	16.42	16.40	16.44	16.49	16.51			
10	64QAM	1	49	16.46	16.45	16.51	16.39	16.49			
10	64QAM	25	0	16.52	16.40	16.40	16.45	16.39			
10	64QAM	25	12	16.47	16.39	16.49	16.39	16.46	17.2	0	
10	64QAM	25	25	16.54	16.39	16.53	16.42	16.46			
10	64QAM	50	0	16.43	16.50	16.53	16.43	16.43			
10	256QAM	1	0	16.46	16.52	16.49	16.43	16.43			
10	256QAM	1	25	16.51	16.42	16.45	16.44	16.51	17.2	0	
10	256QAM	1	49	16.45	16.53	16.43	16.47	16.39			
10	256QAM	25	0	16.45	16.45	16.53	16.48	16.48			
10	256QAM	25	12	16.40	16.44	16.43	16.43	16.44			
10	256QAM	25	25	16.42	16.48	16.39	16.45	16.53	Turn-up limit (dBm)	MPR (dB)	
10	256QAM	50	0	16.44	16.46	16.46	16.43	16.48			
Channel											
Frequency (MHz)											
5	QPSK	1	0	2488.5	2543.5	2593	2640.50	2687.5	17.20	0	
5	QPSK	1	12	16.49	16.40	16.54	16.46	16.44			
5	QPSK	1	24	16.54	16.51	16.49	16.45	16.50			
5	QPSK	12	0	16.40	16.54	16.48	16.48	16.53			
5	QPSK	12	7	16.42	16.50	16.54	16.47	16.47	17.2	0	
5	QPSK	12	13	16.47	16.48	16.42	16.53	16.53			
5	QPSK	25	0	16.54	16.40	16.49	16.44	16.51			
5	16QAM	1	0	16.48	16.47	16.50	16.43	16.43			
5	16QAM	1	12	16.43	16.46	16.52	16.43	16.42	17.2	0	
5	16QAM	12	0	16.39	16.51	16.40	16.41	16.49			
5	16QAM	12	0	16.48	16.46	16.50	16.40	16.50			
5	16QAM	12	7	16.48	16.41	16.54	16.46	16.49			
5	16QAM	12	13	16.44	16.54	16.41	16.48	16.39	17.2	0	
5	16QAM	25	0	16.50	16.42	16.45	16.52	16.44			
5	64QAM	1	0	16.47	16.52	16.44	16.41	16.50			
5	64QAM	1	12	16.53	16.50	16.44	16.40	16.40			
5	64QAM	1	24	16.42	16.54	16.54	16.54	16.45	17.2	0	
5	64QAM	12	0	16.39	16.45	16.46	16.48	16.44			
5	64QAM	12	7	16.47	16.48	16.46	16.42	16.50			
5	64QAM	12	13	16.41	16.53	16.42	16.40	16.53			
5	64QAM	25	0	16.54	16.46	16.50	16.54	16.49	17.2	0	
5	64QAM	25	0	16.41	16.40	16.44	16.50	16.41			
5	256QAM	1	12	16.45	16.41	16.40					



Band 41_Ant 5 (HPUE)

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										
Frequency (MHz)				39750	40185	40620	41055	41490		
20	QPSK	1	0	25.99	25.93	25.93	25.93	25.93	26.8	0
20	QPSK	1	49	25.97	26.00	26.00	26.01	26.01		
20	QPSK	1	99	26.01	26.07	26.05	26.01	26.03		
20	QPSK	50	0	25.19	25.19	25.23	25.16	25.06		
20	QPSK	50	24	25.09	25.13	25.12	25.13	25.02	25.8	1
20	QPSK	50	50	25.12	25.16	25.16	25.16	25.03		
20	QPSK	100	0	24.44	24.44	24.48	24.37	24.18		
20	16QAM	1	0	25.42	25.46	25.26	25.33	25.23		
20	16QAM	1	49	25.34	25.50	25.58	25.30	25.40	25.8	1
20	16QAM	1	99	25.40	25.59	25.42	25.48	25.34		
20	16QAM	50	0	24.17	24.16	24.12	24.09	24.00		
20	16QAM	50	24	24.27	24.27	24.17	24.19	24.04		
20	16QAM	50	50	24.23	24.27	24.24	24.20	24.09	24.8	2
20	16QAM	100	0	23.42	23.44	23.33	23.35	23.20		
20	64QAM	1	0	24.37	24.26	24.29	24.30	24.11		
20	64QAM	1	49	24.39	24.38	24.39	24.32	24.38		
20	64QAM	1	99	24.23	24.30	24.36	24.36	24.24	24.8	2
20	64QAM	50	0	23.16	23.13	23.12	23.07	22.97		
20	64QAM	50	24	23.27	23.29	23.16	23.18	23.05		
20	64QAM	50	50	23.22	23.24	23.25	23.20	23.09		
20	256QAM	1	0	20.96	20.93	21.05	20.95	20.92	21.8	5
20	256QAM	1	49	20.97	20.99	21.05	20.89	21.04		
20	256QAM	1	99	21.01	20.95	21.01	20.93	20.86		
20	256QAM	50	0	20.86	20.95	21.00	20.93	20.98		
20	256QAM	50	24	21.03	21.00	21.06	21.05	21.03	21.8	5
20	256QAM	50	50	20.89	21.07	21.07	21.01	20.99		
20	256QAM	100	0	20.89	20.93	21.02	21.01	20.97		
Channel										
Frequency (MHz)				39725	40173	40602	41068	41516	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	25.99	25.91	25.96	25.82	25.95	26.80	0
15	QPSK	1	37	25.94	25.95	25.97	25.96	25.96		
15	QPSK	1	74	25.98	25.97	26.02	26.00	25.92		
15	QPSK	36	0	24.99	25.15	24.99	25.03	24.82		
15	QPSK	36	20	25.28	25.24	25.04	25.17	24.85	25.8	1
15	QPSK	36	39	25.19	25.10	25.23	25.17	25.00		
15	QPSK	75	0	24.44	24.26	24.24	24.34	24.11		
15	16QAM	1	0	25.35	25.43	25.14	25.26	25.17		
15	16QAM	1	37	25.20	25.35	25.54	25.12	25.28	25.8	1
15	16QAM	1	74	25.22	25.52	25.26	25.37	25.18		
15	16QAM	36	0	24.07	24.07	24.02	24.07	24.07		
15	16QAM	36	20	24.12	24.11	24.02	24.03	23.99		
15	16QAM	36	39	24.08	24.22	24.09	24.18	24.07	24.8	2
15	16QAM	75	0	23.38	23.26	23.29	23.28	23.00		
15	64QAM	1	0	24.27	24.05	24.10	24.14	23.95		
15	64QAM	1	37	24.21	24.31	24.21	24.27	24.29		
15	64QAM	1	74	24.21	24.34	24.15	24.25	24.17	24.8	2
15	64QAM	36	0	22.99	23.07	22.95	22.98	22.78		
15	64QAM	36	20	23.25	23.26	23.14	23.18	22.99		
15	64QAM	75	0	23.17	23.05	23.20	23.02	22.97		
15	256QAM	1	0	20.96	20.94	21.07	20.94	20.87	21.8	5
15	256QAM	1	20	20.94	20.83	21.02	20.88	20.91		
15	256QAM	1	74	20.99	20.81	20.99	20.77	20.74		
15	256QAM	36	0	20.75	20.80	20.89	20.75	20.98		
15	256QAM	36	20	20.95	20.86	20.98	21.03	20.98	21.8	5
15	256QAM	36	39	20.75	21.00	20.88	20.98	20.90		
15	256QAM	75	0	20.75	20.85	20.88	20.83	20.95		
Channel										
Frequency (MHz)				40000	40435	40860	41300	41740	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	25.91	25.87	25.93	25.89	25.85	26.80	0
10	QPSK	1	0	25.82	25.88	25.94	25.92	25.89		
10	QPSK	1	49	25.87	25.86	25.92	25.92	25.92		
10	QPSK	25	0	25.09	25.02	25.10	24.87	24.99		
10	QPSK	25	0	25.07	25.04	25.07	25.11	24.88	25.8	1
10	QPSK	25	25	25.04	25.09	25.13	25.10	25.02		
10	QPSK	50	0	24.41	24.36	24.30	24.34	24.02		
10	16QAM	1	0	25.38	25.38	25.11	25.31	25.07		
10	16QAM	1	25	25.21	25.41	25.53	25.22	25.21	25.8	1
10	16QAM	1	49	25.29	25.50	25.30	25.39	25.28		
10	16QAM	25	0	24.04	24.00	23.99	24.05	23.89		
10	16QAM	25	12	24.09	24.21	23.99	24.13	23.96		
10	16QAM	25	25	24.04	24.13	24.05	24.15	23.90	24.8	2
10	16QAM	50	0	23.40	23.37	23.31	23.18	23.05		
10	64QAM	1	0	24.23	24.18	24.15	24.18	23.97		
10	64QAM	1	25	24.20	24.23	24.20	24.19	24.19		
10	64QAM	1	49	24.17	24.18	24.30	24.33	24.11	23.8	3
10	64QAM	25	0	23.07	22.94	23.03	22.92	22.87		
10	64QAM	25	12	23.15	23.26	23.04	23.02	22.89		
10	64QAM	25	25	23.14	23.21	23.17	23.11	22.97		
10	64QAM	50	0	23.25	23.22	23.09	23.04	22.85	21.8	5
10	256QAM	1	0	20.88	20.95	20.99	20.92	20.85		
10	256QAM	1	25	20.95	20.95	21.03	20.91	21.01		
10	256QAM	1	49	20.91	20.94	20.91	20.86	20.70		
10	256QAM	25	0	20.86	20.83	21.00	20.76	20.98	21.8	5
10	256QAM	25	12	20.95	20.82	20.98	20.96	20.95		
10	256QAM	25	25	20.75	20.89	20.94	20.83	20.99		
10	256QAM	50	0	20.80	20.81	20.93	20.85	20.89		
Channel										
Frequency (MHz)				39675	40148	40520	41063	41565	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	26.03	26.05	26.10	26.05	26.05	26.80	0
5	QPSK	1	12	25.96	26.00	25.99	25.92	25.89		
5	QPSK	1	24	25.90	25.96	25.96	25.90	25.88		
5	QPSK	12	0	25.12	25.04	24.94	24.94	24.91		
5	QPSK	12	7	25.13	25.21	24.94	25.01	24.93	25.8	1
5	QPSK	12	13	25.15	25.06	25.23	25.08	25.07		
5	QPSK	25	0	24.27	24.39	24.20	24.24	24.08		
5	16QAM	1	0	25.25	25.41	25.20	25.22	25.15		
5	16QAM	1	12	25.23	25.43	25.55	25.17	25.31	25.8	1
5	16QAM	1	24	25.23	25.60	25.28	25.41	25.25		
5	16QAM	12	0	24.12	24.11	24.07	24.00	23.88		
5	16QAM	12	7	24.12	24.20	24.02	24.05	23.89		
5	16QAM	12	13	24.06	24.14	24.07	24.18	23.92	24.8	2
5	16QAM	25	0	23.24	23.33	23.15	23.20	23.19		
5	64QAM	1	0	24.24	24.15	24.16	24.22	24.02		
5	64QAM	1	24	24.33	24.30	24.33	24.19	24.21		
5	64QAM	12	0	23.90	23.12	22.96	22.98	22.87	23.8	3
5	64QAM	12	7	23.22	23.22	23.11	23.01	23.03		
5	64QAM	12	13	23.08	23.23	23.11	23.12	22.96		
5	64QAM	25	0	23.20	23.12	23.04	23.14	22.90		
5	256QAM	1	0	20.85	20.83	20.96	20.81	20.83	21.8	5
5	256QAM	1	12	20.89	20.86	20.97	20.82	20.87		
5	256QAM	1	24	20.94	20.87	20.90	20.86	20.74		
5	256QAM	12	0	20.81	20.84	20.95	20.86	20.85		
5	256QAM	12	7	20.87	20.92	20.90	20.98	21.00	21.8	5
5	256QAM	12	13	20.82	21.07	21.07	21.01	20.90		
5	256QAM	25	0	20.84	20.92	20.97	20.84	20.92		

Band 48_Ant 6

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Low Middle Ch / Freq.	Power High Middle Ch / Freq.	Power High Ch / Freq.	Turn-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)				55340	55830	56150	56640		
15	QPSK	1	0	16.19	16.13	16.13	16.02	16.8	0
20	QPSK	1	49	16.21	16.10	16.15	16.06	16.8	0
20	QPSK	1	99	16.14	16.01	16.11	16.10	16.8	0
20	QPSK	50	0	15.99	16.04	16.06	16.02	16.8	0
20	QPSK	50	24	16.01	16.02	16.08	16.06	16.8	0
20	QPSK	50	50	15.95	16.07	16.01	16.01	16.8	0
20	QPSK	100	0	15.98	16.03	16.01	16.03	16.8	0
20	16QAM	1	0	16.00	16.13	16.16	16.12	16.8	0
20	16QAM	1	49	16.17	16.13	16.15	16.14	16.8	0
20	16QAM	1	99	16.08	16.03	16.13	16.02	16.8	0
20	16QAM	50	0	15.98	16.08	16.02	16.03	16.8	0
20	16QAM	50	24	16.19	16.15	16.09	16.05	16.8	0
20	16QAM	50	50	16.09	16.03	16.07	16.03	16.8	0
20	16QAM	100	0	16.10	16.13	16.09	16.11	16.8	0
20	64QAM	1	0	16.09	16.12	16.14	16.13	16.8	0
20	64QAM	1	49	16.20	16.05	16.04	16.04	16.8	0
20	64QAM	1	99	16.15	16.10	16.10	16.15	16.8	0
20	64QAM	50	0	16.11	16.05	16.09	16.13	16.8	0
20	64QAM	50	24	16.03	16.01	16.07	16.01	16.8	0
20	64QAM	50	50	16.03	16.01	16.01	16.05	16.8	0
20	64QAM	100	0	16.08	16.15	16.10	16.16	16.8	0
20	256QAM	1	0	14.88	15.00	14.78	14.84	15.8	0
20	256QAM	1	49	16.09	16.13	16.01	16.08	16.8	0
20	256QAM	1	99	14.98	14.78	14.89	15.01	15.8	0
20	256QAM	50	0	15.12	15.12	15.13	15.10	15.8	0
20	256QAM	50	24	15.92	16.07	16.08	16.05	16.8	0
20	256QAM	50	50	15.99	16.06	16.12	16.04	16.8	0
20	256QAM	100	0	16.14	16.06	16.01	16.15	16.8	0
Channel				55315	55820	56160	56665	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)				35525	36015	36343	36975		
15	QPSK	1	0	16.11	16.08	16.12	15.98	16.8	0
15	QPSK	1	37	16.17	16.09	16.07	16.03	16.8	0
15	QPSK	1	74	16.11	15.87	16.14	15.84	16.8	0
15	QPSK	36	0	16.04	15.96	15.95	15.89	16.8	0
15	QPSK	36	20	15.87	15.98	15.97	15.96	16.8	0
15	QPSK	36	37	16.03	16.03	16.07	16.04	16.8	0
15	QPSK	75	0	16.04	15.89	16.02	16.02	16.8	0
15	16QAM	1	0	15.92	16.10	16.00	16.11	16.8	0
15	16QAM	1	37	16.16	16.01	16.01	16.16	16.8	0
15	16QAM	1	74	15.94	15.89	15.96	15.92	16.8	0
15	16QAM	36	0	15.85	15.95	15.98	15.99	16.8	0
15	16QAM	36	20	16.14	16.00	16.05	16.02	16.8	0
15	16QAM	36	37	16.19	15.91	16.04	16.03	16.8	0
15	16QAM	75	0	15.99	16.12	16.02	16.10	16.8	0
15	64QAM	1	0	16.07	16.04	16.06			
15	64QAM	1	37	16.10	15.99	16.18	15.98	16.8	0
15	64QAM	1	74	16.13	16.08	16.02	16.09	16.8	0
15	64QAM	36	0	15.91	16.02	15.96	15.92	16.8	0
15	64QAM	36	20	16.01	16.02	16.03	16.04	16.8	0
15	64QAM	36	37	15.98	15.92	15.98	15.98	16.8	0
15	64QAM	75	0	15.95	16.08	15.91	15.94	16.8	0
15	256QAM	1	0	14.88	14.98	15.01	14.91	15.8	0
15	256QAM	1	37	16.07	16.02	16.02	15.99	16.8	0
15	256QAM	50	0	15.00	15.98	15.91	15.94	16.8	0
15	256QAM	50	24	14.98	15.96	16.03	16.02	16.8	0
15	256QAM	50	37	15.94	15.95	15.89	15.94	16.8	0
15	256QAM	36	0	15.89	15.96	16.03	16.02	16.8	0
15	256QAM	36	20	16.04	16.05	16.09	15.99	16.8	0
15	256QAM	36	37	15.99	15.95	16.02	15.94	16.8	0
15	256QAM	75	0	16.01	16.05	16.04	16.04	16.8	0
Channel				55309	55815	56164	56660	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)				35525	36017	36343	36975		
10	QPSK	1	0	16.20	16.05	16.16	16.03		
10	QPSK	1	25	16.19	16.03	16.04	16.13	16.8	0
10	QPSK	1	49	16.14	15.95	16.04	15.91		
10	QPSK	25	0	16.06	16.00	16.07	15.96		
10	QPSK	25	12	15.98	15.94	15.91	15.89		
10	QPSK	25	25	15.90	15.97	15.82	15.99	16.8	0
10	QPSK	50	0	15.99	16.00	15.92	16.01		
10	16QAM	1	0	16.00	16.08	16.01	16.09		
10	16QAM	1	25	16.15	15.98	16.16	16.06		
10	16QAM	1	49	15.98	15.98	16.00	15.94		
10	16QAM	25	0	16.17	16.01	16.06	16.03		
10	16QAM	25	12	16.08	16.06	16.14	16.04		
10	16QAM	25	25	16.16	15.99	16.04	15.97		
10	16QAM	50	0	16.05	16.09	16.02	16.02	16.8	0
10	64QAM	1	0	16.04	16.08	16.04	16.06		
10	64QAM	1	25	16.16	15.91	16.05	16.05		
10	64QAM	1	49	16.11	16.08	16.02	15.97		
10	64QAM	25	0	16.03	16.02	16.10	15.91		
10	64QAM	25	12	15.97	16.06	15.89	16.15	16.8	0
10	64QAM	25	25	16.01	15.96	16.03	15.93		
10	256QAM	1	0	16.09	15.94	16.14	16.01		
10	256QAM	1	12	15.98	16.08	16.08	16.07	16.8	0
10	256QAM	1	49	15.97	16.03	16.03	16.07		
10	256QAM	25	0	16.03	16.07	16.06	16.01		
10	256QAM	25	12	15.91	16.02	15.78	15.94		
10	256QAM	25	25	15.85	15.91	15.95	16.01	16.8	0
10	256QAM	50	0	16.08	15.96	16.12	15.99		
Channel				55310	55816	56163	56661	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)				35525	36017	36343	36975		
5	QPSK	1	0	16.12	15.98	16.13	16.05		
5	QPSK	1	24	16.08	15.98	16.09	16.02	16.8	0
5	QPSK	1	12	16.12	16.01	16.02	15.94		
5	QPSK	12	7	16.06	16.02	16.06	16.05		
5	QPSK	12	7	15.97	15.93	15.98	15.92	16.8	0
5	QPSK	12	13	15.94	15.94	15.95	16.06		
5	QPSK	26	0	16.02	16.02	16.06	16.00		
5	16QAM	1	0	15.94	16.10	15.89	16.08		
5	16QAM	1	12	16.12	16.04	16.16	16.05	16.8	0
5	16QAM	1	16	16.08	15.96	16.08	16.06		
5	16QAM	12	0	15.89	15.95	15.87	15.97		
5	16QAM	12	7	16.11	16.03	16.16	16.06		
5	16QAM	12	13	16.18	15.89	16.12	16.03	16.8	0
5	16QAM	25	0	16.06	16.00	15.98	16.07		
5	64QAM	1	0	16.01	16.01	15.94	15.99		
5	64QAM	1	16	16.14	16.00	16.18	16.08	16.8	0
5	64QAM	1	24	16.01	16.08	16.06	15.97		
5	64QAM	12	0	16.10	16.00	16.09	16.02		
5	64QAM	12	7	15.98	16.03	16.00	15.97		
5	64QAM	12	13	15.99	15.89	16.03	15.94	16.8	0
5	256QAM	1	0	15.94	16.15	16.05	16.05		
5	256QAM	1	1	15.98	16.08	16.18	16.07		
5	256QAM	1	12	16.06	16.05	16.09	16.00	16.8	0
5	256QAM	1	24	16.02	16.09	16.00	16.13		
5	256QAM	12	0	15.97	16.10	16.10	16.11		
5	256QAM	12	7	15.90	15.98	15.88	15.99	16.8	0
5	256QAM	12	13	15.85	16.04	15.97	16.06		
5	256QAM	25	0	16.04	16.02	16.04	16.02		

Band 48_Ant 7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Low Middle Ch./Freq.	Power High Middle Ch./Freq.	Power High Ch./Freq.	Time-up limit (dBm)	MPR (dB)		
Channel											
	Frequency (MHz)			55340	55630	56150	56660				
20	QPSK	1	0	22.02	22.04	21.98	21.94	23.3	0		
20	QPSK	1	49	21.95	21.95	21.87	21.85				
20	QPSK	1	99	21.87	22.03	21.86	21.83				
20	QPSK	50	0	21.68	21.65	21.49	21.55				
20	QPSK	50	24	21.59	21.48	21.54	21.41				
20	QPSK	50	50	21.55	21.44	21.49	21.50	22.8	0.5		
20	QPSK	100	0	21.63	21.52	21.58	21.57				
20	16QAM	1	0	21.65	21.55	21.52	21.52				
20	16QAM	1	49	21.66	21.49	21.47	21.62				
20	16QAM	1	99	21.69	21.65	21.68	21.61				
20	16QAM	50	0	20.62	20.43	20.51	20.57	21.8	1.5		
20	16QAM	50	24	20.55	20.39	20.53	20.46				
20	16QAM	50	50	20.55	20.39	20.38	20.25				
20	16QAM	100	0	20.60	20.49	20.51	20.43				
20	16QAM	1	0	20.51	20.48	20.47	20.45				
20	16QAM	1	49	20.58	20.47	20.48	20.58	21.8	1.5		
20	16QAM	1	99	20.70	20.60	20.53	20.64				
20	16QAM	50	0	19.96	19.55	19.37	19.53				
20	16QAM	50	24	19.52	19.32	19.35	19.39				
20	16QAM	50	50	19.49	19.40	19.42	19.47				
20	256QAM	1	0	19.65	19.46	19.56	19.48	18.6	4.5		
20	256QAM	1	49	17.65	17.48	17.48	17.54				
20	256QAM	1	99	17.62	17.60	17.60	17.62				
20	256QAM	50	24	17.61	17.46	17.56	17.55				
20	256QAM	50	50	17.58	17.41	17.43	17.44				
20	256QAM	50	24	17.66	17.59	17.57	17.56	18.6	4.5		
20	256QAM	50	50	17.62	17.42	17.42	17.46				
20	256QAM	100	0	17.69	17.52	17.52	17.50				
Channel											
	Frequency (MHz)			55315	55620	56160	56665			Time-up limit (dBm)	MPR (dB)
15	QPSK	1	0	22.04	21.89	22.00	21.94	23.3	0		
15	QPSK	1	37	21.87	21.89	22.06	21.91				
15	QPSK	1	74	21.77	21.90	21.85	21.77				
15	QPSK	36	0	21.65	21.46	21.30	21.55				
15	QPSK	36	20	21.60	21.47	21.43	21.25				
15	QPSK	36	36	21.50	21.44	21.45	21.34	22.8	0.5		
15	QPSK	75	0	21.44	21.40	21.48	21.49				
15	16QAM	1	0	21.62	21.38	21.46	21.35				
15	16QAM	1	37	21.63	21.39	21.37	21.58				
15	16QAM	1	74	21.54	21.51	21.51	21.52				
15	16QAM	36	0	20.46	20.41	20.49	20.48	21.8	1.5		
15	16QAM	36	20	20.65	20.39	20.53	20.29				
15	16QAM	36	36	20.51	20.40	20.31	20.53				
15	16QAM	75	0	20.43	20.46	20.48	20.28				
15	16QAM	1	37	20.46	20.36	20.34	20.46				
15	16QAM	1	74	20.44	20.31	20.32	20.44	21.8	1.5		
15	16QAM	1	37	20.67	20.57	20.50	20.62				
15	16QAM	36	19	19.47	19.36	19.18	19.41				
15	16QAM	36	20	19.49	19.22	19.25	19.32				
15	16QAM	36	39	19.49	19.36	19.37	19.35				
15	16QAM	75	0	19.63	19.29	19.39	19.47	20.8	2.5		
15	256QAM	1	0	17.52	17.37	17.35	17.47				
15	256QAM	1	37	17.52	17.56	17.56	17.29				
15	256QAM	1	74	17.44	17.38	17.48	17.46				
15	256QAM	36	0	17.41	17.37	17.32	17.41				
15	256QAM	36	20	17.54	17.53	17.50	17.47	18.6	4.5		
15	256QAM	36	36	17.47	17.29	17.24	17.35				
15	256QAM	75	0	17.52	17.61	17.48	17.52				
Channel											
	Frequency (MHz)			55290	55615	56180	56690			Time-up limit (dBm)	MPR (dB)
10	QPSK	1	0	22.02	22.02	22.01	21.97	23.3	0		
10	QPSK	1	49	21.86	21.86	21.82	21.83				
10	QPSK	1	99	21.85	21.96	21.81	21.89				
10	QPSK	25	0	21.53	21.49	21.40	21.36				
10	QPSK	25	12	21.57	21.52	21.45	21.41				
10	QPSK	25	25	21.39	21.39	21.36	21.35	22.8	0.5		
10	QPSK	50	0	21.55	21.44	21.54	21.44				
10	QPSK	1	49	21.47	21.42	21.50	21.38				
10	QPSK	1	25	21.53	21.49	21.33	21.58				
10	16QAM	1	49	21.55	21.38	21.61	21.50				
10	16QAM	25	0	20.50	20.43	20.51	20.43	21.8	1.5		
10	16QAM	25	12	20.53	20.37	20.51	20.29				
10	16QAM	25	25	20.51	20.41	20.32	20.43				
10	16QAM	50	0	20.31	20.33	20.33	20.38				
10	16QAM	1	0	20.42	20.48	20.29	20.30				
10	16QAM	1	25	20.46	20.28	20.29	20.40	21.8	1.5		
10	16QAM	1	49	20.59	20.49	20.44	20.45				
10	16QAM	25	0	19.55	19.39	19.21	19.36				
10	16QAM	25	12	19.49	19.28	19.31	19.31				
10	16QAM	25	25	19.42	19.36	19.40	19.35				
10	16QAM	50	0	19.50	19.27	19.37	19.36	18.6	4.5		
10	256QAM	1	0	17.46	17.46	17.44	17.50				
10	256QAM	1	25	17.59	17.50	17.50	17.40				
10	256QAM	1	49	17.58	17.28	17.38	17.38				
10	256QAM	25	0	17.58	17.27	17.29	17.37				
10	256QAM	25	12	17.64	17.55	17.52	17.28	18.6	4.5		
10	256QAM	25	25	17.34	17.47	17.42	17.44				
10	256QAM	50	0	17.52	17.56	17.43	17.47				
Channel											
	Frequency (MHz)			5552.5	5607	5643	5697.5			Time-up limit (dBm)	MPR (dB)
5	QPSK	1	0	21.91	21.89	21.90	22.04	23.3	0		
5	QPSK	1	12	21.86	21.84	21.82	21.85				
5	QPSK	1	24	21.78	21.78	21.91	21.84				
5	QPSK	12	0	21.62	21.62	21.34	21.34				
5	QPSK	12	7	21.55	21.30	21.34	21.38				
5	QPSK	12	13	21.42	21.44	21.42	21.39	22.8	0.5		
5	QPSK	26	0	21.51	21.43	21.47	21.37				
5	16QAM	1	0	21.63	21.52	21.40	21.43				
5	16QAM	1	12	21.51	21.34	21.28	21.59				
5	16QAM	1	24	21.61	21.60	21.54	21.42				
5	16QAM	12	0	20.54	20.39	20.47	20.41	22.8	0.5		
5	16QAM	12	7	20.45	20.29	20.43	20.36				
5	16QAM	12	13	20.28	20.19	20.44	20.44				
5	16QAM	25	0	20.49	20.44	20.46	20.25				
5	16QAM	1	0	20.43	20.37	20.36	20.32				
5	16QAM	1	12	20.65	20.46	20.46	20.45	21.8	1.5		
5	16QAM	1	24	20.58	20.59	20.52	20.58				
5	16QAM	12	0	19.43	19.54	19.36	19.52				
5	16QAM	12	6	19.13	19.36	19.18	19.33				
5	16QAM	12	13	19.32	19.30	19.31	19.28				
5	16QAM	25	0	19.57	19.41	19.31	19.47	20.8	2.5		
5	256QAM	1	0	17.36	17.39	17.33	17.41				
5	256QAM	1	12	17.61	17.41	17.41	17.24				
5	256QAM	1	24	17.42	17.28	17.36	17.54				
5	256QAM	12	0	17.49	17.33	17.33	17.25				
5	256QAM	12	7	17.83	17.50	17.47	17.54	18.6	4.5		
5	256QAM	12	13	17.51	17.33	17.28	17.44				
5	256QAM	12	26	17.57	17.49	17.36	17.25				
Channel											
	Frequency (MHz)			5552.5	5607	5643	5697.5			Time-up limit (dBm)	MPR (dB)

Band 48_Ant 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				55340	55830	56150	56640			
Frequency (MHz)				5644	5694	5704	5754			
20	QPSK	1	0	13.71	13.61	13.65	13.63	14.8	0	
20	QPSK	1	48	13.55	13.37	13.39	13.38			
20	QPSK	1	96	13.49	13.41	13.31	13.41			
20	QPSK	50	0	13.64	13.46	13.52	13.59			
20	QPSK	50	24	13.56	13.46	13.40	13.46	14.8	0	
20	QPSK	50	50	13.64	13.54	13.55	13.54			
20	QPSK	100	0	13.59	13.54	13.45	13.41			
20	16QAM	1	0	13.54	13.49	13.42	13.38			
20	16QAM	1	48	13.58	13.51	13.48	13.45	14.8	0	
20	16QAM	1	96	13.57	13.43	13.49	13.45			
20	16QAM	50	0	13.54	13.49	13.44	13.38			
20	16QAM	50	24	13.58	13.39	13.46	13.39			
20	16QAM	50	50	13.55	13.35	13.35	13.41	14.8	0	
20	16QAM	100	0	13.63	13.55	13.43	13.58			
20	84QAM	1	0	13.62	13.47	13.53	13.49			
20	84QAM	1	48	13.58	13.38	13.38	13.51			
20	84QAM	1	96	13.54	13.43	13.40	13.37	14.8	0	
20	84QAM	50	0	13.52	13.37	13.39	13.45			
20	84QAM	50	24	13.60	13.55	13.46	13.44			
20	84QAM	50	50	13.55	13.36	13.41	13.48			
20	256QAM	1	0	13.58	13.49	13.39	13.53	14.8	0	
20	256QAM	1	48	13.51	13.39	13.51	13.42			
20	256QAM	1	96	13.66	13.57	13.55	13.58			
20	256QAM	50	0	13.59	13.51	13.50	13.42			
20	256QAM	50	24	13.62	13.44	13.50	13.49	14.8	0	
20	256QAM	50	50	13.63	13.56	13.53	13.63			
20	256QAM	100	0	13.54	13.39	13.37	13.43			
Channel				55315	55800	56100	56605			Tune-up limit (dBm)
Frequency (MHz)				5627.5	5642	5692.5	5742			
15	QPSK	1	0	13.52	13.58	13.51	13.55	14.8	0	
15	QPSK	1	37	13.37	13.43	13.39	13.40			
15	QPSK	1	74	13.41	13.40	13.40	13.35			
15	QPSK	36	0	13.47	13.44	13.49	13.44			
15	QPSK	36	20	13.47	13.44	13.39	13.42	14.8	0	
15	QPSK	36	39	13.57	13.47	13.55	13.46			
15	QPSK	75	0	13.41	13.53	13.50	13.49			
15	16QAM	1	0	13.47	13.49	13.43	13.48			
15	16QAM	1	37	13.45	13.51	13.49	13.42	14.8	0	
15	16QAM	1	74	13.41	13.50	13.44	13.49			
15	16QAM	36	0	13.38	13.35	13.48	13.37			
15	16QAM	36	20	13.39	13.39	13.42	13.38			
15	16QAM	36	39	13.42	13.43	13.37	13.50	14.8	0	
15	16QAM	75	0	13.57	13.46	13.47	13.56			
15	84QAM	1	0	13.44	13.44	13.46	13.43			
15	84QAM	1	37	13.48	13.41	13.43	13.51			
15	84QAM	1	74	13.38	13.41	13.38	13.47	14.8	0	
15	84QAM	36	0	13.47	13.32	13.44	13.33			
15	84QAM	36	20	13.47	13.49	13.53	13.43			
15	84QAM	36	39	13.42	13.38	13.49	13.42			
15	84QAM	75	0	13.46	13.43	13.45	13.50	14.8	0	
15	256QAM	1	0	13.44	13.42	13.45	13.42			
15	256QAM	1	37	13.40	13.55	13.52	13.51			
15	256QAM	1	74	13.33	13.41	13.46	13.38			
15	256QAM	36	0	13.40	13.38	13.48	13.38	14.8	0	
15	256QAM	36	20	13.47	13.42	13.46	13.57			
15	256QAM	36	39	13.58	13.48	13.52	13.53			
15	256QAM	75	0	13.43	13.34	13.34	13.46			
Channel				55300	55815	56185	56690	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3555	3607.5	3642.5	3695			
10	QPSK	1	0	13.54	13.60	13.52	13.59	14.8	0	
10	QPSK	1	25	13.37	13.37	13.50	13.48			
10	QPSK	1	49	13.42	13.44	13.34	13.37			
10	QPSK	25	0	13.55	13.45	13.46	13.54			
10	QPSK	25	12	13.43	13.39	13.47	13.49	14.8	0	
10	QPSK	25	25	13.56	13.49	13.55	13.55			
10	QPSK	50	0	13.52	13.42	13.49	13.47			
10	16QAM	1	0	13.46	13.42	13.41	13.45			
10	16QAM	1	25	13.48	13.39	13.40	13.49	14.8	0	
10	16QAM	1	49	13.39	13.40	13.44	13.48			
10	16QAM	25	0	13.43	13.38	13.42	13.44			
10	16QAM	25	12	13.44	13.49	13.43	13.50			
10	16QAM	25	25	13.42	13.35	13.35	13.39	14.8	0	
10	16QAM	50	0	13.50	13.58	13.43	13.49			
10	84QAM	1	0	13.46	13.56	13.53	13.52			
10	84QAM	1	25	13.49	13.48	13.48	13.49			
10	84QAM	1	49	13.38	13.39	13.39	13.44	14.8	0	
10	84QAM	25	0	13.43	13.44	13.43	13.32			
10	84QAM	25	12	13.54	13.52	13.52	13.43			
10	84QAM	25	25	13.47	13.37	13.35	13.49			
10	84QAM	50	0	13.50	13.47	13.51	13.41	14.8	0	
10	256QAM	1	0	13.48	13.52	13.45	13.51			
10	256QAM	1	25	13.55	13.52	13.49	13.53			
10	256QAM	1	49	13.33	13.38	13.41	13.35			
10	256QAM	25	0	13.53	13.41	13.52	13.50	14.8	0	
10	256QAM	25	12	13.56	13.44	13.44	13.43			
10	256QAM	25	25	13.44	13.57	13.58	13.55			
10	256QAM	50	0	13.37	13.48	13.34	13.47			
Channel				55265	55810	56170	56715	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3552.5	3607	3643	3697.5			
5	QPSK	1	0	13.61	13.54	13.54	13.55	14.8	0	
5	QPSK	1	12	13.47	13.35	13.43	13.49			
5	QPSK	1	24	13.30	13.41	13.33	13.34			
5	QPSK	12	0	13.55	13.57	13.45	13.59			
5	QPSK	12	7	13.45	13.44	13.39	13.49	14.8	0	
5	QPSK	12	13	13.59	13.59	13.59	13.57			
5	QPSK	25	0	13.50	13.54	13.51	13.49			
5	16QAM	1	0	13.34	13.42	13.47	13.41			
5	16QAM	1	12	13.38	13.51	13.52	13.50	14.8	0	
5	16QAM	1	24	13.51	13.47	13.49	13.40			
5	16QAM	12	0	13.40	13.41	13.44	13.40			
5	16QAM	12	7	13.48	13.39	13.51	13.40			
5	16QAM	12	13	13.44	13.41	13.38	13.49	14.8	0	
5	16QAM	25	0	13.49	13.44	13.50	13.45			
5	84QAM	1	0	13.36	13.43	13.47	13.36			
5	84QAM	1	12	13.41	13.47	13.42	13.47			
5	84QAM	1	24	13.37	13.44	13.46	13.45	14.8	0	
5	84QAM	12	0	13.43	13.37	13.47	13.44			
5	84QAM	12	7	13.45	13.54	13.44	13.49			
5	84QAM	12	13	13.50	13.43	13.46	13.37			
5	84QAM	25	0	13.46	13.47	13.51	13.39	14.8	0	
5	256QAM	1	0	13.52	13.51	13.44	13.49			
5	256QAM	1	12	13.58	13.53	13.61	13.54			
5	256QAM	1	24	13.39	13.40	13.43	13.45			
5	256QAM	12	0	13.41	13.53	13.52	13.45	14.8	0	
5	256QAM	12	0	13.49	13.56	13.51	13.50			
5	256QAM	12	7	13.46	13.51	13.53	13.50			
5	256QAM	25	0	13.34	13.39	13.37	13.46			

Band 48_Ant 13

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3590	3609	3641	3690		
20	QPSK	1	0	19.71	19.65	19.56	19.60	20.8	1.5
20	QPSK	1	48	21.30	21.23	21.30	21.35	22.3	0
20	QPSK	1	96	19.73	19.63	19.58	19.67	20.8	1.5
20	QPSK	50	24	21.26	21.25	21.27	21.28	22.3	0
20	QPSK	50	24	21.24	21.21	21.24	21.26	22.3	0
20	QPSK	50	0	21.22	21.24	21.14	21.19	22.3	0
20	QPSK	100	0	19.80	19.79	19.84	19.83	20.8	1.5
20	16QAM	1	0	16.64	16.54	16.50	16.50	19.8	2.5
20	16QAM	1	48	21.29	21.17	21.10	21.20	22.3	0
20	16QAM	1	96	16.66	16.57	16.61	16.59	19.8	2.5
20	16QAM	50	0	21.27	21.23	21.32	21.17	22.3	0
20	16QAM	50	24	21.26	21.17	21.16	21.23	22.3	0
20	16QAM	50	21.32	21.25	21.34	21.27	21.33	22.3	0
20	16QAM	100	0	18.81	18.65	18.76	18.66	19.8	2.5
20	64QAM	1	0	17.75	17.67	17.63	17.70	18.8	3.5
20	64QAM	1	24	21.22	21.22	21.26	21.24	22.3	0
20	64QAM	1	96	17.79	17.74	17.74	17.70	18.8	3.5
20	64QAM	50	0	20.87	20.77	20.72	20.75	21.8	0.5
20	64QAM	50	20.86	20.73	20.73	20.81	20.81	21.8	0.5
20	64QAM	50	50	20.81	20.72	20.73	20.64	21.8	0.5
20	64QAM	100	0	17.91	17.84	17.74	17.78	18.8	3.5
20	256QAM	1	14.97	14.86	14.77	14.81	14.81	15.8	6.5
20	256QAM	1	49	18.75	18.67	18.63	18.57	18.8	3.5
20	256QAM	1	99	14.80	14.70	14.61	14.69	15.8	6.5
20	256QAM	50	19.63	19.43	19.34	19.44	19.44	19.8	2.5
20	256QAM	50	24	18.82	18.74	18.66	18.72	19.8	2.5
20	256QAM	50	50	18.81	18.67	18.63	18.75	19.8	2.5
20	256QAM	100	0	15.88	15.73	15.71	15.71	16.8	5.5
Channel				55315	55620	56160	56665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				19.43	19.43	19.43	19.43		
15	QPSK	1	0	19.63	19.51	19.43	19.43	19.8	2.5
15	QPSK	1	37	21.19	21.30	21.33	21.29	22.3	0
15	QPSK	1	74	19.68	19.58	19.50	19.54	20.8	1.5
15	QPSK	36	20	21.25	21.21	21.29	21.28	22.3	0
15	QPSK	36	20	21.29	21.17	21.28	21.23	22.3	0
15	QPSK	36	20	21.24	21.12	21.27	21.27	22.3	0
15	QPSK	75	0	20.92	20.75	20.81	20.75	21.8	0.5
15	16QAM	1	0	17.88	17.74	17.67	17.70	18.8	3.5
15	16QAM	1	22	21.22	21.13	21.22	21.12	22.3	0
15	16QAM	1	74	17.75	17.58	17.64	17.67	18.8	3.5
15	16QAM	36	0	20.86	20.69	20.68	20.71	21.8	0.5
15	16QAM	36	20	20.88	20.81	20.72	20.81	21.8	0.5
15	16QAM	36	39	18.74	18.58	18.55	18.54	18.8	3.5
15	16QAM	75	0	18.62	18.50	18.53	18.47	19.8	2.5
15	16QAM	75	0	18.76	18.60	18.71	18.70	19.8	2.5
15	64QAM	1	37	21.27	21.28	21.18	21.25	22.3	0
15	64QAM	1	74	18.75	18.62	18.56	18.62	19.8	2.5
15	64QAM	36	34	20.97	20.94	20.95	20.92	21.8	0.5
15	64QAM	36	20	21.27	20.92	20.98	21.08	22.3	0
15	64QAM	36	39	21.21	20.92	20.94	20.88	22.3	0
15	64QAM	75	19.61	19.66	19.66	19.62	19.62	20.8	2.5
15	256QAM	1	0	14.77	14.69	14.61	14.64	15.8	6.5
15	256QAM	1	37	18.74	18.66	18.65	18.67	19.8	2.5
15	256QAM	1	74	14.76	14.59	14.60	14.60	15.8	6.5
15	256QAM	36	0	18.84	18.64	18.74	18.68	19.8	2.5
15	256QAM	36	20	18.85	18.67	18.77	18.70	19.8	2.5
15	256QAM	36	20	18.80	18.70	18.61	18.68	19.8	2.5
15	256QAM	75	0	16.89	16.74	16.78	16.79	17.8	4.5
Channel				55620	55815	56168	56660	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3605	3607.5	3642	3692		
10	QPSK	1	0	21.32	21.23	21.28	21.29	22.3	0
10	QPSK	1	25	21.25	21.26	21.31	21.23	22.3	0
10	QPSK	1	30	21.30	21.21	21.29	21.29	22.3	0
10	QPSK	25	0	21.20	21.16	21.19	21.21	22.3	0
10	QPSK	25	12	21.24	21.16	21.17	21.15	22.3	0
10	QPSK	25	15	21.19	21.21	21.24	21.22	22.3	0
10	QPSK	50	0	21.36	21.22	21.31	21.22	22.3	0
10	16QAM	1	0	21.26	21.26	21.26	21.26	22.3	0
10	16QAM	1	25	21.18	21.23	21.10	21.19	22.3	0
10	16QAM	1	49	21.36	21.25	21.34	21.22	22.3	0
10	16QAM	25	0	21.21	21.25	21.15	21.25	22.3	0
10	16QAM	25	12	21.25	21.35	21.21	21.27	22.3	0
10	16QAM	25	25	21.25	21.35	21.34	21.31	22.3	0
10	16QAM	50	0	21.33	21.32	21.38	21.28	22.3	0
10	64QAM	1	0	21.26	21.29	21.28	21.16	22.3	0
10	64QAM	1	25	21.26	21.25	21.16	21.25	22.3	0
10	64QAM	25	0	20.57	20.10	20.22	20.21	21.8	0.5
10	64QAM	25	12	20.45	20.22	20.12	20.18	21.8	0.5
10	64QAM	25	25	20.48	20.08	20.02	20.13	21.8	0.5
10	256QAM	1	0	18.42	18.38	18.27	18.11	19.8	2.5
10	256QAM	1	34	18.34	18.14	18.14	18.08	19.8	2.5
10	256QAM	1	49	18.56	18.40	18.13	18.25	19.8	2.5
10	256QAM	25	0	18.56	18.30	18.20	18.27	19.8	2.5
10	256QAM	25	12	18.44	18.32	18.19	18.37	19.8	2.5
10	256QAM	25	25	18.50	18.27	18.17	18.13	19.8	2.5
10	256QAM	50	0	18.53	18.43	18.16	18.29	19.8	2.5
Channel				3552.5	3607	3643	3697.5	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				21.30	21.31	21.24	21.24		
5	QPSK	1	0	21.36	21.24	21.24	21.24	22.3	0
5	QPSK	1	24	21.24	21.21	21.21	21.21	22.3	0
5	QPSK	12	0	21.18	21.16	21.24	21.14	22.3	0
5	QPSK	12	0	21.16	21.24	21.24	21.22	22.3	0
5	QPSK	12	13	21.21	21.16	21.27	21.19	22.3	0
5	QPSK	25	0	21.22	21.29	21.22	21.32	22.3	0
5	16QAM	1	0	21.27	21.30	21.35	21.26	22.3	0
5	16QAM	1	12	21.22	21.11	21.19	21.19	22.3	0
5	16QAM	12	0	21.24	21.26	21.21	21.24	22.3	0
5	16QAM	12	7	21.21	21.23	21.30	21.24	22.3	0
5	16QAM	12	13	21.37	21.24	21.35	21.24	22.3	0
5	16QAM	25	0	21.33	21.35	21.29	21.26	22.3	0
5	64QAM	1	0	21.19	21.25	21.23	21.29	22.3	0
5	64QAM	1	1	21.16	21.26	21.20	21.18	22.3	0
5	64QAM	1	24	21.20	21.24	21.22	21.21	22.3	0
5	64QAM	12	0	20.49	20.15	20.23	20.16	21.8	0.5
5	64QAM	12	13	20.53	20.18	20.13	20.26	21.8	0.5
5	64QAM	12	13	20.48	20.16	20.14	20.19	21.8	0.5
5	256QAM	1	0	18.46	18.27	18.22	18.12	19.8	2.5
5	256QAM	1	12	18.54	18.36	18.18	18.18	19.8	2.5
5	256QAM	12	0	18.53	18.20	18.18	18.26	19.8	2.5
5	256QAM	12	7	18.41	18.24	18.24	18.25	19.8	2.5
5	256QAM	12	13	18.41	18.23	18.15	18.19	19.8	2.5
5	256QAM	25	0	18.43	18.29	18.24	18.24	19.8	2.5



n2 Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit	MPR
				Low	High	High		
				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.		
				1860	1860	1860		
	Channel			372000	376000	380000		
	Frequency (MHz)							
20	PV2 BPSK	1	1	20.36	20.41	20.38	21.7	0.0
20	PV2 BPSK	1	53	20.27	20.39	20.38		
20	PV2 BPSK	1	104	20.33	20.45	20.43		
20	PV2 BPSK	50	0	20.23	20.37	20.28	21.7	0.0
20	PV2 BPSK	50	28	20.27	20.32	20.19	21.7	0.0
20	PV2 BPSK	50	56	20.31	20.41	20.33	21.7	0.0
20	PV2 BPSK	100	0	20.27	20.34	20.32		
20	QPSK	1	1	20.31	20.47	20.32		
20	QPSK	1	53	20.33	20.38	20.29	21.7	0.0
20	QPSK	1	104	20.30	20.40	20.36		
20	QPSK	50	0	20.22	20.31	20.18	21.7	0.0
20	QPSK	50	28	20.23	20.34	20.28	21.7	0.0
20	QPSK	50	56	20.26	20.28	20.11	21.7	0.0
20	QPSK	100	0	20.33	20.39	20.33		
20	16QAM	1	1	20.06	20.25	20.06	21.7	0.0
20	16QAM	1	1	19.70	19.89	19.89	21.2	0.5
20	256QAM	1	1	19.34	19.46	19.41	19.7	2.0
	Channel			371500	376000	380500	Tune-up limit	MPR
	Frequency (MHz)			1857.5	1860	1862.5	(dBm)	(dB)
15	QPSK	1	1	20.33	20.32	20.23	21.7	0.0
	Channel			371000	376000	381000	Tune-up limit	MPR
	Frequency (MHz)			1855	1860	1865	(dBm)	(dB)
10	QPSK	1	1	20.27	20.41	20.26	21.7	0.0
	Channel			370500	376000	381500	Tune-up limit	MPR
	Frequency (MHz)			1852.5	1860	1867.5	(dBm)	(dB)
5	QPSK	1	1	20.27	20.30	20.24	21.7	0.0

n2 Ant 5

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit	MPR
				Low	Mid	High		
				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.		
				372000	376000	380000		
				1860	1880	1900		
	Channel	Frequency (MHz)						
20	PV2 BPSK	1	1	23.38	23.46	23.29	25.2	0.0
20	PV2 BPSK	1	53	23.45	23.50	23.41		
20	PV2 BPSK	1	104	23.34	23.49	23.35		
20	PV2 BPSK	50	0	23.18	23.20	23.18	24.7	0.5
20	PV2 BPSK	50	28	23.47	23.48	23.38	25.2	0.0
20	PV2 BPSK	50	56	23.30	23.33	23.17	24.7	0.5
20	PV2 BPSK	100	0	23.25	23.30	23.28		
20	QPSK	1	1	24.17	24.20	24.11		
20	QPSK	1	53	24.13	24.18	23.99	25.2	0.0
20	QPSK	1	104	24.08	24.17	24.08		
20	QPSK	50	0	23.45	23.53	23.52	25.2	0.0
20	QPSK	50	28	23.97	24.10	23.94	25.2	0.0
20	QPSK	50	56	23.43	23.53	23.50	25.2	0.0
20	QPSK	100	0	23.19	23.20	23.18		
20	16QAM	1	1	22.93	23.05	22.94	24.2	1.0
20	16QAM	1	1	21.84	21.86	21.74	22.7	2.5
20	256QAM	1	1	19.89	19.97	19.89	20.7	4.5
	Channel	Frequency (MHz)		371500	376000	380500	Tune-up limit	MPR
				1857.5	1860	1862.5	(dBm)	(dB)
15	QPSK	1	1	24.10	24.14	24.16	25.2	0.0
	Channel	Frequency (MHz)		371000	376000	381000	Tune-up limit	MPR
				1855	1860	1865	(dBm)	(dB)
10	QPSK	1	1	24.13	24.11	24.07	25.2	0.0
	Channel	Frequency (MHz)		370500	376000	381500	Tune-up limit	MPR
				1852.5	1860	1867.5	(dBm)	(dB)
5	QPSK	1	1	24.16	24.12	24.01	25.2	0.0



n2 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				372000	376000	380000	17.7	0.0	
Frequency (MHz)				1860	1880	1900			
20	PV2 BPSK	1	1	17.22	17.25	17.07			
20	PV2 BPSK	1	53	17.18	17.26	17.16			
20	PV2 BPSK	1	104	17.07	17.20	17.16	17.7	0.0	
20	PV2 BPSK	50	0	16.96	17.15	17.07			
20	PV2 BPSK	50	26	17.04	17.22	17.03			
20	PV2 BPSK	50	56	17.11	17.19	17.09			
20	PV2 BPSK	100	0	17.22	17.24	17.07	17.7	0.0	
20	QPSK	1	1	17.13	17.30	17.16			
20	QPSK	1	53	17.24	17.25	17.14			
20	QPSK	1	104	17.06	17.22	17.18			
20	QPSK	50	0	17.04	17.18	17.09	17.7	0.0	
20	QPSK	50	26	17.05	17.23	17.22			
20	QPSK	50	56	17.09	17.20	17.07			
20	QPSK	100	0	17.03	17.21	17.02			
20	16QAM	1	1	17.16	17.17	17.15	17.7	0.0	
20	16QAM	1	1	16.97	17.15	17.07			
20	256QAM	1	1	17.08	17.20	17.04			
Channel				371500	376000	380500	Tune-up limit	MPR	
Frequency (MHz)				1857.5	1860	1862.5	(dBm)	(dB)	
15	QPSK	1	1	17.06	17.28	17.16	17.7	0.0	
Channel				371000	376000	381000	Tune-up limit	MPR	
Frequency (MHz)				1855	1860	1865	(dBm)	(dB)	
10	QPSK	1	1	16.98	17.19	16.98	17.7	0.0	
Channel				370500	376000	381500	Tune-up limit	MPR	
Frequency (MHz)				1852.5	1860	1867.5	(dBm)	(dB)	
5	QPSK	1	1	17.12	17.14	17.14	17.7	0.0	

n2 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				372000	376000	380000	23.1	0.0	
Frequency (MHz)				1860	1880	1900			
20	PV2 BPSK	1	1	21.35	21.36	21.34			
20	PV2 BPSK	1	53	21.31	21.34	21.34			
20	PV2 BPSK	1	104	21.29	21.29	21.32	23.1	0.0	
20	PV2 BPSK	50	0	21.36	21.34	21.29			
20	PV2 BPSK	50	26	21.27	21.30	21.25			
20	PV2 BPSK	50	56	21.27	21.28	21.21			
20	PV2 BPSK	100	0	21.33	21.33	21.26	23.1	0.0	
20	QPSK	1	1	21.38	21.40	21.38			
20	QPSK	1	53	21.31	21.38	21.38			
20	QPSK	1	104	21.33	21.30	21.31			
20	QPSK	50	0	21.29	21.34	21.32	23.1	0.0	
20	QPSK	50	26	21.32	21.33	21.29			
20	QPSK	50	56	21.32	21.33	21.26			
20	QPSK	100	0	21.33	21.35	21.31			
20	16QAM	1	1	21.26	21.31	21.29	23.1	0.0	
20	16QAM	1	1	20.71	20.74	20.72			
20	256QAM	1	1	18.31	18.31	18.34			
Channel				371500	376000	380500	Tune-up limit	MPR	
Frequency (MHz)				1857.5	1860	1862.5	(dBm)	(dB)	
15	QPSK	1	1	21.38	21.39	21.34	23.1	0.0	
Channel				371000	376000	381000	Tune-up limit	MPR	
Frequency (MHz)				1855	1860	1865	(dBm)	(dB)	
10	QPSK	1	1	21.33	21.33	21.38	23.1	0.0	
Channel				370500	376000	381500	Tune-up limit	MPR	
Frequency (MHz)				1852.5	1860	1867.5	(dBm)	(dB)	
5	QPSK	1	1	21.29	2.31	21.35	23.1	0.0	



n5 Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	24.7	0.0
Frequency (MHz)				834	838.5	839		
20	PV2 BPSK	1	1	23.87	23.90	23.80		
20	PV2 BPSK	1	53	23.75	23.90	23.90		
20	PV2 BPSK	1	104	23.74	23.88	23.69	24.2	0.5
20	PV2 BPSK	50	0	23.32	23.48	23.40		
20	PV2 BPSK	50	26	23.88	23.94	23.85	24.2	0.5
20	PV2 BPSK	50	56	23.49	23.55	23.47		
20	PV2 BPSK	100	0	23.46	23.47	23.44	24.7	0.0
20	QPSK	1	1	23.97	23.95	23.85		
20	QPSK	1	53	23.89	23.85	23.81		
20	QPSK	1	104	23.83	23.87	23.82		
20	QPSK	50	0	23.42	23.42	23.57	24.7	0.0
20	QPSK	50	26	23.88	23.92	23.90		
20	QPSK	50	56	23.39	23.49	23.53	24.7	0.0
20	QPSK	100	0	23.43	23.55	23.53		
20	16QAM	1	1	23.54	23.59	23.65	23.7	1.0
20	16QAM	1	1	22.00	21.94	21.88		
20	256QAM	1	1	20.06	19.91	20.05	23.2	4.5
Channel				166300	167300	168300		
Frequency (MHz)				834.5	838.5	841.2	Tune-up limit	MPR
15	QPSK	1	1	23.71	23.85	23.74		
Channel				165800	167300	168800	Tune-up limit	MPR
Frequency (MHz)				236	838.5	844		
10	QPSK	1	1	23.73	23.83	23.71	24.7	0.0
Channel				165300	167300	169300		
Frequency (MHz)				834.5	838.5	846.2	Tune-up limit	MPR
5	QPSK	1	1	23.71	23.82	23.67		

n5 Ant 1

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	25.2	0.0
Frequency (MHz)				834	838.5	839		
20	PV2 BPSK	1	1	23.98	23.95	23.93		
20	PV2 BPSK	1	53	23.77	23.95	23.83		
20	PV2 BPSK	1	104	23.90	23.92	23.88	24.7	0.5
20	PV2 BPSK	50	0	23.70	23.77	23.71		
20	PV2 BPSK	50	26	23.63	23.97	23.90	24.7	0.5
20	PV2 BPSK	50	56	23.40	23.40	23.34		
20	PV2 BPSK	100	0	23.38	23.50	23.31	25.2	0.0
20	QPSK	1	1	23.91	24.00	23.87		
20	QPSK	1	53	23.74	23.90	23.81		
20	QPSK	1	104	23.89	23.96	23.78		
20	QPSK	50	0	23.45	23.50	23.49	24.2	1.0
20	QPSK	50	26	23.90	23.95	23.88		
20	QPSK	50	56	23.36	23.39	23.52	24.2	1.0
20	QPSK	100	0	23.50	23.58	23.52		
20	16QAM	1	1	23.55	23.56	23.69	24.2	1.0
20	16QAM	1	1	22.00	22.00	22.05		
20	256QAM	1	1	20.11	20.12	20.11	20.7	4.5
Channel				166300	167300	168300		
Frequency (MHz)				834.5	838.5	841.2	Tune-up limit	MPR
15	QPSK	1	1	23.95	23.96	23.93		
Channel				165800	167300	168800	Tune-up limit	MPR
Frequency (MHz)				236	838.5	844		
10	QPSK	1	1	23.87	23.95	23.93	25.2	0.0
Channel				165300	167300	169300		
Frequency (MHz)				834.5	838.5	846.2	Tune-up limit	MPR
5	QPSK	1	1	23.98	23.94	23.81		



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				504000	507000	510000			
Frequency (MHz)				2500	2535	2550			
40	PV2 BPSK	1	1	18.63	18.72	18.67	20.0	0.0	
40	PV2 BPSK	1	108	18.66	18.68	18.65			
40	PV2 BPSK	1	214	18.64	18.67	18.62			
40	PV2 BPSK	108	0	18.64	18.66	18.64			
40	PV2 BPSK	108	54	18.63	18.69	18.60	20.0	0.0	
40	PV2 BPSK	108	108	18.59	18.65	18.58	20.0	0.0	
40	PV2 BPSK	216	0	18.65	18.67	18.65	1		
40	QPSK	1	1	18.66	18.75	18.65	20.0	0.0	
40	QPSK	1	108	18.66	18.73	18.66			
40	QPSK	1	214	18.70	18.71	18.67			
40	QPSK	108	0	18.56	18.62	18.52			
40	QPSK	108	54	18.63	18.69	18.62	20.0	0.0	
40	QPSK	108	108	18.62	18.66	18.56	20.0	0.0	
40	QPSK	216	0	18.63	18.68	18.60	20.0	0.0	
40	16QAM	1	1	18.61	18.69	18.61	20.0	0.0	
40	16QAM	1	1	18.58	18.63	18.51	20.0	0.0	
40	256QAM	1	1	18.32	18.33	18.25	19.0	1.0	
Channel				502000	507000	511000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2515 <th>2535<th>2555<th colspan="3"></th></th></th>	2535 <th>2555<th colspan="3"></th></th>	2555 <th colspan="3"></th>			
30	QPSK	1	1	18.57	18.62	18.62	20.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2512.5 <th>2535<th>2557.5<th colspan="3"></th></th></th>	2535 <th>2557.5<th colspan="3"></th></th>	2557.5 <th colspan="3"></th>			
25	QPSK	1	1	18.49	18.67	18.52	20.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2510 <th>2535<th>2560<th colspan="3"></th></th></th>	2535 <th>2560<th colspan="3"></th></th>	2560 <th colspan="3"></th>			
20	QPSK	1	1	18.54	18.60	18.52	20.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2507.5 <th>2535<th>2562.5<th colspan="3"></th></th></th>	2535 <th>2562.5<th colspan="3"></th></th>	2562.5 <th colspan="3"></th>			
15	QPSK	1	1	18.58	18.59	18.59	20.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2505 <th>2534<th>2564<th colspan="3"></th></th></th>	2534 <th>2564<th colspan="3"></th></th>	2564 <th colspan="3"></th>			
10	QPSK	1	1	18.52	18.61	18.52	20.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2502.5 <th>2534<th>2567.5<th colspan="3"></th></th></th>	2534 <th>2567.5<th colspan="3"></th></th>	2567.5 <th colspan="3"></th>			
5	QPSK	1	1	18.57	18.64	18.58	20.0	0.0	

n7 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				504000	507000	510000			
Frequency (MHz)				2500	2535	2550			
40	PV2 BPSK	1	1	23.01	23.15	23.16	24.7	0.0	
40	PV2 BPSK	1	108	23.00	23.17	23.15			
40	PV2 BPSK	1	214	22.96	23.15	23.13			
40	PV2 BPSK	108	0	22.94	22.98	22.32			
40	PV2 BPSK	108	54	23.15	23.16	23.16	24.2	0.0	
40	PV2 BPSK	108	108	22.31	22.95	22.26	24.2	0.5	
40	PV2 BPSK	216	0	22.25	22.33	22.16	1		
40	QPSK	1	1	23.10	23.30	23.09	24.7	0.0	
40	QPSK	1	108	23.01	23.14	22.98			
40	QPSK	1	214	23.06	23.16	23.05			
40	QPSK	108	0	22.99	22.85	22.87			
40	QPSK	108	54	23.09	23.19	23.11	24.7	0.0	
40	QPSK	108	108	22.89	22.89	23.01	24.7	0.0	
40	QPSK	216	0	22.91	22.98	22.85	1		
40	16QAM	1	1	22.73	22.85	22.63	23.7	1.0	
40	16QAM	1	1	21.49	21.35	21.50	22.2	2.5	
40	256QAM	1	1	18.44	18.33	19.44	20.2	4.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2516 <th>2535<th>2555<th colspan="3"></th></th></th>	2535 <th>2555<th colspan="3"></th></th>	2555 <th colspan="3"></th>			
30	QPSK	1	1	22.84	23.16	23.12	24.7	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2512.5 <th>2535<th>2557.5<th colspan="3"></th></th></th>	2535 <th>2557.5<th colspan="3"></th></th>	2557.5 <th colspan="3"></th>			
25	QPSK	1	1	23.01	23.01	23.05	24.7	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2510 <th>2535<th>2550<th colspan="3"></th></th></th>	2535 <th>2550<th colspan="3"></th></th>	2550 <th colspan="3"></th>			
20	QPSK	1	1	22.93	23.11	23.10	24.7	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2507.5 <th>2535<th>2562.5<th colspan="3"></th></th></th>	2535 <th>2562.5<th colspan="3"></th></th>	2562.5 <th colspan="3"></th>			
15	QPSK	1	1	22.92	23.14	23.05	24.7	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2505 <th>2535<th>2565<th colspan="3"></th></th></th>	2535 <th>2565<th colspan="3"></th></th>	2565 <th colspan="3"></th>			
10	QPSK	1	1	22.97	23.17	23.07	24.7	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2502.5 <th>2535<th>2567.5<th colspan="3"></th></th></th>	2535 <th>2567.5<th colspan="3"></th></th>	2567.5 <th colspan="3"></th>			
5	QPSK	1	1	22.97	23.19	23.12	24.7	0.0	



n7 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				504000	507000	510000				
Frequency (MHz)				2500	2535	25500				
40	PV2 BPSK	1	1	13.75	13.85	13.66	15.2	0.0		
40	PV2 BPSK	1	108	13.72	13.80	13.75				
40	PV2 BPSK	1	214	13.84	13.81	13.66				
40	PV2 BPSK	108	0	13.80	13.88	13.71				
40	PV2 BPSK	108	54	13.74	13.79	13.71	15.2	0.0		
40	PV2 BPSK	108	106	13.70	13.84	13.71	15.2	0.0		
40	PV2 BPSK	216	0	13.68	13.86	13.75				
40	QPSK	1	1	13.82	13.90	13.85				
40	QPSK	1	108	13.88	13.88	13.70				
40	QPSK	1	214	13.78	13.82	13.68	15.2	0.0		
40	QPSK	108	0	13.72	13.84	13.81				
40	QPSK	108	54	13.81	13.86	13.83				
40	QPSK	108	108	13.76	13.79	13.62				
40	QPSK	216	0	13.68	13.82	13.71	15.2	0.0		
40	16QAM	1	1	13.71	13.77	13.82	15.2	0.0		
40	16QAM	1	1	13.71	13.79	13.70				
40	256QAM	1	1	13.63	13.82	13.70				
Channel				503000	507000	511000	Tune-up limit	MPR		
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)		
30	QPSK	1	1	13.66	13.84	13.82	15.2	0.0		
Channel				502500	507000	511500	Tune-up limit	MPR		
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)		
25	QPSK	1	1	13.74	13.77	13.69	15.2	0.0		
Channel				502000	507000	512000	Tune-up limit	MPR		
Frequency (MHz)				2510	2531	2550	(dBm)	(dB)		
20	QPSK	1	1	13.63	13.83	13.72	15.2	0.0		
Channel				501500	507000	512500	Tune-up limit	MPR		
Frequency (MHz)				2507.5	2531	2552.5	(dBm)	(dB)		
15	QPSK	1	1	13.68	13.75	13.74	15.2	0.0		
Channel				501000	507000	513000	Tune-up limit	MPR		
Frequency (MHz)				2505	2531	2556	(dBm)	(dB)		
10	QPSK	1	1	13.79	13.78	13.71	15.2	0.0		
Channel				500500	507000	513500	Tune-up limit	MPR		
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)		
5	QPSK	1	1	13.72	13.90	13.80	15.2	0.0		

n7 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				504000	507000	510000			
Frequency (MHz)				2500	2535	2550			
40	PV2 BPSK	1	1	20.94	20.95	20.88	22.0	0.0	
40	PV2 BPSK	1	108	20.50	20.57	20.52			
40	PV2 BPSK	1	214	20.76	20.85	20.85			
40	PV2 BPSK	108	0	20.64	20.74	20.74			
40	PV2 BPSK	108	54	20.76	20.78	20.69	22.0	0.0	
40	PV2 BPSK	108	108	20.85	20.90	20.80	22.0	0.0	
40	PV2 BPSK	216	0	20.81	20.81	20.74			
40	QPSK	1	1	20.94	20.97	20.87			
40	QPSK	1	108	20.72	20.81	20.73			
40	QPSK	1	214	20.74	20.83	20.75	22.0	0.0	
40	QPSK	108	0	20.67	20.75	20.73			
40	QPSK	108	54	20.85	20.93	20.83			
40	QPSK	108	108	20.82	20.83	20.82			
40	QPSK	216	0	20.79	20.84	20.80	22.0	0.0	
40	16QAM	1	1	20.48	20.55	20.47	22.0	0.0	
40	64QAM	1	1	19.42	19.50	19.43	21.0	1.0	
40	256QAM	1	1	17.64	17.73	17.73	19.0	3.0	
Channel				503000	507000	511000	Tune-up limit	MPR	
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)	
30	QPSK	1	1	20.82	20.87	20.84	22.0	0.0	
Channel				502500	507000	511500	Tune-up limit	MPR	
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)	
25	QPSK	1	1	20.76	20.79	20.86	22.0	0.0	
Channel				502000	507000	512000	Tune-up limit	MPR	
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)	
20	QPSK	1	1	20.69	20.84	20.85	22.0	0.0	
Channel				501500	507000	512500	Tune-up limit	MPR	
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)	
15	QPSK	1	1	20.74	20.84	20.84	22.0	0.0	
Channel				501000	507000	513000	Tune-up limit	MPR	
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)	
10	QPSK	1	1	20.74	20.91	20.87	22.0	0.0	
Channel				500500	507000	513500	Tune-up limit	MPR	
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)	
5	QPSK	1	1	20.70	20.87	20.89	22.0	0.0	



n25 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				374000	376500	379000			
Frequency (MHz)				1870	1882.5	1895			
40	PV2 BPSK	1	1	20.87	20.95	20.84	21.7	0.0	
40	PV2 BPSK	1	108	20.81	20.90	20.79			
40	PV2 BPSK	1	214	20.77	20.88	20.87			
40	PV2 BPSK	108	0	20.76	20.94	20.94	21.7	0.0	
40	PV2 BPSK	108	54	20.81	20.92	20.80	21.7	0.0	
40	PV2 BPSK	108	108	20.84	20.89	20.81	21.7	0.0	
40	PV2 BPSK	216	0	20.80	20.93	20.82	21.7	0.0	
40	QPSK	1	1	20.92	21.00	20.98			
40	QPSK	1	108	20.88	20.97	20.79			
40	QPSK	1	214	20.88	20.94	20.90	21.7	0.0	
40	QPSK	108	0	20.90	20.90	20.81			
40	QPSK	108	54	20.91	20.95	20.87			
40	QPSK	108	108	20.88	20.85	20.83	21.7	0.0	
40	QPSK	216	0	20.88	20.82	20.72	21.7	0.0	
40	16QAM	1	1	20.92	20.92	20.85			
40	16QAM	1	1	20.87	20.91	20.87			
40	256QAM	1	1	18.87	18.90	18.87	19.7	2.0	
Channel				378000	378500	380000	Tune-up limit	MPR	
Frequency (MHz)				1895	1892.5	1900	(dbm)	(db)	
30	QPSK	1	1	20.74	20.99	20.90	21.7	0.0	
Channel				372500	378500	380500	Tune-up limit	MPR	
Frequency (MHz)				1892.5	1892.5	1892.5	(dbm)	(db)	
25	QPSK	1	1	20.78	20.97	20.86	21.7	0.0	
Channel				372000	378500	381000	Tune-up limit	MPR	
Frequency (MHz)				1900	1892.5	1905	(dbm)	(db)	
20	QPSK	1	1	20.78	20.89	20.92	21.7	0.0	
Channel				371500	378500	381500	Tune-up limit	MPR	
Frequency (MHz)				1897.5	1892.5	1902.5	(dbm)	(db)	
15	QPSK	1	1	20.77	20.98	20.85	21.7	0.0	
Channel				371000	378500	382000	Tune-up limit	MPR	
Frequency (MHz)				1905	1892.5	1910	(dbm)	(db)	
10	QPSK	1	1	20.79	20.89	20.89	21.7	0.0	
Channel				370500	378500	382500	Tune-up limit	MPR	
Frequency (MHz)				1892.5	1892.5	1892.5	(dbm)	(db)	
5	QPSK	1	1	20.88	20.84	20.92	21.7	0.0	

n25 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				374000	376500	379000			
Frequency (MHz)				1870	1882.5	1895			
40	PV2 BPSK	1	1	24.09	24.22	24.19	25.2	0.0	
40	PV2 BPSK	1	108	24.11	24.15	23.95			
40	PV2 BPSK	1	214	23.96	24.13	23.95			
40	PV2 BPSK	108	0	24.03	24.05	23.93	24.7	0.5	
40	PV2 BPSK	108	54	24.04	24.17	24.09	25.2	0.0	
40	PV2 BPSK	108	108	23.97	24.08	24.07	24.7	0.5	
40	PV2 BPSK	216	0	23.99	24.10	23.92			
40	QPSK	1	1	24.20	24.25	24.18			
40	QPSK	1	108	24.14	24.18	24.03	25.2	0.0	
40	QPSK	1	214	24.06	24.10	24.04			
40	QPSK	108	0	23.98	23.99	23.29	24.2	1.0	
40	QPSK	108	54	24.13	24.24	24.21	25.2	0.0	
40	QPSK	108	108	23.29	23.16	23.18	24.2	1.0	
40	QPSK	216	0	23.15	23.22	23.20			
40	16QAM	1	1	23.19	23.45	23.19	24.2	1.0	
40	16QAM	1	1	21.80	21.77	21.79	22.7	2.5	
40	256QAM	1	1	19.92	19.90	19.78	20.7	4.5	
Channel				378000	378500	380000	Tune-up limit	MPR	
Frequency (MHz)				1895	1892.5	1900	(dbm)	(db)	
30	QPSK	1	1	24.01	24.06	24.18	25.2	0.0	
Channel				372500	378500	380500	Tune-up limit	MPR	
Frequency (MHz)				1892.5	1892.5	1892.5	(dbm)	(db)	
25	QPSK	1	1	23.91	24.05	24.03	25.2	0.0	
Channel				372000	378500	381000	Tune-up limit	MPR	
Frequency (MHz)				1900	1892.5	1905	(dbm)	(db)	
20	QPSK	1	1	24.07	24.13	24.12	25.2	0.0	
Channel				371500	378500	381500	Tune-up limit	MPR	
Frequency (MHz)				1897.5	1892.5	1902.5	(dbm)	(db)	
15	QPSK	1	1	23.99	24.10	24.19	25.2	0.0	
Channel				371000	378500	382000	Tune-up limit	MPR	
Frequency (MHz)				1905	1892.5	1910	(dbm)	(db)	
10	QPSK	1	1	23.95	24.11	24.04	25.2	0.0	
Channel				370500	378500	382500	Tune-up limit	MPR	
Frequency (MHz)				1892.5	1892.5	1892.5	(dbm)	(db)	
5	QPSK	1	1	24.03	24.18	24.18	25.2	0.0	



n25 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				374000	376500	379000	17.7	0.0	
Frequency (MHz)				1870	1882.5	1895			
40	PV2 BPSK	1	1	16.96	17.10	16.92			
40	PV2 BPSK	1	108	17.01	17.05	16.91			
40	PV2 BPSK	1	214	16.97	17.12	16.95	17.7	0.0	
40	PV2 BPSK	108	0	17.05	17.08	17.01			
40	PV2 BPSK	108	54	16.98	17.15	17.10			
40	PV2 BPSK	108	106	16.93	17.02	16.95			
40	PV2 BPSK	216	0	16.92	17.00	16.99	17.7	0.0	
40	QPSK	1	1	17.11	17.18	17.14			
40	QPSK	1	108	16.93	17.11	17.08			
40	QPSK	1	214	16.93	17.08	17.03			
40	QPSK	108	0	16.98	17.03	16.96	17.7	0.0	
40	QPSK	108	54	16.91	17.05	16.91			
40	QPSK	108	108	16.91	17.00	16.87			
40	QPSK	216	0	16.91	17.01	16.93			
40	16QAM	1	1	17.00	17.11	17.09	17.7	0.0	
40	16QAM	1	1	16.98	17.08	16.89			
40	256QAM	1	1	16.98	17.08	16.87			
Channel				373000	376500	380000	Tune-up limit	MPR	
Frequency (MHz)				1865	1882.5	1890	(dBm)	(dB)	
30	QPSK	1	1	16.96	17.00	16.88	17.7	0.0	
Channel				372500	376500	380500	Tune-up limit	MPR	
Frequency (MHz)				1892.5	1892.5	1902.5	(dBm)	(dB)	
25	QPSK	1	1	17.04	17.15	17.03	17.7	0.0	
Channel				372000	376500	381000	Tune-up limit	MPR	
Frequency (MHz)				1880	1882.5	1895	(dBm)	(dB)	
20	QPSK	1	1	17.02	17.15	17.03	17.7	0.0	
Channel				371500	376500	381500	Tune-up limit	MPR	
Frequency (MHz)				1897.5	1882.5	1907.5	(dBm)	(dB)	
15	QPSK	1	1	17.09	16.99	17.05	17.7	0.0	
Channel				371000	376500	382000	Tune-up limit	MPR	
Frequency (MHz)				1885	1882.5	1890	(dBm)	(dB)	
10	QPSK	1	1	16.97	17.18	17.05	17.7	0.0	
Channel				370500	376500	382500	Tune-up limit	MPR	
Frequency (MHz)				1892.5	1882.5	1912.5	(dBm)	(dB)	
5	QPSK	1	1	17.06	17.02	17.09	17.7	0.0	

n25 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				374500	376500	379000	23.1	0.0	
Frequency (MHz)				1870	1882.5	1895			
40	PV2 BPSK	1	1	21.91	21.94	21.86			
40	PV2 BPSK	1	108	21.83	21.97	21.75			
40	PV2 BPSK	1	214	21.86	21.90	21.81	23.1	0.0	
40	PV2 BPSK	108	0	21.81	21.83	21.88			
40	PV2 BPSK	108	54	21.86	21.94	21.84			
40	PV2 BPSK	108	108	21.89	21.93	21.88			
40	PV2 BPSK	216	0	21.88	21.88	21.81	23.1	0.0	
40	QPSK	1	1	21.89	21.89	21.98			
40	QPSK	1	108	21.84	21.89	21.89			
40	QPSK	1	214	21.82	21.83	21.89			
40	QPSK	108	0	21.82	21.92	21.90	23.1	0.0	
40	QPSK	108	54	21.88	21.95	21.94			
40	QPSK	108	108	21.85	21.89	21.81			
40	QPSK	216	0	21.86	21.93	21.85			
40	16QAM	1	1	21.35	21.44	21.38	23.1	0.0	
40	16QAM	1	1	20.29	20.32	20.29			
40	256QAM	1	1	18.48	18.54	18.44			
Channel				373000	376500	380000	Tune-up limit	MPR	
Frequency (MHz)				1865	1882.5	1890	(dBm)	(dB)	
30	QPSK	1	1	21.82	21.84	21.87	23.1	0.0	
Channel				372500	376500	380500	Tune-up limit	MPR	
Frequency (MHz)				1892.5	1882.5	1902.5	(dBm)	(dB)	
25	QPSK	1	1	21.78	21.89	21.82	23.1	0.0	
Channel				372000	376500	381000	Tune-up limit	MPR	
Frequency (MHz)				1880	1882.5	1890	(dBm)	(dB)	
20	QPSK	1	1	21.79	21.87	21.82	23.1	0.0	
Channel				371500	376500	381500	Tune-up limit	MPR	
Frequency (MHz)				1897.5	1882.5	1907.5	(dBm)	(dB)	
15	QPSK	1	1	21.78	21.88	21.78	23.1	0.0	
Channel				371000	376500	382000	Tune-up limit	MPR	
Frequency (MHz)				1885	1882.5	1890	(dBm)	(dB)	
10	QPSK	1	1	21.90	21.83	21.85	23.1	0.0	
Channel				370500	376500	382500	Tune-up limit	MPR	
Frequency (MHz)				1892.5	1882.5	1912.5	(dBm)	(dB)	
5	QPSK	1	1	21.82	21.88	21.75	23.1	0.0	



n30 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				462000			20.5	0.0
Frequency (MHz)				2310				
10	Pi/2 BPSK	1	1	19.10				
10	Pi/2 BPSK	1	26	19.02				
10	Pi/2 BPSK	1	50	19.09				
10	Pi/2 BPSK	25	0	19.00			20.5	0.0
10	Pi/2 BPSK	25	14	19.05			20.5	0.0
10	Pi/2 BPSK	25	27	19.11			20.5	0.0
10	Pi/2 BPSK	50	0	19.07			20.5	0.0
10	QPSK	1	1	19.19			20.5	0.0
10	QPSK	1	26	19.13				
10	QPSK	1	50	19.15				
10	QPSK	25	0	19.11				
10	QPSK	25	14	19.16				
10	QPSK	25	27	19.08			20.5	0.0
10	QPSK	50	0	19.02			20.5	0.0
10	16QAM	1	1	19.09			20.5	0.0
10	16QAM	1	1	19.10			20.5	0.0
10	256QAM	1	1	18.15			19.5	1.0
Channel				461500	462000	462500	Tune-up limit	MPR
Frequency (MHz)				2307.5	2310	2312.5	(dbm)	(db)
5	QPSK	1	1	20.15	20.12	20.17	20.5	0.0

n30 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				462000				
Frequency (MHz)				2310				
10	PV2 BPSK	1	1		23.53			
10	PV2 BPSK	1	26		23.55		24.7	0.0
10	PV2 BPSK	1	50		23.49			
10	PV2 BPSK	25	0		21.49		24.2	0.5
10	PV2 BPSK	25	14		23.49		24.7	0.0
10	PV2 BPSK	25	27		21.41		24.2	0.5
10	PV2 BPSK	50	0		21.47			
10	QPSK	1	1		24.13			
10	QPSK	1	26		24.00		24.7	0.0
10	QPSK	1	50		21.96			
10	QPSK	25	0		22.92		23.7	1.0
10	QPSK	25	14		24.00		24.7	0.0
10	QPSK	25	27		21.97		23.7	1.0
10	QPSK	50	0		21.93			
10	16QAM	1	1		22.92		22.2	2.5
10	16QAM	1	1		21.52		20.2	4.5
10	256QAM	1	1		19.22		19.2	4.5
Channel				461500	462000	462500	Tune-up limit	MPR
Frequency (MHz)				2307.5	2310	2312.5	(dbm)	(db)
5	QPSK	1	1	23.82	23.99	23.83	24.7	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				346000	349000	352000	20.2	0.0
Frequency (MHz)				1730	1745	1760		
40	PV2 BPSK	1	1	18.76	18.76	18.72		
40	PV2 BPSK	1	108	18.68	18.72	18.66		
40	PV2 BPSK	1	214	18.74	18.79	18.61	20.2	0.0
40	PV2 BPSK	108	0	18.56	18.75	18.57		
40	PV2 BPSK	108	54	18.82	18.77	18.66	20.2	0.0
40	PV2 BPSK	108	106	18.69	18.70	18.70	20.2	0.0
40	PV2 BPSK	216	0	18.67	18.73	18.56	1	0.0
40	QPSK	1	1	18.65	18.82	18.65	20.2	0.0
40	QPSK	1	108	18.74	18.75	18.72	20.2	0.0
40	QPSK	1	214	18.81	18.72	18.59	20.2	0.0
40	QPSK	108	0	18.58	18.73	18.55	20.2	0.0
40	QPSK	108	54	18.74	18.80	18.77	20.2	0.0
40	QPSK	108	108	18.53	18.69	18.69	20.2	0.0
40	QPSK	216	0	18.58	18.74	18.69	20.2	0.0
40	16QAM	1	1	18.60	18.72	18.63	20.2	0.0
40	16QAM	1	1	18.64	18.65	18.62	20.2	0.0
40	256QAM	1	1	18.50	18.62	18.53	20.2	0.0
Channel				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	18.58	18.79	18.57	20.2	0.0
Channel				344500	349000	353500	Tune-up limit	MPR
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)
25	QPSK	1	1	18.59	18.76	18.59	20.2	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	18.67	18.76	18.61	20.2	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	18.73	18.69	18.74	20.2	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	18.72	18.78	18.59	20.2	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	18.58	18.74	18.74	20.2	0.0

n66 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				346000	349000	352000	25.2	0.0
Frequency (MHz)				1730	1745	1760		
40	PV2 BPSK	1	1	23.27	23.37	23.32		
40	PV2 BPSK	1	108	23.14	23.35	23.10		
40	PV2 BPSK	1	214	23.18	23.36	23.22	24.7	0.5
40	PV2 BPSK	108	0	22.82	22.82	22.70		
40	PV2 BPSK	108	54	23.81	23.85	23.81	25.2	0.0
40	PV2 BPSK	108	108	22.54	22.70	22.53	24.7	0.5
40	PV2 BPSK	216	0	22.85	22.85	22.76	1	0.0
40	QPSK	1	1	24.27	24.30	24.27	25.2	0.0
40	QPSK	1	108	24.11	24.34	24.08	25.2	0.0
40	QPSK	1	214	24.12	24.26	24.11	24.2	1.0
40	QPSK	108	0	23.16	23.33	23.17	24.2	1.0
40	QPSK	108	54	24.17	24.38	24.25	25.2	0.0
40	QPSK	108	108	23.27	23.30	23.11	24.2	1.0
40	QPSK	216	0	23.10	23.35	23.13	24.2	1.0
40	16QAM	1	1	23.12	23.22	23.21	24.2	1.0
40	16QAM	1	1	21.85	21.80	21.84	22.7	2.5
40	256QAM	1	1	19.83	20.00	19.97	20.7	4.5
Channel				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	24.24	24.34	24.30	25.2	0.0
Channel				344500	349000	353500	Tune-up limit	MPR
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)
25	QPSK	1	1	24.27	24.23	24.27	25.2	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	24.32	24.32	24.28	25.2	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	24.29	24.23	24.25	25.2	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	24.21	24.34	24.30	25.2	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	24.25	24.24	24.29	25.2	0.0



n66 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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PV2 BPSK	1	1	15.87	15.90	15.87	16.7	0.0	
40	PV2 BPSK	1	108	15.92	15.88	15.72			
40	PV2 BPSK	1	214	15.73	15.92	15.90			
40	PV2 BPSK	108	0	15.78	15.85	15.81			
40	PV2 BPSK	108	54	15.80	15.94	15.79	16.7	0.0	0.0
40	PV2 BPSK	108	108	15.85	15.97	15.78	16.7	0.0	0.0
40	PV2 BPSK	216	0	15.74	15.89	15.81	16.7	0.0	0.0
40	QPSK	1	1	15.97	16.00	15.96	16.7	0.0	
40	QPSK	1	108	15.85	15.99	15.81			
40	QPSK	1	214	15.85	15.92	15.74			
40	QPSK	108	0	15.72	15.85	15.66			
40	QPSK	108	54	15.78	15.93	15.84	16.7	0.0	0.0
40	QPSK	108	108	15.67	15.81	15.77	16.7	0.0	0.0
40	QPSK	216	0	15.79	15.89	15.88	16.7	0.0	0.0
40	16QAM	1	1	15.83	15.87	15.79	16.7	0.0	0.0
40	16QAM	1	1	15.83	15.94	15.88	16.7	0.0	0.0
40	256QAM	1	1	15.88	15.90	15.83	16.7	0.0	0.0
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1725	1745	1765	(dbm)	(db)	
30	QPSK	1	1	15.92	15.92	15.93	16.7	0.0	0.0
Channel				344500	349000	353500	Tune-up limit	MPR	
Frequency (MHz)				1722.5	1745	1767.5	(dbm)	(db)	
25	QPSK	1	1	15.78	15.98	15.84	16.7	0.0	0.0
Channel				344000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dbm)	(db)	
20	QPSK	1	1	15.83	15.84	15.94	16.7	0.0	0.0
Channel				343500	349000	354500	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dbm)	(db)	
15	QPSK	1	1	15.78	15.96	15.87	16.7	0.0	0.0
Channel				343000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1715	1745	1775	(dbm)	(db)	
10	QPSK	1	1	15.86	15.83	15.85	16.7	0.0	0.0
Channel				342500	349000	355500	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dbm)	(db)	
5	QPSK	1	1	15.87	15.85	15.92	16.7	0.0	0.0

n66 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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PV2 BPSK	1	1	20.50	20.55	20.47	22.2	0.0	
40	PV2 BPSK	1	108	20.38	20.45	20.38			
40	PV2 BPSK	1	214	20.47	20.49	20.42			
40	PV2 BPSK	108	0	20.46	20.51	20.47			
40	PV2 BPSK	108	54	20.42	20.51	20.40	22.2	0.0	0.0
40	PV2 BPSK	108	108	20.49	20.52	20.40	22.2	0.0	0.0
40	PV2 BPSK	216	0	20.46	20.56	20.48	22.2	0.0	0.0
40	QPSK	1	1	20.55	20.64	20.56	22.2	0.0	
40	QPSK	1	108	20.39	20.48	20.38			
40	QPSK	1	214	20.43	20.52	20.43			
40	QPSK	108	0	20.46	20.48	20.42			
40	QPSK	108	54	20.55	20.60	20.56	22.2	0.0	0.0
40	QPSK	108	108	20.58	20.59	20.49	22.2	0.0	0.0
40	QPSK	216	0	20.51	20.53	20.47	22.2	0.0	0.0
40	16QAM	1	1	18.07	18.17	18.12	22.2	0.0	0.0
40	16QAM	1	1	20.46	20.56	20.42	20.7	1.5	1.5
40	256QAM	1	1	20.00	18.09	18.58	19.2	3.0	3.0
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1725	1745	1765	(dbm)	(db)	
30	QPSK	1	1	20.47	20.48	20.45	22.2	0.0	0.0
Channel				344500	349000	353500	Tune-up limit	MPR	
Frequency (MHz)				1722.5	1745	1767.5	(dbm)	(db)	
25	QPSK	1	1	20.43	20.45	20.49	22.2	0.0	0.0
Channel				344000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dbm)	(db)	
20	QPSK	1	1	20.42	20.49	20.47	22.2	0.0	0.0
Channel				343500	349000	354500	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dbm)	(db)	
15	QPSK	1	1	20.46	20.47	20.53	22.2	0.0	0.0
Channel				343000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1715	1745	1775	(dbm)	(db)	
10	QPSK	1	1	20.46	20.49	20.55	22.2	0.0	0.0
Channel				342500	349000	355500	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dbm)	(db)	
5	QPSK	1	1	20.45	20.52	20.48	22.2	0.0	0.0



n71 Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				134600	136100	137600		
Frequency (MHz)				673	680.5	688		
20	P12 BPSK	1	1	22.72	22.77	22.70	24.2	0.0
20	P12 BPSK	1	53	22.63	22.68	22.58		
20	P12 BPSK	1	104	22.62	22.68	22.63		
20	P12 BPSK	50	0	22.60	22.70	22.58	24.2	0.0
20	P12 BPSK	50	28	22.68	22.71	22.66	24.2	0.0
20	P12 BPSK	50	56	22.70	22.71	22.62		
20	P12 BPSK	100	0	22.71	22.73	22.62	24.2	0.0
20	QPSK	1	1	23.71	23.78	23.69		
20	QPSK	1	53	23.59	23.67	23.62	24.2	0.0
20	QPSK	1	104	23.60	23.65	23.60		
20	QPSK	50	0	23.20	23.22	23.17	23.7	0.5
20	QPSK	50	28	23.55	23.65	23.54	24.2	0.0
20	QPSK	50	56	23.07	23.14	23.10	23.7	0.5
20	QPSK	100	0	23.11	23.12	23.09		
20	16QAM	1	1	23.24	23.33	23.23	23.7	0.5
20	64QAM	1	1	21.95	22.05	21.99	22.2	2.5
20	256QAM	1	1	19.84	19.88	19.80	20.2	4.5
Channel				134100	136100	138100	Tune-up limit	MPR
Frequency (MHz)				693.5	690.5	693.5	(dBm)	(dB)
15	QPSK	1	1	23.65	23.72	23.68	24.2	0.0
Channel				133600	136100	138600	Tune-up limit	MPR
Frequency (MHz)				686	690.5	693	(dBm)	(dB)
10	QPSK	1	1	23.63	23.76	23.61	24.2	0.0
Channel				133100	136100	139100	Tune-up limit	MPR
Frequency (MHz)				685.5	690.5	695.5	(dBm)	(dB)
5	QPSK	1	1	23.70	23.69	23.65	24.2	0.0

n71 Ant 1

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	P12 BPSK	1	1	23.30	23.35	23.26	25.2	0.0
20	P12 BPSK	1	53	23.22	23.30	23.33		
20	P12 BPSK	1	104	23.23	23.26	23.23		
20	P12 BPSK	50	0	23.17	23.20	23.20	24.7	0.5
20	P12 BPSK	50	28	23.30	23.33	23.23	25.2	0.0
20	P12 BPSK	50	56	23.99	23.10	23.01		
20	P12 BPSK	100	0	23.12	23.15	23.01	24.7	0.5
20	QPSK	1	1	24.26	24.32	24.19		
20	QPSK	1	53	24.06	24.25	24.17	25.2	0.0
20	QPSK	1	104	24.12	24.20	24.17		
20	QPSK	50	0	23.35	23.52	23.38	24.2	1.0
20	QPSK	50	28	24.28	24.30	24.18	25.2	0.0
20	QPSK	50	56	23.22	23.48	23.37		
20	QPSK	100	0	23.29	23.43	23.30	24.2	1.0
20	16QAM	1	1	23.43	23.50	23.41	24.2	1.0
20	64QAM	1	1	21.84	22.00	21.90	22.7	2.5
20	256QAM	1	1	20.01	20.01	19.83	20.7	4.5
Channel				134100	136100	138100	Tune-up limit	MPR
Frequency (MHz)				693.5	690.5	693.5	(dBm)	(dB)
15	QPSK	1	1	24.23	24.19	24.19	25.2	0.0
Channel				133600	136100	138600	Tune-up limit	MPR
Frequency (MHz)				686	690.5	693	(dBm)	(dB)
10	QPSK	1	1	24.18	24.20	24.13	25.2	0.0
Channel				133100	136100	139100	Tune-up limit	MPR
Frequency (MHz)				685.5	690.5	695.5	(dBm)	(dB)
5	QPSK	1	1	24.16	24.24	24.19	25.2	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				512000	519000	520000	21.2	0.0	
Frequency (MHz)				2585	2595	2605			
30	PV2 BPSK	1	1	20.18	20.20	20.18			
30	PV2 BPSK	1	40	19.99	20.18	20.12			
30	PV2 BPSK	1	77	20.12	20.15	20.08	21.2	0.0	
30	PV2 BPSK	36	0	20.06	20.13	20.05			
30	PV2 BPSK	36	22	20.07	20.10	19.95			
30	PV2 BPSK	36	43	20.02	20.12	20.02			
30	PV2 BPSK	75	0	20.08	20.09	20.00	21.2	0.0	
30	QPSK	1	1	20.09	20.26	20.16			
30	QPSK	1	40	20.14	20.20	20.19			
30	QPSK	1	77	20.17	20.21	20.20			
30	QPSK	36	0	20.01	20.17	19.99	21.2	0.0	
30	QPSK	36	22	20.17	20.22	20.19			
30	QPSK	36	43	19.97	20.15	20.02			
30	QPSK	75	0	20.15	20.20	20.15			
30	16QAM	1	1	20.07	20.12	19.95	21.2	0.0	
30	16QAM	1	1	20.05	20.08	19.98			
30	256QAM	1	1	17.78	17.80	17.84			
Channel				516000	519000	522000	Tune-up limit	MPR	
Frequency (MHz)				2590	2592	2610	(dBm)	(dB)	
20	QPSK	1	1	20.11	20.21	20.03	21.2	0.0	
Channel				515500	519000	522500	Tune-up limit	MPR	
Frequency (MHz)				2597.5	2599	2612.5	(dBm)	(dB)	
15	QPSK	1	1	20.17	20.08	20.12	21.2	0.0	
Channel				515004	519000	522996	Tune-up limit	MPR	
Frequency (MHz)				2593.02	2595	2614.98	(dBm)	(dB)	
10	QPSK	1	1	20.22	20.11	20.14	21.2	0.0	

n38 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				512000	519000	520000	25.2	0.0	
Frequency (MHz)				2585	2595	2605			
30	PV2 BPSK	1	1	24.19	24.22	24.09			
30	PV2 BPSK	1	40	24.10	24.15	23.95			
30	PV2 BPSK	1	77	24.06	24.09	24.07	24.7	0.5	
30	PV2 BPSK	36	0	23.30	23.33	23.31			
30	PV2 BPSK	36	22	24.01	24.07	23.99			
30	PV2 BPSK	36	43	23.23	23.36	23.29			
30	PV2 BPSK	75	0	23.18	23.25	23.13	24.7	0.5	
30	QPSK	1	1	24.15	24.25	24.20			
30	QPSK	1	40	24.10	24.10	24.10			
30	QPSK	1	77	24.11	24.13	24.11			
30	QPSK	36	0	23.69	23.80	23.72	25.2	0.0	
30	QPSK	36	22	24.10	24.11	24.02			
30	QPSK	36	43	23.78	23.82	23.86			
30	QPSK	75	0	23.45	23.55	23.38			
30	16QAM	1	1	23.50	23.60	23.48	25.2	1.0	
30	16QAM	1	1	22.49	22.39	22.39			
30	64QAM	1	1	20.10	20.35	20.23			
30	256QAM	1	1	20.10	20.35	20.23			
Channel				516000	519000	522000	Tune-up limit	MPR	
Frequency (MHz)				2598	2599	2610	(dBm)	(dB)	
20	QPSK	1	1	24.11	24.12	24.02	25.2	0.0	
Channel				515500	519000	522500	Tune-up limit	MPR	
Frequency (MHz)				2597.5	2599	2612.5	(dBm)	(dB)	
15	QPSK	1	1	24.03	24.03	23.95	25.2	0.0	
Channel				515004	519000	522996	Tune-up limit	MPR	
Frequency (MHz)				2593.02	2595	2614.98	(dBm)	(dB)	
10	QPSK	1	1	24.16	24.05	24.03	25.2	0.0	



n38 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				512000	519000	520000	15.2	0.0
Frequency (MHz)				2585	2595	2605		
30	PV2 BPSK	1	1	14.08	14.20	14.12		
30	PV2 BPSK	1	40	13.96	14.12	14.08		
30	PV2 BPSK	1	77	14.15	14.15	14.08	15.2	0.0
30	PV2 BPSK	36	0	14.03	14.09	14.04		
30	PV2 BPSK	36	22	14.09	14.17	14.01		
30	PV2 BPSK	36	43	14.05	14.12	13.95		
30	PV2 BPSK	75	0	14.05	14.20	14.11	15.2	0.0
30	QPSK	1	1	14.10	14.25	14.09		
30	QPSK	1	40	14.12	14.22	14.12		
30	QPSK	1	77	14.11	14.18	14.02		
30	QPSK	36	0	14.13	14.15	14.11	15.2	0.0
30	QPSK	36	22	14.12	14.20	14.11		
30	QPSK	36	43	14.09	14.11	13.98		
30	QPSK	75	0	13.95	14.08	14.00		
30	16QAM	1	1	13.83	14.02	13.87	15.2	0.0
30	16QAM	1	1	14.08	14.15	14.00		
30	256QAM	1	1	13.97	14.12	14.04		
Channel				516000	519000	522000	Tune-up limit	MPR
Frequency (MHz)				2590	2592	2610	(dBm)	(dB)
20	QPSK	1	1	13.96	14.23	14.02	15.2	0.0
Channel				515500	519000	522500	Tune-up limit	MPR
Frequency (MHz)				2597.5	2595	2612.5	(dBm)	(dB)
15	QPSK	1	1	14.08	14.19	13.91	15.2	0.0
Channel				515004	519000	522996	Tune-up limit	MPR
Frequency (MHz)				2578.02	2595	2614.98	(dBm)	(dB)
10	QPSK	1	1	14.04	14.23	13.92	15.2	0.0

n38 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				512000	519000	520000	23.0	0.0
Frequency (MHz)				2585	2595	2605		
30	PV2 BPSK	1	1	21.71	21.79	21.77		
30	PV2 BPSK	1	40	21.58	21.64	21.55		
30	PV2 BPSK	1	77	21.58	21.65	21.62	23.0	0.0
30	PV2 BPSK	36	0	21.65	21.68	21.67		
30	PV2 BPSK	36	22	21.59	21.59	21.57		
30	PV2 BPSK	36	43	21.49	21.58	21.57		
30	PV2 BPSK	75	0	21.63	21.63	21.53	23.0	0.0
30	QPSK	1	1	21.72	21.82	21.77		
30	QPSK	1	40	21.54	21.59	21.58		
30	QPSK	1	77	21.52	21.57	21.51		
30	QPSK	36	0	21.59	21.61	21.52	23.0	0.0
30	QPSK	36	22	21.65	21.72	21.68		
30	QPSK	36	43	21.53	21.62	21.61		
30	QPSK	75	0	21.57	21.63	21.57		
30	16QAM	1	1	21.49	21.59	21.52	23.0	0.0
30	16QAM	1	1	21.49	21.55	21.34		
30	256QAM	1	1	18.71	18.78	18.72		
Channel				516000	519000	522000	Tune-up limit	MPR
Frequency (MHz)				2590	2595	2610	(dBm)	(dB)
20	QPSK	1	1	21.64	21.63	21.64	23.0	0.0
Channel				515500	519000	522500	Tune-up limit	MPR
Frequency (MHz)				2597.5	2595	2612.5	(dBm)	(dB)
15	QPSK	1	1	21.71	21.61	21.73	23.0	0.0
Channel				515004	519000	522996	Tune-up limit	MPR
Frequency (MHz)				2578.02	2595	2614.98	(dBm)	(dB)
10	QPSK	1	1	21.71	21.70	21.68	23.0	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									
Frequency (MHz)				506202	518598	528000			
				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	20.48	20.65	20.48	21.2	0.0	
100	PV2 BPSK	1	137	20.46	20.52	20.45			
100	PV2 BPSK	1	271	20.50	20.59	20.50			
100	PV2 BPSK	135	0	20.41	20.60	20.50			
100	PV2 BPSK	135	89	20.51	20.57	20.52	21.2	0.0	
100	PV2 BPSK	135	136	20.54	20.62	20.55	21.2	0.0	
100	PV2 BPSK	270	0	20.46	20.59	20.40			
100	QPSK	1	1	20.50	20.70	20.58			
100	QPSK	1	137	20.46	20.55	20.55	21.2	0.0	
100	QPSK	1	271	20.53	20.60	20.54			
100	QPSK	135	0	20.58	20.62	20.62			
100	QPSK	135	89	20.56	20.56	20.54	21.2	0.0	
100	QPSK	135	136	20.41	20.57	20.57			
100	QPSK	270	0	20.38	20.51	20.38	21.2	0.0	
100	16QAM	1	1	20.26	20.45	20.29	21.2	0.0	
100	16QAM	1	1	19.85	19.90	19.92	20.7	0.5	
100	256QAM	1	1	17.82	17.79	17.77	18.7	2.5	
Channel				506200	518598	528996	Tune-up limit	MPR	
Frequency (MHz)				2544	2592.99	2644.86	(dBm)	(dB)	
90	QPSK	1	1	20.58	20.55	20.45	21.2	0.0	
Channel				507204	518598	529998	Tune-up limit	MPR	
Frequency (MHz)				2556.02	2592.99	2648.89	(dBm)	(dB)	
80	QPSK	1	1	20.54	20.55	20.50	21.2	0.0	
Channel				506202	518598	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.03	2592.99	2650	(dBm)	(dB)	
70	QPSK	1	1	20.46	20.68	20.42	21.2	0.0	
Channel				505200	518598	531996	Tune-up limit	MPR	
Frequency (MHz)				2526	2592.99	2669.96	(dBm)	(dB)	
60	QPSK	1	1	20.53	20.62	20.53	21.2	0.0	
Channel				504204	518598	532998	Tune-up limit	MPR	
Frequency (MHz)				2514.02	2592.99	2644.86	(dBm)	(dB)	
50	QPSK	1	1	20.41	20.61	20.57	21.2	0.0	
Channel				503202	518598	534000	Tune-up limit	MPR	
Frequency (MHz)				2518.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	20.59	20.60	20.50	21.2	0.0	
Channel				502200	518598	534996	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.86	(dBm)	(dB)	
30	QPSK	1	1	20.49	20.58	20.58	21.2	0.0	
Channel				501204	518598	535998	Tune-up limit	MPR	
Frequency (MHz)				2504.02	2592.99	2679.86	(dBm)	(dB)	
20	QPSK	1	1	20.58	20.64	20.53	21.2	0.0	
Channel				500700	518598	536496	Tune-up limit	MPR	
Frequency (MHz)				2501.5	2592.99	2682.44	(dBm)	(dB)	
15	QPSK	1	1	20.50	20.63	20.45	21.2	0.0	
Channel				500202	518598	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	19.47	20.55	20.48	21.2	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									
Frequency (MHz)				506200	518598	528000			
				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	23.20	23.32	23.24	24.2	0.0	
100	PV2 BPSK	1	137	23.25	23.30	23.25			
100	PV2 BPSK	1	271	23.20	23.22	23.22			
100	PV2 BPSK	135	0	23.04	23.15	23.02			
100	PV2 BPSK	135	89	23.25	23.27	23.23	24.2	0.0	
100	PV2 BPSK	135	136	23.11	23.30	23.18	23.7	0.5	
100	PV2 BPSK	270	0	22.82	22.92	22.88			
100	QPSK	1	1	23.30	23.35	23.28			
100	QPSK	1	137	23.09	23.22	23.22	24.2	0.0	
100	QPSK	1	271	23.03	23.18	23.12			
100	QPSK	135	0	23.04	23.12	23.01			
100	QPSK	135	89	23.09	23.25	23.18	24.2	0.0	
100	QPSK	135	136	23.08	23.20	23.13			
100	QPSK	270	0	22.81	22.85	22.80	24.2	1.0	
100	16QAM	1	1	22.77	22.85	22.70	24.2	1.0	
100	16QAM	1	1	21.15	21.20	21.22	23.7	2.5	
100	256QAM	1	1	18.98	18.90	18.85	21.7	4.5	
Channel				506200	518598	528996	Tune-up limit	MPR	
Frequency (MHz)				2544	2592.99	2644.86	(dBm)	(dB)	
90	QPSK	1	1	23.01	23.29	23.13	24.2	0.0	
Channel				507204	518598	529998	Tune-up limit	MPR	
Frequency (MHz)				2556.02	2592.99	2648.89	(dBm)	(dB)	
80	QPSK	1	1	23.20	23.24	23.13	24.2	0.0	
Channel				506202	518598	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.03	2592.99	2650	(dBm)	(dB)	
70	QPSK	1	1	23.07	23.18	23.15	24.2	0.0	
Channel				505200	518598	531996	Tune-up limit	MPR	
Frequency (MHz)				2526	2592.99	2669.96	(dBm)	(dB)	
60	QPSK	1	1	23.05	23.22	23.11	24.2	0.0	
Channel				504204	518598	532998	Tune-up limit	MPR	
Frequency (MHz)				2514.02	2592.99	2644.86	(dBm)	(dB)	
50	QPSK	1	1	23.09	23.17	23.23	24.2	0.0	
Channel				503202	518598	534000	Tune-up limit	MPR	
Frequency (MHz)				2518.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	23.20	23.15	23.12	24.2	0.0	
Channel				502200	518598	534996	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.86	(dBm)	(dB)	
30	QPSK	1	1	23.14	23.13	23.12	24.2	0.0	
Channel				501204	518598	535998	Tune-up limit	MPR	
Frequency (MHz)				2504.02	2592.99	2679.86	(dBm)	(dB)	
20	QPSK	1	1	23.20	23.17	23.16	24.2	0.0	
Channel				500700	518598	536496	Tune-up limit	MPR	
Frequency (MHz)				2501.5	2592.99	2682.44	(dBm)	(dB)	
15	QPSK	1	1	23.09	23.26	23.09	24.2	0.0	
Channel				500202	518598	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	23.17	23.22	23.15	24.2	0.0	



n41 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)				506202	518598	528000			
				2548.01	2592.99	2640			
100	PV2 BPSK	1	1	14.08	14.20	14.08	15.2	0.0	
100	PV2 BPSK	1	137	14.02	14.19	14.02			
100	PV2 BPSK	1	271	14.24	14.24	14.13			
100	PV2 BPSK	135	0	14.26	14.30	14.24			
100	PV2 BPSK	135	89	14.10	14.17	14.01	15.2	0.0	
100	PV2 BPSK	135	136	14.10	14.20	14.14	15.2	0.0	
100	PV2 BPSK	270	0	14.17	14.22	14.18			
100	QPSK	1	1	14.20	14.31	14.25			
100	QPSK	1	137	13.95	14.13	14.05			
100	QPSK	1	271	14.08	14.09	13.91	15.2	0.0	
100	QPSK	135	0	14.13	14.15	14.13			
100	QPSK	135	89	14.06	14.20	14.02			
100	QPSK	135	136	14.03	14.11	14.09			
100	QPSK	270	0	14.24	14.25	14.09	15.2	0.0	
100	16QAM	1	1	14.28	14.30	14.16	15.2	0.0	
100	16QAM	1	1	14.15	14.15	14.07	15.2	0.0	
100	256QAM	1	1	14.09	14.20	14.09	15.2	0.0	
Channel				508200	518598	528996	Tune-up limit	MPR	
Frequency (MHz)				2544	2592.99	2644.88	(dBm)	(dB)	
90	QPSK	1	1	14.06	14.15	14.15	15.2	0.0	
Channel				507204	518598	529998	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2648.89	(dBm)	(dB)	
80	QPSK	1	1	14.08	14.20	14.07	15.2	0.0	
Channel				506202	518598	531000	Tune-up limit	MPR	
Frequency (MHz)				2534.03	2592.99	2650	(dBm)	(dB)	
70	QPSK	1	1	14.02	14.27	14.23	15.2	0.0	
Channel				505200	518598	531996	Tune-up limit	MPR	
Frequency (MHz)				2526	2592.99	2669.88	(dBm)	(dB)	
60	QPSK	1	1	14.07	14.28	14.12	15.2	0.0	
Channel				504204	518598	532998	Tune-up limit	MPR	
Frequency (MHz)				2524.02	2592.99	2664.86	(dBm)	(dB)	
50	QPSK	1	1	14.06	14.24	14.14	15.2	0.0	
Channel				503202	518598	534000	Tune-up limit	MPR	
Frequency (MHz)				2518.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	14.05	14.27	14.10	15.2	0.0	
Channel				502200	518598	534996	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.88	(dBm)	(dB)	
30	QPSK	1	1	14.07	14.27	14.19	15.2	0.0	
Channel				501204	518598	535998	Tune-up limit	MPR	
Frequency (MHz)				2504.02	2592.99	2679.86	(dBm)	(dB)	
20	QPSK	1	1	14.01	14.20	14.15	15.2	0.0	
Channel				500700	518598	536496	Tune-up limit	MPR	
Frequency (MHz)				2503.5	2592.99	2682.44	(dBm)	(dB)	
15	QPSK	1	1	14.01	14.22	14.25	15.2	0.0	
Channel				500202	518598	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	14.19	14.29	14.19	15.2	0.0	

n41(HPUe) 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									
Frequency (MHz)				506202	518598	528000			
				2548.01	2592.99	2640			
100	PV2 BPSK	1	1	20.46	20.65	20.46	21.2	0.0	
100	PV2 BPSK	1	137	20.46	20.52	20.45			
100	PV2 BPSK	1	271	20.50	20.99	20.50			
100	PV2 BPSK	135	0	20.41	20.60	20.50			
100	PV2 BPSK	135	89	20.51	20.57	20.52	21.2	0.0	
100	PV2 BPSK	135	138	20.54	20.82	20.55	21.2	0.0	
100	PV2 BPSK	270	0	20.46	20.99	20.40			
100	QPSK	1	1	20.60	20.70	20.58			
100	QPSK	1	137	20.46	20.55	20.55			
100	QPSK	1	271	20.53	20.60	20.54	21.2	0.0	
100	QPSK	135	0	20.58	20.82	20.62			
100	QPSK	135	89	20.56	20.66	20.54			
100	QPSK	135	138	20.41	20.57	20.57			
100	QPSK	270	0	20.39	20.51	20.39	21.2	0.0	
100	16QAM	1	1	20.26	20.45	20.29	21.2	0.0	
100	16QAM	1	1	19.95	19.90	19.92	20.7	0.5	
100	256QAM	1	1	17.82	17.79	17.77	19.7	2.5	
Channel				506200	518598	528996	Tune-up limit	MPR	
Frequency (MHz)				2544	2592.99	2644.88	(dBm)	(dB)	
90	QPSK	1	1	20.58	20.58	20.45	21.2	0.0	
Channel				507204	518598	529998	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2648.89	(dBm)	(dB)	
80	QPSK	1	1	20.54	20.55	20.50	21.2	0.0	
Channel				506202	518598	531000	Tune-up limit	MPR	
Frequency (MHz)				2534.03	2592.99	2650	(dBm)	(dB)	
70	QPSK	1	1	20.46	20.68	20.42	21.2	0.0	
Channel				505200	518598	531996	Tune-up limit	MPR	
Frequency (MHz)				2526	2592.99	2669.88	(dBm)	(dB)	
60	QPSK	1	1	20.53	20.62	20.53	21.2	0.0	
Channel				504204	518598	532998	Tune-up limit	MPR	
Frequency (MHz)				2524.02	2592.99	2664.86	(dBm)	(dB)	
50	QPSK	1	1	20.41	20.61	20.57	21.2	0.0	
Channel				503202	518598	534000	Tune-up limit	MPR	
Frequency (MHz)				2518.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	20.59	20.60	20.50	21.2	0.0	
Channel				502200	518598	534996	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.88	(dBm)	(dB)	
30	QPSK	1	1	20.49	20.58	20.58	21.2	0.0	
Channel				501204	518598	535998	Tune-up limit	MPR	
Frequency (MHz)				2504.02	2592.99	2679.86	(dBm)	(dB)	
20	QPSK	1	1	20.58	20.64	20.53	21.2	0.0	
Channel				500700	518598	536496	Tune-up limit	MPR	
Frequency (MHz)				2503.5	2592.99	2682.44	(dBm)	(dB)	
15	QPSK	1	1	20.50	20.63	20.45	21.2	0.0	
Channel				500202	518598	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	19.47	20.55	20.48	21.2	0.0	



n41(HPUE) 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									
Frequency (MHz)				506202	518598	528000			
				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	25.79	25.80	25.74	26.7	0.0	
100	PV2 BPSK	1	137	25.06	25.25	25.08			
100	PV2 BPSK	1	271	25.45	25.64	25.53			
100	PV2 BPSK	135	0	25.34	25.44	25.25	26.2	0.5	
100	PV2 BPSK	135	69	25.22	25.40	25.29	26.7	0.0	
100	PV2 BPSK	135	136	24.68	24.73	24.60	26.2	0.5	
100	PV2 BPSK	270	0	25.32	25.45	25.42			
100	QPSK	1	1	25.74	25.82	25.72	26.7	0.0	
100	QPSK	1	137	24.81	24.92	24.78			
100	QPSK	1	271	24.85	24.89	24.79			
100	QPSK	135	0	24.86	24.80	24.88			
100	QPSK	135	69	24.90	24.95	24.93	26.7	0.0	
100	QPSK	135	136	23.86	23.77	23.72			
100	QPSK	270	0	24.23	24.33	24.16	26.7	1.0	
100	16QAM	1	1	24.41	24.55	24.54	26.7	1.6	
100	16QAM	1	1	23.53	23.80	23.95	26.2	2.5	
100	256QAM	1	1	21.43	21.44	21.37	25.2	4.5	
Channel				508200	518598	528996	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.86	(dBm)	(dB)	
90	QPSK	1	1	25.72	25.80	25.59	25.7	0.0	
Channel				507204	518598	529998	Tune-up limit	MPR	
Frequency (MHz)				2553.02	2592.99	2648.89	(dBm)	(dB)	
80	QPSK	1	1	25.84	25.66	25.63	26.7	0.0	
Channel				506202	518598	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2652	(dBm)	(dB)	
70	QPSK	1	1	25.63	25.66	25.61	26.7	0.0	
Channel				505200	518598	531996	Tune-up limit	MPR	
Frequency (MHz)				2520	2592.99	2669.86	(dBm)	(dB)	
60	QPSK	1	1	25.63	25.80	25.68	26.7	0.0	
Channel				504204	518598	532998	Tune-up limit	MPR	
Frequency (MHz)				2511.02	2592.99	2674.86	(dBm)	(dB)	
50	QPSK	1	1	25.68	25.77	25.73	26.7	0.0	
Channel				503202	518598	534000	Tune-up limit	MPR	
Frequency (MHz)				2511.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	25.82	25.67	25.58	26.7	0.0	
Channel				502200	518598	534996	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.86	(dBm)	(dB)	
30	QPSK	1	1	25.74	25.80	25.67	26.7	0.0	
Channel				501204	518598	535998	Tune-up limit	MPR	
Frequency (MHz)				2504.02	2592.99	2679.86	(dBm)	(dB)	
20	QPSK	1	1	25.64	25.63	25.61	26.7	0.0	
Channel				500700	518598	536496	Tune-up limit	MPR	
Frequency (MHz)				2501.5	2592.99	2682.44	(dBm)	(dB)	
15	QPSK	1	1	25.61	25.77	25.60	26.7	0.0	
Channel				500202	518598	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	25.66	25.70	25.64	26.7	0.0	

n41(HPUE) 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)				506202	518598	528000			
				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	14.06	14.20	14.06	15.2	0.0	
100	PV2 BPSK	1	137	14.02	14.19	14.02			
100	PV2 BPSK	1	271	14.24	14.24	14.13			
100	PV2 BPSK	135	0	14.25	14.30	14.24	15.2	0.0	
100	PV2 BPSK	135	69	14.10	14.17	14.01	15.2	0.0	
100	PV2 BPSK	135	136	14.10	14.20	14.14	15.2	0.0	
100	PV2 BPSK	270	0	14.17	14.22	14.16			
100	QPSK	1	1	14.20	14.31	14.25	15.2	0.0	
100	QPSK	1	137	13.95	14.13	14.05			
100	QPSK	1	271	14.08	14.09	13.91			
100	QPSK	135	0	14.13	14.15	14.13			
100	QPSK	135	69	14.06	14.20	14.02	15.2	0.0	
100	QPSK	135	136	14.03	14.11	14.09			
100	QPSK	270	0	14.24	14.25	14.09	15.2	0.0	
100	16QAM	1	1	14.28	14.30	14.16	15.2	0.0	
100	16QAM	1	1	14.15	14.15	14.07	14.7	0.0	
100	256QAM	1	1	14.06	14.20	14.06	12.7	0.0	
Channel				506200	518598	528996	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.86	(dBm)	(dB)	
90	QPSK	1	1	14.06	14.19	14.15	15.2	0.0	
Channel				507204	518598	529998	Tune-up limit	MPR	
Frequency (MHz)				2553.02	2592.99	2648.89	(dBm)	(dB)	
80	QPSK	1	1	14.08	14.20	14.07	15.2	0.0	
Channel				506202	518598	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2652	(dBm)	(dB)	
70	QPSK	1	1	14.02	14.27	14.23	15.2	0.0	
Channel				505200	518598	531996	Tune-up limit	MPR	
Frequency (MHz)				2520	2592.99	2669.86	(dBm)	(dB)	
60	QPSK	1	1	14.07	14.26	14.12	15.2	0.0	
Channel				504204	518598	532998	Tune-up limit	MPR	
Frequency (MHz)				2511.01	2592.99	2674.86	(dBm)	(dB)	
50	QPSK	1	1	14.06	14.24	14.14	15.2	0.0	
Channel				503202	518598	534000	Tune-up limit	MPR	
Frequency (MHz)				2511.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	14.05	14.27	14.10	15.2	0.0	
Channel				502200	518598	534996	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.86	(dBm)	(dB)	
30	QPSK	1	1	14.07	14.27	14.19	15.2	0.0	
Channel				501204	518598	535998	Tune-up limit	MPR	
Frequency (MHz)				2504.01	2592.99	2679.86	(dBm)	(dB)	
20	QPSK	1	1	14.01	14.20	14.15	15.2	0.0	
Channel				500700	518598	536496	Tune-up limit	MPR	
Frequency (MHz)				2501.5	2592.99	2682.44	(dBm)	(dB)	
15	QPSK	1	1	14.01	14.22	14.25	15.2	0.0	
Channel				500202	518598	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	14.19	14.29	14.19	15.2	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				50002	51898	52800	21.2	0.0	
Frequency (MHz)				2548.01	2592.99	2640			
100	QPSK	1	1	20.12	20.20	20.10			
100	QPSK	1	137	19.93	20.10	19.82			
100	QPSK	1	271	19.82	19.68	19.61	21.2	0.0	
100	QPSK	137	0	19.77	19.93	19.85			
100	QPSK	137	68	19.93	20.10	20.01			
100	QPSK	137	136	20.01	19.98	19.92			
100	QPSK	273	0	18.75	18.79	18.74	18.7	1.5	
100	16QAM	1	1	19.48	19.67	19.54	20.7	0.5	
100	84QAM	1	1	17.91	18.06	17.92	19.2	2.9	
100	256QAM	1	1	15.55	15.44	15.34	16.2	5.0	
Channel				25020	51898	52896	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	19.94	20.19	20.02	21.2	0.0	
Channel				52724	51898	52896	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)	
80	QPSK	1	1	20.00	20.17	19.99	21.2	0.0	
Channel				25092	51898	53100	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	20.07	20.01	20.09	21.2	0.0	
Channel				53520	51898	53166	Tune-up limit	MPR	
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)	
60	QPSK	1	1	19.98	20.01	20.03	21.2	0.0	
Channel				50404	51898	53098	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)	
50	QPSK	1	1	20.04	20.02	19.92	21.2	0.0	
Channel				50302	51898	53400	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	19.98	20.19	20.05	21.2	0.0	
Channel				50200	51898	53496	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	20.08	20.17	20.00	21.2	0.0	
Channel				50104	51898	53598	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	20.05	20.14	20.03	21.2	0.0	
Channel				500700	51898	536496	Tune-up limit	MPR	
Frequency (MHz)				2503.5	2592.99	2682.48	(dBm)	(dB)	
15	QPSK	1	1	20.08	20.15	20.01	21.2	0.0	
Channel				500202	51898	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	20.01	20.15	20.00	21.2	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				50002	51898	52800	22.7	0.0	
Frequency (MHz)				2548.01	2592.99	2640			
100	QPSK	1	1	21.82	21.83	21.80			
100	QPSK	1	137	20.70	21.08	20.75			
100	QPSK	1	271	20.71	21.00	20.68	22.7	0.0	
100	QPSK	137	0	20.71	20.99	20.84			
100	QPSK	137	68	20.83	21.01	20.86			
100	QPSK	137	138	19.84	19.86	19.72			
100	QPSK	273	0	20.34	20.36	20.32	21.2	1.5	
100	16QAM	1	1	20.49	20.55	20.56	22.2	0.5	
100	84QAM	1	1	18.55	19.84	19.53	20.7	2.9	
100	256QAM	1	1	17.08	17.99	17.07	17.7	5.0	
Channel				25020	51898	52896	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	21.85	21.77	21.85	22.7	0.0	
Channel				52724	51898	52896	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)	
80	QPSK	1	1	21.79	21.74	21.65	22.7	0.0	
Channel				50092	51898	53100	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	21.72	21.73	21.65	22.7	0.0	
Channel				50520	51898	53166	Tune-up limit	MPR	
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)	
60	QPSK	1	1	21.84	21.83	21.82	22.7	0.0	
Channel				50404	51898	53098	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)	
50	QPSK	1	1	21.13	21.00	21.72	22.7	0.0	
Channel				50302	51898	53400	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	21.74	21.72	21.69	22.7	0.0	
Channel				50200	51898	53496	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	21.75	21.75	21.72	22.7	0.0	
Channel				50104	51898	53598	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	21.70	21.11	21.71	22.7	0.0	
Channel				500700	51898	536496	Tune-up limit	MPR	
Frequency (MHz)				2503.5	2592.99	2682.48	(dBm)	(dB)	
15	QPSK	1	1	21.70	21.00	21.72	22.7	0.0	
Channel				500202	51898	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	21.63	21.11	21.74	22.7	0.0	

n41 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				50902	51898	52800	15.2	0.0
Frequency (MHz)				2544.01	2592.99	2640		
100	QPSK	1	1	14.22	14.30	14.25		
100	QPSK	1	137	13.85	14.06	14.03	15.2	0.0
100	QPSK	1	271	14.06	13.93	13.85		
100	QPSK	137	0	14.13	13.96	13.98		
100	QPSK	137	68	14.15	14.20	14.11	15.2	0.0
100	QPSK	137	138	14.01	14.03	13.92		
100	QPSK	273	0	14.09	14.24	14.12		
100	16QAM	1	1	14.18	14.21	14.05	15.2	0.0
100	64QAM	1	1	14.08	13.98	14.04	15.2	0.0
100	256QAM	1	1	14.08	14.20	13.98	15.2	0.0
Channel				293203	518598	529599	Tune-up limit	MPR
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	QPSK	1	1	14.19	14.09	14.05	15.2	0.0
Channel				527204	518598	529599	Tune-up limit	MPR
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)
80	QPSK	1	1	14.19	14.22	14.13	15.2	0.0
Channel				503202	518598	531000	Tune-up limit	MPR
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	14.17	14.23	14.04	15.2	0.0
Channel				505200	518598	531998	Tune-up limit	MPR
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)
60	QPSK	1	1	14.16	14.10	14.12	15.2	0.0
Channel				504204	518598	532998	Tune-up limit	MPR
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)
50	QPSK	1	1	14.10	14.03	14.15	15.2	0.0
Channel				503202	518598	534000	Tune-up limit	MPR
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	14.19	14.12	14.17	15.2	0.0
Channel				502200	518598	534998	Tune-up limit	MPR
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	14.17	14.23	14.07	15.2	0.0
Channel				501204	518598	535998	Tune-up limit	MPR
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	14.14	14.11	14.15	15.2	0.0
Channel				500700	518598	536498	Tune-up limit	MPR
Frequency (MHz)				2503.5	2592.99	2682.48	(dBm)	(dB)
15	QPSK	1	1	14.19	14.23	14.22	15.2	0.0
Channel				500202	518598	537000	Tune-up limit	MPR
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)
10	QPSK	1	1	14.11	14.13	14.22	15.2	0.0



n48_Part96_FCC_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				636000	641666	646332	15.2	0.0
Frequency (MHz)				3570	3624.99	3679.98		
40	PV2 BPSK	1	1	14.04	14.10	14.00		
40	PV2 BPSK	1	53	13.94	13.99	13.91		
40	PV2 BPSK	1	104	14.02	14.08	14.05	15.2	0.0
40	PV2 BPSK	50	0	14.02	14.08	14.02		
40	PV2 BPSK	50	26	13.94	13.99	13.95		
40	PV2 BPSK	50	56	13.88	13.95	13.91		
40	PV2 BPSK	100	0	13.91	13.97	13.87	15.2	0.0
40	QPSK	1	1	14.01	14.11	14.08		
40	QPSK	1	53	13.98	13.98	13.98		
40	QPSK	1	104	14.07	14.10	14.03		
40	QPSK	50	0	13.98	14.00	13.98	15.2	0.0
40	QPSK	50	26	13.92	14.06	13.91		
40	QPSK	50	56	13.93	13.95	13.91		
40	QPSK	100	0	13.91	13.94	13.87		
40	16QAM	1	1	13.97	14.04	13.94	15.2	0.0
40	16QAM	1	1	13.97	13.95	13.86		
40	256QAM	1	1	13.93	13.93	13.91		
Channel				637334	641666	646000	Tune-up limit	MPR
Frequency (MHz)				3569.01	3624.99	3669	(dBm)	(dB)
20	QPSK	1	1	13.97	14.04	14.04	15.2	0.0
Channel				637000	641666	646332	Tune-up limit	MPR
Frequency (MHz)				3565	3624.99	3664.98	(dBm)	(dB)
10	QPSK	1	1	13.97	14.04	14.05	15.2	0.0

n48_Part96_FCC_ANT 13

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				636000	641666	646332	21.2	0.0
Frequency (MHz)				3570	3624.99	3679.98		
40	PV2 BPSK	1	1	19.97	20.14	20.11		
40	PV2 BPSK	1	53	20.11	20.16	20.11		
40	PV2 BPSK	1	104	20.13	20.15	19.98	21.2	0.0
40	PV2 BPSK	50	0	19.88	20.05	19.91		
40	PV2 BPSK	50	26	20.08	20.15	20.14		
40	PV2 BPSK	50	56	19.92	20.05	20.01		
40	PV2 BPSK	100	0	19.94	20.13	19.96	21.2	0.0
40	QPSK	1	1	20.03	20.20	20.03		
40	QPSK	1	53	19.83	19.97	19.95		
40	QPSK	1	104	20.11	20.15	20.03		
40	QPSK	50	0	20.03	20.03	19.91	21.2	0.0
40	QPSK	50	26	20.11	20.14	20.13		
40	QPSK	50	56	20.04	20.06	19.95		
40	QPSK	100	0	20.04	20.08	19.95		
40	16QAM	1	1	20.06	20.10	20.08	21.2	0.0
40	16QAM	1	1	19.98	20.12	20.12		
40	256QAM	1	1	19.42	19.55	19.43		
Channel				637334	641666	646000	Tune-up limit	MPR
Frequency (MHz)				3569.01	3624.99	3669	(dBm)	(dB)
20	QPSK	1	1	19.97	20.05	19.91	21.2	0.0
Channel				637000	641666	646332	Tune-up limit	MPR
Frequency (MHz)				3565	3624.99	3664.98	(dBm)	(dB)
10	QPSK	1	1	19.91	20.09	19.95	21.2	0.0



Par270 n77_FCC_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				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PV2 BPSK	1	1	13.92	14.11	14.01	15.2	0.0	
100	PV2 BPSK	1	137	13.98	13.98	13.91			
100	PV2 BPSK	1	271	13.93	13.77	13.84			
100	PV2 BPSK	135	0	13.97	14.03	13.94			
100	PV2 BPSK	135	89	13.92	14.08	14.01	15.2	0.0	0.0
100	PV2 BPSK	135	136	13.75	13.92	13.81	15.2	0.0	0.0
100	PV2 BPSK	270	0	14.02	13.76	13.84	15.2	0.0	0.0
100	QPSK	1	1	14.13	14.30	14.12	15.2	0.0	
100	QPSK	1	137	13.90	14.05	13.99			
100	QPSK	1	271	13.81	13.82	13.77			
100	QPSK	135	0	13.90	13.99	13.84			
100	QPSK	135	89	13.82	14.24	13.83	15.2	0.0	0.0
100	QPSK	135	136	13.76	13.77	13.80	15.2	0.0	0.0
100	QPSK	270	0	13.99	14.00	13.84	15.2	0.0	0.0
100	16QAM	1	1	13.91	14.05	13.86	15.2	0.0	0.0
100	16QAM	1	1	13.70	13.98	13.74	15.2	0.0	0.0
100	256QAM	1	1	13.68	13.83	13.74	15.2	0.0	0.0
Channel				649668	656000	662332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3840	3934.86	(dBm)	(dB)	
90	QPSK	1	1	13.98	13.90	13.73	15.2	0.0	0.0
Channel				649334	656000	662666	Tune-up limit	MPR	
Frequency (MHz)				3743.01	3840	3939.89	(dBm)	(dB)	
80	QPSK	1	1	13.92	13.89	13.73	15.2	0.0	0.0
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	13.99	14.02	13.76	15.2	0.0	0.0
Channel				648668	656000	663332	Tune-up limit	MPR	
Frequency (MHz)				3729.02	3840	3949.86	(dBm)	(dB)	
60	QPSK	1	1	13.88	14.02	13.87	15.2	0.0	0.0
Channel				648334	656000	663666	Tune-up limit	MPR	
Frequency (MHz)				3723.01	3840	3954.86	(dBm)	(dB)	
50	QPSK	1	1	13.95	14.00	13.89	15.2	0.0	0.0
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	13.91	14.04	13.76	15.2	0.0	0.0
Channel				647668	656000	664332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840.00	3964.86	(dBm)	(dB)	
30	QPSK	1	1	13.85	13.87	13.89	15.2	0.0	0.0
Channel				647334	656000	664666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3969.86	(dBm)	(dB)	
20	QPSK	1	1	13.93	13.98	13.73	15.2	0.0	0.0
Channel				647168	656000	664832	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	13.94	14.02	13.77	15.2	0.0	0.0
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	14.00	13.90	13.92	15.2	0.0	0.0

Par270 n77 HPUE_FCC_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				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PV2 BPSK	1	1	13.92	14.11	14.01	15.2	0.0	
100	PV2 BPSK	1	137	13.98	13.98	13.91			
100	PV2 BPSK	1	271	13.93	13.77	13.84			
100	PV2 BPSK	135	0	13.97	14.03	13.94			
100	PV2 BPSK	135	89	13.92	14.08	14.01	15.2	0.0	0.0
100	PV2 BPSK	135	138	13.75	13.92	13.81	15.2	0.0	0.0
100	PV2 BPSK	270	0	14.02	13.76	13.84	15.2	0.0	0.0
100	QPSK	1	1	14.13	14.30	14.12	15.2	0.0	
100	QPSK	1	137	13.90	14.05	13.99			
100	QPSK	1	271	13.81	13.82	13.77			
100	QPSK	135	0	13.90	13.99	13.84			
100	QPSK	135	89	13.82	14.24	13.83	15.2	0.0	0.0
100	QPSK	135	138	13.76	13.77	13.80	15.2	0.0	0.0
100	QPSK	270	0	13.99	14.00	13.84	15.2	0.0	0.0
100	16QAM	1	1	13.91	14.05	13.86	15.2	0.0	0.0
100	16QAM	1	1	13.70	13.98	13.74	15.2	0.0	0.0
100	256QAM	1	1	13.68	13.83	13.74	15.2	0.0	0.0
Channel				649668	656000	662332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3840	3934.86	(dBm)	(dB)	
90	QPSK	1	1	13.98	13.90	13.73	15.2	0.0	0.0
Channel				649334	656000	662666	Tune-up limit	MPR	
Frequency (MHz)				3743.01	3840	3939.89	(dBm)	(dB)	
80	QPSK	1	1	13.92	13.89	13.73	15.2	0.0	0.0
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	13.99	14.02	13.76	15.2	0.0	0.0
Channel				648668	656000	663332	Tune-up limit	MPR	
Frequency (MHz)				3729.02	3840	3949.86	(dBm)	(dB)	
60	QPSK	1	1	13.88	14.02	13.87	15.2	0.0	0.0
Channel				648334	656000	663666	Tune-up limit	MPR	
Frequency (MHz)				3723.01	3840	3954.86	(dBm)	(dB)	
50	QPSK	1	1	13.95	14.00	13.89	15.2	0.0	0.0
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	13.91	14.04	13.76	15.2	0.0	0.0
Channel				647668	656000	664332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840.00	3964.86	(dBm)	(dB)	
30	QPSK	1	1	13.85	13.87	13.89	15.2	0.0	0.0
Channel				647334	656000	664666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3969.86	(dBm)	(dB)	
20	QPSK	1	1	13.93	13.98	13.73	15.2	0.0	0.0
Channel				647168	656000	664832	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	13.94	14.02	13.77	15.2	0.0	0.0
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	14.00	13.90	13.92	15.2	0.0	0.0



Par27Q n77_FCC_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	633332				
Frequency (MHz)				3499.98	3499.98				
100	PV2 BPSK	1	1	14.11	14.11		15.2	0.0	
100	PV2 BPSK	1	137	14.04	14.04				
100	PV2 BPSK	1	271	13.87	13.87				
100	PV2 BPSK	135	0	13.92	13.92		15.2	0.0	
100	PV2 BPSK	135	69	14.10	14.10		15.2	0.0	
100	PV2 BPSK	135	138	13.87	13.87		15.2	0.0	
100	PV2 BPSK	270	0	13.89	13.89		15.2	0.0	
100	QPSK	1	1	14.21	14.21		15.2	0.0	
100	QPSK	1	137	13.93	13.93				
100	QPSK	1	271	13.86	13.86				
100	QPSK	135	0	13.97	13.97		15.2	0.0	
100	QPSK	135	69	14.12	14.12				
100	QPSK	135	138	13.80	13.80				
100	QPSK	270	0	13.90	13.90		15.2	0.0	
100	16QAM	1	1	13.96	13.96		15.2	0.0	
100	16QAM	1	1	13.89	13.89		15.2	0.0	
100	256QAM	1	1	13.78	13.78		15.2	0.0	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3505.99	(dBm)	(dB)	
90	QPSK	1	1	14.01	14.05	13.84	15.2	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3499.98	3509.98	(dBm)	(dB)	
80	QPSK	1	1	14.00	14.02	14.01	15.2	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	13.99	14.08	13.89	15.2	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)	
60	QPSK	1	1	14.12	14.06	14.01	15.2	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1	14.02	14.03	13.87	15.2	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1	14.11	14.13	13.94	15.2	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	14.08	14.12	13.89	15.2	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1	14.08	14.16	13.99	15.2	0.0	
Channel				630500	633332	636166	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3499.98	3542.45	(dBm)	(dB)	
15	QPSK	1	1	14.18	14.10	13.92	15.2	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1	14.08	14.08	13.89	15.2	0.0	

Par27Q n77 HPUE_FCC_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	633332				
Frequency (MHz)				3499.98	3499.98				
100	PV2 BPSK	1	1	14.11	14.11		15.2	0.0	
100	PV2 BPSK	1	137	14.04	14.04				
100	PV2 BPSK	1	271	13.87	13.87				
100	PV2 BPSK	135	0	13.92	13.92		15.2	0.0	
100	PV2 BPSK	135	69	14.10	14.10		15.2	0.0	
100	PV2 BPSK	135	138	13.87	13.87		15.2	0.0	
100	PV2 BPSK	270	0	13.89	13.89		15.2	0.0	
100	QPSK	1	1	14.21	14.21		15.2	0.0	
100	QPSK	1	137	13.93	13.93				
100	QPSK	1	271	13.86	13.86				
100	QPSK	135	0	13.97	13.97		15.2	0.0	
100	QPSK	135	69	14.12	14.12				
100	QPSK	135	138	13.80	13.80				
100	QPSK	270	0	13.90	13.90		15.2	0.0	
100	16QAM	1	1	13.96	13.96		15.2	0.0	
100	16QAM	1	1	13.89	13.89		15.2	0.0	
100	256QAM	1	1	13.78	13.78		15.2	0.0	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3505.99	(dBm)	(dB)	
90	QPSK	1	1	14.01	14.05	13.84	15.2	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3499.98	3509.98	(dBm)	(dB)	
80	QPSK	1	1	14.00	14.02	14.01	15.2	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	13.99	14.08	13.89	15.2	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)	
60	QPSK	1	1	14.12	14.06	14.01	15.2	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1	14.02	14.03	13.87	15.2	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1	14.11	14.13	13.94	15.2	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	14.08	14.12	13.89	15.2	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1	14.08	14.16	13.99	15.2	0.0	
Channel				630500	633332	636166	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3499.98	3542.45	(dBm)	(dB)	
15	QPSK	1	1	14.18	14.10	13.92	15.2	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1	14.08	14.08	13.89	15.2	0.0	



Par27O n77_FCC_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	66000	66000	15.2	0.0	
Frequency (MHz)				3750	3840	3930			
100	QPSK	1	1	14.05	14.25	14.04			
100	QPSK	1	137	13.90	14.01	13.82			
100	QPSK	1	271	13.72	13.69	13.62	15.2	0.0	
100	QPSK	137	0	13.90	13.82	13.66			
100	QPSK	137	68	13.76	14.12	13.70			
100	QPSK	137	136	13.88	13.85	13.80			
100	QPSK	273	0	14.05	14.10	14.02	15.2	0.0	
100	16QAM	1	1	13.74	13.82	13.82	15.2	0.0	
100	84QAM	1	1	13.70	13.55	13.55	15.2	0.0	
100	256QAM	1	1	13.55	13.70	13.70	15.2	0.0	
Channel				65088	66000	66032	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)	
90	QPSK	1	1	13.76	13.88	13.88	15.2	0.0	
Channel				65094	66000	66006	Tune-up limit	MPR	
Frequency (MHz)				3749.01	3840	3939.99	(dBm)	(dB)	
80	QPSK	1	1	13.60	13.52	13.97	15.2	0.0	
Channel				65090	65000	66000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	13.76	14.04	13.86	15.2	0.0	
Channel				64868	65000	66332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3949.98	(dBm)	(dB)	
60	QPSK	1	1	13.75	13.59	13.83	15.2	0.0	
Channel				64834	65000	66066	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	13.60	13.50	13.51	15.2	0.0	
Channel				64800	65000	66400	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	13.84	13.59	13.84	15.2	0.0	
Channel				64768	65000	66432	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840.00	3964.98	(dBm)	(dB)	
30	QPSK	1	1	13.77	13.53	13.94	15.2	0.0	
Channel				64734	65000	66466	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	13.89	14.03	13.72	15.2	0.0	
Channel				64768	65000	66482	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	13.72	13.55	13.85	15.2	0.0	
Channel				64700	65000	66500	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	13.76	13.51	13.80	15.2	0.0	

Par27Q n77_FCC_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)										
100	QPSK	1	1		14.10		15.2	0.0		
100	QPSK	1	137		13.57					
100	QPSK	1	271		13.72					
100	QPSK	137	0		13.72					
100	QPSK	137	68		14.05		15.2	0.0		
100	QPSK	137	138		13.55					
100	QPSK	273	0		13.80					
100	16QAM	1	1		13.67					
100	84QAM	1	1		13.76		15.2	0.0		
100	256QAM	1	1		13.66		15.2	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	633000	633332	633666	Tune-up limit	MPR		
				3495	3499.98	3504.99	(dBm)	(dB)		
80	QPSK	1	1	63295	633332	634000	Tune-up limit	MPR		
				3499.02	3499.98	3510	(dBm)	(dB)		
Channel										
Frequency (MHz)										
70	QPSK	1	1	63254	633332	634356	Tune-up limit	MPR		
				3485.01	3499.98	3514.98	(dBm)	(dB)		
Channel										
Frequency (MHz)										
60	QPSK	1	1	63200	633332	634666	Tune-up limit	MPR		
				3480	3499.98	3519.99	(dBm)	(dB)		
Channel										
Frequency (MHz)										
50	QPSK	1	1	63166	633332	635000	Tune-up limit	MPR		
				3475.02	3499.98	3525	(dBm)	(dB)		
Channel										
Frequency (MHz)										
40	QPSK	1	1	63134	633332	635356	Tune-up limit	MPR		
				3470.01	3499.98	3529.98	(dBm)	(dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	1	63100	633332	635666	Tune-up limit	MPR		
				3465	3499.98	3534.99	(dBm)	(dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	63068	633332	636000	Tune-up limit	MPR		
				3460.02	3499.98	3540	(dBm)	(dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	1	63050	633332	636166	Tune-up limit	MPR		
				3457.5	3499.98	3542.49	(dBm)	(dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	1	63034	633332	636332	Tune-up limit	MPR		
				3455.01	3499.98	3544.98	(dBm)	(dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	1	63035	13.85	13.89	15.2	0.0		



Par270 n77_FCC_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)				3750	3840	3930			
100	PV2 BPSK	1	1	20.38	20.45	20.34	21.7	0.0	
100	PV2 BPSK	1	137	20.41	20.40	20.41			
100	PV2 BPSK	1	271	20.49	20.47	20.38			
100	PV2 BPSK	135	0	20.30	20.44	20.35	21.7	0.0	
100	PV2 BPSK	135	89	20.41	20.40	20.32	21.7	0.0	
100	PV2 BPSK	135	136	20.37	20.35	20.35	21.7	0.0	
100	PV2 BPSK	270	0	20.28	20.33	20.31	21.7	0.0	
100	QPSK	1	1	20.41	20.32	20.50			
100	QPSK	1	137	20.37	20.45	20.30			
100	QPSK	1	271	20.41	20.39	20.27	21.7	0.0	
100	QPSK	135	0	20.44	20.46	20.46			
100	QPSK	135	89	20.32	20.47	20.43			
100	QPSK	135	136	20.38	20.35	20.20	21.7	0.0	
100	QPSK	270	0	20.38	20.43	20.42			
100	16QAM	1	1	20.14	20.16	20.12	21.7	0.0	
100	16QAM	1	1	19.30	19.23	19.27	20.2	1.5	
100	256QAM	1	1	17.42	17.35	17.45	19.2	3.5	
Channel				649668	656000	662332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)	
90	QPSK	1	1	20.31	20.46	20.45	21.7	0.0	
Channel				649334	656000	662666	Tune-up limit	MPR	
Frequency (MHz)				3743.01	3840	3936.99	(dBm)	(dB)	
80	QPSK	1	1	20.48	20.40	20.44	21.7	0.0	
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	20.46	20.29	20.39	21.7	0.0	
Channel				648668	656000	663332	Tune-up limit	MPR	
Frequency (MHz)				3728.02	3840	3948.98	(dBm)	(dB)	
60	QPSK	1	1	20.31	20.27	20.44	21.7	0.0	
Channel				648334	656000	663666	Tune-up limit	MPR	
Frequency (MHz)				3724.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	20.36	20.41	20.45	21.7	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	20.41	20.40	20.36	21.7	0.0	
Channel				647668	656000	664332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840.00	3964.98	(dBm)	(dB)	
30	QPSK	1	1	20.32	20.36	20.40	21.7	0.0	
Channel				647500	656000	664500	Tune-up limit	MPR	
Frequency (MHz)				3712.5	3840.00	3967.50	(dBm)	(dB)	
25	QPSK	1	1	20.34	20.42	20.41	21.7	0.0	
Channel				647334	656000	664666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	20.48	20.43	20.48	21.7	0.0	
Channel				647168	656000	664832	Tune-up limit	MPR	
Frequency (MHz)				3707.25	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	20.32	20.36	20.44	21.7	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	20.37	20.45	20.50	21.7	0.0	

Par270 n77 HPUE_FCC_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)				3750	3840	3930			
100	PV2 BPSK	1	1	20.38	20.45	20.34	21.7	0.0	
100	PV2 BPSK	1	137	20.41	20.40	20.41			
100	PV2 BPSK	1	271	20.49	20.47	20.38			
100	PV2 BPSK	135	0	20.30	20.44	20.35	21.7	0.0	
100	PV2 BPSK	135	89	20.41	20.40	20.32	21.7	0.0	
100	PV2 BPSK	135	136	20.37	20.35	20.35	21.7	0.0	
100	PV2 BPSK	270	0	20.28	20.33	20.31	21.7	0.0	
100	QPSK	1	1	20.41	20.32	20.50			
100	QPSK	1	137	20.37	20.45	20.30			
100	QPSK	1	271	20.41	20.39	20.27	21.7	0.0	
100	QPSK	135	0	20.44	20.46	20.46			
100	QPSK	135	89	20.32	20.47	20.43			
100	QPSK	135	136	20.38	20.35	20.20	21.7	0.0	
100	QPSK	270	0	20.38	20.43	20.42			
100	16QAM	1	1	20.14	20.16	20.12	21.7	0.0	
100	16QAM	1	1	19.30	19.23	19.27	20.2	1.5	
100	256QAM	1	1	17.42	17.35	17.45	19.2	3.5	
Channel				649668	656000	662332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)	
90	QPSK	1	1	20.31	20.46	20.45	21.7	0.0	
Channel				649334	656000	662666	Tune-up limit	MPR	
Frequency (MHz)				3743.01	3840	3936.99	(dBm)	(dB)	
80	QPSK	1	1	20.48	20.40	20.44	21.7	0.0	
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	20.46	20.29	20.39	21.7	0.0	
Channel				648668	656000	663332	Tune-up limit	MPR	
Frequency (MHz)				3728.02	3840	3948.98	(dBm)	(dB)	
60	QPSK	1	1	20.31	20.27	20.44	21.7	0.0	
Channel				648334	656000	663666	Tune-up limit	MPR	
Frequency (MHz)				3724.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	20.36	20.41	20.45	21.7	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	20.41	20.40	20.36	21.7	0.0	
Channel				647668	656000	664332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840.00	3964.98	(dBm)	(dB)	
30	QPSK	1	1	20.32	20.36	20.40	21.7	0.0	
Channel				647500	656000	664500	Tune-up limit	MPR	
Frequency (MHz)				3712.5	3840.00	3967.50	(dBm)	(dB)	
25	QPSK	1	1	20.34	20.42	20.41	21.7	0.0	
Channel				647334	656000	664666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	20.48	20.43	20.48	21.7	0.0	
Channel				647168	656000	664832	Tune-up limit	MPR	
Frequency (MHz)				3707.25	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	20.32	20.36	20.44	21.7	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	20.37	20.45	20.50	21.7	0.0	



Par27Q n77_FCC_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	633332				
Frequency (MHz)				3499.98	3499.98				
100	PV2 BPSK	1	1	20.56			21.7	0.0	
100	PV2 BPSK	1	137	20.49					
100	PV2 BPSK	1	271	20.61					
100	PV2 BPSK	135	0	20.59			21.7	0.0	
100	PV2 BPSK	135	69	20.39			21.7	0.0	
100	PV2 BPSK	135	136	20.43			21.7	0.0	
100	PV2 BPSK	270	0	20.47					
100	QPSK	1	1	20.66					
100	QPSK	1	137	20.63			21.7	0.0	
100	QPSK	1	271	20.48					
100	QPSK	135	0	20.49					
100	QPSK	135	69	20.52			21.7	0.0	
100	QPSK	135	136	20.39					
100	QPSK	270	0	20.41					
100	16QAM	1	1	20.62			21.7	0.0	
100	16QAM	1	1	19.23			20.2	1.5	
100	256QAM	1	1	17.34			19.2	3.5	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	20.43	20.39	20.38	21.7	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3498.02	3499.98	3501.94	(dBm)	(dB)	
80	QPSK	1	1	20.42	20.28	20.54	21.7	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3498.01	3499.98	3501.98	(dBm)	(dB)	
70	QPSK	1	1	20.43	20.39	20.43	21.7	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3490	3499.98	3509.99	(dBm)	(dB)	
60	QPSK	1	1	20.34	20.35	20.52	21.7	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3496.02	3499.98	3505	(dBm)	(dB)	
50	QPSK	1	1	20.34	20.38	20.52	21.7	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3491.01	3499.98	3509.98	(dBm)	(dB)	
40	QPSK	1	1	20.33	20.45	20.40	21.7	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3485	3499.98	3504.99	(dBm)	(dB)	
30	QPSK	1	1	20.31	20.32	20.53	21.7	0.0	
Channel				630634	633332	635832	Tune-up limit	MPR	
Frequency (MHz)				3489.51	3499.98	3507.48	(dBm)	(dB)	
25	QPSK	1	1	20.26	20.33	20.55	21.7	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3489.02	3499.98	3500	(dBm)	(dB)	
20	QPSK	1	1	20.43	20.29	20.37	21.7	0.0	
Channel				630500	633332	636166	Tune-up limit	MPR	
Frequency (MHz)				3487.5	3499.98	3502.45	(dBm)	(dB)	
15	QPSK	1	1	20.39	20.33	20.39	21.7	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3504.98	(dBm)	(dB)	
10	QPSK	1	1	20.28	20.41	20.48	21.7	0.0	

Par27Q n77 HPUE_FCC_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	633332				
Frequency (MHz)				3499.98	3499.98				
100	PV2 BPSK	1	1	20.56			21.7	0.0	
100	PV2 BPSK	1	137	20.49					
100	PV2 BPSK	1	271	20.61					
100	PV2 BPSK	135	0	20.59			21.7	0.0	
100	PV2 BPSK	135	69	20.39			21.7	0.0	
100	PV2 BPSK	135	136	20.43			21.7	0.0	
100	PV2 BPSK	270	0	20.47					
100	QPSK	1	1	20.66					
100	QPSK	1	137	20.63			21.7	0.0	
100	QPSK	1	271	20.48					
100	QPSK	135	0	20.49					
100	QPSK	135	69	20.52			21.7	0.0	
100	QPSK	135	136	20.39					
100	QPSK	270	0	20.41					
100	16QAM	1	1	20.62			21.7	0.0	
100	16QAM	1	1	19.23			20.2	1.5	
100	256QAM	1	1	17.34			19.2	3.5	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	20.43	20.39	20.38	21.7	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3498.02	3499.98	3501.94	(dBm)	(dB)	
80	QPSK	1	1	20.42	20.28	20.54	21.7	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3498.01	3499.98	3501.98	(dBm)	(dB)	
70	QPSK	1	1	20.43	20.39	20.43	21.7	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3490	3499.98	3509.99	(dBm)	(dB)	
60	QPSK	1	1	20.34	20.35	20.52	21.7	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3496.02	3499.98	3505	(dBm)	(dB)	
50	QPSK	1	1	20.34	20.38	20.52	21.7	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3491.01	3499.98	3509.98	(dBm)	(dB)	
40	QPSK	1	1	20.33	20.45	20.40	21.7	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3485	3499.98	3504.99	(dBm)	(dB)	
30	QPSK	1	1	20.31	20.32	20.53	21.7	0.0	
Channel				630634	633332	635832	Tune-up limit	MPR	
Frequency (MHz)				3489.51	3499.98	3507.48	(dBm)	(dB)	
25	QPSK	1	1	20.26	20.33	20.55	21.7	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3489.02	3499.98	3500	(dBm)	(dB)	
20	QPSK	1	1	20.43	20.29	20.37	21.7	0.0	
Channel				630500	633332	636166	Tune-up limit	MPR	
Frequency (MHz)				3487.5	3499.98	3502.45	(dBm)	(dB)	
15	QPSK	1	1	20.39	20.33	20.39	21.7	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3504.98	(dBm)	(dB)	
10	QPSK	1	1	20.28	20.41	20.48	21.7	0.0	



Par27O n77_FCC_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	660000	660000	20.7	0.0	
Frequency (MHz)				3750	3840	3930			
100	QPSK	1	1	20.00	20.05	19.99			
100	QPSK	1	137	19.96	19.92	19.77			
100	QPSK	1	271	19.80	19.79	19.80	20.7	0.0	
100	QPSK	137	0	20.00	19.91	19.63			
100	QPSK	137	68	19.97	19.92	19.66			
100	QPSK	137	136	19.85	19.78	19.47			
100	QPSK	273	0	20.00	19.92	19.65	20.7	0.0	
100	16QAM	1	1	19.94	19.98	19.45	20.7	0.0	
100	84QAM	1	1	20.02	19.95	19.82	20.7	0.0	
100	256QAM	1	1	17.33	17.24	17.16	19.2	2.5	
Channel				650000	660000	660000	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)	
90	QPSK	1	1	19.87	19.82	19.81	20.7	0.0	
Channel				650333	660000	660000	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)	
80	QPSK	1	1	20.00	19.93	19.70	20.7	0.0	
Channel				650000	660000	660000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	20.00	20.02	19.70	20.7	0.0	
Channel				649668	660000	660000	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3949.98	(dBm)	(dB)	
60	QPSK	1	1	19.53	19.48	19.35	20.7	0.0	
Channel				648334	660000	660666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	19.18	19.13	19.15	20.7	0.0	
Channel				648000	660000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	19.85	19.82	19.60	20.7	0.0	
Channel				647668	660000	664332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840.00	3964.98	(dBm)	(dB)	
30	QPSK	1	1	19.07	19.00	19.72	20.7	0.0	
Channel				647334	660000	664666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	19.10	19.19	19.79	20.7	0.0	
Channel				647168	660000	664832	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	19.09	19.94	19.79	20.7	0.0	
Channel				647000	660000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	19.84	19.82	19.80	20.7	0.0	

Par27Q n77_FCC_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				633000	633332	633332	20.7	0.0	
Frequency (MHz)				3495	3499.98	3504.99			
100	QPSK	1	1	20.11	19.99	20.14			
100	QPSK	1	137	20.00	19.92	19.70			
100	QPSK	1	271	20.08	20.07	20.08	20.7	0.0	
100	QPSK	137	0	20.07	20.00	19.88			
100	QPSK	137	68	20.00	20.03	19.88			
100	QPSK	137	136	20.00	20.03	19.88			
100	QPSK	273	0	20.10	20.10	20.10	20.7	0.0	
100	16QAM	1	1	20.10	20.10	20.10	20.7	0.0	
100	84QAM	1	1	20.13	20.13	20.13	20.7	0.0	
100	256QAM	1	1	17.35	17.35	17.35	19.2	2.5	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	20.11	19.99	20.14	20.7	0.0	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3499.98	3510	(dBm)	(dB)	
80	QPSK	1	1	20.14	20.10	20.12	20.7	0.0	
Channel				633334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	19.88	19.88	20.00	20.7	0.0	
Channel				633000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.98	(dBm)	(dB)	
60	QPSK	1	1	20.02	19.98	19.97	20.7	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1	19.87	19.86	19.89	20.7	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1	20.02	19.99	20.00	20.7	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	20.10	20.04	20.10	20.7	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1	20.12	20.15	20.10	20.7	0.0	
Channel				630500	633332	636166	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3499.98	3542.49	(dBm)	(dB)	
15	QPSK	1	1	20.05	19.97	19.99	20.7	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1	19.97	20.14	20.08	20.7	0.0	



Par270 n77_FCC_ANT 10									
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	PV2 BPSK	1	1	13.04	13.13	13.13	14.7	0.0	
100	PV2 BPSK	1	137	13.11	13.23	13.18			
100	PV2 BPSK	1	271	13.09	13.14	13.12			
100	PV2 BPSK	135	0	13.16	13.18	13.11	14.7	0.0	
100	PV2 BPSK	135	89	13.10	13.24	13.21	14.7	0.0	
100	PV2 BPSK	135	136	13.11	13.15	13.13	14.7	0.0	
100	PV2 BPSK	270	0	13.02	13.19	13.13	14.7	0.0	
100	QPSK	1	1	13.30	13.41	13.35			
100	QPSK	1	137	13.15	13.32	13.21			
100	QPSK	1	271	13.15	13.15	13.12	14.7	0.0	
100	QPSK	135	0	13.05	13.18	13.10			
100	QPSK	135	89	13.05	13.20	13.18			
100	QPSK	135	136	13.13	13.16	13.17	14.7	0.0	
100	QPSK	270	0	13.12	13.27	13.10			
100	16QAM	1	1	13.16	13.34	13.27			
100	16QAM	1	1	13.17	13.40	13.36	14.7	0.0	
100	256QAM	1	1	13.24	13.20	13.20	14.7	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	13.24	13.31	13.20	14.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.20	13.31	13.09	14.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	13.32	13.30	13.21	14.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	13.25	13.29	13.14	14.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.18	13.31	13.10	14.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	13.25	13.24	13.20	14.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.21	13.29	13.15	14.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.18	13.28	13.12	14.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.19	13.21	13.08	14.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.18	13.26	13.21	14.7	0.0	

Par270 n77 HPUE_FCC_ANT 10									
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	PV2 BPSK	1	1	13.04	13.13	13.13	14.7	0.0	
100	PV2 BPSK	1	137	13.11	13.23	13.18			
100	PV2 BPSK	1	271	13.09	13.14	13.12			
100	PV2 BPSK	135	0	13.16	13.18	13.11	14.7	0.0	
100	PV2 BPSK	135	89	13.10	13.24	13.21	14.7	0.0	
100	PV2 BPSK	135	136	13.11	13.15	13.13	14.7	0.0	
100	PV2 BPSK	270	0	13.02	13.19	13.13	14.7	0.0	
100	QPSK	1	1	13.30	13.41	13.35			
100	QPSK	1	137	13.15	13.32	13.21			
100	QPSK	1	271	13.15	13.15	13.12	14.7	0.0	
100	QPSK	135	0	13.05	13.20	13.18			
100	QPSK	135	89	13.05	13.16	13.10			
100	QPSK	135	136	13.13	13.16	13.17	14.7	0.0	
100	QPSK	270	0	13.12	13.27	13.10			
100	16QAM	1	1	13.16	13.34	13.27			
100	16QAM	1	1	13.17	13.40	13.36	14.7	0.0	
100	256QAM	1	1	13.24	13.20	13.20	14.7	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	13.24	13.31	13.20	14.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.20	13.31	13.09	14.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	13.32	13.30	13.21	14.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	13.25	13.29	13.14	14.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.18	13.31	13.10	14.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	13.25	13.24	13.20	14.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.21	13.29	13.15	14.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.18	13.28	13.12	14.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.19	13.21	13.08	14.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.18	13.26	13.21	14.7	0.0	



Par27Q n77_FCC_ANT 10									
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	3499.98	3499.98			
100	PV2 BPSK	1	1	13.37	13.37				
100	PV2 BPSK	1	137	13.44	13.44				
100	PV2 BPSK	1	271	13.55	13.55				
100	PV2 BPSK	135	0	13.52	13.52		14.7	0.0	
100	PV2 BPSK	135	69	13.36	13.36		14.7	0.0	
100	PV2 BPSK	135	136	13.40	13.40		14.7	0.0	
100	PV2 BPSK	270	0	13.47	13.47				
100	QPSK	1	1	13.54	13.54				
100	QPSK	1	137	13.27	13.27		14.7	0.0	
100	QPSK	1	271	13.39	13.39				
100	QPSK	135	0	13.42	13.42				
100	QPSK	135	69	13.57	13.57		14.7	0.0	
100	QPSK	135	136	13.47	13.47				
100	QPSK	270	0	13.46	13.46		14.7	0.0	
100	16QAM	1	1	13.59	13.59		14.7	0.0	
100	16QAM	1	1	13.48	13.48		14.7	0.0	
100	256QAM	1	1	13.60	13.60		14.7	0.0	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	13.37	13.43	13.45	14.7	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3498.02	3499.98	3501.94	(dBm)	(dB)	
80	QPSK	1	1	13.47	13.34	13.42	14.7	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3498.01	3499.98	3501.96	(dBm)	(dB)	
70	QPSK	1	1	13.42	13.42	13.38	14.7	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3490	3499.98	3509.99	(dBm)	(dB)	
60	QPSK	1	1	13.33	13.32	13.35	14.7	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3478.02	3499.98	3520	(dBm)	(dB)	
50	QPSK	1	1	13.44	13.45	13.42	14.7	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3520.01	(dBm)	(dB)	
40	QPSK	1	1	13.38	13.39	13.45	14.7	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	13.43	13.44	13.41	14.7	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1	13.32	13.37	13.34	14.7	0.0	
Channel				630500	633332	636166	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3499.98	3542.45	(dBm)	(dB)	
15	QPSK	1	1	13.38	13.36	13.44	14.7	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1	13.45	13.42	13.33	14.7	0.0	

Par27Q n77 HPUE_FCC_ANT 10									
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	3499.98	3499.98			
100	PV2 BPSK	1	1	13.37	13.37				
100	PV2 BPSK	1	137	13.44	13.44		14.7	0.0	
100	PV2 BPSK	1	271	13.55	13.55				
100	PV2 BPSK	135	0	13.52	13.52		14.7	0.0	
100	PV2 BPSK	135	69	13.36	13.36		14.7	0.0	
100	PV2 BPSK	135	136	13.40	13.40		14.7	0.0	
100	PV2 BPSK	270	0	13.47	13.47				
100	QPSK	1	1	13.54	13.54				
100	QPSK	1	137	13.27	13.27		14.7	0.0	
100	QPSK	1	271	13.39	13.39				
100	QPSK	135	0	13.42	13.42				
100	QPSK	135	69	13.57	13.57		14.7	0.0	
100	QPSK	135	136	13.47	13.47				
100	QPSK	270	0	13.46	13.46		14.7	0.0	
100	16QAM	1	1	13.59	13.59		14.7	0.0	
100	16QAM	1	1	13.48	13.48		14.7	0.0	
100	256QAM	1	1	13.60	13.60		14.7	0.0	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	13.37	13.43	13.45	14.7	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3498.02	3499.98	3501.94	(dBm)	(dB)	
80	QPSK	1	1	13.47	13.34	13.42	14.7	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3498.01	3499.98	3501.96	(dBm)	(dB)	
70	QPSK	1	1	13.42	13.42	13.38	14.7	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3490	3499.98	3509.99	(dBm)	(dB)	
60	QPSK	1	1	13.33	13.32	13.35	14.7	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3478.02	3499.98	3520	(dBm)	(dB)	
50	QPSK	1	1	13.44	13.45	13.42	14.7	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3520.01	(dBm)	(dB)	
40	QPSK	1	1	13.38	13.39	13.45	14.7	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	13.43	13.44	13.41	14.7	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1	13.32	13.37	13.34	14.7	0.0	
Channel				630500	633332	636166	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3499.98	3542.45	(dBm)	(dB)	
15	QPSK	1	1	13.38	13.36	13.44	14.7	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1	13.45	13.42	13.33	14.7	0.0	



Par270 n77_FCC_ANT 10									
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)				65000	65000	65000	14.7	0.0	
100	QPSK	1	1	3750	3540	3530			
100	QPSK	1	137	13.29	13.35	13.22			
100	QPSK	1	271	13.09	13.32	13.05			
100	QPSK	1	271	13.10	13.01	12.98			
100	QPSK	137	0	13.02	13.18	13.07	14.7	0.0	
100	QPSK	137	68	13.01	13.19	13.15			
100	QPSK	137	136	13.00	13.14	13.11			
100	QPSK	273	0	13.11	13.18	12.97			0.0
100	16QAM	1	1	13.16	13.18	13.08			0.0
100	84QAM	1	1	12.98	13.21	13.32	14.7	0.0	
100	256QAM	1	1	13.20	13.13	13.13	14.7	0.0	
Channel				65068	65000	65032	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3540	3534.98	(dBm)	(dB)	
90	QPSK	1	1	13.27	13.15	13.15	14.7	0.0	
Channel				65033	65000	65066	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3540	3539.99	(dBm)	(dB)	
80	QPSK	1	1	13.19	13.22	13.22	14.7	0.0	
Channel				64900	65000	65000	Tune-up limit	MPR	
Frequency (MHz)				3735	3540	3545	(dBm)	(dB)	
70	QPSK	1	1	13.11	13.14	13.20	14.7	0.0	
Channel				64868	65000	65032	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3540	3549.98	(dBm)	(dB)	
60	QPSK	1	1	13.22	13.14	13.22	14.7	0.0	
Channel				64834	65000	65066	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3540	3554.99	(dBm)	(dB)	
50	QPSK	1	1	13.24	13.33	13.33	14.7	0.0	
Channel				64800	65000	65000	Tune-up limit	MPR	
Frequency (MHz)				3720	3540	3550	(dBm)	(dB)	
40	QPSK	1	1	13.14	13.29	13.10	14.7	0.0	
Channel				64768	65000	65432	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3540.00	3554.98	(dBm)	(dB)	
30	QPSK	1	1	13.16	13.22	13.22	14.7	0.0	
Channel				64734	65000	65466	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3540	3559.99	(dBm)	(dB)	
20	QPSK	1	1	13.25	13.17	13.12	14.7	0.0	
Channel				64700	65000	65482	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3540	3572.48	(dBm)	(dB)	
15	QPSK	1	1	13.24	13.25	13.30	14.7	0.0	
Channel				64700	65000	65500	Tune-up limit	MPR	
Frequency (MHz)				3705	3540	3575	(dBm)	(dB)	
10	QPSK	1	1	13.23	13.22	13.24	14.7	0.0	

Par27Q n77_FCC_ANT 10									
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)				63300	63332	63300	14.7	0.0	
100	QPSK	1	1	3495	3499.98	3504.99			
100	QPSK	1	137	13.40	13.32	13.52			
100	QPSK	1	271	13.20	13.33	13.47			
100	QPSK	137	0	13.40	13.23	13.47			
100	QPSK	137	68	13.39	13.48	13.48	14.7	0.0	
100	QPSK	137	138	13.43	13.43	13.43			
100	QPSK	273	0	13.35	13.35	13.35			0.0
100	16QAM	1	1	13.52	13.52	13.52			0.0
100	84QAM	1	1	13.41	13.41	13.41			0.0
100	256QAM	1	1	13.52	13.52	13.52	14.7	0.0	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	13.40	13.32	13.52	14.7	0.0	
Channel				63268	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3499.98	3510	(dBm)	(dB)	
80	QPSK	1	1	13.38	13.45	13.54	14.7	0.0	
Channel				63234	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	13.51	13.45	13.59	14.7	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.98	(dBm)	(dB)	
60	QPSK	1	1	13.52	13.35	13.47	14.7	0.0	
Channel				63168	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1	13.35	13.45	13.45	14.7	0.0	
Channel				63134	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1	13.35	13.42	13.47	14.7	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	13.47	13.47	13.49	14.7	0.0	
Channel				63068	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1	13.33	13.11	13.33	14.7	0.0	
Channel				630500	633332	636166	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3499.98	3542.49	(dBm)	(dB)	
15	QPSK	1	1	13.39	13.42	13.45	14.7	0.0	
Channel				63034	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1	13.43	13.37	13.52	14.7	0.0	



Par270 n77_FCC_ANT 13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000 3750	Power Middle Ch. / Freq. 650000 3840	Power High Ch. / Freq. 650000 3930	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
100	PV2 BPSK	1	1	18.16	18.26	18.15	19.7	0.0	0.0
100	PV2 BPSK	1	137	17.90	17.97	17.97			
100	PV2 BPSK	1	271	17.81	17.88	17.86			
100	PV2 BPSK	135	0	18.16	18.17	18.07	19.7	0.0	0.0
100	PV2 BPSK	135	69	17.95	18.00	17.97	19.7	0.0	0.0
100	PV2 BPSK	135	138	17.78	17.88	17.85	19.7	0.0	0.0
100	PV2 BPSK	270	0	18.01	18.05	17.93	1	0.0	0.0
100	QPSK	1	1	18.25	18.31	18.28	19.7	0.0	0.0
100	QPSK	1	137	17.85	18.00	17.97			
100	QPSK	1	271	17.76	17.87	17.74			
100	QPSK	135	0	18.12	18.12	18.03	19.7	0.0	0.0
100	QPSK	135	69	18.12	18.20	18.11			
100	QPSK	135	138	17.90	18.00	17.89			
100	QPSK	270	0	17.97	18.11	17.88	19.7	0.0	0.0
100	16QAM	1	1	18.05	18.13	17.99	19.7	0.0	0.0
100	64QAM	1	1	18.23	18.28	18.13	19.7	0.0	0.0
100	256QAM	1	1	18.16	18.24	18.11	19.7	0.0	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.19	18.18	18.24	19.7	0.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.18	18.18	18.09	19.7	0.0	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.19	18.18	18.11	19.7	0.0	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.20	18.21	18.22	19.7	0.0	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.07	18.18	18.24	19.7	0.0	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.09	18.23	18.12	19.7	0.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.07	18.20	18.13	19.7	0.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.05	18.14	18.17	19.7	0.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.11	18.24	18.18	19.7	0.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.16	18.28	18.24	19.7	0.0	0.0

Par270 n77 HPUE_FCC_ANT 13									
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	PV2 BPSK	1	1	18.16	18.26	18.15	19.7	0.0	0.0
100	PV2 BPSK	1	137	17.90	17.97	17.97			
100	PV2 BPSK	1	271	17.81	17.88	17.86			
100	PV2 BPSK	135	0	18.16	18.17	18.07	19.7	0.0	0.0
100	PV2 BPSK	135	69	17.95	18.00	17.97	19.7	0.0	0.0
100	PV2 BPSK	135	138	17.78	17.88	17.85	19.7	0.0	0.0
100	PV2 BPSK	270	0	18.01	18.05	17.93	19.7	0.0	0.0
100	QPSK	1	1	18.25	18.31	18.28			
100	QPSK	1	137	17.85	18.00	17.97			
100	QPSK	1	271	17.76	17.87	17.74	19.7	0.0	0.0
100	QPSK	135	0	18.12	18.12	18.03			
100	QPSK	135	69	18.12	18.20	18.11			
100	QPSK	135	138	17.90	18.00	17.89	19.7	0.0	0.0
100	QPSK	270	0	17.97	18.11	17.88	19.7	0.0	0.0
100	16QAM	1	1	18.05	18.13	17.99	19.7	0.0	0.0
100	16QAM	1	1	18.23	18.28	18.13	19.7	0.0	0.0
100	256QAM	1	1	18.16	18.24	18.11	19.7	0.0	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.19	18.18	18.24	19.7	0.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.18	18.18	18.09	19.7	0.0	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.19	18.18	18.11	19.7	0.0	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.20	18.21	18.22	19.7	0.0	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.07	18.18	18.24	19.7	0.0	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.09	18.23	18.12	19.7	0.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.07	18.20	18.13	19.7	0.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.05	18.14	18.17	19.7	0.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.11	18.24	18.18	19.7	0.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.16	18.28	18.24	19.7	0.0	0.0



Par27Q n77_FCC_ANT 13									
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	19.7	0.0	
Frequency (MHz)				3499.98	3499.98	3499.98			
100	PV2 BPSK	1	1	18.90	18.90	18.90			
100	PV2 BPSK	1	137	18.85	18.85	18.85	19.7	0.0	
100	PV2 BPSK	1	271	18.68	18.68	18.68			
100	PV2 BPSK	135	0	18.85	18.85	18.85			
100	PV2 BPSK	135	69	18.82	18.82	18.82	19.7	0.0	
100	PV2 BPSK	135	136	18.70	18.70	18.70			
100	PV2 BPSK	270	0	18.75	18.75	18.75			
100	QPSK	1	1	18.92	18.92	18.92	19.7	0.0	
100	QPSK	1	137	18.75	18.75	18.75			
100	QPSK	1	271	18.52	18.52	18.52			
100	QPSK	135	0	18.82	18.82	18.82	19.7	0.0	
100	QPSK	135	69	18.86	18.86	18.86			
100	QPSK	135	136	18.68	18.68	18.68			
100	QPSK	270	0	18.75	18.75	18.75	19.7	0.0	
100	16QAM	1	1	18.70	18.70	18.70			
100	16QAM	1	1	18.82	18.82	18.82			
100	256QAM	1	1	18.74	18.74	18.74	Tune-up limit	MPR	
Channel				633000	633332	633666			
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1	18.84	18.72	18.71	Tune-up limit	MPR	
Channel				632668	633332	634000			
Frequency (MHz)				3493.02	3499.98	3506.94			
80	QPSK	1	1	18.88	18.71	18.71	Tune-up limit	MPR	
Channel				632334	633332	634332			
Frequency (MHz)				3488.01	3499.98	3511.96			
70	QPSK	1	1	18.88	18.77	18.80	Tune-up limit	MPR	
Channel				632000	633332	634666			
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	18.77	18.73	18.85	Tune-up limit	MPR	
Channel				631668	633332	635000			
Frequency (MHz)				3478.02	3499.98	3520.98			
50	QPSK	1	1	18.86	18.74	18.85	Tune-up limit	MPR	
Channel				631334	633332	635332			
Frequency (MHz)				3471.01	3499.98	3529.98			
40	QPSK	1	1	18.76	18.76	18.81	Tune-up limit	MPR	
Channel				631000	633332	635666			
Frequency (MHz)				3465	3499.98	3534.98			
30	QPSK	1	1	18.90	18.73	18.80	Tune-up limit	MPR	
Channel				630668	633332	636000			
Frequency (MHz)				3460.02	3499.98	3540.98			
20	QPSK	1	1	18.88	18.76	18.78	Tune-up limit	MPR	
Channel				630500	633332	636166			
Frequency (MHz)				3457.5	3499.98	3542.45			
15	QPSK	1	1	18.84	18.73	18.83	Tune-up limit	MPR	
Channel				630334	633332	636332			
Frequency (MHz)				3455.01	3499.98	3544.98			
10	QPSK	1	1	18.80	18.84	18.75	Tune-up limit	MPR	
Channel				630000	633332	636666			
Frequency (MHz)				3450	3499.98	3550.98			

Par27Q n77 HPUE_FCC_ANT 13									
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	19.7	0.0	
Frequency (MHz)				3499.98	3499.98	3499.98			
100	PV2 BPSK	1	1	18.90	18.90	18.90			
100	PV2 BPSK	1	137	18.85	18.85	18.85	19.7	0.0	
100	PV2 BPSK	1	271	18.68	18.68	18.68			
100	PV2 BPSK	135	0	18.85	18.85	18.85			
100	PV2 BPSK	135	69	18.82	18.82	18.82	19.7	0.0	
100	PV2 BPSK	135	136	18.70	18.70	18.70			
100	PV2 BPSK	270	0	18.75	18.75	18.75			
100	QPSK	1	1	18.92	18.92	18.92	19.7	0.0	
100	QPSK	1	137	18.75	18.75	18.75			
100	QPSK	1	271	18.52	18.52	18.52			
100	QPSK	135	0	18.82	18.82	18.82	19.7	0.0	
100	QPSK	135	69	18.86	18.86	18.86			
100	QPSK	135	136	18.68	18.68	18.68			
100	QPSK	270	0	18.75	18.75	18.75	19.7	0.0	
100	16QAM	1	1	18.70	18.70	18.70			
100	16QAM	1	1	18.82	18.82	18.82			
100	256QAM	1	1	18.74	18.74	18.74	Tune-up limit	MPR	
Channel				633000	633332	633666			
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1	18.84	18.72	18.71	Tune-up limit	MPR	
Channel				632668	633332	634000			
Frequency (MHz)				3493.02	3499.98	3506.94			
80	QPSK	1	1	18.88	18.71	18.71	Tune-up limit	MPR	
Channel				632334	633332	634332			
Frequency (MHz)				3488.01	3499.98	3511.96			
70	QPSK	1	1	18.88	18.77	18.80	Tune-up limit	MPR	
Channel				632000	633332	634666			
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	18.77	18.73	18.85	Tune-up limit	MPR	
Channel				631668	633332	635000			
Frequency (MHz)				3478.02	3499.98	3520.98			
50	QPSK	1	1	18.86	18.74	18.85	Tune-up limit	MPR	
Channel				631334	633332	635332			
Frequency (MHz)				3471.01	3499.98	3529.98			
40	QPSK	1	1	18.76	18.76	18.81	Tune-up limit	MPR	
Channel				631000	633332	635666			
Frequency (MHz)				3465	3499.98	3534.98			
30	QPSK	1	1	18.90	18.73	18.80	Tune-up limit	MPR	
Channel				630668	633332	636000			
Frequency (MHz)				3460.02	3499.98	3540.98			
20	QPSK	1	1	18.88	18.76	18.78	Tune-up limit	MPR	
Channel				630500	633332	636166			
Frequency (MHz)				3457.5	3499.98	3542.45			
15	QPSK	1	1	18.84	18.73	18.83	Tune-up limit	MPR	
Channel				630334	633332	636332			
Frequency (MHz)				3455.01	3499.98	3544.98			
10	QPSK	1	1	18.80	18.84	18.75	Tune-up limit	MPR	
Channel				630000	633332	636666			
Frequency (MHz)				3450	3499.98	3550.98			



Par270 n77_FCC_ANT 13									
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)				65000	3540	8500	19.7	0.0	
100	QPSK	1	1	18.15	18.30	18.16			
100	QPSK	1	137	17.81	17.89	17.84			
100	QPSK	1	271	17.66	17.77	17.63			
100	QPSK	137	0	18.09	18.08	17.93	19.7	0.0	
100	QPSK	137	68	18.03	18.19	18.03			
100	QPSK	137	136	17.81	17.97	17.72			
100	QPSK	273	0	17.82	18.04	17.94			
100	16QAM	1	1	17.97	18.12	17.92	19.7	0.0	
100	84QAM	1	1	18.17	18.21	18.08	19.7	0.0	
100	256QAM	1	1	18.13	18.23	17.96	19.7	0.0	
Channel				65068	65000	66032	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)	
90	QPSK	1	1	18.22	18.17	18.04	19.7	0.0	
Channel				65035	65000	66058	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)	
80	QPSK	1	1	18.16	18.10	18.00	19.7	0.0	
Channel				65000	65000	66000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	18.22	18.22	18.10	19.7	0.0	
Channel				64868	65000	66032	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3949.98	(dBm)	(dB)	
60	QPSK	1	1	18.16	18.20	18.10	19.7	0.0	
Channel				64834	65000	66066	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	18.20	18.22	18.15	19.7	0.0	
Channel				64800	65000	66000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	18.09	18.18	18.05	19.7	0.0	
Channel				64768	65000	66432	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840.00	3964.98	(dBm)	(dB)	
30	QPSK	1	1	18.07	18.17	18.10	19.7	0.0	
Channel				64734	65000	66466	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	18.10	18.20	18.10	19.7	0.0	
Channel				647168	65000	664832	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	18.12	18.20	18.10	19.7	0.0	
Channel				647000	65000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	18.10	18.15	18.10	19.7	0.0	

Par27Q n77_FCC_ANT 13									
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)				633000	3490	8330	19.7	0.0	
100	QPSK	1	1	18.56	18.61	18.56			
100	QPSK	1	137	18.56	18.56	18.56			
100	QPSK	1	271	18.40	18.40	18.40			
100	QPSK	137	0	18.75	18.75	18.75	19.7	0.0	
100	QPSK	137	68	18.77	18.77	18.77			
100	QPSK	137	136	18.56	18.56	18.56			
100	QPSK	273	0	18.76	18.76	18.76			
100	16QAM	1	1	18.55	18.55	18.55	19.7	0.0	
100	84QAM	1	1	18.73	18.73	18.73	19.7	0.0	
100	256QAM	1	1	18.59	18.59	18.59	19.7	0.0	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	18.76	18.67	18.65	19.7	0.0	
Channel				63255	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3499.98	3510	(dBm)	(dB)	
80	QPSK	1	1	18.71	18.68	18.62	19.7	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	18.63	18.77	18.57	19.7	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.98	(dBm)	(dB)	
60	QPSK	1	1	18.61	18.64	18.70	19.7	0.0	
Channel				631666	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1	18.73	18.75	18.70	19.7	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1	18.71	18.63	18.74	19.7	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	18.74	18.64	18.60	19.7	0.0	
Channel				630666	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1	18.69	18.60	18.50	19.7	0.0	
Channel				630500	633332	636166	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3499.98	3542.49	(dBm)	(dB)	
15	QPSK	1	1	18.63	18.72	18.71	19.7	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1	18.73	18.60	18.60	19.7	0.0	



Par270 n78_FCC_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				650000					
Frequency (MHz)				3750					
100	PV2 BPSK	1	1	13.87			15.2	0.0	
100	PV2 BPSK	1	137	13.84					
100	PV2 BPSK	1	271	13.89					
100	PV2 BPSK	135	0	13.86			15.2	0.0	
100	PV2 BPSK	135	69	14.00			15.2	0.0	
100	PV2 BPSK	135	138	13.73			15.2	0.0	
100	PV2 BPSK	270	0	13.64					
100	QPSK	1	1	14.15					
100	QPSK	1	137	13.88			15.2	0.0	
100	QPSK	1	271	13.86					
100	QPSK	135	0	13.89					
100	QPSK	135	69	13.99			15.2	0.0	
100	QPSK	135	138	13.86			15.2	0.0	
100	QPSK	270	0	14.07					
100	16QAM	1	1	13.89					
100	16QAM	1	1	13.78			15.2	0.0	
100	256QAM	1	1	13.83			15.2	0.0	
Channel				649668	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3745.92	3750	3754.08	(dBm)	(dB)	
90	QPSK	1	1	13.93	13.97	13.83	15.2	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)	
80	QPSK	1	1	13.92	13.94	13.94	15.2	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	13.82	13.90	13.97	15.2	0.0	
Channel				648668	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3769.98	(dBm)	(dB)	
60	QPSK	1	1	13.76	13.99	13.84	15.2	0.0	
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1	13.78	13.88	13.89	15.2	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	13.90	13.82	13.83	15.2	0.0	
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750.00	3784.98	(dBm)	(dB)	
30	QPSK	1	1	13.83	13.92	13.84	15.2	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3786.99	(dBm)	(dB)	
20	QPSK	1	1	13.84	13.99	13.82	15.2	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	13.83	13.96	13.89	15.2	0.0	

Par270 n78 HPUE_FCC_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				650000					
Frequency (MHz)				3750					
100	PV2 BPSK	1	1	13.87			15.2	0.0	
100	PV2 BPSK	1	137	13.84					
100	PV2 BPSK	1	271	13.89					
100	PV2 BPSK	135	0	13.86			15.2	0.0	
100	PV2 BPSK	135	69	14.00			15.2	0.0	
100	PV2 BPSK	135	138	13.73			15.2	0.0	
100	PV2 BPSK	270	0	13.64					
100	QPSK	1	1	14.15					
100	QPSK	1	137	13.88			15.2	0.0	
100	QPSK	1	271	13.86					
100	QPSK	135	0	13.89					
100	QPSK	135	69	13.99			15.2	0.0	
100	QPSK	135	138	13.86			15.2	0.0	
100	QPSK	270	0	14.07					
100	16QAM	1	1	13.89					
100	16QAM	1	1	13.78			15.2	0.0	
100	256QAM	1	1	13.83			15.2	0.0	
Channel				649668	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3745.92	3750	3754.08	(dBm)	(dB)	
90	QPSK	1	1	13.93	13.97	13.83	15.2	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)	
80	QPSK	1	1	13.92	13.94	13.94	15.2	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	13.82	13.90	13.97	15.2	0.0	
Channel				648668	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3769.98	(dBm)	(dB)	
60	QPSK	1	1	13.76	13.99	13.84	15.2	0.0	
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1	13.78	13.88	13.89	15.2	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	13.90	13.82	13.83	15.2	0.0	
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750.00	3784.98	(dBm)	(dB)	
30	QPSK	1	1	13.83	13.92	13.84	15.2	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3786.99	(dBm)	(dB)	
20	QPSK	1	1	13.84	13.99	13.82	15.2	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	13.83	13.96	13.89	15.2	0.0	



Par27Q n78_FCC_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		3499.98	15.2	0.0	
Frequency (MHz)				14.01					
100	PV2 BPSK	1	1	13.91					
100	PV2 BPSK	1	137	13.65					
100	PV2 BPSK	1	271	13.83			15.2	0.0	
100	PV2 BPSK	135	0	14.08			15.2	0.0	
100	PV2 BPSK	135	89	13.88			15.2	0.0	
100	PV2 BPSK	135	138	13.71			15.2	0.0	
100	PV2 BPSK	270	0	14.02			15.2	0.0	
100	QPSK	1	1	13.84			15.2	0.0	
100	QPSK	1	137	13.72			15.2	0.0	
100	QPSK	135	0	13.93			15.2	0.0	
100	QPSK	135	89	13.99			15.2	0.0	
100	QPSK	135	138	13.81			15.2	0.0	
100	QPSK	270	0	13.75			15.2	0.0	
100	16QAM	1	1	13.98			15.2	0.0	
100	16QAM	1	1	13.85			15.2	0.0	
100	256QAM	1	1	13.88			15.2	0.0	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	13.88		13.72	15.2	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3492.02	3499.98	3507.98	(dBm)	(dB)	
80	QPSK	1	1	13.97		13.73	15.2	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3488.01	3499.98	3511.98	(dBm)	(dB)	
70	QPSK	1	1	14.01		13.76	15.2	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)	
60	QPSK	1	1	13.89		13.81	15.2	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3476.02	3499.98	3525.98	(dBm)	(dB)	
50	QPSK	1	1	13.85		13.67	15.2	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3472.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1	13.89		13.67	15.2	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	13.94		13.71	15.2	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540.98	(dBm)	(dB)	
20	QPSK	1	1	13.95		13.85	15.2	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1	13.95		13.68	15.2	0.0	

Par27Q n78 HPUE_FCC_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		3499.98	15.2	0.0	
Frequency (MHz)				14.01					
100	PV2 BPSK	1	1	13.91					
100	PV2 BPSK	1	137	13.65					
100	PV2 BPSK	1	271	13.83			15.2	0.0	
100	PV2 BPSK	135	0	14.08			15.2	0.0	
100	PV2 BPSK	135	89	13.88			15.2	0.0	
100	PV2 BPSK	135	138	13.71			15.2	0.0	
100	PV2 BPSK	270	0	14.02			15.2	0.0	
100	QPSK	1	1	13.84			15.2	0.0	
100	QPSK	1	137	13.72			15.2	0.0	
100	QPSK	135	0	13.93			15.2	0.0	
100	QPSK	135	89	13.99			15.2	0.0	
100	QPSK	135	138	13.81			15.2	0.0	
100	QPSK	270	0	13.75			15.2	0.0	
100	16QAM	1	1	13.98			15.2	0.0	
100	16QAM	1	1	13.85			15.2	0.0	
100	256QAM	1	1	13.88			15.2	0.0	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	13.88		13.72	15.2	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3492.02	3499.98	3507.98	(dBm)	(dB)	
80	QPSK	1	1	13.97		13.73	15.2	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3488.01	3499.98	3511.98	(dBm)	(dB)	
70	QPSK	1	1	14.01		13.76	15.2	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)	
60	QPSK	1	1	13.89		13.81	15.2	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3476.02	3499.98	3525.98	(dBm)	(dB)	
50	QPSK	1	1	13.85		13.67	15.2	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3472.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1	13.89		13.67	15.2	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	13.94		13.71	15.2	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540.98	(dBm)	(dB)	
20	QPSK	1	1	13.95		13.85	15.2	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1	13.95		13.68	15.2	0.0	



Par27O n78_FCC_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				600000					
Frequency (MHz)				3750					
100	QPSK	1	1		14.18		15.2	0.0	
100	QPSK	1	137		13.75				
100	QPSK	1	271		13.49				
100	QPSK	137	0		13.71		15.2	0.0	
100	QPSK	137	68		13.88				
100	QPSK	137	136		13.68				
100	QPSK	273	0		13.88		15.2	0.0	
100	16QAM	1	1		13.78		15.2	0.0	
100	84QAM	1	1		13.79		15.2	0.0	
100	256QAM	1	1		13.80		15.2	0.0	
Channel				649688	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)	
90	QPSK	1	1		13.80	14.03	15.2	0.0	
Channel				650332	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3749.01	3750	3750.99	(dBm)	(dB)	
80	QPSK	1	1		13.81	14.11	14.60	15.2	0.0
Channel				650000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1		13.86	14.13	13.90	15.2	0.0
Channel				649688	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3769.98	(dBm)	(dB)	
60	QPSK	1	1		13.91	14.00	14.04	15.2	0.0
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1		13.13	14.15	13.52	15.2	0.0
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1		13.79	14.09	13.89	15.2	0.0
Channel				647968	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750.00	3794.98	(dBm)	(dB)	
30	QPSK	1	1		13.11	14.10	13.99	15.2	0.0
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3799.99	(dBm)	(dB)	
20	QPSK	1	1		13.12	14.03	13.51	15.2	0.0
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1		13.78	14.12	14.00	15.2	0.0

Par27Q n78_FCC_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				633000					
Frequency (MHz)				3499.98					
100	QPSK	1	1		14.08		15.2	0.0	
100	QPSK	1	137		13.71				
100	QPSK	1	271		13.70				
100	QPSK	137	0		13.90		15.2	0.0	
100	QPSK	137	68		13.95				
100	QPSK	137	136		13.72				
100	QPSK	273	0		13.72		15.2	0.0	
100	16QAM	1	1		13.90		15.2	0.0	
100	84QAM	1	1		13.72		15.2	0.0	
100	256QAM	1	1		13.74		15.2	0.0	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1		13.98	13.92	13.95	15.2	0.0
Channel				632666	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3499.98	3510	(dBm)	(dB)	
80	QPSK	1	1		13.90	13.93	13.95	15.2	0.0
Channel				632332	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1		13.82	13.89	13.92	15.2	0.0
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)	
60	QPSK	1	1		13.86	13.88	13.94	15.2	0.0
Channel				631666	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1		13.02	13.02	13.07	15.2	0.0
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1		13.91	14.04	13.95	15.2	0.0
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1		13.15	13.03	13.05	15.2	0.0
Channel				630666	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1		13.09	14.01	13.17	15.2	0.0
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1		13.88	13.88	13.82	15.2	0.0



Par270 n78_FCC_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			21.7	0.0	
Frequency (MHz)				3750					
100	PV2 BPSK	1	1	20.30					
100	PV2 BPSK	1	137	20.28					
100	PV2 BPSK	1	271	20.12			21.7	0.0	
100	PV2 BPSK	135	0	20.19					
100	PV2 BPSK	135	69	20.18					
100	PV2 BPSK	135	138	20.22					
100	PV2 BPSK	270	0	20.13			21.7	0.0	
100	QPSK	1	1	20.48					
100	QPSK	1	137	20.45					
100	QPSK	1	271	20.08					
100	QPSK	135	0	20.27			21.7	0.0	
100	QPSK	135	69	20.29					
100	QPSK	135	138	20.07					
100	QPSK	270	0	20.00				21.7	
100	16QAM	1	1	20.35					
100	16QAM	1	1	18.40					
100	256QAM	1	1	17.46					
Channel				649668	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)	
90	QPSK	1	1	20.37	20.42	20.37	21.7	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)	
80	QPSK	1	1	20.38	20.37	20.39	21.7	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	20.41	20.37	20.47	21.7	0.0	
Channel				648668	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3769.98	(dBm)	(dB)	
60	QPSK	1	1	20.40	20.45	20.44	21.7	0.0	
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1	20.42	20.39	20.44	21.7	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	20.38	20.42	20.44	21.7	0.0	
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750.00	3784.98	(dBm)	(dB)	
30	QPSK	1	1	20.45	20.38	20.42	21.7	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3789.99	(dBm)	(dB)	
20	QPSK	1	1	20.42	20.40	20.39	21.7	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	20.40	20.39	20.46	21.7	0.0	

Par270 n78 HPUE_FCC_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			21.7	0.0	
Frequency (MHz)				3750					
100	PV2 BPSK	1	1	20.30					
100	PV2 BPSK	1	137	20.28					
100	PV2 BPSK	1	271	20.12			21.7	0.0	
100	PV2 BPSK	135	0	20.19					
100	PV2 BPSK	135	69	20.18					
100	PV2 BPSK	135	138	20.22					
100	PV2 BPSK	270	0	20.13			21.7	0.0	
100	QPSK	1	1	20.48					
100	QPSK	1	137	20.45					
100	QPSK	1	271	20.08					
100	QPSK	135	0	20.27			21.7	0.0	
100	QPSK	135	69	20.29					
100	QPSK	135	138	20.07					
100	QPSK	270	0	20.00				21.7	
100	16QAM	1	1	20.35					
100	16QAM	1	1	20.22					
100	256QAM	1	1	18.53					
Channel				649668	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)	
90	QPSK	1	1	20.37	20.42	20.37	21.7	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)	
80	QPSK	1	1	20.38	20.37	20.39	21.7	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	20.41	20.37	20.47	21.7	0.0	
Channel				648668	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3769.98	(dBm)	(dB)	
60	QPSK	1	1	20.40	20.45	20.44	21.7	0.0	
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1	20.42	20.39	20.44	21.7	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	20.38	20.42	20.44	21.7	0.0	
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750.00	3784.98	(dBm)	(dB)	
30	QPSK	1	1	20.45	20.38	20.42	21.7	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3789.99	(dBm)	(dB)	
20	QPSK	1	1	20.42	20.40	20.39	21.7	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	20.40	20.39	20.46	21.7	0.0	



Par27Q n78_FCC_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	633332	633332	21.7	0.0	
Frequency (MHz)				3499.98	3499.98	3499.98			
100	PV2 BPSK	1	1	20.52	20.52	20.52			
100	PV2 BPSK	1	137	20.48	20.48	20.48			
100	PV2 BPSK	1	271	20.37	20.37	20.37	21.7	0.0	
100	PV2 BPSK	135	0	20.41	20.41	20.41			
100	PV2 BPSK	135	69	20.33	20.33	20.33	21.7	0.0	
100	PV2 BPSK	135	138	20.38	20.38	20.38			
100	PV2 BPSK	270	0	20.38	20.38	20.38	21.7	0.0	
100	QPSK	1	1	20.61	20.61	20.61			
100	QPSK	1	137	20.50	20.50	20.50	21.7	0.0	
100	QPSK	1	271	20.53	20.53	20.53			
100	QPSK	135	0	20.51	20.51	20.51	21.7	0.0	
100	QPSK	135	69	20.54	20.54	20.54			
100	QPSK	135	138	20.38	20.38	20.38	21.7	0.0	
100	QPSK	270	0	20.50	20.50	20.50			
100	16QAM	1	1	20.60	20.60	20.60	21.7	0.0	
100	16QAM	1	1	19.22	19.22	20.2			
100	256QAM	1	1	17.41	17.41	19.2	21.7	0.0	
Channel				633000	633332	633666			
Frequency (MHz)				3495	3499.98	3504.99	Tune-up limit		MPR
90	QPSK	1	1	20.50	20.54	20.48	21.7	0.0	
Channel				633068	633332	634000	Tune-up limit		MPR
Frequency (MHz)				3498.02	3499.98	3501.9	Tune-up limit		MPR
80	QPSK	1	1	20.59	20.52	20.49	21.7	0.0	
Channel				632334	633332	634332	Tune-up limit		MPR
Frequency (MHz)				3498.01	3499.98	3501.98	Tune-up limit		MPR
70	QPSK	1	1	20.57	20.49	20.53	21.7	0.0	
Channel				632000	633332	634666	Tune-up limit		MPR
Frequency (MHz)				3490	3499.98	3509.99	Tune-up limit		MPR
60	QPSK	1	1	20.55	20.50	20.47	21.7	0.0	
Channel				631668	633332	635000	Tune-up limit		MPR
Frequency (MHz)				3478.02	3499.98	3520	Tune-up limit		MPR
50	QPSK	1	1	20.55	20.47	20.56	21.7	0.0	
Channel				631334	633332	635332	Tune-up limit		MPR
Frequency (MHz)				3470.01	3499.98	3529.98	Tune-up limit		MPR
40	QPSK	1	1	20.51	20.48	20.52	21.7	0.0	
Channel				631000	633332	635666	Tune-up limit		MPR
Frequency (MHz)				3465	3499.98	3534.99	Tune-up limit		MPR
30	QPSK	1	1	20.52	20.57	20.47	21.7	0.0	
Channel				630668	633332	636000	Tune-up limit		MPR
Frequency (MHz)				3460.02	3499.98	3540	Tune-up limit		MPR
20	QPSK	1	1	20.54	20.52	20.55	21.7	0.0	
Channel				630334	633332	636332	Tune-up limit		MPR
Frequency (MHz)				3455.01	3499.98	3544.98	Tune-up limit		MPR
10	QPSK	1	1	20.45	20.57	20.49	21.7	0.0	

Par27Q n78 HPUE_FCC_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	633332		21.7	0.0		
Frequency (MHz)				3499.98	3499.98					
100	PV2 BPSK	1	1	20.52	20.52					
100	PV2 BPSK	1	137	20.48	20.48					
100	PV2 BPSK	1	271	20.37	20.37		21.7	0.0		
100	PV2 BPSK	135	0	20.41	20.41					
100	PV2 BPSK	135	69	20.33	20.33		21.7	0.0		
100	PV2 BPSK	135	138	20.38	20.38					
100	PV2 BPSK	270	0	20.38	20.38		21.7	0.0		
100	QPSK	1	1	20.51	20.51					
100	QPSK	1	137	20.50	20.50		21.7	0.0		
100	QPSK	1	271	20.53	20.53					
100	QPSK	135	0	20.51	20.51		21.7	0.0		
100	QPSK	135	69	20.54	20.54					
100	QPSK	135	138	20.38	20.38		21.7	0.0		
100	QPSK	270	0	20.50	20.50					
100	16QAM	1	1	20.60	20.60		21.7	0.0		
100	64QAM	1	1	20.52	20.52					
100	256QAM	1	1	18.54	18.54		21.7	1.5		
Channel				633000	633332	633666				
Frequency (MHz)				3495	3499.98	3504.99	Tune-up limit		MPR (dB)	
90	QPSK	1	1	20.50	20.54	20.48	21.7	0.0		
Channel				632668	633332	634000	Tune-up limit		MPR (dB)	
Frequency (MHz)				3498.02	3499.98	3501.98	Tune-up limit		MPR (dB)	
80	QPSK	1	1	20.59	20.52	20.49	21.7	0.0		
Channel				632334	633332	634332	Tune-up limit		MPR (dB)	
Frequency (MHz)				3498.01	3499.98	3501.98	Tune-up limit		MPR (dB)	
70	QPSK	1	1	20.57	20.49	20.53	21.7	0.0		
Channel				632000	633332	634666	Tune-up limit		MPR (dB)	
Frequency (MHz)				3490	3499.98	3509.99	Tune-up limit		MPR (dB)	
60	QPSK	1	1	20.55	20.50	20.47	21.7	0.0		
Channel				631668	633332	635000	Tune-up limit		MPR (dB)	
Frequency (MHz)				3478.02	3499.98	3520	Tune-up limit		MPR (dB)	
50	QPSK	1	1	20.55	20.47	20.56	21.7	0.0		
Channel				631334	633332	635332	Tune-up limit		MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98	Tune-up limit		MPR (dB)	
40	QPSK	1	1	20.51	20.48	20.52	21.7	0.0		
Channel				631000	633332	635666	Tune-up limit		MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99	Tune-up limit		MPR (dB)	
30	QPSK	1	1	20.52	20.57	20.47	21.7	0.0		
Channel				630668	633332	636000	Tune-up limit		MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540	Tune-up limit		MPR (dB)	
20	QPSK	1	1	20.54	20.52	20.55	21.7	0.0		
Channel				630334	633332	636332	Tune-up limit		MPR (dB)	
Frequency (MHz)				3455.01	3499.98	3544.98	Tune-up limit		MPR (dB)	
10	QPSK	1	1	20.45	20.57	20.49	21.7	0.0		



Par27O n78_FCC_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)				650000	650000	650000			
100	QPSK	1	1	3750	3750	3750			
100	QPSK	1	137		20.26				
100	QPSK	1	271		20.13				
100	QPSK	137	0		20.08				
100	QPSK	137	68		20.05				
100	QPSK	137	136		20.00				
100	QPSK	273	0		20.08		21.2	0.0	
100	16QAM	1	1		20.13		21.2	0.0	
100	64QAM	1	1		20.21		21.2	0.0	
100	256QAM	1	1		17.10		18.2	3.0	
Channel				648668	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3754.98			
90	QPSK	1	1		20.16	20.08	21.2	0.0	
Channel				650332	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3759.99			
80	QPSK	1	1		20.19	20.16	21.2	0.0	
Channel				650000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		20.11	20.09	20.02	21.2	0.0
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3769.98			
60	QPSK	1	1		20.20	20.14	20.14	21.2	0.0
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1		20.16	20.20	20.10	21.2	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		20.09	20.21	20.02	21.2	0.0
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750.00	3764.98			
30	QPSK	1	1		20.11	20.10	20.14	21.2	0.0
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3789.99			
20	QPSK	1	1		20.16	20.15	20.14	21.2	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		20.20	20.19	20.14	21.2	0.0

Par27Q n78_FCC_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)				633392	633392	633392			
100	QPSK	1	1		20.22				
100	QPSK	1	137		20.12				
100	QPSK	1	271		20.10				
100	QPSK	137	0		19.68				
100	QPSK	137	68		20.14				
100	QPSK	137	136		19.65				
100	QPSK	273	0		19.59				
100	16QAM	1	1		20.20				
100	64QAM	1	1		20.00				
100	256QAM	1	1		17.17				
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1		20.08	20.06	20.01	21.2	0.0
Channel				633668	633332	633000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1		20.15	20.14	20.09	21.2	0.0
Channel				633332	633332	633332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1		20.17	20.06	20.01	21.2	0.0
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1		20.16	20.17	20.10	21.2	0.0
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1		20.06	20.15	20.00	21.2	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1		20.15	20.10	20.11	21.2	0.0
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1		20.19	20.10	20.00	21.2	0.0
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1		20.11	20.17	20.09	21.2	0.0
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3499.98	3544.98			
10	QPSK	1	1		20.13	20.04	20.13	21.2	0.0



Par270 n78_FCC_ANT 10									
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					
Frequency (MHz)				3750					
100	PV2 BPSK	1	1	13.10			14.7	0.0	
100	PV2 BPSK	1	137	13.09					
100	PV2 BPSK	1	271	13.08					
100	PV2 BPSK	135	0	13.08			14.7	0.0	
100	PV2 BPSK	135	69	12.95			14.7	0.0	
100	PV2 BPSK	135	136	13.07			14.7	0.0	
100	PV2 BPSK	270	0	13.02					
100	QPSK	1	1	13.17					
100	QPSK	1	137	13.05			14.7	0.0	
100	QPSK	1	271	13.06					
100	QPSK	135	0	13.07					
100	QPSK	135	69	13.16			14.7	0.0	
100	QPSK	135	136	13.04					
100	QPSK	270	0	13.01					
100	16QAM	1	1	13.06			14.7	0.0	
100	16QAM	1	1	13.03			14.7	0.0	
100	256QAM	1	1	13.00			14.7	0.0	
Channel				649668	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)	
90	QPSK	1	1	13.03	13.06	13.01	14.7	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)	
80	QPSK	1	1	13.07	13.10	12.99	14.7	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	13.07	13.03	12.98	14.7	0.0	
Channel				648668	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3769.98	(dBm)	(dB)	
60	QPSK	1	1	13.08	13.03	13.07	14.7	0.0	
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1	13.08	13.07	12.98	14.7	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	13.08	13.07	13.04	14.7	0.0	
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750.00	3784.98	(dBm)	(dB)	
30	QPSK	1	1	13.09	13.09	12.97	14.7	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3789.99	(dBm)	(dB)	
20	QPSK	1	1	13.04	13.04	13.06	14.7	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	13.04	13.07	13.05	14.7	0.0	

Par270 n78 HPUE_FCC_ANT 10									
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					
Frequency (MHz)				3750					
100	PV2 BPSK	1	1	13.10			14.7	0.0	
100	PV2 BPSK	1	137	13.09					
100	PV2 BPSK	1	271	13.08					
100	PV2 BPSK	135	0	13.08			14.7	0.0	
100	PV2 BPSK	135	69	12.95			14.7	0.0	
100	PV2 BPSK	135	136	13.07			14.7	0.0	
100	PV2 BPSK	270	0	13.02					
100	QPSK	1	1	13.17					
100	QPSK	1	137	13.05			14.7	0.0	
100	QPSK	1	271	13.06					
100	QPSK	135	0	13.07					
100	QPSK	135	69	13.16			14.7	0.0	
100	QPSK	135	136	13.04					
100	QPSK	270	0	13.01					
100	16QAM	1	1	13.06			14.7	0.0	
100	16QAM	1	1	13.03			14.7	0.0	
100	256QAM	1	1	13.00			14.7	0.0	
Channel				649668	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)	
90	QPSK	1	1	13.03	13.06	13.01	14.7	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)	
80	QPSK	1	1	13.07	13.10	12.99	14.7	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	13.07	13.03	12.98	14.7	0.0	
Channel				648668	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3769.98	(dBm)	(dB)	
60	QPSK	1	1	13.08	13.03	13.07	14.7	0.0	
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1	13.08	13.07	12.98	14.7	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	13.08	13.07	13.04	14.7	0.0	
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750.00	3784.98	(dBm)	(dB)	
30	QPSK	1	1	13.09	13.09	12.97	14.7	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3789.99	(dBm)	(dB)	
20	QPSK	1	1	13.04	13.04	13.06	14.7	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	13.04	13.07	13.05	14.7	0.0	



Par27Q n78_FCC_ANT 10									
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	14.7	0.0	
Frequency (MHz)				3499.98	3499.98	3499.98			
100	PV2 BPSK	1	1	13.28	13.28	13.28			
100	PV2 BPSK	1	137	13.27	13.27	13.27			
100	PV2 BPSK	1	271	13.25	13.25	13.25	14.7	0.0	
100	PV2 BPSK	135	0	13.23	13.23	13.23			
100	PV2 BPSK	135	69	13.34	13.34	13.34	14.7	0.0	
100	PV2 BPSK	135	138	13.20	13.20	13.20			
100	PV2 BPSK	270	0	13.25	13.25	13.25	14.7	0.0	
100	QPSK	1	1	13.40	13.40	13.40			
100	QPSK	1	137	13.33	13.33	13.33	14.7	0.0	
100	QPSK	1	271	13.33	13.33	13.33			
100	QPSK	135	0	13.23	13.23	13.23	14.7	0.0	
100	QPSK	135	69	13.28	13.28	13.28			
100	QPSK	135	138	13.22	13.22	13.22	14.7	0.0	
100	QPSK	270	0	13.28	13.28	13.28			
100	16QAM	1	1	13.35	13.35	13.35	14.7	0.0	
100	16QAM	1	1	13.22	13.22	13.22			
100	256QAM	1	1	13.16	13.16	13.16	14.7	0.0	
Channel				633000	633332	633666			
Frequency (MHz)				3495	3499.98	3504.99	Tune-up limit	MPR	
90	QPSK	1	1	13.24	13.13	13.32	14.7	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3498.02	3499.98	3501.94	Tune-up limit	MPR	
80	QPSK	1	1	13.24	13.15	13.23	14.7	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3498.01	3499.98	3501.96	Tune-up limit	MPR	
70	QPSK	1	1	13.32	13.22	13.30	14.7	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3498.01	3499.98	3501.96	Tune-up limit	MPR	
60	QPSK	1	1	13.28	13.19	13.27	14.7	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3498.02	3499.98	3501.95	Tune-up limit	MPR	
50	QPSK	1	1	13.34	13.21	13.32	14.7	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3498.01	3499.98	3501.98	Tune-up limit	MPR	
40	QPSK	1	1	13.29	13.15	13.29	14.7	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.96	Tune-up limit	MPR	
30	QPSK	1	1	13.24	13.22	13.27	14.7	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3498.02	3499.98	3501.95	Tune-up limit	MPR	
20	QPSK	1	1	13.31	13.13	13.25	14.7	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3495.01	3499.98	3504.96	Tune-up limit	MPR	
10	QPSK	1	1	13.25	13.13	13.26	14.7	0.0	

Par27Q n78 HPUE_FCC_ANT 10									
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	14.7	0.0	
Frequency (MHz)				3499.98	3499.98	3499.98			
100	PV2 BPSK	1	1	13.28	13.28	13.28			
100	PV2 BPSK	1	137	13.27	13.27	13.27			
100	PV2 BPSK	1	271	13.25	13.25	13.25	14.7	0.0	
100	PV2 BPSK	135	0	13.23	13.23	13.23			
100	PV2 BPSK	135	69	13.34	13.34	13.34	14.7	0.0	
100	PV2 BPSK	135	138	13.20	13.20	13.20			
100	PV2 BPSK	270	0	13.25	13.25	13.25	14.7	0.0	
100	QPSK	1	1	13.40	13.40	13.40			
100	QPSK	1	137	13.33	13.33	13.33	14.7	0.0	
100	QPSK	1	271	13.33	13.33	13.33			
100	QPSK	135	0	13.23	13.23	13.23	14.7	0.0	
100	QPSK	135	69	13.28	13.28	13.28			
100	QPSK	135	138	13.22	13.22	13.22	14.7	0.0	
100	QPSK	270	0	13.28	13.28	13.28			
100	16QAM	1	1	13.35	13.35	13.35	14.7	0.0	
100	16QAM	1	1	13.22	13.22	13.22			
100	256QAM	1	1	13.16	13.16	13.16	14.7	0.0	
Channel				633000	633332	633666			
Frequency (MHz)				3495	3499.98	3504.99	Tune-up limit	MPR	
90	QPSK	1	1	13.24	13.13	13.32	14.7	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3498.02	3499.98	3501.94	Tune-up limit	MPR	
80	QPSK	1	1	13.24	13.15	13.23	14.7	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3498.01	3499.98	3501.96	Tune-up limit	MPR	
70	QPSK	1	1	13.32	13.22	13.30	14.7	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3498.01	3499.98	3501.96	Tune-up limit	MPR	
60	QPSK	1	1	13.28	13.19	13.27	14.7	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3498.02	3499.98	3501.95	Tune-up limit	MPR	
50	QPSK	1	1	13.34	13.21	13.32	14.7	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3498.01	3499.98	3501.98	Tune-up limit	MPR	
40	QPSK	1	1	13.29	13.15	13.29	14.7	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.96	Tune-up limit	MPR	
30	QPSK	1	1	13.24	13.22	13.27	14.7	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3498.02	3499.98	3501.95	Tune-up limit	MPR	
20	QPSK	1	1	13.31	13.13	13.25	14.7	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3495.01	3499.98	3504.96	Tune-up limit	MPR	
10	QPSK	1	1	13.25	13.13	13.26	14.7	0.0	



Par270 n78_FCC_ANT 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				650000	3750				
Frequency (MHz)					13.15				
100	QPSK	1	1		12.94		14.7	0.0	
100	QPSK	1	137		13.00				
100	QPSK	1	271		13.03				
100	QPSK	137	0		13.10		14.7	0.0	
100	QPSK	137	68		12.97				
100	QPSK	137	136		12.95		14.7	0.0	
100	QPSK	273	0		12.88		14.7	0.0	
100	16QAM	1	1		12.88		14.7	0.0	
100	64QAM	1	1		12.83		14.7	0.0	
100	256QAM	1	1		12.80		14.7	0.0	
Channel				649688	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3754.98	(dbm)	(db)	
90	QPSK	1	1	12.95	13.03	12.98	14.7	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3749.01	3750	3759.99	(dbm)	(db)	
80	QPSK	1	1	13.12	13.02	12.95	14.7	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dbm)	(db)	
70	QPSK	1	1	12.99	13.03	12.90	14.7	0.0	
Channel				648688	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3769.98	(dbm)	(db)	
60	QPSK	1	1	13.10	12.99	13.02	14.7	0.0	
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3774.99	(dbm)	(db)	
50	QPSK	1	1	13.01	13.04 <td>13.04</td> <td>14.7</td> <td>0.0</td> <td></td>	13.04	14.7	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dbm)	(db)	
40	QPSK	1	1	12.97	12.94	12.91	14.7	0.0	
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750.00	3784.98	(dbm)	(db)	
30	QPSK	1	1	12.95	13.03	13.01	14.7	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3789.99	(dbm)	(db)	
20	QPSK	1	1	13.01	12.91	12.83	14.7	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dbm)	(db)	
10	QPSK	1	1	12.95	13.00	13.00	14.7	0.0	

Par27Q n78_FCC_ANT 10									
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	633666			
Frequency (MHz)				3499.98	3499.98	3499.98			
100	QPSK	1	1	13.35	13.35		14.7	0.0	
100	QPSK	1	137	13.29	13.23				
100	QPSK	1	271	13.23					
100	QPSK	137	0	13.17					
100	QPSK	137	68	13.17	13.17		14.7	0.0	
100	QPSK	137	136	13.14					
100	QPSK	273	0	13.14					
100	16QAM	1	1	13.20					
100	64QAM	1	1	13.18			14.7	0.0	
100	256QAM	1	1	13.18			14.7	0.0	
100	256QAM	1	1	13.14			14.7	0.0	
Channel				633000	633332	633666	Tune-up limit		
Frequency (MHz)				3495	3499.98	3504.99	(dbm)		
90	QPSK	1	1	13.14	13.14	13.21	14.7	0.0	
Channel				632668	633332	634000	Tune-up limit		
Frequency (MHz)				3490.02	3499.98	3510	(dbm)		
80	QPSK	1	1	13.29	13.18	13.22	14.7	0.0	
Channel				632334	633332	634332	Tune-up limit		
Frequency (MHz)				3485.01	3499.98	3514.98	(dbm)		
70	QPSK	1	1	13.18	13.20	13.19	14.7	0.0	
Channel				632000	633332	634666	Tune-up limit		
Frequency (MHz)				3480	3499.98	3519.99	(dbm)		
60	QPSK	1	1	13.29	13.30	13.12	14.7	0.0	
Channel				631668	633332	635000	Tune-up limit		
Frequency (MHz)				3475.02	3499.98	3525	(dbm)		
50	QPSK	1	1	13.10	13.26	13.10	14.7	0.0	
Channel				631334	633332	635332	Tune-up limit		
Frequency (MHz)				3470.01	3499.98	3529.98	(dbm)		
40	QPSK	1	1	13.29	13.20	13.17	14.7	0.0	
Channel				631000	633332	635666	Tune-up limit		
Frequency (MHz)				3465	3499.98	3534.99	(dbm)		
30	QPSK	1	1	13.25	13.26	13.21	14.7	0.0	
Channel				630668	633332	636000	Tune-up limit		
Frequency (MHz)				3460.02	3499.98	3540	(dbm)		
20	QPSK	1	1	13.27	13.10	13.22	14.7	0.0	
Channel				630334	633332	636332	Tune-up limit		
Frequency (MHz)				3455.01	3499.98	3544.98	(dbm)		
10	QPSK	1	1	13.31	13.28	13.25	14.7	0.0	



Par270 n78_FCC_ANT 13									
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					
Frequency (MHz)				3750					
100	PV2 BPSK	1	1	18.18			19.7	0.0	
100	PV2 BPSK	1	137	18.17					
100	PV2 BPSK	1	271	18.16					
100	PV2 BPSK	135	0	18.09			19.7	0.0	
100	PV2 BPSK	135	69	18.04			19.7	0.0	
100	PV2 BPSK	135	136	18.13			19.7	0.0	
100	PV2 BPSK	270	0	18.12					
100	QPSK	1	1	18.20					
100	QPSK	1	137	18.15			19.7	0.0	
100	QPSK	1	271	18.03					
100	QPSK	135	0	18.13					
100	QPSK	135	69	18.15			19.7	0.0	
100	QPSK	135	136	18.06			19.7	0.0	
100	QPSK	270	0	18.08			19.7	0.0	
100	16QAM	1	1	18.17			19.7	0.0	
100	16QAM	1	1	18.16			19.7	0.0	
100	256QAM	1	1	18.06			19.7	0.0	
Channel				649668	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)	
90	QPSK	1	1	18.08	18.02	18.12	19.7	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)	
80	QPSK	1	1	18.08	18.07	18.02	19.7	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	18.13	18.02	18.15	19.7	0.0	
Channel				648668	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3769.98	(dBm)	(dB)	
60	QPSK	1	1	18.09	18.08	18.04	19.7	0.0	
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1	18.00	17.99	18.10	19.7	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	18.03	18.10	18.03	19.7	0.0	
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750.00	3784.98	(dBm)	(dB)	
30	QPSK	1	1	18.08	18.05	18.06	19.7	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3786.99	(dBm)	(dB)	
20	QPSK	1	1	18.07	17.98	18.13	19.7	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	18.13	18.07	18.05	19.7	0.0	

Par270 n78 HPUE_FCC_ANT 13									
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					
Frequency (MHz)				3750					
100	PV2 BPSK	1	1	18.18			19.7	0.0	
100	PV2 BPSK	1	137	18.17					
100	PV2 BPSK	1	271	18.16					
100	PV2 BPSK	135	0	18.09			19.7	0.0	
100	PV2 BPSK	135	69	18.04			19.7	0.0	
100	PV2 BPSK	135	136	18.13			19.7	0.0	
100	PV2 BPSK	270	0	18.12					
100	QPSK	1	1	18.20					
100	QPSK	1	137	18.15			19.7	0.0	
100	QPSK	1	271	18.03					
100	QPSK	135	0	18.13					
100	QPSK	135	69	18.15			19.7	0.0	
100	QPSK	135	136	18.06			19.7	0.0	
100	QPSK	270	0	18.08			19.7	0.0	
100	16QAM	1	1	18.17			19.7	0.0	
100	16QAM	1	1	18.16			19.7	0.0	
100	256QAM	1	1	18.06			19.7	0.0	
Channel				649668	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)	
90	QPSK	1	1	18.08	18.02	18.12	19.7	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)	
80	QPSK	1	1	18.08	18.07	18.02	19.7	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	18.13	18.02	18.15	19.7	0.0	
Channel				648668	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3769.98	(dBm)	(dB)	
60	QPSK	1	1	18.09	18.08	18.04	19.7	0.0	
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1	18.00	17.99	18.10	19.7	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	18.03	18.10	18.03	19.7	0.0	
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750.00	3784.98	(dBm)	(dB)	
30	QPSK	1	1	18.08	18.05	18.06	19.7	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3786.99	(dBm)	(dB)	
20	QPSK	1	1	18.07	17.98	18.13	19.7	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	18.13	18.07	18.05	19.7	0.0	



Par27Q n78_FCC_ANT 13									
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	3499.98	3499.98			
100	PV2 BPSK	1	1	18.45	18.45	18.45	19.7	0.0	
100	PV2 BPSK	1	137	18.34	18.34	18.34			
100	PV2 BPSK	1	271	18.37	18.37	18.37			
100	PV2 BPSK	135	0	18.28	18.28	18.28			
100	PV2 BPSK	135	69	18.29	18.29	18.29	19.7	0.0	0.0
100	PV2 BPSK	135	136	18.37	18.37	18.37	19.7	0.0	
100	PV2 BPSK	270	0	18.31	18.31	18.31			
100	QPSK	1	1	18.31	18.31	18.31			
100	QPSK	1	137	18.28	18.28	18.28			
100	QPSK	1	271	18.38	18.38	18.38	19.7	0.0	
100	QPSK	135	0	18.34	18.34	18.34			
100	QPSK	135	69	18.42	18.42	18.42			
100	QPSK	135	136	18.38	18.38	18.38			
100	QPSK	270	0	18.35	18.35	18.35	19.7	0.0	0.0
100	16QAM	1	1	18.29	18.29	18.29	19.7	0.0	0.0
100	16QAM	1	1	18.42	18.42	18.42	19.7	0.0	0.0
100	256QAM	1	1	18.19	18.19	18.19	19.7	0.0	0.0
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	18.31	18.27	18.29	19.7	0.0	0.0
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3498.02	3499.98	3501	(dBm)	(dB)	
80	QPSK	1	1	18.44	18.27	18.41	19.7	0.0	0.0
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3498.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	18.33	18.27	18.33	19.7	0.0	0.0
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3490	3499.98	3519.99	(dBm)	(dB)	
60	QPSK	1	1	18.37	18.39	18.39	19.7	0.0	0.0
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3476.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1	18.37	18.41	18.41	19.7	0.0	0.0
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1	18.42	18.33	18.29	19.7	0.0	0.0
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	18.39	18.42	18.38	19.7	0.0	0.0
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1	18.38	18.42	18.40	19.7	0.0	0.0
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1	18.38	18.33	18.39	19.7	0.0	0.0

Par27Q n78 HPUE_FCC_ANT 13									
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	3499.98	3499.98			
100	PV2 BPSK	1	1	18.45	18.45	18.45	19.7	0.0	
100	PV2 BPSK	1	137	18.34	18.34	18.34			
100	PV2 BPSK	1	271	18.37	18.37	18.37			
100	PV2 BPSK	135	0	18.28	18.28	18.28			
100	PV2 BPSK	135	69	18.29	18.29	18.29	19.7	0.0	0.0
100	PV2 BPSK	135	136	18.37	18.37	18.37	19.7	0.0	
100	PV2 BPSK	270	0	18.31	18.31	18.31			
100	QPSK	1	1	18.31	18.31	18.31			
100	QPSK	1	137	18.28	18.28	18.28			
100	QPSK	1	271	18.38	18.38	18.38	19.7	0.0	
100	QPSK	135	0	18.34	18.34	18.34			
100	QPSK	135	69	18.42	18.42	18.42			
100	QPSK	135	136	18.38	18.38	18.38			
100	QPSK	270	0	18.35	18.35	18.35	19.7	0.0	0.0
100	16QAM	1	1	18.29	18.29	18.29	19.7	0.0	0.0
100	16QAM	1	1	18.42	18.42	18.42	19.7	0.0	0.0
100	256QAM	1	1	18.19	18.19	18.19	19.7	0.0	0.0
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	18.31	18.27	18.29	19.7	0.0	0.0
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3498.02	3499.98	3501	(dBm)	(dB)	
80	QPSK	1	1	18.44	18.27	18.41	19.7	0.0	0.0
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3498.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	18.33	18.27	18.33	19.7	0.0	0.0
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3490	3499.98	3519.99	(dBm)	(dB)	
60	QPSK	1	1	18.37	18.39	18.39	19.7	0.0	0.0
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3476.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1	18.37	18.41	18.41	19.7	0.0	0.0
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1	18.42	18.33	18.29	19.7	0.0	0.0
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	18.39	18.42	18.38	19.7	0.0	0.0
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1	18.38	18.42	18.40	19.7	0.0	0.0
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1	18.38	18.33	18.39	19.7	0.0	0.0

Par270 n78_FCC_ANT 13

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	QPSK	1	1		18.18		19.7	0.0
100	QPSK	1	137		18.00			
100	QPSK	1	271		17.98			
100	QPSK	137	0		18.12		19.7	0.0
100	QPSK	137	68		18.15			
100	QPSK	137	136		17.95			
100	QPSK	273	0		18.00		19.7	0.0
100	16QAM	1	1		18.13		19.7	0.0
100	64QAM	1	1		17.99		19.7	0.0
100	256QAM	1	1		18.03		19.7	0.0
Channel				649668	650000	650332	Tune-up limit	MPR
Frequency (MHz)				3745.02		3754.98	(dBm)	(dB)
90	QPSK	1	1		18.07	18.08	19.7	0.0
Channel				650333	650000	650666	Tune-up limit	MPR
Frequency (MHz)				3740.01		3759.99	(dBm)	(dB)
80	QPSK	1	1		18.01	17.99	19.7	0.0
Channel				650000	650000	650000	Tune-up limit	MPR
Frequency (MHz)				3745		3765	(dBm)	(dB)
70	QPSK	1	1		18.15	18.07	18.03	0.0
Channel				648668	650000	651332	Tune-up limit	MPR
Frequency (MHz)				3730.02		3769.98	(dBm)	(dB)
60	QPSK	1	1		18.09	18.13	18.13	0.0
Channel				648334	650000	651666	Tune-up limit	MPR
Frequency (MHz)				3725.01		3774.99	(dBm)	(dB)
50	QPSK	1	1		18.00	18.07	17.97	0.0
Channel				648000	650000	650000	Tune-up limit	MPR
Frequency (MHz)				3720		3780	(dBm)	(dB)
40	QPSK	1	1		18.01	18.07	17.93	0.0
Channel				647668	650000	652332	Tune-up limit	MPR
Frequency (MHz)				3715.02		3794.98	(dBm)	(dB)
30	QPSK	1	1		18.15	18.00	18.04	0.0
Channel				647334	650000	652666	Tune-up limit	MPR
Frequency (MHz)				3710.01		3799.99	(dBm)	(dB)
20	QPSK	1	1		18.14	18.01	17.95	0.0
Channel				647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)				3705		3795	(dBm)	(dB)
10	QPSK	1	1		18.08	18.15	18.13	0.0

Par27Q n78_FCC_ANT 13

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	QPSK	1	1		18.45		19.7	0.0
100	QPSK	1	137		18.14			
100	QPSK	1	271		18.22			
100	QPSK	137	0		18.25		19.7	0.0
100	QPSK	137	68		18.32			
100	QPSK	137	136		18.20			
100	QPSK	273	0		18.18		19.7	0.0
100	16QAM	1	1		18.18		19.7	0.0
100	64QAM	1	1		18.37		19.7	0.0
100	256QAM	1	1		18.02		19.7	0.0
Channel				633000	633332	633666	Tune-up limit	MPR
Frequency (MHz)				3495		3499.98	3504.99	(dB)
90	QPSK	1	1		18.33	18.35	18.34	0.0
Channel				633667	633332	633000	Tune-up limit	MPR
Frequency (MHz)				3490.02		3499.98	3510	(dB)
80	QPSK	1	1		18.27	18.34	18.29	0.0
Channel				633333	633332	633000	Tune-up limit	MPR
Frequency (MHz)				3485.01		3499.98	3514.98	(dB)
70	QPSK	1	1		18.34	18.40	18.24	0.0
Channel				633000	633332	633666	Tune-up limit	MPR
Frequency (MHz)				3480		3499.98	3519.99	(dB)
60	QPSK	1	1		18.37	18.35	18.29	0.0
Channel				631668	633332	633000	Tune-up limit	MPR
Frequency (MHz)				3475.02		3499.98	3525	(dB)
50	QPSK	1	1		18.40	18.30	18.35	0.0
Channel				631334	633332	633332	Tune-up limit	MPR
Frequency (MHz)				3470.01		3499.98	3529.98	(dB)
40	QPSK	1	1		18.30	18.20	18.10	0.0
Channel				631000	633332	633666	Tune-up limit	MPR
Frequency (MHz)				3465		3499.98	3534.99	(dB)
30	QPSK	1	1		18.25	18.24	18.31	0.0
Channel				630668	633332	633000	Tune-up limit	MPR
Frequency (MHz)				3460.02		3499.98	3540	(dB)
20	QPSK	1	1		18.39	18.27	18.20	0.0
Channel				630334	633332	633332	Tune-up limit	MPR
Frequency (MHz)				3455.01		3499.98	3544.98	(dB)
10	QPSK	1	1		18.31	18.11	18.23	0.0

Reduced Power Mode for DSI 6&11

GSM1900_Ant 4		Burst Average Power (dBm)			Tune-up		Frame-Average Power (dBm)			Tune-up	
TX Channel		512	661	810	Limit		512	661	810	Limit	
Frequency (MHz)		1850.2	1860	1869.8	(dBm)		1850.2	1860	1869.8	(dBm)	
GSM 1 Tx slot		29.27	29.30	29.25	30.00		20.27	20.30	20.25	21.00	
GPRS/EDGE(GMSK) 1 Tx slot		29.26	29.22	29.20	30.00		20.26	20.22	20.20	21.00	
GPRS/EDGE(GMSK) 2 Tx slots		26.76	26.80	26.77	27.00		19.76	19.80	19.77	21.00	
GPRS/EDGE(GMSK) 3 Tx slots		23.96	23.96	23.99	25.20		19.73	19.70	19.73	20.94	
GPRS/EDGE(GMSK) 4 Tx slots		23.10	23.15	23.09	24.50		23.10	23.15	23.09	21.50	
EDGE 1 Tx slot		26.00	24.96	24.91	26.00		16.00	15.96	15.91	17.00	
EDGE 2 Tx slots		21.62	21.50	21.71	23.00		15.62	15.50	15.71	17.00	
EDGE 3 Tx slots		19.71	19.61	19.73	21.20		15.45	15.35	15.67	18.94	
EDGE 4 Tx slots		18.88	18.75	18.77	20.30		15.88	15.75	15.77	17.30	
DTM Multi-slot	GSM 1 Tx slot	26.64	26.70	26.64	27.00		19.64	19.64	19.60	20.98	
	GPRS 1 Tx slot	25.66	25.63	25.60	27.00						
DTM Multi-slot		25.62	25.75	25.62	27.00		19.67	19.74	19.59	20.98	
class 8	GSM 1 Tx slot	25.76	25.77	25.61	27.00						
	GPRS 1 Tx slot	23.97	23.89	24.02	25.20		19.70	19.72	19.71	20.94	
DTM Multi-slot		23.96	24.02	23.95	25.20						
class 11	GSM 1 Tx slot	26.79	26.76	26.84	27.00						
	GPRS 2 Tx slots	21.58	21.12	21.45	23.00		18.15	18.01	18.16	19.42	
DTM Multi-slot		25.73	25.78	25.78	27.00		18.10	18.05	18.12	19.42	
class 9	GSM 1 Tx slot	21.54	21.23	21.47	23.00						
	GSM 1 Tx slot	23.97	24.00	24.05	25.20		17.27	17.20	17.26	18.71	
DTM Multi-slot		19.48	19.26	19.38	21.20						

WCDMA_Stats

Band		WCDMA 3 Ant 4			Tune-up		WCDMA 4 Ant 4			Tune-up	
TX Channel		9262	9400	9538	Limit		1312	1413	1513	Limit	
Rx Channel		9692	9800	9938	(dBm)		1337	1438	1538	(dBm)	
Frequency (MHz)		1852.4	1880	1907.6			1772.4	1792.6	1820.6		
3GPP Rel 99		22.62	22.66	22.60	23.50		19.82	19.90	19.79	21.00	
3GPP Rel 99		22.69	22.70	22.65	23.50		19.93	19.95	19.88	21.00	
3GPP Rel 6		21.97	21.85	21.79	22.50		19.08	19.16	19.31	20.00	
3GPP Rel 6		21.97	21.84	21.77	22.50		19.17	19.27	19.30	20.00	
3GPP Rel 6		21.46	21.34	21.28	22.00		18.75	18.71	18.86	19.50	
3GPP Rel 6		21.47	21.29	21.27	22.00		18.67	18.67	18.83	19.50	
3GPP Rel 6		21.95	21.81	21.77	22.50		19.14	19.23	19.29	20.00	
3GPP Rel 8		21.93	21.77	21.68	22.50		19.08	19.11	19.43	20.00	
3GPP Rel 8		21.38	21.33	21.25	22.00		18.55	18.69	18.70	19.50	
3GPP Rel 8		21.45	21.25	21.24	22.00		18.52	18.68	18.80	19.50	
3GPP Rel 6		21.96	21.89	21.89	22.50		19.14	19.22	19.69	20.00	
3GPP Rel 6		20.03	19.93	19.89	20.50		17.22	17.31	17.41	18.00	
3GPP Rel 6		20.00	19.93	19.86	20.50		17.31	17.23	17.48	18.00	
3GPP Rel 6		20.00	19.95	19.88	20.50		17.22	17.28	17.31	18.00	
3GPP Rel 6		22.00	21.90	21.80	22.50		19.31	19.30	19.41	20.00	
3GPP Rel 7		19.92	20.02	19.95	20.50		17.46	17.45	17.51	18.00	



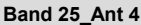
Band 2_Ant 4											
BW [MHz]	Modulation		RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq		Tune-up limit (dBm)	MPR (dB)	
Channel											
Frequency (MHz)											
20	QPSK	1	0	22.56	22.6	22.58					
20	QPSK	1	49	22.5	22.55	22.55		23.8		0	
20	QPSK	1	99	22.38	22.35	22.38					
20	QPSK	50	0	21.55	21.54	21.58					
20	QPSK	50	24	21.54	21.55	21.55		22.8		1	
20	QPSK	50	50	21.49	21.52	21.5					
20	QPSK	100	0	21.51	21.55	21.54					
20	16QAM	1	0	21.92	21.73	21.68					
20	16QAM	1	49	21.79	21.84	21.78		22.8		1	
20	16QAM	1	99	21.6	21.72	21.72					
20	16QAM	50	0	20.88	20.59	20.48					
20	16QAM	50	24	20.96	20.56	20.54		21.8		2	
20	16QAM	50	50	20.51	20.5	20.51					
20	16QAM	100	0	20.53	20.54	20.55					
20	64QAM	1	0	20.78	20.68	20.72		21.8		2	
20	64QAM	1	49	20.7	20.65	20.65					
20	64QAM	1	99	20.59	20.51	20.69					
20	64QAM	50	0	19.64	19.59	19.48					
20	64QAM	50	24	19.58	19.57	19.57		20.8		3	
20	64QAM	50	50	19.5	19.52	19.54					
20	64QAM	100	0	19.55	19.54	19.55					
20	256QAM	1	0	17.62	17.65	17.52					
20	256QAM	1	49	17.50	17.57	17.34		18.8		5	
20	256QAM	1	99	17.59	17.59	17.47					
20	256QAM	50	0	17.51	17.55	17.41					
20	256QAM	50	24	17.41	17.60	17.50		18.8		5	
20	256QAM	50	50	17.46	17.63	17.60					
20	256QAM	100	0	17.48	17.57	17.55					
Channel											
Frequency (MHz)											
15	QPSK	1	0	22.44	22.54	22.46					
15	QPSK	1	37	22.48	22.32	22.32		23.8		0	
15	QPSK	1	74	22.24	22.31	22.31					
15	QPSK	36	0	21.52	21.48	21.41					
15	QPSK	36	36	21.41	21.4	21.46		22.8		1	
15	QPSK	36	39	21.38	21.4	21.43					
15	QPSK	75	0	21.37	21.4	21.46					
15	16QAM	1	0	21.62	21.59	21.63					
15	16QAM	1	37	21.74	21.73	21.65		22.8		1	
15	16QAM	1	74	21.5	21.58	21.68					
15	16QAM	36	0	20.59	20.45	20.35		21.8		2	
15	16QAM	36	20	20.47	20.48	20.41					
15	16QAM	36	39	20.43	20.39	20.41					
15	16QAM	75	0	20.44	20.46	20.41					
15	64QAM	1	0	20.69	20.58	20.63					
15	64QAM	1	37	20.54	20.56	20.59		21.8		2	
15	64QAM	37	1	20.53	20.42	20.57					
15	64QAM	36	0	19.6	19.5	19.43					
15	64QAM	36	39	19.45	19.52	19.46		20.8		3	
15	64QAM	75	0	19.47	19.46	19.46					
15	256QAM	1	0	17.58	17.57	17.43					
15	256QAM	1	37	17.46	17.48	17.20		18.8		5	
15	256QAM	1	74	17.44	17.45	17.35					
15	256QAM	36	0	17.42	17.46	17.34					
15	256QAM	36	20	17.28	17.46	17.45		18.8		5	
15	256QAM	36	39	17.32	17.50	17.50					
15	256QAM	75	0	17.41	17.42	17.42					
Channel											
Frequency (MHz)											
10	QPSK	1	0	22.42	22.31	22.27					
10	QPSK	1	25	22.46	22.3	22.3		23.8		0	
10	QPSK	1	49	22.32	22.31	22.31					
10	QPSK	25	0	21.59	21.51	21.38					
10	QPSK	25	12	21.43	21.42	21.45		22.8		1	
10	QPSK	25	25	21.42	21.42	21.41					
10	QPSK	50	0	21.39	21.43	21.5					
10	16QAM	1	0	21.67	21.61	21.59					
10	16QAM	1	25	21.74	21.73	21.69		22.8		1	
10	16QAM	1	49	21.48	21.68	21.64					
10	16QAM	25	0	20.55	20.47	20.42					
10	16QAM	25	12	20.44	20.45	20.48		21.8		2	
10	16QAM	25	25	20.47	20.38	20.43					
10	16QAM	50	0	20.41	20.49	20.42					
10	16QAM	1	0	20.65	20.62	20.61					
10	64QAM	1	25	20.6	20.6	20.54		21.8		2	
10	64QAM	1	49	20.48	20.49	20.64					
10	64QAM	25	0	19.51	19.45	19.38					
10	64QAM	25	12	19.45	19.5	19.49		20.8		3	
10	64QAM	25	25	19.38	19.46	19.44					
10	64QAM	50	0	19.41	19.41	19.5					
10	256QAM	1	0	17.55	17.60	17.38					
10	256QAM	1	25	17.42	17.48	17.27		18.8		5	
10	256QAM	1	49	17.45	17.47	17.39					
10	256QAM	25	0	17.45	17.43	17.27					
10	256QAM	25	12	17.32	17.47	17.5		18.8		5	
10	256QAM	25	25	17.32	17.55	17.53					
10	256QAM	50	0	17.34	17.45	17.44					
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.43	22.4	22.27					
5	QPSK	1	12	22.45	22.55	22.42		23.8		0	
5	QPSK	1	24	22.28	22.25	22.34					
5	QPSK	12	0	21.6	21.44	21.4					
5	QPSK	12	7	21.48	21.5	21.48		22.8		1	
5	QPSK	12	13	21.36	21.48	21.43					
5	16QAM	1	0	21.63	21.66	21.66					
5	16QAM	1	12	21.67	21.6	21.73		22.8		1	
5	16QAM	1	24	21.52	21.6	21.62					
5	16QAM	12	0	20.57	20.45	20.35					
5	16QAM	12	7	20.46	20.45	20.5		21.8		2	
5	16QAM	12	13	20.45	20.43	20.45					
5	16QAM	25	0	20.42	20.49	20.43					
5	64QAM	1	0	20.71	20.58	20.64					
5	64QAM	1	12	20.68	20.59	20.65		21.8		2	
5	64QAM	1	24	20.5	20.39	20.61					
5	64QAM	12	0	19.56	19.47	19.44					
5	64QAM	12	7	19.54	19.53	19.5		20.8		3	
5	64QAM	12	13	19.44	19.48	19.42					
5	64QAM	25	0	19.42	19.49	19.43					
5	256QAM	1	0	17.49	17.47	17.37					
5	256QAM	1	12	17.46	17.46	17.29		18.8		5	
5	256QAM	1	24	17.44	17.44	17.29					
5	256QAM	12	0	17.46	17.49	17.33					
5	256QAM	12	7	17.27	17.51	17.38		18.8		5	
5	256QAM	12	13	17.41	17.56	17.49					
5	256QAM	25	0	17.44	17.48	17.51					
Channel											
Frequency (MHz)											
3	QPSK	1	0	22.51	22.36	22.35					
3	QPSK	1	22.43	22.54	22.52	22.52		23.8		0	
3	QPSK	1	14	22.29	22.31	22.33					
3	QPSK	8	0	21.52	21.43	21.42					
3	QPSK	8	6	21.49	21.41	21.45		22.8		1	
3	QPSK	8	7	21.37	21.47	21.48					
3	QPSK	16	0	21.44	21.48	21.48					
3	16QAM	1	0	21.87	21.64	21.57					
3	16QAM	1	8	21.65	21.77	21.66		22.8		1	
3	16QAM	1	14	21.53	21.58	21.65					
3	16QAM	8	0	20.62	20.45	20.44					
3	16QAM	8	4	20.43	20.42	20.43		21.8		2	
3	16QAM	8	7	20.47	20.41	20.39					
3	16QAM	16	0	20.43	20.42	20.50					
3	64QAM	1	0	20.65	20.61	20.60					
3	64QAM	1	8	20.68	20.63	20.69		21.8		2	
3	64QAM	1	14	20.54	20.59	20.59					
3	64QAM	8	0	19.53	19.54	19.41					
3	64QAM	8	4	19.51	19.53	19.63					
3	64QAM	8	7	19.43	19.43	19.41		20.8		3	
3	64QAM	16	0	19.44	19.44	19.48					
3	256QAM	1	0	17.50	17.53	17.48					
3	256QAM	1	8	17.47	17.41	17.25		18.8		5	
3	256QAM	1	14	17.36	17.50	17.43					
3	256QAM	8	0	17.38	17.48	17.35					
3	256QAM	8	4	17.35	17.53	17.42		18.8		5	
3	256QAM	8	7	17.35	17.50	17.52					
3	256QAM	16	0	17.37	17.49	17.43					
Channel											
Frequency (MHz)											
1.4	QPSK	1	0	22.50	22.52	22.53					
1.4	QPSK	1	22.43	22.45	22.52	22.52		23.8		0	
1.4	QPSK	1	5	22.49	22.51	22.55					
1.4	QPSK	3	0	22.44	22.51	22.57					
1.4	QPSK	3	1	22.52	22.52	22.43					
1.4	QPS										



Band 4_Ant 4

BW [MHz]	Modulation	Channel	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
					Low Ch./Freq	Mid Ch./Freq	High Ch./Freq		
20050									
122.5									
20175									
122.5									
20300									
122.5									
20425									
122.5									
20550									
122.5									
20675									
122.5									
20800									
122.5									
20925									
122.5									
21050									
122.5									
21175									
122.5									
21300									
122.5									
21425									
122.5									
21550									
122.5									
21675									
122.5									
21800									
122.5									
21925									
122.5									
22050									
122.5									
22175									
122.5									
22300									
122.5									
22425									
122.5									
22550									
122.5									
22675									
122.5									
22800									
122.5									
22925									
122.5									
23050									
122.5									
23175									
122.5									
23300									
122.5									
23425									
122.5									
23550									
122.5									
23675									
122.5									
23800									
122.5									
23925									
122.5									
24050									
122.5									
24175									
122.5									
24300									
122.5									
24425									
122.5									
24550									
122.5									
24675									
122.5									
24800									
122.5									
24925									
122.5									
25050									
122.5									
25175									
122.5									
25300									
122.5									
25425									
122.5									
25550									
122.5									
25675									
122.5									
25800									
122.5									
25925									
122.5									
26050									
122.5									
26175									
122.5									
26300									
122.5									
26425									
122.5									
26550									
122.5									
26675									
122.5									
26800									
122.5									
26925									
122.5									
27050									
122.5									
27175									
122.5									
27300									
122.5									
27425									
122.5									
27550									
122.5									
27675									
122.5									
27800									
122.5									
27925									
122.5									
28050									
122.5									
28175									
122.5									
28300									
122.5									
28425									
122.5									
28550									
122.5									
28675									
122.5									
28800									
122.5									
28925									
122.5									
29050									
122.5									
29175									
122.5									
29300									
122.5									
29425									
122.5									
29550									
122.5									
29675									
122.5									
29800									
122.5									
29925									
122.5									
30050									
122.5									
30175									
122.5									
30300									
122.5									
30425									
122.5									
30550									
122.5									
30675									
122.5									
30800									
122.5									
30925									
122.5									
31050									
122.5									
31175									
122.5									
31300									
122.5									
31425									
122.5									
31550									
122.5									
31675									
122.5									
31800									
122.5									
31925									
122.5									
32050									
122.5									
32175									
122.5									
32300									
122.5									
32425									
122.5									
32550									
122.5									
32675									
122.5									
32800									
122.5									
32925									
122.5									
33050									
122.5									
33175									
122.5									
33300									
122.5									
33425									
122.5									
33550									
122.5									
33675									
122.5									
33800									
122.5									
33925									
122.5									
34050									
122.5									
34175									
122.5									
34300									
122.5									
34425									
122.5									
34550									
122.5									
34675									
122.5									
34800									
122.5									
34925									
122.5									
35050									
122.5									
35175									
122.5									
35300									
122.5									
35425									
122.5									
35550									
122.5									
35675									
122.5									
35800									
122.5									
35925									
122.5									
36050									
122.5									
36175									
122.5									
36300									
122.5									
36425									
122.5									
36550									
122.5									
36675									
122.5									
36800									
122.5									
36925									
122.5									
37050									
122.5									
37175									
122.5									
37300									
122.5									
37425									
122.5									
37550									
122.5									
37675									
122.5									
37800									
122.5									
37925									
122.5									
38050									
122.5									
38175									
122.5									
38300									
122.5									
38425									
122.5									
38550									
122.5									
38675									
122.5									
38800									
122.5									
38925									
122.5									
39050									
122.5									
39175									
122.5									
39300									
122.5									
39425									
122.5									
39550									
122.5									
39675									
122.5									
39800									
122.5									
39925									
122.5									
40050									
122.5									
40175									
122.5									
40300									
122.5									
40425									
122.5									
40550									
122.5									
40675									
122.5									
40800									
122.5									
40925									
122.5									
41050									
122.5									
41175									
122.5									
41300									
122.5									
41425									
122.5									
41550									
122.5									
41675									
122.5									
41800									
122.5									
41925									
122.5									
42050									
122.5									
42175									
122.5									
42300									
122.5									
42425									
122.5									
42550									
122.5									
42675									
122.5									
42800									
122.5									
42925									
122.5									
43050									
122.5									
43175									
122.5									
43300									
122.5									
43425									
122.5									
43550									
122.5									
43675									
122.5									
43800									
122.5									
43925									
122.5									
44050									
122.5									
44175									
122.5									
44300									
122.5									
44425									
122.5									
44550									
122.5									
44675									
122.5									
44800									
122.5									
44925									
122.5									
45050									
122.5									
45175									
122.5									
45300									
122.5									
45425									
122.5									
45550									
122.5									
45675									
122.5									
45800									
122.5									
45925									
122.5									
46050									
122.5									
46175									
122.5									
46300									
122.5									
46425									
122.5									
46550									
122.5									
46675									
122.5									
46800									
122.5									
46925									
122.5									
47050									
122.5									
47175									
122.5									
47300									
122.5									
47425									
122.5									
47550									
122.5									
47675									
122.5									
47800									
122.5									
47925									
122.5									
48050									
122.5									
48175									
122.5									
48300									
122.5									
48425									
122.5									
48550									
122.5									
48675									
122.5									
48800									
122.5									
48925									
122.5									
49050									
122.5									
49175									
122.5									
49300									
122.5									
49425									
122.5									
49550									
122.5									
49675									
122.5									
49800									
122.5									
49925									
122.5									
50050									
122.5									
50175									
122.5									
50300									
122.5									
50425									
122.5									
50550									
122.5									
50675									
122.5									
50800									
122.5									
50925									
122.5									
51050									
122.5									
51175									
122.5									
51300									
122.5									
51425									
122.5									
51550									
122.5									
51675									
122.5									
51800									
122.5									
51925									
122.5									
52050									
122.5									
52175									
122.5									
52300									
122.5									
52425									
122.5									
52550									
122.5									
52675									
122.5									
52800									
122.5									
52925									
122.5									
53050									
122.5									
53175									
122.5									
53300									
122.5									
53425									
122.5									
53550									
122.5									
53675									
122.5									
53800									
122.5									
53925									
122.5									
54050									
122.5									
54175									
122.5									
54300									
122.5									
54425									
122.5									
54550									
122.5									
54675									
122.5									
54800									
122.5									
54925									
122.5									
55050									
122.5									
55175									
122.5									
55300									
122.5									
55425									
122.5									
55550									
122.5									
55675									
122.5									
55800									
122.5									
55925									
122.5									
56050									
122.5									
56175									
122.5									
56300									
122.5									
56425									
122.5									
56550									
122.5									
56675									
122.5									
56800									
122.5									
56925									
122.5									
57050									
122.5									
57175									
122.5									
57300									
122.5									
57425									
122.5									
57550									
122.5									
57675									
122.5									
57800									
122.5									
57925									
122.5									
58050									
122.5									
58175									
122.5									
58300									
122.5									
58425									
122.5									
58550									
122.5									
58675									
122.5									
58800									
122.5									
58925									
122.5									
59050									
122.5									
59175									
122.5									
59300									
122.5									
59425									
122.5									
59550									
122.5									
59675									
122.5									
59800									
122.5									
59925									
122.5									
60050									
122.5									
60175									
122.5									
60300									
122.5									
60425									
122.5									
60550									
122.5									
60675									
122.5									
60800									
122.5									
60925									
122.5									
61050									
122.5									
61175									
122.5									
61300									
122.5									
61425									
122.5									
61550									
122.5									
61675									
122.5									
61800									
122.5									
61925									
122.5									
62050									
122.5									
62175									
122.5									
62300									
122.5									
62425									
122.5									
62550									
122.5									
62675									
122.5									
62800									
122.5									
62925									
122.5									
63050									
122.5									
63175									
122.5									
63300									
122.5									
63425									
122.5									
63550									
122.5									
63675									
122.5									
63800									
122.5									
63925									
122.5									
64050									
122.5									
64175									
122.5									
64300									
122.5									
64425									
122.5									
64550									
122.5									
64675									
122.5									
64800									
122.5									
64925									
122.5									
65050									

Band 7_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				2400	2100	2150			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	17.54	17.56	17.51	18.7	0	
20	QPSK	1	49	17.84	17.95	17.88			
20	QPSK	1	99	17.66	17.81	17.79			
20	QPSK	50	0	17.76	17.81	17.81	18.7	0	
20	QPSK	50	24	17.57	17.71	17.56			
20	QPSK	50	50	17.78	17.79	17.68			
20	QPSK	100	0	17.71	17.81	17.81	18.7	0	
20	16QAM	1	0	17.77	17.82	17.81			
20	16QAM	1	49	17.64	17.67	17.56			
20	16QAM	50	1	17.74	17.84	17.77	18.7	0	
20	16QAM	50	0	17.58	17.72	17.6			
20	16QAM	50	24	17.79	17.84	17.68			
20	16QAM	50	50	17.61	17.7	17.61	18.7	0	
20	16QAM	100	0	17.88	17.91	17.79			
20	16QAM	100	0	17.7	17.75	17.7			
20	64QAM	1	49	17.65	17.75	17.73	18.7	0	
20	64QAM	1	99	17.84	17.88	17.87			
20	64QAM	50	0	17.8	17.9	17.9			
20	64QAM	50	24	17.79	17.88	17.82	18.7	0	
20	64QAM	50	50	17.79	17.85	17.76			
20	64QAM	100	0	17.86	17.91	17.8			
20	256QAM	1	0	16.88	17.05	17.01	17.7	1	
20	256QAM	1	49	17.03	17.11	16.94			
20	256QAM	50	0	17.14	17.15	17.05			
20	256QAM	50	24	16.85	17.02	16.97	17.7	1	
20	256QAM	50	50	16.96	17.05	16.94			
20	256QAM	100	0	17.07	17.15	17.08			
Channel				2400	2100	2150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	17.9	17.81	17.82	18.7	0	
15	QPSK	1	37	17.76	17.81	17.9			
15	QPSK	1	74	17.56	17.76	17.68			
15	QPSK	36	0	17.73	17.76	17.74	18.7	0	
15	QPSK	36	20	17.46	17.56	17.56			
15	QPSK	36	39	17.75	17.7	17.66			
15	QPSK	75	0	17.68	17.77	17.68	18.7	0	
15	16QAM	1	0	17.69	17.79	17.68			
15	16QAM	1	37	17.56	17.52	17.54			
15	16QAM	36	14	17.65	17.69	17.64	18.7	0	
15	16QAM	36	0	17.47	17.67	17.57			
15	16QAM	36	20	17.76	17.79	17.54			
15	16QAM	36	39	17.51	17.65	17.58	18.7	0	
15	16QAM	75	0	17.73	17.78	17.66			
15	64QAM	1	0	17.64	17.71	17.56			
15	64QAM	1	37	17.54	17.76	17.71	18.7	0	
15	64QAM	1	74	17.81	17.78	17.76			
15	64QAM	36	0	17.78	17.79	17.66			
15	64QAM	36	20	17.78	17.84	17.62	18.7	0	
15	64QAM	36	39	17.69	17.74	17.67			
15	64QAM	75	0	17.6	17.75	17.65			
15	256QAM	1	0	16.85	17.02	16.98	17.7	1	
15	256QAM	1	37	16.88	17.05	16.82			
15	256QAM	1	74	17.03	16.88	17.08			
15	256QAM	36	0	17.04	17.06	16.92	17.7	1	
15	256QAM	36	20	16.83	16.86	16.95			
15	256QAM	36	39	16.84	16.88	16.83			
15	256QAM	75	0	17.02	17.03	17.06	Tune-up limit (dBm)	MPR (dB)	
Channel				2000	2100	2150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2500	2535	2565			
10	QPSK	1	0	17.92	17.93	17.79	18.7	0	
10	QPSK	1	25	17.84	17.85	17.76			
10	QPSK	1	49	17.53	17.7	17.77			
10	QPSK	25	0	17.74	17.79	17.73	18.7	0	
10	QPSK	25	12	17.55	17.8	17.48			
10	QPSK	25	25	17.66	17.76	17.65			
10	QPSK	50	0	17.59	17.77	17.73	18.7	0	
10	16QAM	1	0	17.68	17.75	17.77			
10	16QAM	1	25	17.64	17.54	17.56			
10	16QAM	1	49	17.7	17.78	17.67	18.7	0	
10	16QAM	25	0	17.44	17.63	17.54			
10	16QAM	25	12	17.71	17.69	17.62			
10	16QAM	25	25	17.49	17.58	17.47	18.7	0	
10	16QAM	50	0	17.79	17.88	17.67			
10	64QAM	1	0	17.58	17.7	17.68			
10	64QAM	1	25	17.63	17.74	17.68	18.7	0	
10	64QAM	1	49	17.77	17.79	17.8			
10	64QAM	25	0	17.79	17.74	17.78			
10	64QAM	25	12	17.67	17.68	17.73	18.7	0	
10	64QAM	25	25	17.72	17.71	17.73			
10	64QAM	50	0	17.72	17.8	17.81			
10	256QAM	1	0	16.85	17.01	16.95	17.7	1	
10	256QAM	1	25	16.96	17.19	16.92			
10	256QAM	1	49	17.03	17.05	17.02			
10	256QAM	25	0	17.08	17.19	16.95	17.7	1	
10	256QAM	25	12	16.82	16.82	16.88			
10	256QAM	25	25	16.85	16.87	16.82			
10	256QAM	50	0	17.02	17.03	17.06	Tune-up limit (dBm)	MPR (dB)	
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				20925	20935	20945			
5	QPSK	1	0	17.89	17.81	17.89	18.7	0	
5	QPSK	1	12	17.74	17.9	17.77			
5	QPSK	1	24	17.55	17.73	17.65			
5	QPSK	12	0	17.76	17.83	17.81	18.7	0	
5	QPSK	12	7	17.48	17.8	17.42			
5	QPSK	12	13	17.63	17.78	17.64			
5	QPSK	25	0	17.66	17.71	17.61	18.7	0	
5	16QAM	1	0	17.62	17.77	17.68			
5	16QAM	1	12	17.59	17.67	17.49			
5	16QAM	1	24	17.6	17.74	17.75	18.7	0	
5	16QAM	12	0	17.56	17.8	17.45			
5	16QAM	12	7	17.74	17.81	17.64			
5	16QAM	12	13	17.6	17.59	17.55	18.7	0	
5	16QAM	25	0	17.75	17.81	17.67			
5	64QAM	1	0	17.63	17.75	17.68			
5	64QAM	1	12	17.54	17.72	17.7	18.7	0	
5	64QAM	24	0	17.76	17.87	17.88			
5	64QAM	12	0	17.67	17.8	17.72			
5	64QAM	12	7	17.78	17.74	17.75	18.7	0	
5	64QAM	12	13	17.46	17.7	17.48			
5	64QAM	25	0	17.81	17.87	17.86			
5	256QAM	1	0	16.81	16.99	16.95	17.7	1	
5	256QAM	1	12	17.01	17.08	16.95			
5	256QAM	1	24	17.04	17.07	16.99			
5	256QAM	12	0	17.05	17.08	16.93	17.7	1	
5	256QAM	12	7	16.73	16.90	16.91			
5	256QAM	12	13	16.94	16.95	16.95			



Band 25_Ant 6

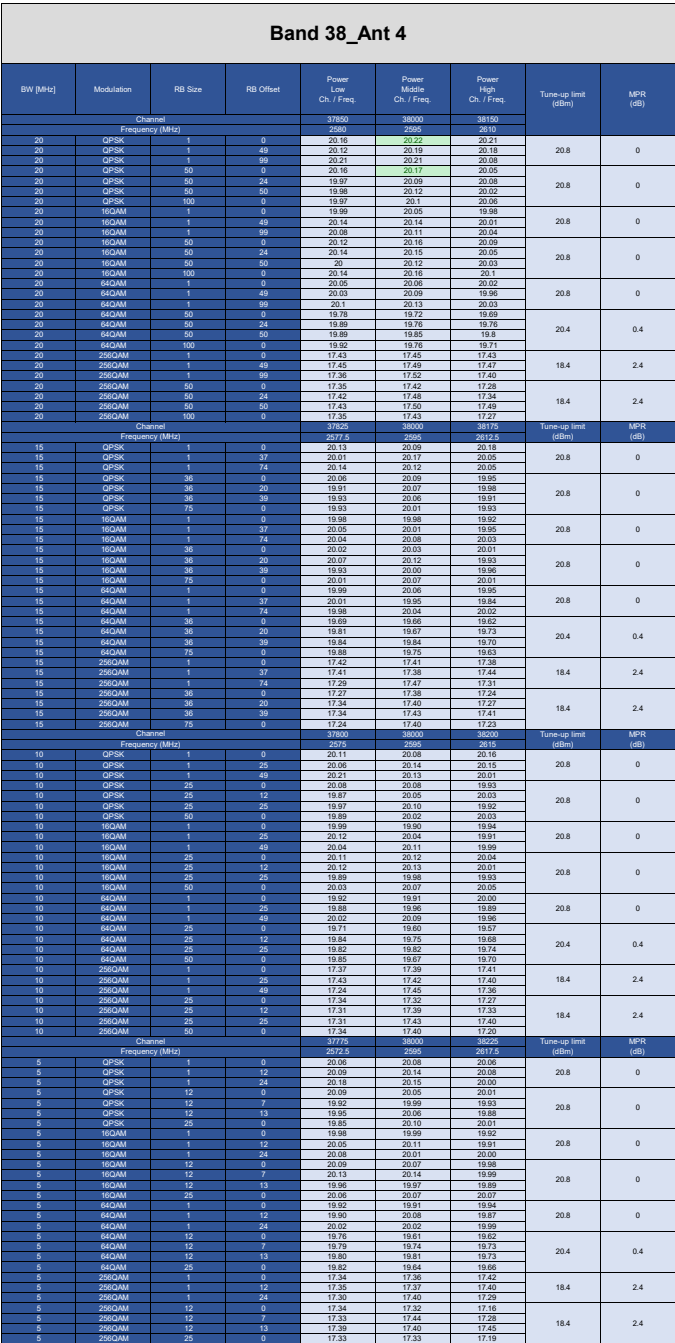
BW [MHz]	Modulation	RB Size	RB Offset	Power		Power		Power		Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Power	Middle Ch. Freq.	Power	High Ch. Freq.	Power		
Channel											
Frequency (MHz)		1	0	19.00	19.00	19.00	19.00	19.00			
20	QPSK	1	49	18.95	18.97	18.91			19.8		0
20	QPSK	1	99	18.93	18.96	18.91					
20	QPSK	50	18	18.98	19.00	18.98					
20	QPSK	50	24	18.88	19.01	18.88			19.8		0
20	QPSK	50	50	19.04	19.00	19.00					
20	QPSK	100	0	18.87	19.02	18.89					
20	16QAM	1	0	19.02	19.06	18.97					
20	16QAM	49	1	18.87	19.00	18.88			19.8		0
20	16QAM	1	55	19.03	19.08	19.05					
20	16QAM	50	0	19.05	19.05	18.91					
20	16QAM	24	50	18.92	19.01	18.87			19.8		0
20	16QAM	50	50	18.92	18.97	18.96					
20	64QAM	1	1	18.83	18.93	18.96					
20	64QAM	1	49	18.79	18.94	18.94			19.8		0
20	64QAM	1	99	18.81	18.91	18.92					
20	64QAM	50	0	18.89	18.93	18.88					
20	64QAM	50	24	18.92	18.99	18.97			19.8		0
20	64QAM	50	50	18.98	18.99	18.99					
20	64QAM	100	0	18.97	19.00	19.03					
20	256QAM	1	0	18.41	18.55	18.50					
20	256QAM	49	1	18.51	18.52	18.34			19.3		0.5
20	256QAM	1	99	18.46	18.47	18.35					
20	256QAM	50	0	18.48	18.50	18.50					
20	256QAM	50	24	18.34	18.43	18.43			19.3		0.5
20	256QAM	50	50	18.37	18.51	18.49					
20	256QAM	100	0	18.25	18.40	18.22					
Channel											
Frequency (MHz)		1	0	19.00	19.00	19.00	19.00	19.00	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	18.97	18.91	18.92			19.8		0
15	QPSK	1	37	18.93	18.93	18.77					
15	QPSK	1	74	18.78	18.87	18.85					
15	QPSK	36	0	18.97	18.97	18.85					
15	QPSK	36	20	18.87	18.97	18.96			19.8		0
15	QPSK	36	39	18.91	18.98	18.90					
15	QPSK	75	0	18.97	18.97	18.88					
15	16QAM	1	0	18.91	19.02	19.04					
15	16QAM	1	37	18.85	18.92	18.80			19.8		0
15	16QAM	1	74	18.81	18.94	18.98					
15	16QAM	36	0	19.00	19.06	19.91					
15	16QAM	36	20	18.77	18.87	18.75					
15	16QAM	36	39	18.92	18.92	18.81			19.8		0
15	16QAM	75	0	19.01	19.02	19.87					
15	64QAM	1	0	18.75	18.84	18.89					
15	64QAM	1	37	18.67	18.91	18.94			19.8		0
15	64QAM	1	74	18.73	18.79	18.82					
15	64QAM	36	0	18.99	19.00	18.73					
15	64QAM	36	20	18.88	18.90	18.84			19.8		0
15	64QAM	36	39	18.93	18.94	18.84					
15	64QAM	75	0	18.98	18.99	18.94					
15	256QAM	1	0	18.27	18.39	18.36					
15	256QAM	1	37	18.43	18.43	18.26			19.3		0.5
15	256QAM	1	74	18.40	18.44	18.25					
15	256QAM	36	0	18.33	18.43	18.35					
15	256QAM	36	20	18.29	18.43	18.35			19.3		0.5
15	256QAM	36	39	18.32	18.43	18.44					
15	256QAM	75	0	18.35	18.31	18.12					
Channel											
Frequency (MHz)		1	0	26.06 <th>26.340<th>26.665<th>26.990<th>27.000<th>Tune-up limit (dBm)</th><th>MPR (dB)</th><th></th></th></th></th></th>	26.340 <th>26.665<th>26.990<th>27.000<th>Tune-up limit (dBm)</th><th>MPR (dB)</th><th></th></th></th></th>	26.665 <th>26.990<th>27.000<th>Tune-up limit (dBm)</th><th>MPR (dB)</th><th></th></th></th>	26.990 <th>27.000<th>Tune-up limit (dBm)</th><th>MPR (dB)</th><th></th></th>	27.000 <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th> <th></th>	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	18.93	18.99	18.93			19.8		0
10	QPSK	1	25	18.83	18.93	18.76					
10	QPSK	1	49	18.80	18.83	18.89					
10	QPSK	25	0	18.92	18.98	18.85					
10	QPSK	25	12	18.79	18.92	18.89			19.8		0
10	QPSK	25	25	18.81	19.02	19.79					
10	QPSK	50	0	18.85	18.97	18.80					
10	16QAM	1	1	18.87	18.98	18.86			19.8		0
10	16QAM	1	25	18.75	18.96	18.85					
10	16QAM	1	49	19.00	18.97	18.99					
10	16QAM	0	25	18.90	18.95	18.47					
10	16QAM	25	12	18.92	18.90	18.83			19.8		0
10	16QAM	25	25	18.85	18.95	18.82					
10	16QAM	50	0	19.00	18.93	18.99					
10	64QAM	1	1	18.61	18.69	18.91			19.8		0
10	64QAM	1	25	18.77	18.87	18.86					
10	64QAM	1	49	18.71	18.80	18.90					
10	64QAM	25	0	18.80	18.91	18.85					
10	64QAM	25	12	18.61	18.99	19.00			19.8		0
10	64QAM	25	25	18.94	19.00	18.98					
10	64QAM	50	0	18.87	18.88	18.78					
10	256QAM	1	1	18.40	18.48	18.49					
10	256QAM	1	25	18.35	18.51	18.18			19.3		0.5
10	256QAM	1	49	18.43	18.30	18.32					
10	256QAM	0	25	18.44	18.33	18.44					
10	256QAM	25	12	18.31	18.27	18.37			19.3		0.5
10	256QAM	25	25	18.36	18.30	18.48					
10	256QAM	50	0	18.14	18.21	18.11					
Channel											
Frequency (MHz)		1	0	26.065 <th>26.340<th>26.665<th>26.990<th>27.000<th>Tune-up limit (dBm)</th><th>MPR (dB)</th><th></th></th></th></th></th>	26.340 <th>26.665<th>26.990<th>27.000<th>Tune-up limit (dBm)</th><th>MPR (dB)</th><th></th></th></th></th>	26.665 <th>26.990<th>27.000<th>Tune-up limit (dBm)</th><th>MPR (dB)</th><th></th></th></th>	26.990 <th>27.000<th>Tune-up limit (dBm)</th><th>MPR (dB)</th><th></th></th>	27.000 <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th> <th></th>	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	18.99	19.04	19.02			19.8		0
5	QPSK	1	12	18.93	18.94	18.78					
5	QPSK	1	24	18.77	18.93	18.87					
5	QPSK	12	0	18.80	19.00	18.85					
5	QPSK	12	7	18.75	18.88	18.92			19.8		0
5	QPSK	12	13	18.89	18.93	18.90					
5	QPSK	25	0	18.79	18.95	18.75					
5	16QAM	1	0	18.87	18.94	18.87					
5	16QAM	12	1	18.87	18.86	18.75			19.8		0
5	16QAM	1	24	18.88	18.98	18.95					
5	16QAM	12	0	18.94	18.90	18.85					
5	16QAM	12	12	18.83	18.86	18.82			19.8		0
5	16QAM	12	13	18.89	18.93	18.90					
5	16QAM	25	0	18.96	19.00	18.90					
5	64QAM	1	1	18.73	18.82	18.92					
5	64QAM	1	12	18.78	18.85	18.94			19.8		0
5	64QAM	1	24	18.68	18.91	18.85					
5	64QAM	12	0	18.74	18.84	18.76					
5	64QAM	12	7	18.87	18.97	18.90					
5	64QAM	12	12	18.82	18.93	18.94			19.8		0
5	64QAM	25	0	18.83	19.00	18.87					
5	256QAM	1	0	18.30	18.50	18.39					
5	256QAM	12	1	18.40	18.48	18.23			19.3		0.5
5	256QAM	1	24	18.34	18.29	18.23					
5	256QAM	12	12	18.29	18.31	18.31			19.3		0.5
5	256QAM	12	13	18.25	18.33	18.31					
5	256QAM	12	13	18.26	18.32	18.38					
5	256QAM	25	0	18.21	18.33	18.18					
Channel											
Frequency (MHz)		1	0	26.065 <th>26.340<th>26.665<th>26.990<th>27.000<th>Tune-up limit (dBm)</th><th>MPR (dB)</th><th></th></th></th></th></th>	26.340 <th>26.665<th>26.990<th>27.000<th>Tune-up limit (dBm)</th><th>MPR (dB)</th><th></th></th></th></th>	26.665 <th>26.990<th>27.000<th>Tune-up limit (dBm)</th><th>MPR (dB)</th><th></th></th></th>	26.990 <th>27.000<th>Tune-up limit (dBm)</th><th>MPR (dB)</th><th></th></th>	27.000 <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th> <th></th>	Tune-up limit (dBm)	MPR (dB)	
3	QPSK	1	0	18.98	19.04	19.03			19.8		0
3	QPSK	1	8	18.93	18.95	18.84					
3	QPSK	1	14	18.83	18.96	18.81					
3	QPSK	8	0	18.89	18.99	18.89			19.8		0
3	QPSK	8	4	18.76	18.93	18.93					
3	QPSK	8	7	18.90	18.96	18.91					
3	QPSK	15	1	18.84	18.91	18.84					
3	16QAM	1	0	18.95	19.05	18.84			19.8		0
3	16QAM	1	8	18.81	18.86	18.76					
3	16QAM	14	1	18.99	19.00	18.92					
3	16QAM	8	0	18.91	18.90	18.83					
3	16QAM	8	4	18.78	18.91	18.83			19.8		0
3	16QAM	8	7	18.83	18.83	18.89					
3	16QAM	15	0	18.93	18.94	18.93					
3	64QAM	1	1	18.62	18.69	18.94					
3	64QAM	1	8	18.71	18.68	18.93			19.8		0
3	64QAM	1	14	18.74	18.90	18.90					
3	64QAM	8	0	18.84	18.96	18.83					
3	64QAM	8	4	18.81	18.92	18.89			19.8		0
3	64QAM	8	7	18.85	18.94	18.89					
3	64QAM	15	1	18.89	18.89	18.91					
3	256QAM	1	0	18.30	18.47	18.39					
3	256QAM	1	8	18.34	18.34	18.17			19.3		0.5
3	256QAM	14	1	18.31	18.39	18.20					
3	256QAM	8	0	18.45	18.40	18.47					
3	256QAM	8	4	18.23	18.28	18.29			19.3		0.5
3	256QAM	8	7	18.36	18.32	18.48</					

Band 30_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				27085	27110	27135	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2310	2310	2310		
10	QPSK	1	0	16.82	16.82	16.84	17.9	0
10	QPSK	1	25	16.73	16.73	16.75		
10	QPSK	1	49	16.79	16.79	16.81	17.9	0
10	QPSK	25	0	16.83	16.83	16.85		
10	QPSK	25	12	16.79	16.79	16.81	17.9	0
10	QPSK	25	25	16.82	16.82	16.84		
10	QPSK	50	0	16.78	16.78	16.80	17.9	0
10	16QAM	1	0	16.81	16.81	16.83		
10	16QAM	1	25	16.78	16.78	16.80	17.9	0
10	16QAM	1	49	16.8	16.8	16.82		
10	16QAM	25	0	16.7	16.7	16.72	17.9	0
10	16QAM	25	12	16.72	16.72	16.74		
10	16QAM	25	25	16.78	16.78	16.8	17.9	0
10	16QAM	50	0	16.71	16.71	16.73		
10	64QAM	1	0	16.7	16.7	16.72	17.9	0
10	64QAM	1	25	16.76	16.76	16.78		
10	64QAM	1	49	16.78	16.78	16.8	17.9	0
10	64QAM	25	0	16.77	16.77	16.79		
10	64QAM	25	12	16.77	16.77	16.79	17.9	0
10	64QAM	25	25	16.72	16.72	16.74		
10	64QAM	50	0	16.79	16.79	16.81	17.9	0
10	256QAM	1	0	16.71	16.71	16.73		
10	256QAM	1	25	16.75	16.75	16.77	17.9	0
10	256QAM	1	49	16.79	16.79	16.81		
10	256QAM	25	0	16.77	16.77	16.79	17.9	0
10	256QAM	25	12	16.77	16.77	16.79		
10	256QAM	25	25	16.72	16.72	16.74	17.9	0
10	256QAM	50	0	16.85	16.85	16.87		
Channel				27085	27110	27135	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	16.83	16.82	16.84	17.9	0
5	QPSK	1	12	16.82	16.83	16.85		
5	QPSK	1	24	16.84	16.83	16.85	17.9	0
5	QPSK	12	0	16.78	16.71	16.7		
5	QPSK	12	7	16.77	16.78	16.87	17.9	0
5	QPSK	12	13	16.76	16.7	16.67		
5	QPSK	25	0	16.77	16.68	16.78	17.9	0
5	16QAM	1	0	16.79	16.77	16.8		
5	16QAM	1	12	16.84	16.63	16.75	17.9	0
5	16QAM	1	24	16.89	16.77	16.68		
5	16QAM	12	0	16.55	16.7	16.7	17.9	0
5	16QAM	12	7	16.66	16.61	16.72		
5	16QAM	12	13	16.65	16.73	16.68	17.9	0
5	16QAM	25	0	16.64	16.6	16.69		
5	64QAM	1	0	16.68	16.66	16.68	17.9	0
5	64QAM	1	12	16.68	16.69	16.75		
5	64QAM	1	24	16.74	16.76	16.72	17.9	0
5	64QAM	12	0	16.72	16.65	16.67		
5	64QAM	12	7	16.73	16.74	16.73	17.9	0
5	64QAM	12	13	16.65	16.69	16.64		
5	64QAM	25	0	16.73	16.69	16.72	17.9	0
5	256QAM	1	0	16.58	16.75	16.95		
5	256QAM	1	12	16.71	16.61	16.69	17.9	0
5	256QAM	1	24	16.65	16.55	16.57		
5	256QAM	12	0	16.71	16.75	16.68	17.9	0
5	256QAM	12	7	16.72	16.63	16.69		
5	256QAM	12	13	16.67	16.58	16.70	17.9	0
5	256QAM	25	0	16.65	16.69	16.71		

Band 66_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 132022								
Frequency (MHz)								
20	QPSK	1	0	1720	1745	1770		
20	QPSK	1	49	21.88	21.97	21.93	22.9	0
20	QPSK	1	99	21.82	21.92	21.9		
20	QPSK	8	0	21.68	21.71	21.77		
20	QPSK	50	24	21.62	21.56	21.66	22.4	0.5
20	QPSK	50	50	21.53	21.58	21.58		
20	QPSK	100	0	21.58	21.64	21.62		
20	16QAM	1	0	21.82	21.9	21.78		
20	16QAM	1	49	21.76	21.86	21.82	22.4	0.5
20	16QAM	1	99	21.81	21.95	21.93		
20	16QAM	50	0	20.51	20.69	20.72		
20	16QAM	50	24	20.6	20.67	20.68	21.4	1.5
20	16QAM	50	50	20.59	20.64	20.61		
20	64QAM	1	0	20.6	20.64	20.68		
20	64QAM	1	49	20.76	20.88	20.82	21.4	1.5
20	64QAM	1	99	20.76	20.77	20.61		
20	64QAM	50	0	19.55	19.66	19.71		
20	64QAM	50	24	19.64	19.68	19.64	20.4	2.5
20	64QAM	50	50	19.58	19.66	19.61		
20	64QAM	100	0	19.61	19.68	19.69		
20	256QAM	1	0	17.62	17.69	17.63		
20	256QAM	1	49	17.48	17.65	17.64	18.4	4.5
20	256QAM	1	99	17.53	17.60	17.44		
20	256QAM	50	0	17.53	17.66	17.57		
20	256QAM	50	24	17.52	17.75	17.63	18.4	4.5
20	256QAM	50	50	17.61	17.70	17.54		
20	256QAM	100	0	17.60	17.62	17.61		
Channel 132022								
Frequency (MHz)								
15	QPSK	1	0	1717.5	1745	1772.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	21.89	21.98	21.77		
15	QPSK	1	24	21.88	21.86	21.87	22.9	0
15	QPSK	1	74	21.69	21.91	21.86		
15	QPSK	1	99	21.49	21.66	21.66		
15	QPSK	36	0	21.55	21.55	21.55	22.4	0.5
15	QPSK	36	39	21.48	21.63	21.56		
15	QPSK	75	0	21.67	21.54	21.69		
15	16QAM	1	0	21.70	21.82	21.70		
15	16QAM	1	37	21.77	21.88	21.83	22.4	0.5
15	16QAM	74	0	21.81	21.93	21.83		
15	16QAM	36	0	20.45	20.64	20.61		
15	16QAM	36	20	20.59	20.67	20.68	21.4	1.5
15	16QAM	36	36	20.54	20.57	20.59		
15	16QAM	75	0	20.49	20.57	20.57		
15	64QAM	1	0	20.73	20.78	20.72	21.4	1.5
15	64QAM	1	37	20.68	20.85	20.85		
15	64QAM	1	74	20.64	20.66	20.59	21.4	1.5
15	64QAM	36	0	19.48	19.57	19.66		
15	64QAM	36	20	19.53	19.54	19.56	20.4	2.5
15	64QAM	36	39	19.56	19.54	19.56		
15	64QAM	75	0	19.58	19.46	19.64		
15	256QAM	1	0	17.60	17.66	17.55		
15	256QAM	1	37	17.43	17.59	17.56	18.4	4.5
15	256QAM	74	0	17.52	17.52	17.40		
15	256QAM	36	0	17.47	17.64	17.46		
15	256QAM	36	20	17.67	17.67	17.48	18.4	4.5
15	256QAM	36	39	17.50	17.52	17.48		
15	256QAM	75	0	17.58	17.54	17.57	Tune-up limit (dBm)	MPR (dB)
Channel 132022								
Frequency (MHz)								
10	QPSK	1	0	21.93	21.93	21.87		
10	QPSK	1	24	21.87	21.87	21.87	22.9	0
10	QPSK	1	49	21.79	21.79	21.80		
10	QPSK	25	0	21.48	21.67	21.70		
10	QPSK	12	0	21.54	21.44	21.54	22.4	0.5
10	QPSK	25	25	21.47	21.63	21.52		
10	QPSK	50	0	21.56	21.58	21.55		
10	16QAM	0	0	21.73	21.78	21.77		
10	16QAM	1	25	21.78	21.84	21.79	22.4	0.5
10	16QAM	1	49	21.80	21.88	21.86		
10	16QAM	25	0	20.39	20.67	20.67		
10	16QAM	25	12	20.59	20.68	20.59	21.4	1.5
10	16QAM	25	25	20.58	20.67	20.60		
10	16QAM	50	0	20.58	20.59	20.53		
10	64QAM	1	0	20.71	20.82	20.77	21.4	1.5
10	64QAM	25	0	20.68	20.86	20.85		
10	64QAM	1	49	20.69	20.75	20.55		
10	64QAM	25	0	19.50	19.65	19.66		
10	64QAM	25	12	19.52	19.52	19.58	20.4	2.5
10	64QAM	25	25	19.54	19.56	19.51		
10	64QAM	50	0	19.59	19.54	19.63		
10	256QAM	1	0	17.56	17.57	17.58		
10	256QAM	1	25	17.43	17.63	17.60	18.4	4.5
10	256QAM	1	49	17.46	17.54	17.40		
10	256QAM	25	0	17.44	17.55	17.56		
10	256QAM	25	12	17.68	17.66	17.45	18.4	4.5
10	256QAM	25	25	17.50	17.62	17.53		
10	256QAM	50	0	17.52	17.52	17.55		
Channel 131997								
Frequency (MHz)								
5	QPSK	1	0	21.87	21.95	21.78		
5	QPSK	1	12	21.83	21.87	21.88	22.9	0
5	QPSK	1	24	21.76	21.91	21.84		
5	QPSK	12	0	21.41	21.66	21.61		
5	QPSK	12	7	21.55	21.49	21.68	22.4	0.5
5	QPSK	12	13	21.50	21.58	21.53		
5	QPSK	25	0	21.56	21.56	21.58		
5	16QAM	1	8	21.73	21.76	21.72		
5	16QAM	1	12	21.76	21.79	21.79	22.4	0.5
5	16QAM	1	24	21.89	21.93	21.76		
5	16QAM	12	0	20.43	20.61	20.44		
5	16QAM	12	7	20.59	20.61	20.57	21.4	1.5
5	16QAM	12	13	20.54	20.59	20.55		
5	16QAM	25	0	20.59	20.54	20.63		
5	64QAM	1	0	20.73	20.74	20.74		
5	64QAM	1	12	20.70	20.86	20.89	21.4	1.5
5	64QAM	1	24	20.69	20.67	20.56		
5	64QAM	12	0	19.45	19.63	19.65		
5	64QAM	12	7	19.58	19.56	19.63	20.4	2.5
5	64QAM	12	13	19.53	19.62	19.54		
5	64QAM	25	0	19.58	19.50	19.57		
5	256QAM	1	0	17.56	17.63	17.61		
5	256QAM	1	12	17.43	17.58	17.59	18.4	4.5
5	256QAM	1	24	17.46	17.59	17.34		
5	256QAM	12	0	17.44	17.55	17.56		
5	256QAM	12	7	17.70	17.77	17.61	18.4	4.5
5	256QAM	12	13	17.57	17.69	17.51		
5	256QAM	25	0	17.53	17.61	17.55		
Channel 131997								
Frequency (MHz)								
3	QPSK	1	0	21.83	21.99	21.64		
3	QPSK	1	8	21.78	21.83	21.83	22.9	0
3	QPSK	1	14	21.87	21.85	21.84		
3	QPSK	8	0	21.47	21.62	21.68		
3	QPSK	8	4	21.55	21.51	21.54	22.4	0.5
3	QPSK	8	7	21.64	21.64	21.46		
3	QPSK	15	0	21.57	21.51	21.50		
3	16QAM	1	0	21.73	21.83	21.72		
3	16QAM	1	8	21.73	21.90	21.93	22.4	0.5
3	16QAM	1	14	21.83	21.83	21.62		
3	16QAM	8	0	20.46	20.67	20.65		
3	16QAM	8	4	20.54	20.65	20.58	21.4	1.5
3	16QAM	8	7	20.55	20.55	20.50		
3	16QAM	15	0	20.48	20.59	20.63		
3	64QAM	1	0	20.69	20.84	20.74		
3	64QAM	8	0	20.64	20.77	20.80	21.4	1.5
3	64QAM	1	14	20.65	20.67	20.59		
3	64QAM	8	0	19.51	19.54	19.60		
3	64QAM	8	4	19.59	19.59	19.58	20.4	2.5
3	64QAM	8	7	19.54	19.54	19.54		
3	64QAM	15	0	19.58	19.49	19.65		
3	256QAM	1	0	17.53	17.64	17.53		
3	256QAM	1	8	17.40	17.55	17.56	18.4	4.5
3	256QAM	1	14	17.47	17.59	17.37		
3	256QAM	8	0	17.50	17.64	17.50		
3	256QAM	8	4	17.60	17.70	17.68	18.4	4.5
3	256QAM	8	7	17.54	17.65	17.45		
3	256QAM	15	0	17.53	17.63	17.53		
Channel 131979								
Frequency (MHz)								
1.4	QPSK	1	0	21.83	21.95	21.73		
1.4	QPSK	1	3	21.73	21.87	21.83	22.9	0
1.4	QPSK	1	5	21.82	21.85	21.80		
1.4	QPSK	3	0	21.84	21.93	21.81		
1.4	QPSK	3	1	21.83	21.82	21.60		
1.4	QPSK	3	7	21.69	21.77	21.67		
1.4	QPSK	6	0	21.58	21.60	21.64	22.4	0.5
1.4	16QAM	1	0	21.83	21.94	21.86		
1.4	16QAM	1	3	21.76	21.96	21.79		
1.4	16QAM	1	5	21.74	21.95	21.84	22.4	0.5
1.4	16QAM	3	0	21.81	22.00	21.87		
1.4	16QAM	3	1	21.81	21.97	21.91		
1.4	16QAM	3	3	21.86	21.86	21.78		
1.4	16QAM	3	7	20.72	20.85	20.79	21.4	1.5
1.4	16QAM	6	0	20.80	20.89	20.83		
1.4	64QAM	1	0	20.79	20.91	20.87		
1.4	64QAM	1	5	20.69	20.77	20.78		
1.4	64QAM	3	0	20.				



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												
Frequency (MHz)												
20	QPSK	1	0	20.06	20.06	20.06	20.06	20.06				
20	QPSK	1	49	20.21	20.22	20.22	20.22	20.22	20.8	0		
20	QPSK	1	98	20.11	20.11	20.11	20.11	20.11				
20	QPSK	50	0	20.18	20.14	20.12	20.15	20.06				
20	QPSK	50	24	20	20.04	20.04	19.99	20.01	20.8	0		
20	QPSK	50	49	20.04	20.06	20.06	20.02	20.03				
20	QPSK	100	0	20.07	20.06	20.01	19.99	19.96				
20	16QAM	1	0	20.06	19.98	20.09	20.09	20.09	20.8	0		
20	16QAM	1	49	20.36	19.80	19.81	19.85	19.84				
20	16QAM	1	99	20	20.1	20.1	20.04	20.04				
20	16QAM	50	0	20.03	20.04	20.14	20.09	20.02				
20	16QAM	50	24	20.03	20.1	20.18	20.03	20.19	20.8	0		
20	16QAM	50	50	20.03	20.11	20.16	20.13	20.03				
20	16QAM	100	0	19.99	19.98	19.99	19.94	19.97				
20	16QAM	1	49	19.94	19.98	20.08	20.07	20.04				
20	64QAM	1	49	19.99	19.99	20.09	19.99	19.97	20.8	0		
20	64QAM	1	99	20.06	20.03	20.19	20.09	20.09				
20	64QAM	50	0	19.9	19.63	19.52	19.44	19.51				
20	64QAM	50	24	19.99	19.79	19.55	19.54	19.38				
20	64QAM	50	49	19.87	19.73	19.41	19.52	19.42	20.4	0.4		
20	64QAM	100	0	19.69	19.73	19.53	19.52	19.33				
20	256QAM	1	0	17.70	17.51	17.69	17.68	17.73				
20	256QAM	1	49	17.59	17.42	17.72	17.56	17.43	18.4	2.4		
20	256QAM	1	99	17.55	17.70	17.88	17.59	17.73				
20	256QAM	50	0	17.61	17.54	17.81	17.53	17.52				
20	256QAM	50	24	17.40	17.24	17.54	17.44	17.52				
20	256QAM	50	50	17.39	17.38	17.67	17.24	17.24	18.4	2.4		
20	256QAM	100	0	17.24	17.42	17.45	17.27	17.23				
Channel												
Frequency (MHz)												
15	QPSK	1	0	20.03	20.13	20.03	20.06	20.05	Tune-up limit (dbm)	MPR (db)		
15	QPSK	1	49	20.14	20.16	20.27	20.22	20.22	20.80	0		
15	QPSK	1	74	20.13	20.14	20.13	20.12	20.08				
15	QPSK	36	0	20.10	20.10	20.12	20.14	20.11				
15	QPSK	36	20	20.11	20.03	19.99	20.01	20.10	20.8	0		
15	QPSK	36	39	20.10	20.15	20.11	20.02	20.11				
15	QPSK	72	0	20.10	19.96	20.01	19.97	20.01				
15	16QAM	1	0	19.93	19.99	20.00	20.03	19.94				
15	16QAM	1	37	19.94	19.95	19.88	19.94	19.96	20.8	0		
15	16QAM	1	74	19.98	19.99	19.99	20.01	20.01				
15	16QAM	36	0	20.11	20.14	20.08	20.01	20.02				
15	16QAM	36	20	20.12	20.15	20.07	20.07	20.07	20.8	0		
15	16QAM	36	39	20.14	20.01	20.06	20.09	20.13				
15	16QAM	72	0	19.98	19.92	19.98	19.93	19.84				
15	16QAM	1	0	20.00	20.08	20.02	20.05	20.05				
15	16QAM	1	37	19.94	19.91	19.95	19.99	19.96	20.8	0		
15	16QAM	1	74	19.98	20.13	20.01	20.11	20.02				
15	16QAM	36	0	19.54	19.61	19.56	19.53	19.53				
15	16QAM	36	20	19.54	19.60	19.40	19.47	19.19	20.4	0.4		
15	16QAM	36	39	19.57	19.59	19.47	19.45	19.40				
15	16QAM	72	0	19.53	19.54	19.37	19.40	19.44				
15	256QAM	1	0	17.61	17.39	17.67	17.59	17.73				
15	256QAM	1	37	17.47	17.26	17.56	17.51	17.51	18.4	2.4		
15	256QAM	1	74	17.46	17.45	17.49	17.45	17.45				
15	256QAM	36	0	17.47	17.38	17.67	17.34	17.37				
15	256QAM	36	20	17.25	17.25	17.39	17.21	17.21	18.4	2.4		
15	256QAM	36	39	17.24	17.15	17.23	17.13	17.18				
15	256QAM	72	0	17.18	17.36	17.28	17.17	17.35				
Channel												
Frequency (MHz)												
10	QPSK	1	0	20.01	20.07	20.01	20.03	20.03	Tune-up limit (dbm)	MPR (db)		
10	QPSK	1	49	20.17	20.17	20.27	20.26	20.26	20.80	0		
10	QPSK	1	98	20.19	20.19	20.27	20.11	20.23				
10	QPSK	1	49	20.07	20.16	20.12	20.16	20.12				
10	QPSK	25	0	20.09	20.10	20.19	20.08	20.14				
10	QPSK	25	12	20.06	20.11	20.14	19.99	20.04	20.8	0		
10	QPSK	25	25	20.06	20.12	20.10	20.04	20.08				
10	QPSK	50	0	20.01	20.08	20.01	19.99	19.99				
10	16QAM	1	0	19.99	19.99	19.99	19.99	19.99	20.8	0		
10	16QAM	1	25	19.95	19.97	19.90	19.94	19.87				
10	16QAM	1	50	19.11	19.98	19.99	19.98	19.98				
10	16QAM	25	0	20.12	20.12	20.05	20.11	20.05				
10	16QAM	25	12	20.14	20.07	20.07	20.09	20.05	20.8	0		
10	16QAM	25	25	20.13	20.15	20.02	20.13	20.13				
10	16QAM	50	0	19.94	19.93	19.96	19.94	19.87				
10	64QAM	1	0	20.04	19.94	19.93	19.94	20.06				
10	64QAM	1	25	20.01	20.03	20.04	19.97	19.97	20.8	0		
10	64QAM	1	49	20.09	20.04	20.02	19.99	20.01				
10	64QAM	25	0	19.94	19.95	19.46	19.29	19.30				
10	64QAM	25	12	19.90	19.95	19.36	19.45	19.36	20.4	0.4		
10	64QAM	25	25	19.60	19.68	19.60	19.42	19.30				
10	64QAM	50	0	19.56	19.56	19.54	19.53	19.53				
10	256QAM	1	0	17.61	17.43	17.60	17.66	17.71				
10	256QAM	1	25	17.43	17.35	17.56	17.47	17.51	18.4	2.4		
10	256QAM	1	49	17.51	17.42	17.54	17.45	17.45				
10	256QAM	25	0	17.47	17.37	17.47	17.53	17.46				
10	256QAM	25	12	17.41	17.36	17.45	17.27	17.43	18.4	2.4		
10	256QAM	25	25	17.33	17.30	17.30	17.21	17.21				
10	256QAM	50	0	17.21	17.27	17.32	17.10	17.36				
Channel												
Frequency (MHz)												
5	QPSK	1	0	20.13	20.16	20.19	20.16	20.26	Tune-up limit (dbm)	MPR (db)		
5	QPSK	1	12	20.17	20.18	20.29	20.08	20.19	20.80	0		
5	QPSK	1	25	20.16	20.14	20.23	20.13	20.14				
5	QPSK	12	0	20.13	20.16	20.05	20.10	20.14				
5	QPSK	12	7	20.02	19.99	20.07	20.08	20.14	20.8	0		
5	QPSK	12	13	20.15	20.01	20.03	20.10	20.09				
5	QPSK	25	0	20.05	20.09	19.97	20.07	19.97				
5	16QAM	1	0	20.06	20.02	19.94	19.94	20.05	20.8	0		
5	16QAM	1	12	19.88	19.83	19.97	19.88	19.97				
5	16QAM	1	24	20.00	20.06	20.11	20.08	20.08				
5	16QAM	12	0	19.98	20.09	20.03	20.03	20.03	20.8	0		
5	16QAM	12	7	20.07	20.06	20.09	20.12	20.05				
5	16QAM	12	13	20.14	20.02	20.16	20.09	20.10				
5	16QAM	25	0	19.98	19.97	19.87	19.89	19.89				
5	64QAM	1	0	20.08	19.96	20.04	20.06	20.07	20.8	0		
5	64QAM	1	12	20.07	19.94	20.01	19.99	19.99				
5	64QAM	1	24	20.08	19.98	19.41	19.51	20.02				
5	64QAM	12	0	19.49	19.49	19.21	19.37	19.30				
5	64QAM	12	7	19.66	19.65	19.52	19.52	19.38	20.4	0.4		
5	64QAM	12	13	19.53	19.59	19.43	19.30	19.20				
5	64QAM	25	0	19.58	19.58	19.42	19.38	19.16				
5	256QAM	1	0	17.64	17.43	17.46	17.63	17.63				
5	256QAM	1	12	17.55	17.31	17.68	17.55	17.40	18.4	2.4		
5	256QAM	1	24	17.36	17.32	17.39	17.31	17.42				
5	256QAM	12	0	17.45	17.50	17.45	17.45	17.45				
5	256QAM	12	7	17.26	17.26	17.40	17.43	17.54	18.4	2.4		
5	256QAM	12	13	17.29	17.32	17.28	17.20	17.24				
5	256QAM	25	0	17.33	17.44	17.41	17.21	17.21				



Band 41_Ant 6

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										
	Frequency (MHz)			39750	40185	40620	41055	41480		
20	QPSK	1	0	19.49	19.52	19.49	19.49	19.44	20.3	0
20	QPSK	1	49	19.48	19.34	19.48	19.36	19.45		
20	QPSK	1	99	19.45	19.49	19.52	19.41	19.38		
20	QPSK	50	0	19.48	19.50	19.53	19.41	19.46		
20	QPSK	50	24	19.41	19.39	19.47	19.46	19.36	20.3	0
20	QPSK	50	50	19.42	19.36	19.44	19.36	19.31		
20	QPSK	100	0	19.42	19.44	19.48	19.40	19.44		
20	16QAM	1	0	19.32	19.30	19.44	19.29	19.41		
20	16QAM	1	49	19.44	19.37	19.38	19.36	19.31	20.3	0
20	16QAM	1	99	19.37	19.38	19.40	19.37	19.39		
20	16QAM	50	0	19.37	19.44	19.51	19.40	19.44		
20	16QAM	50	24	19.26	19.31	19.38	19.28	19.29		
20	16QAM	50	50	19.35	19.37	19.39	19.39	19.29	20.3	0
20	16QAM	100	0	19.31	19.43	19.48	19.40	19.39		
20	64QAM	1	0	19.37	19.39	19.47	19.35	19.46		
20	64QAM	1	49	19.45	19.42	19.54	19.41	19.51	20.3	0
20	64QAM	1	99	19.39	19.45	19.45	19.33	19.45		
20	64QAM	50	0	19.38	19.39	19.39	19.34	19.37		
20	64QAM	50	24	19.48	19.40	19.49	19.35	19.43	20.3	0
20	64QAM	50	50	19.47	19.42	19.50	19.46	19.50		
20	64QAM	100	0	19.50	19.50	19.54	19.46	19.42		
20	256QAM	1	0	18.20	18.40	18.26	18.30	18.29		
20	256QAM	1	49	19.50	18.31	19.50	18.45	18.37	19.3	1
20	256QAM	1	99	18.33	18.33	19.49	18.34	18.40		
20	256QAM	50	0	18.39	18.23	18.44	18.18	18.28		
20	256QAM	50	24	18.26	18.37	19.36	18.50	18.41	19.3	1
20	256QAM	50	50	18.41	18.36	18.48	18.24	18.22		
20	256QAM	100	0	18.23	18.43	18.34	18.27	18.31		
Channel										
	Frequency (MHz)			25015	25451	25913	26378	26815	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	19.44	19.45	19.47	19.52	19.44	20.30	0
15	QPSK	1	37	19.42	19.36	19.47	19.48	19.41		
15	QPSK	1	74	19.48	19.42	19.44	19.48	19.47		
15	QPSK	36	0	19.43	19.52	19.53	19.39	19.50		
15	QPSK	36	20	19.37	19.35	19.38	19.44	19.47	20.3	0
15	QPSK	36	39	19.44	19.41	19.41	19.37	19.37		
15	QPSK	75	0	19.43	19.48	19.42	19.42	19.47		
15	16QAM	1	0	19.41	19.33	19.35	19.42	19.38		
15	16QAM	1	37	19.38	19.38	19.52	19.43	19.47	20.3	0
15	16QAM	1	74	19.36	19.28	19.35	19.28	19.27		
15	16QAM	36	0	19.47	19.47	19.42	19.44	19.41		
15	16QAM	36	20	19.26	19.29	19.38	19.35	19.34	20.3	0
15	16QAM	36	39	19.30	19.39	19.28	19.34	19.33		
15	16QAM	75	0	19.37	19.33	19.44	19.45	19.38		
15	64QAM	1	0	19.42	19.45	19.39	19.38	19.40		
15	64QAM	1	37	19.42	19.49	19.39	19.40	19.51	20.3	0
15	64QAM	1	74	19.33	19.34	19.34	19.33	19.33		
15	64QAM	36	0	19.32	19.27	19.37	19.28	19.24		
15	64QAM	36	20	19.42	19.41	19.41	19.39	19.39		
15	64QAM	36	39	19.36	19.46	19.40	19.47	19.46	20.3	0
15	64QAM	75	0	19.51	19.49	19.39	19.40	19.48		
15	256QAM	1	0	18.19	18.20	18.20	18.18	18.23		
15	256QAM	1	37	18.40	18.22	18.40	18.43	18.25	19.3	1
15	256QAM	1	74	18.26	18.29	18.42	18.18	18.40		
15	256QAM	36	0	18.35	18.17	18.40	18.01	18.28		
15	256QAM	36	20	18.22	18.18	18.32	18.40	18.22	19.3	1
15	256QAM	36	39	18.37	18.33	18.44	18.17	18.14		
15	256QAM	75	0	18.11	18.11	18.22	18.21	18.27		
Channel										
	Frequency (MHz)			29001	29069	29100	29169	29200	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	19.50	19.46	19.48	19.54	19.44	20.30	0
10	QPSK	1	25	19.40	19.44	19.33	19.46	19.34		
10	QPSK	1	49	19.47	19.41	19.45	19.45	19.40		
10	QPSK	25	0	19.40	19.49	19.47	19.50	19.48		
10	QPSK	25	12	19.33	19.37	19.33	19.37	19.38	20.3	0
10	QPSK	25	25	19.37	19.35	19.38	19.33	19.45		
10	QPSK	50	0	19.34	19.33	19.40	19.39	19.45		
10	16QAM	1	0	19.36	19.43	19.43	19.38	19.31		
10	16QAM	1	25	19.44	19.53	19.49	19.58	19.52	20.3	0
10	16QAM	1	49	19.35	19.34	19.38	19.32	19.27		
10	16QAM	25	0	19.49	19.36	19.49	19.48	19.48		
10	16QAM	25	12	19.31	19.35	19.29	19.25	19.35	20.3	0
10	16QAM	25	25	19.39	19.24	19.25	19.33	19.28		
10	16QAM	50	0	19.33	19.38	19.34	19.36	19.39		
10	64QAM	1	0	19.33	19.44	19.37	19.33	19.45		
10	64QAM	1	25	19.51	19.50	19.42	19.50	19.42	20.3	0
10	64QAM	1	49	19.45	19.37	19.44	19.35	19.42		
10	64QAM	25	0	19.27	19.24	19.24	19.37	19.26		
10	64QAM	25	12	19.40	19.41	19.42	19.49	19.45	20.3	0
10	64QAM	25	25	19.43	19.36	19.36	19.50	19.50		
10	64QAM	50	0	19.54	19.50	19.54	19.43	19.41		
10	256QAM	1	0	18.01	18.35	18.07	18.14	18.19		
10	256QAM	1	25	18.34	18.25	18.34	18.39	18.20	19.3	1
10	256QAM	1	49	18.24	18.31	18.40	18.16	18.24		
10	256QAM	25	0	18.35	18.06	18.40	18.16	18.25		
10	256QAM	25	12	18.08	18.29	18.18	18.41	18.22	19.3	1
10	256QAM	25	25	18.38	18.33	18.45	18.08	18.03		
10	256QAM	50	0	18.20	18.24	18.31	18.22	18.16		
Channel										
	Frequency (MHz)			38975	40148	40603	41063	41505	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	19.68	19.52	19.45	19.47	19.59	20.30	0
5	QPSK	1	12	19.43	19.38	19.43	19.44	19.38		
5	QPSK	1	24	19.40	19.49	19.46	19.41	19.41		
5	QPSK	12	0	19.38	19.51	19.39	19.46	19.42		
5	QPSK	12	7	19.36	19.35	19.32	19.47	19.36	20.3	0
5	QPSK	12	13	19.37	19.38	19.44	19.42	19.44		
5	QPSK	24	0	19.43	19.43	19.44	19.40	19.45		
5	16QAM	1	0	19.42	19.38	19.35	19.38	19.40		
5	16QAM	1	12	19.57	19.45	19.55	19.52	19.46	20.3	0
5	16QAM	1	24	19.39	19.30	19.25	19.29	19.35		
5	16QAM	12	0	19.46	19.44	19.34	19.36	19.48		
5	16QAM	12	7	19.39	19.30	19.39	19.38	19.28		
5	16QAM	12	13	19.37	19.28	19.37	19.27	19.25	20.3	0
5	16QAM	25	0	19.33	19.43	19.37	19.41	19.39		
5	64QAM	1	0	19.40	19.32	19.43	19.33	19.33		
5	64QAM	1	12	19.48	19.46	19.48	19.47	19.39	20.3	0
5	64QAM	1	24	19.35	19.52	19.42	19.37	19.33		
5	64QAM	12	0	19.29	19.36	19.28	19.28	19.36		
5	64QAM	12	7	19.44	19.36	19.40	19.46	19.34	20.3	0
5	64QAM	12	13	19.35	19.46	19.40	19.47	19.44		
5	64QAM	25	0	19.39	19.46	19.52	19.49	19.39		
5	256QAM	1	0	18.18	18.37	18.24	18.14	18.26		
5	256QAM	1	12	18.34	18.27	18.34	18.34	18.28	19.3	1
5	256QAM	1	24	18.28	18.29	18.44	18.30	18.38		
5	256QAM	12	0	18.26	18.21	18.31	18.17	18.14		
5	256QAM	12	7	18.11	18.24	18.21	18.33	18.39	19.3	1
5	256QAM	12	13	18.34	18.22	18.41	18.09	18.15		
5	256QAM	25	0	18.10	18.33	18.21	18.24	18.24		

Band 41_Ant 4 (HPUE)

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										
Frequency (MHz)		39750	40185	40620	41065	41480				
20	QPSK	1	0	21.68	21.65	21.70	21.74	21.76	22.4	0
20	QPSK	1	49	21.54	21.52	21.65	21.57	21.63		
20	QPSK	1	99	21.61	21.65	21.76	21.66	21.71		
20	QPSK	50	0	21.63	21.56	21.71	21.6	21.61		
20	QPSK	50	24	21.6	21.6	21.66	21.67	21.6	22.4	0
20	QPSK	50	50	21.59	21.66	21.66	21.54	21.58		
20	QPSK	100	0	21.56	21.57	21.62	21.55	21.53		
20	16QAM	1	0	21.64	21.68	21.63	21.72	21.74		
20	16QAM	1	49	21.65	21.62	21.76	21.64	21.67	22.4	0
20	16QAM	1	99	21.64	21.69	21.76	21.76	21.66		
20	16QAM	50	0	21.71	21.73	21.74	21.68	21.7		
20	16QAM	50	24	21.5	21.63	21.64	21.59	21.57		
20	16QAM	50	50	21.67	21.65	21.76	21.67	21.7	22.4	0
20	16QAM	100	0	21.63	21.63	21.69	21.62	21.62		
20	64QAM	1	0	21.69	21.56	21.7	21.69	21.68		
20	64QAM	1	49	21.54	21.57	21.66	21.66	21.51		
20	64QAM	1	99	21.73	21.67	21.76	21.74	21.73	22.4	0
20	64QAM	50	0	21.37	21.45	21.39	21.39	21.41		
20	64QAM	50	24	21.4	21.45	21.44	21.51	21.39		
20	64QAM	50	50	21.51	21.55	21.53	21.44	21.47		
20	64QAM	100	0	21.41	21.54	21.47	21.43	21.43	22.4	0
20	256QAM	1	0	19.65	19.63	19.66	19.66	19.63		
20	256QAM	1	49	19.4	19.45	19.56	19.56	19.45		
20	256QAM	50	24	19.27	19.43	19.47	19.37	19.40		
20	256QAM	50	50	19.26	19.31	19.42	19.24	19.27	20.4	2
20	256QAM	100	0	19.32	19.33	19.45	19.29	19.34		
Channel										
Frequency (MHz)		40620	41065	41480	41905	42350	42795	43240	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	21.77	21.78	21.66	21.73	21.71	22.40	0
15	QPSK	1	23	21.37	21.59	21.58	21.73	21.71		
15	QPSK	1	74	21.74	21.72	21.64	21.64	21.74		
15	QPSK	36	20	21.68	21.68	21.71	21.59	21.64		
15	QPSK	36	20	21.56	21.62	21.63	21.58	21.62	22.4	0
15	QPSK	36	39	21.61	21.61	21.57	21.48	21.64		
15	QPSK	75	0	21.60	21.57	21.57	21.48	21.57		
15	16QAM	1	0	21.52	21.48	21.61	21.58	21.55		
15	16QAM	1	37	21.74	21.68	21.74	21.63	21.73	22.4	0
15	16QAM	1	74	21.67	21.70	21.70	21.64	21.64		
15	16QAM	36	0	21.60	21.65	21.59	21.61	21.70		
15	16QAM	36	20	21.60	21.60	21.53	21.64	21.61		
15	16QAM	36	39	21.70	21.64	21.68	21.68	21.75	22.4	0
15	16QAM	75	0	21.61	21.62	21.66	21.60	21.54		
15	16QAM	75	0	21.68	21.69	21.63	21.55	21.62		
15	64QAM	1	21	21.58	21.51	21.57	21.57	21.65		
15	64QAM	1	74	21.71	21.72	21.64	21.66	21.62	22.4	0
15	64QAM	36	0	21.57	21.63	21.57	21.59	21.67		
15	64QAM	36	20	21.62	21.59	21.60	21.64	21.58		
15	64QAM	36	39	21.56	21.58	21.54	21.55	21.58		
15	64QAM	75	75	21.57	21.68	21.60	21.60	21.60	20.4	2
15	256QAM	1	0	19.53	19.59	19.62	19.58	19.57		
15	256QAM	1	37	19.34	19.39	19.52	19.35	19.38		
15	256QAM	1	74	19.52	19.54	19.48	19.48	19.41		
15	256QAM	36	0	19.44	19.27	19.47	19.32	19.37	20.4	2
15	256QAM	36	20	19.36	19.21	19.30	19.33	19.32		
15	256QAM	36	39	19.22	19.35	19.18	19.15	19.15		
15	256QAM	75	0	19.22	19.21	19.39	19.19	19.24		
Channel										
Frequency (MHz)		43240	43690	44020	44395	44800	45240	45685	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	21.70	21.70	21.77	21.70	21.69	22.40	0
10	QPSK	1	25	21.62	21.67	21.63	21.53	21.53		
10	QPSK	1	49	21.68	21.63	21.68	21.61	21.68		
10	QPSK	25	0	21.64	21.71	21.69	21.57	21.59		
10	QPSK	25	12	21.64	21.63	21.62	21.56	21.62	22.4	0
10	QPSK	25	25	21.62	21.54	21.53	21.56	21.54		
10	QPSK	50	0	21.49	21.52	21.53	21.55	21.54		
10	16QAM	1	0	21.53	21.51	21.54	21.60	21.59		
10	16QAM	1	25	21.62	21.65	21.66	21.72	21.61	22.4	0
10	16QAM	1	49	21.61	21.75	21.73	21.64	21.73		
10	16QAM	1	99	21.72	21.62	21.63	21.69	21.69		
10	16QAM	25	12	21.53	21.56	21.50	21.56	21.54		
10	16QAM	25	12	21.63	21.63	21.57	21.77	21.73	22.4	0
10	16QAM	50	0	21.67	21.63	21.59	21.57	21.64		
10	64QAM	1	0	21.64	21.55	21.70	21.67	21.65		
10	64QAM	1	25	21.52	21.63	21.53	21.53	21.53		
10	64QAM	1	49	21.70	21.71	21.63	21.68	21.74	22.4	0
10	64QAM	25	0	21.64	21.61	21.57	21.60	21.60		
10	64QAM	25	12	21.52	21.63	21.52	21.52	21.52		
10	64QAM	25	25	21.54	21.50	21.64	21.62	21.51		
10	64QAM	50	0	21.57	21.63	21.53	21.57	21.64	22.4	0
10	256QAM	1	0	19.53	19.46	19.49	19.41	19.48		
10	256QAM	1	25	19.35	19.38	19.50	19.32	19.43		
10	256QAM	1	49	19.40	19.52	19.51	19.48	19.42		
10	256QAM	25	12	19.46	19.29	19.45	19.38	19.38	20.4	2
10	256QAM	25	25	19.35	19.15	19.32	19.25	19.39		
10	256QAM	50	0	19.22	19.21	19.27	19.27	19.27		
10	256QAM	50	0	19.37	19.26	19.42	19.22	19.25		
Channel										
Frequency (MHz)		45685	46135	46260	46635	47080	47525	47970	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	21.66	21.76	21.70	21.78	21.77	22.40	0
5	QPSK	1	12	21.63	21.64	21.59	21.59	21.59		
5	QPSK	1	24	21.67	21.63	21.74	21.70	21.68		
5	QPSK	12	0	21.68	21.67	21.63	21.70	21.66		
5	QPSK	12	7	21.59	21.64	21.64	21.61	21.57	22.4	0
5	QPSK	12	12	21.57	21.63	21.61	21.59	21.59		
5	QPSK	25	0	21.57	21.51	21.59	21.58	21.58		
5	16QAM	1	0	21.53	21.62	21.58	21.60	21.59		
5	16QAM	1	12	21.57	21.74	21.73	21.71	21.71	22.4	0
5	16QAM	1	24	21.73	21.70	21.74	21.68	21.63		
5	16QAM	12	0	21.68	21.66	21.63	21.66	21.63		
5	16QAM	12	7	21.57	21.62	21.62	21.60	21.53		
5	16QAM	12	13	21.69	21.66	21.65	21.78	21.63	22.4	0
5	16QAM	25	0	21.68	21.63	21.55	21.67	21.55		
5	64QAM	1	0	21.60	21.68	21.70	21.58	21.58		
5	64QAM	1	12	21.60	21.54	21.63	21.63	21.56		
5	64QAM	12	0	21.62	21.66	21.74	21.74	21.71	22.4	0
5	64QAM	12	0	21.61	21.65	21.60	21.61	21.54		
5	64QAM	12	7	21.60	21.55	21.56	21.62	21.61		
5	64QAM	12	13	21.62	21.53	21.53	21.51	21.53		
5	64QAM	25	0	21.60	21.52	21.58	21.62	21.64	20.4	2
5	256QAM	1	0	19.64	19.62	19.62	19.58	19.62		
5	256QAM	1	24	19.35	19.44	19.50	19.47	19.44		
5	256QAM	1	12	19.35	19.38	19.49	19.46	19.32		
5	256QAM	12	7	19.31	19.28	19.26	19.26	19.31	20.4	2
5	256QAM	12	13	19.25	19.24	19.39	19.13	19.17		
5	256QAM	25	0	19.22	19.22	19.27	19.27	19.27		

Band 41_Ant 6 (HPUE)

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 Frequency (MHz)										
20	QPSK	1	0	39750	40185	40620	41055	41490	21.9	0
20	QPSK	1	49	2121	2125	2134	2127	2127		
20	QPSK	1	99	2105	2104	2113	2106	2108	21.9	0
20	QPSK	50	0	2119	2118	2129	2126	2121		
20	QPSK	50	24	2113	2121	2124	2117	2118	21.9	0
20	QPSK	50	50	2105	2119	2119	2115	2104		
20	QPSK	100	0	2120	2111	2124	2110	2112	21.9	0
20	16QAM	1	0	2123	2122	2132	2122	2124		
20	16QAM	1	49	2115	2121	2124	2112	2115	21.9	0
20	16QAM	1	99	2113	2121	2124	2124	2123		
20	16QAM	50	0	2137	2126	2137	2135	2125	21.9	0
20	16QAM	50	24	2109	2115	2116	2111	2102		
20	16QAM	50	50	2114	2123	2124	2116	2119	21.9	0
20	16QAM	100	0	2119	2125	2125	2122	2118		
20	64QAM	1	0	2118	2108	2118	2108	2112	21.9	0
20	64QAM	1	49	2123	2114	2127	2116	2123		
20	64QAM	1	99	2134	2126	2138	2125	2130	21.9	0
20	64QAM	50	0	2125	2123	2138	2124	2130		
20	64QAM	50	24	2112	2114	2125	2111	2117	21.9	0
20	64QAM	50	50	2109	2109	2116	2113	2115		
20	64QAM	100	0	2122	2112	2123	2123	2114	21.3	0.6
20	256QAM	1	0	2041	2041	2046	2038	2041		
20	256QAM	1	49	2050	2051	2057	2049	2050	21.3	0.6
20	256QAM	1	99	2032	2032	2040	2032	2035		
20	256QAM	50	0	2033	2038	2043	2038	2036	21.3	0.6
20	256QAM	50	24	2037	2035	2042	2037	2032		
20	256QAM	50	50	2024	2024	2033	2024	2023	21.3	0.6
20	256QAM	100	0	2025	2025	2034	2024	2023		
Channel Frequency (MHz)										
15	QPSK	1	0	39725	40173	40620	41068	41515	21.9	0
15	QPSK	1	37	2121	2124	2126	2133	2133		
15	QPSK	1	74	2101	2102	2099	2108	2107	21.9	0
15	QPSK	36	0	2122	2127	2128	2128	2124		
15	QPSK	36	20	2113	2114	2111	2115	2122	21.9	0
15	QPSK	36	50	2108	2118	2118	2122	2123		
15	QPSK	75	0	2116	2112	2116	2120	2117	21.9	0
15	16QAM	1	0	2125	2130	2126	2131	2129		
15	16QAM	1	37	2114	2120	2119	2120	2110	21.9	0
15	16QAM	1	74	2117	2112	2123	2123	2109		
15	16QAM	36	0	2108	2108	2112	2108	2103	21.9	0
15	16QAM	36	20	2110	2113	2111	2116	2103		
15	16QAM	36	50	2121	2121	2113	2121	2101	21.9	0
15	16QAM	75	0	2118	2118	2111	2111	2102		
15	64QAM	1	0	2111	2111	2114	2110	2108	21.9	0
15	64QAM	1	37	2112	2116	2116	2124	2112		
15	64QAM	36	0	2120	2127	2127	2132	2129	21.9	0
15	64QAM	36	0	2128	2125	2126	2132	2134		
15	64QAM	36	20	2114	2124	2112	2121	2116	21.9	0
15	64QAM	36	50	2107	2113	2113	2115	2103		
15	64QAM	75	0	2114	2118	2110	2113	2118	21.3	0.6
15	256QAM	1	0	2038	2041	2043	2028	2032		
15	256QAM	1	37	2044	2038	2051	2049	2036	21.3	0.6
15	256QAM	1	74	2028	2029	2036	2030	2027		
15	256QAM	36	0	2021	2026	2041	2029	2020	21.3	0.6
15	256QAM	36	20	2027	2021	2032	2030	2026		
15	256QAM	36	50	2020	2014	2029	2009	2017	21.3	0.6
15	256QAM	75	0	2017	2020	2020	2021	2011		
Channel Frequency (MHz)										
10	QPSK	1	0	39700	40169	40620	41080	41540	21.9	0
10	QPSK	1	25	2129	2133	2137	2127	2131		
10	QPSK	1	49	2099	2109	2110	2103	2111	21.9	0
10	QPSK	25	0	2125	2122	2123	2128	2128		
10	QPSK	25	12	2109	2123	2121	2124	2124	21.9	0
10	QPSK	25	25	2111	2115	2112	2119	2109		
10	QPSK	50	0	2111	2122	2119	2122	2120	21.9	0
10	16QAM	1	0	2123	2121	2124	2119	2125		
10	16QAM	1	25	2112	2120	2111	2111	2114	21.9	0
10	16QAM	1	49	2111	2120	2111	2115	2114		
10	16QAM	25	0	2133	2122	2133	2135	2134	21.9	0
10	16QAM	25	12	2104	2107	2113	2111	2102		
10	16QAM	25	25	2115	2123	2115	2112	2115	21.9	0
10	16QAM	50	0	2119	2111	2111	2114	2117		
10	64QAM	1	0	2110	2110	2106	2106	2118	21.9	0
10	64QAM	1	25	2119	2129	2124	2119	2114		
10	64QAM	1	49	2131	2138	2138	2132	2125	21.9	0
10	64QAM	25	0	2128	2128	2124	2129	2134		
10	64QAM	25	12	2110	2119	2123	2113	2113	21.9	0
10	64QAM	25	25	2112	2103	2116	2107	2112		
10	256QAM	1	0	2122	2115	2119	2109	2120	21.3	0.6
10	256QAM	1	25	2037	2032	2040	2040	2040		
10	256QAM	1	49	2025	2031	2033	2020	2021	21.3	0.6
10	256QAM	25	0	2024	2034	2034	2030	2022		
10	256QAM	25	12	2028	2027	2033	2020	2016	21.3	0.6
10	256QAM	25	25	2023	2024	2032	2013	2006		
10	256QAM	50	0	2008	2012	2017	2022	2019	21.3	0.6
10	256QAM	50	0	2006	2006	2002	2003	2003		
Channel Frequency (MHz)										
5	QPSK	1	0	2498.5	2545.8	2593	2640.30	2687.5	21.9	0
5	QPSK	1	12	2125	2127	2121	2133	2125		
5	QPSK	1	24	2109	2101	2111	2108	2110	21.9	0
5	QPSK	12	0	2126	2117	2122	2128	2118		
5	QPSK	12	7	2118	2119	2112	2122	2122	21.9	0
5	QPSK	12	13	2112	2111	2115	2109	2109		
5	QPSK	25	0	2116	2109	2117	2110	2114	21.9	0
5	16QAM	1	0	2118	2129	2131	2120	2117		
5	16QAM	1	12	2112	2114	2110	2109	2124	21.9	0
5	16QAM	1	24	2119	2117	2116	2118	2112		
5	16QAM	12	0	2134	2123	2131	2137	2128	21.9	0
5	16QAM	12	7	2107	2112	2116	2103	2107		
5	16QAM	12	13	2110	2109	2115	2110	2109	21.9	0
5	16QAM	25	0	2110	2110	2116	2112	2115		
5	64QAM	1	0	2112	2115	2105	2109	2114	21.9	0
5	64QAM	1	12	2113	2115	2113	2119	2124		
5	64QAM	1	24	2127	2127	2126	2137	2132	21.9	0
5	64QAM	12	0	2127	2134	2130	2132	2128		
5	64QAM	12	7	2119	2117	2123	2110	2124	21.9	0
5	64QAM	12	13	2112	2113	2107	2104	2106		
5	64QAM	25	0	2111	2123	2114	2120	2119	21.3	0.6
5	256QAM	1	0	2040	2031	2045	2021	2028		
5	256QAM	1	12	2031	2037	2038	2047	2031	21.3	0.6
5	256QAM	1	24	2027	2014	2035	2020	2018		
5	256QAM	12	0	2020	2037	2030	2025	2021	21.3	0.6
5	256QAM	12	7	2024	2018	2029	2020	2025		
5	256QAM	12	13	2017	2007	2026	2013	2022	21.3	0.6
5	256QAM	25	0	2010	2011	2019	2006	2017		

Band 48_Ant 6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.</
----------	------------	---------	-----------	-----------------------	------------------------------	---------------------------------

Band 48_Ant 13

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	19.71	19.65	19.56	19.40	20.8	4
20	QPSK	1	49	23.81	23.53	23.58	23.55	24.8	0
20	QPSK	1	99	19.73	19.63	19.58	19.67	20.8	4
20	QPSK	50	0	22.84	22.65	22.72	22.76	23.8	1
20	QPSK	50	24	22.80	22.68	22.76	22.70	23.8	1
20	QPSK	50	50	22.81	22.68	22.66	22.63	23.8	1
20	QPSK	100	0	19.50	19.79	19.84	19.75	20.8	4
20	16QAM	1	0	18.64	18.54	18.50	18.50	19.8	5
20	16QAM	1	49	22.05	22.47	22.57	22.54	23.8	1
20	16QAM	1	99	18.66	18.57	18.61	18.59	19.8	5
20	16QAM	50	0	21.85	21.77	21.71	21.77	22.8	2
20	16QAM	50	24	21.88	21.77	21.77	21.79	22.8	2
20	16QAM	50	50	21.81	21.61	21.73	21.72	22.8	2
20	16QAM	100	0	18.81	18.65	18.76	18.65	19.8	5
20	64QAM	1	0	17.75	17.67	17.63	17.70	18.8	6
20	64QAM	1	49	21.85	21.62	21.80	21.78	22.8	2
20	64QAM	1	99	17.79	17.74	17.74	17.70	18.8	6
20	64QAM	50	0	20.87	20.77	20.72	20.75	21.8	3
20	64QAM	50	24	20.89	20.73	20.73	20.81	21.8	3
20	64QAM	50	50	20.81	20.72	20.73	20.64	21.8	3
20	64QAM	100	0	17.81	17.84	17.74	17.76	18.8	6
20	256QAM	1	0	14.87	14.86	14.77	14.81	15.8	9
20	256QAM	1	49	18.75	18.67	18.63	18.57	19.8	6
20	256QAM	1	99	14.80	14.70	14.81	14.69	15.8	9
20	256QAM	50	0	18.83	18.64	18.65	18.64	19.8	5
20	256QAM	50	24	18.82	18.74	18.66	18.72	19.8	5
20	256QAM	50	50	18.81	18.67	18.63	18.75	19.8	5
20	256QAM	100	0	15.88	15.68	15.73	15.71	16.8	8
Channel				55315	55800	56160	56665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				35575	36060	36420	36925		
15	QPSK	1	0	19.63	19.51	19.43	19.43	19.8	5
15	QPSK	1	37	23.69	23.56	23.60	23.55	24.8	0
15	QPSK	1	74	19.68	19.56	19.50	19.44	19.8	5
15	QPSK	36	0	22.82	22.65	22.76	22.62	23.8	1
15	QPSK	36	20	22.85	22.67	22.75	22.66	23.8	1
15	QPSK	36	39	22.77	22.68	22.72	22.72	23.8	1
15	QPSK	75	0	20.92	20.75	20.81	20.75	21.8	3
15	16QAM	1	0	17.88	17.74	17.77	17.70	18.8	6
15	16QAM	1	37	21.95	21.50	21.75	21.76	22.8	2
15	16QAM	1	74	17.75	17.58	17.64	17.67	18.8	6
15	16QAM	36	0	20.89	20.68	20.66	20.71	21.8	3
15	16QAM	36	20	20.88	20.81	20.72	20.81	21.8	3
15	16QAM	36	39	18.74	18.58	18.55	18.54	18.8	6
15	16QAM	75	0	18.82	18.60	18.53	18.47	19.8	5
15	64QAM	1	0	16.70	16.60	16.71	16.70	17.8	5
15	64QAM	1	37	22.79	22.72	22.71	22.74	23.8	1
15	64QAM	1	74	18.75	18.62	18.56	18.62	19.8	5
15	64QAM	36	0	21.83	21.67	21.73	21.77	22.8	2
15	64QAM	36	20	21.83	21.66	21.71	21.70	22.8	2
15	64QAM	36	39	21.79	21.66	21.73	21.61	22.8	2
15	64QAM	75	0	19.81	19.68	19.68	19.62	20.8	4
15	256QAM	1	0	14.77	14.69	14.61	14.64	15.8	9
15	256QAM	1	37	18.74	18.66	18.65	18.67	19.8	5
15	256QAM	1	74	14.76	14.59	14.60	14.60	15.8	9
15	256QAM	36	0	18.84	18.64	18.74	18.66	19.8	5
15	256QAM	36	20	18.85	18.67	18.77	18.70	19.8	5
15	256QAM	36	39	18.80	18.74	18.61	18.66	19.8	5
15	256QAM	75	0	16.89	16.67	16.74	16.75	17.8	7
Channel				55590	56815	56165	56660	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				35530	36075	36435	36930		
10	QPSK	1	0	23.70	23.78	23.78	23.72	24.8	0
10	QPSK	1	25	23.70	23.72	23.74	23.79		
10	QPSK	1	49	23.78	23.75	23.75	23.75	23.8	1
10	QPSK	25	0	23.60	23.84	23.84	22.81		
10	QPSK	25	12	23.02	22.90	22.96	22.82	23.8	1
10	QPSK	25	49	22.83	22.65	22.84	22.77		
10	QPSK	50	0	22.98	22.85	22.84	22.88	23.8	1
10	16QAM	1	0	21.97	21.83	21.91	21.80		
10	16QAM	1	25	21.88	22.08	21.93	21.43	22.8	2
10	16QAM	1	49	21.97	21.90	21.85	21.84		
10	16QAM	25	0	20.97	20.82	20.85	20.91	22.8	2
10	16QAM	25	12	21.05	20.89	20.99	20.91		
10	16QAM	25	25	20.98	20.91	20.89	20.87	22.8	2
10	16QAM	50	0	21.01	20.89	20.94	20.86		
10	64QAM	1	0	21.89	21.85	21.78	21.92	22.8	2
10	64QAM	1	25	21.86	21.97	21.96	21.91		
10	64QAM	1	49	21.79	21.80	21.82	21.76	21.8	3
10	64QAM	25	0	20.93	20.95	20.94	20.95		
10	64QAM	25	12	20.92	20.94	20.99	20.97	19.8	5
10	64QAM	25	25	20.95	20.94	20.83	20.81		
10	64QAM	50	0	20.92	20.99	20.94	20.96	19.8	5
10	256QAM	1	0	19.15	19.03	19.09	19.04		
10	256QAM	1	25	19.35	19.05	19.05	19.06	19.8	5
10	256QAM	1	49	19.08	19.02	19.04	18.88		
10	256QAM	25	0	19.02	19.01	19.05	19.09	19.8	5
10	256QAM	25	12	18.99	19.02	19.07	19.10		
10	256QAM	25	25	19.08	19.09	19.09	19.00	Tune-up limit (dBm)	MPR (dB)
10	256QAM	50	0	19.04	19.07	18.97	19.06		
Channel				35525	36070	36430	3697.5	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				35525	36070	36430	3697.5		
8	QPSK	1	0	23.71	23.79	23.74	23.74	24.8	0
8	QPSK	1	12	23.79	23.79	23.70	23.74		
8	QPSK	1	24	23.74	23.71	23.73	23.76	23.8	1
8	QPSK	12	0	22.89	22.81	22.85	22.94		
8	QPSK	12	7	22.88	22.87	22.84	22.90	23.8	1
8	QPSK	12	13	22.83	22.74	22.86	22.77		
8	QPSK	25	0	22.79	22.82	22.78	22.89	23.8	1
8	16QAM	1	0	21.89	21.88	21.87	21.84		
8	16QAM	1	12	21.87	22.08	21.90	22.09	22.8	2
8	16QAM	1	24	21.82	21.81	21.84	21.86		
8	16QAM	12	0	20.81	20.85	21.07	20.81	22.8	2
8	16QAM	12	7	20.91	20.99	20.99	20.85		
8	16QAM	12	13	20.88	20.87	20.82	20.88	22.8	2
8	16QAM	25	0	20.88	20.86	20.90	20.87		
8	64QAM	1	0	21.81	21.88	21.86	21.81	22.8	2
8	64QAM	1	12	21.94	21.95	21.99	21.89		
8	64QAM	1	24	21.72	21.79	21.74	21.72	21.8	3
8	64QAM	12	0	20.98	20.98	20.96	20.89		
8	64QAM	12	7	20.99	20.94	20.87	20.89	19.8	5
8	64QAM	12	13	20.96	20.94	20.96	20.90		
8	64QAM	25	0	20.84	20.83	20.84	20.94	19.8	5
8	256QAM	1	0	19.04	19.03	19.02	18.95		
8	256QAM	1	12	19.03	18.95	19.06	19.03	19.8	5
8	256QAM	1	24	19.03	18.95	19.06	18.98		
8	256QAM	12	0	18.97	19.08	19.08	19.00	19.8	5
8	256QAM	12	7	18.95	19.08	19.05	18.96		
8	256QAM	12	13	19.03	19.05	19.07	19.02	19.8	5
8	256QAM	25	0	19.05	19.02	19.05	19.00		



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	24.2	0.0
Frequency (MHz)				1860	1880	1900		
20	PV2 BPSK	1	1	22.25	22.23	22.24		
20	PV2 BPSK	1	53	22.24	22.27	22.23		
20	PV2 BPSK	1	104	22.22	22.20	22.24	23.7	0.5
20	PV2 BPSK	50	0	21.77	21.81	21.83		
20	PV2 BPSK	50	26	22.23	22.25	22.30		
20	PV2 BPSK	50	56	21.80	21.83	21.75		
20	PV2 BPSK	100	0	21.82	21.85	21.75	23.7	0.5
20	QPSK	1	1	22.85	23.08	22.88		
20	QPSK	1	53	22.84	23.07	22.85		
20	QPSK	1	104	22.88	23.09	22.84		
20	QPSK	50	0	22.30	22.37	22.20	23.2	1.0
20	QPSK	50	26	22.81	22.91	22.75		
20	QPSK	50	56	22.35	22.38	22.22		
20	QPSK	100	0	22.25	22.37	22.30		
20	BQAM	1	1	21.32	21.44	21.27	21.7	2.5
20	BQAM	1	1	20.32	20.40	20.32		
20	256QAM	1	1	18.89	19.02	19.02		
Channel				1867.5	1880	1902.5		
Frequency (MHz)				1867.5	1880	1902.5	24.2	0.0
15	QPSK	1	1	22.89	22.84	22.80		
Channel				1870.0	1870.0	1870.0		
Frequency (MHz)				1865	1880	1905		
10	QPSK	1	1	22.87	22.85	22.83	24.2	0.0
Channel				1870.0	1870.0	1870.0		
Frequency (MHz)				1862.5	1880	1907.5		
5	QPSK	1	1	22.85	22.80	22.85		

n2 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				372000	376000	380000	20.2	0.0
Frequency (MHz)				1860	1880	1900		
20	PV2 BPSK	1	1	18.54	19.07	19.02		
20	PV2 BPSK	1	53	18.68	18.87	18.71		
20	PV2 BPSK	1	104	18.72	18.83	18.68	20.2	0.0
20	PV2 BPSK	50	0	18.50	18.63	18.44		
20	PV2 BPSK	50	26	18.74	19.00	18.88		
20	PV2 BPSK	50	56	18.75	18.79	18.66		
20	PV2 BPSK	100	0	18.66	18.80	18.55	20.2	0.0
20	QPSK	1	1	19.01	19.08	18.97		
20	QPSK	1	53	18.95	18.99	18.96		
20	QPSK	1	104	18.72	18.84	18.70		
20	QPSK	50	0	18.89	18.87	18.73	20.2	0.0
20	QPSK	50	26	18.84	19.04	19.00		
20	QPSK	50	56	18.85	19.00	18.64		
20	QPSK	100	0	18.87	19.00	18.89		
20	BQAM	1	1	18.90	18.92	18.92	20.2	0.0
20	BQAM	1	1	18.74	18.81	18.72		
20	256QAM	1	1	18.77	18.80	18.70		
Channel				1872.5	1870.0	1870.0		
Frequency (MHz)				1867.5	1880	1902.5	20.2	0.0
15	QPSK	1	1	18.86	19.05	18.94		
Channel				1870.0	1870.0	1870.0		
Frequency (MHz)				1865	1880	1905		
10	QPSK	1	1	18.88	18.10	18.90	20.2	0.0
Channel				1870.0	1870.0	1870.0		
Frequency (MHz)				1862.5	1880	1907.5		
5	QPSK	1	1	19.00	18.85	19.07		



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				50000	507000	510000	17.5	0.0	
Frequency (MHz)				2520	2535	2550			
40	PV2 BPSK	1	1	16.27	16.37	16.23			
40	PV2 BPSK	1	108	16.09	16.15	16.03			
40	PV2 BPSK	1	214	16.26	16.27	16.22	17.5	0.0	
40	PV2 BPSK	108	0	16.03	16.13	16.17			
40	PV2 BPSK	108	54	15.99	16.21	16.10			
40	PV2 BPSK	108	108	16.00	16.15	16.05			
40	PV2 BPSK	216	0	16.15	16.15	16.15	17.5	0.0	
40	QPSK	1	1	16.26	16.41	16.26			
40	QPSK	1	108	15.83	16.01	15.90			
40	QPSK	1	214	16.09	16.10	16.10			
40	QPSK	108	0	16.09	16.19	16.10	17.5	0.0	
40	QPSK	108	54	16.15	16.29	16.07			
40	QPSK	108	108	16.16	16.17	16.10			
40	QPSK	216	0	16.10	16.15	16.14			
40	8QAM	1	1	16.06	16.23	16.14	17.5	0.0	
40	8QAM	1	1	16.34	16.25	16.17			
40	256QAM	1	1	16.16	16.31	16.19			
Channel				2520.0	2535.0	2550.0	Tune-up limit (dbm)	17.5 (dB)	
Frequency (MHz)				2515	2535	2555	17.5	0.0	
30	QPSK	1	1	16.16	16.27	16.16			
Channel				2522.0	2537.0	2552.0	Tune-up limit (dbm)	17.5 (dB)	
Frequency (MHz)				2512.5	2535	2557.5	17.5	0.0	
25	QPSK	1	1	16.18	16.21	16.24			
Channel				500000	507000	510000	Tune-up limit (dbm)	MPR	
Frequency (MHz)				2510	2535	2560	17.5	0.0	
20	QPSK	1	1	16.25	16.24	16.15			
Channel				501000	507000	512500	Tune-up limit (dbm)	MPR	
Frequency (MHz)				2507.5	2535	2562.5	17.5	0.0	
15	QPSK	1	1	16.29	16.22	16.21			
Channel				501000	507000	513000	Tune-up limit (dbm)	MPR	
Frequency (MHz)				2505	2535	2565	17.5	0.0	
10	QPSK	1	1	16.33	16.34	16.13			
Channel				500500	507000	513500			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	16.25	16.35	16.17	17.5	0.0	

n7 Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 50000	Power Middle Ch. / Freq. 50700	Power High Ch. / Freq. 51000	Tune-up limit (dBm)	MPR (dB)	
Channel				2520	2535	2550	17.7	0.0	
Frequency (MHz)				16.20	16.28	16.23			
40	PV2 BPSK	1	1	16.20	16.28	16.23			
40	PV2 BPSK	1	108	16.18	16.36	16.05			
40	PV2 BPSK	1	214	16.09	16.22	16.16	17.7	0.0	
40	PV2 BPSK	108	0	16.09	16.21	16.17			
40	PV2 BPSK	108	54	16.27	16.42	16.18			
40	PV2 BPSK	108	108	16.16	16.20	16.13			
40	PV2 BPSK	216	0	16.26	16.24	16.25	17.7	0.0	
40	QPSK	1	1	16.38	16.45	16.28			
40	QPSK	1	108	16.03	16.15	15.98			
40	QPSK	1	214	16.07	16.07	15.93			
40	QPSK	108	0	16.17	16.32	16.27	17.7	0.0	
40	QPSK	108	54	16.26	16.40	16.21			
40	QPSK	108	108	16.30	16.11	16.11			
40	QPSK	216	0	16.25	16.27	16.20			
40	16QAM	1	1	16.27	16.29	16.17	17.7	0.0	
40	64QAM	1	1	16.03	16.31	16.12			
40	256QAM	1	1	16.33	16.28	16.05			
Channel				2520.0	2535.0	2550.0	Tune-up limit (dBm)	17.7 (dB)	
Frequency (MHz)				2515	2535	2555	17.7	0.0	
30	QPSK	1	1	16.21	16.29	16.23			
Channel				2522.0	2537.0	2552.0			
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	16.24	16.34	16.27	17.7	0.0	
Channel				502000	507000	512500			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	16.25	16.28	16.22	17.7	0.0	
Channel				501500	507000	512500			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	16.30	16.25	16.25			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2505	2535	2565	17.7	0.0	
10	QPSK	1	1	16.22	16.40	16.23			
Channel				500500	507000	513500			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	16.20	16.38	16.23	17.7	0.0	



n25 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				1870	1862.5	1865	24.2	0.0	
40	Frequency (MHz)			1870	1862.5	1865			
40	PV2 BPSK	1	1	23.19	23.33	23.33			
40	PV2 BPSK	1	108	23.22	23.30	23.30			
40	PV2 BPSK	1	214	23.15	23.25	23.11	23.7	0.5	
40	PV2 BPSK	108	0	22.96	23.10	23.03			
40	PV2 BPSK	108	54	23.03	23.22	23.17			
40	PV2 BPSK	108	108	23.07	23.15	23.00			
40	PV2 BPSK	216	0	23.21	23.24	23.11	23.7	0.5	
40	QPSK	1	1	23.30	23.38	23.33			
40	QPSK	1	108	23.12	23.30	23.19			
40	QPSK	1	214	23.23	23.27	23.23			
40	QPSK	108	0	22.40	22.38	22.39	23.2	1.9	
40	QPSK	108	54	22.43	22.35	22.34			
40	QPSK	108	108	22.40	22.33	22.41			
40	QPSK	216	0	22.44	22.46	22.39			
40	8QAM	1	1	22.47	22.40	22.46	23.2	1.9	
40	8QAM	1	1	20.87	20.88	20.93			
40	256QAM	1	1	19.08	19.05	18.15			
40	256QAM	1	1	19.08	19.05	18.15			
Channel				1865	1862.5	1860	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	23.08	23.31	23.25	24.2	0.0	
Channel				1862.5	1862.5	1862.5	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	23.07	23.25	23.28	24.2	0.0	
Channel				1860	1862.5	1860	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	23.02	23.29	23.17	24.2	0.0	
Channel				37500	37600	381500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	1867.5	1862.5	1867.5	24.2	0.0	
Channel				371000	376000	382000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	1865	1862.5	1910	24.2	0.5	
Channel				370500	376000	382000	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	23.12	23.21	23.21	24.2	0.0	

n25 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				1870	1862.5	1865	20.2	0.0	
40	Frequency (MHz)			1870	1862.5	1865			
40	PV2 BPSK	1	1	19.03	19.15	19.20			
40	PV2 BPSK	1	108	19.01	19.19	19.08			
40	PV2 BPSK	1	214	19.12	19.10	19.11	20.2	0.0	
40	PV2 BPSK	108	0	19.21	19.20	19.23			
40	PV2 BPSK	108	54	19.10	19.31	19.08			
40	PV2 BPSK	108	108	19.18	19.34	19.29			
40	PV2 BPSK	216	0	19.15	19.34	19.13	20.2	0.0	
40	QPSK	1	1	19.30	19.43	19.32			
40	QPSK	1	108	19.05	19.20	18.99			
40	QPSK	1	214	19.10	19.16	19.13			
40	QPSK	108	0	18.94	19.10	18.97	20.2	0.9	
40	QPSK	108	54	19.18	19.28	19.25			
40	QPSK	108	108	19.05	19.16	18.93			
40	QPSK	216	0	19.00	19.23	19.34			
40	16QAM	1	1	19.07	19.15	19.07	20.2	0.0	
40	64QAM	1	1	18.95	19.10	19.02			
40	256QAM	1	1	19.00	19.05	18.91			
40	256QAM	1	1	19.00	19.05	18.91			
Channel				1865	1862.5	1860	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.10	19.18	19.00	21.2	0.0	
Channel				1862.5	1862.5	1862.5	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	19.00	19.18	19.11	21.2	0.0	
Channel				1860	1862.5	1860	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	19.04	19.11	19.11	21.2	0.0	
Channel				371500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	1867.5	1862.5	1867.5	24.2	0.0	
Channel				371000	376000	382000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	1865	1862.5	1910	24.2	0.5	
Channel				370500	376000	382000	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	19.03	19.17	19.15	20.2	0.0	



n30 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				46000	2310			
Frequency (MHz)				18.23				
10	PV2 BPSK	1	1	18.23			19.2	0.0
10	PV2 BPSK	1	26	18.13				
10	PV2 BPSK	1	50	18.18				
10	PV2 BPSK	25	0	18.23			19.2	0.0
10	PV2 BPSK	25	14	18.24			19.2	0.0
10	PV2 BPSK	25	27	18.20			19.2	0.0
10	PV2 BPSK	50	0	18.23				
10	QPSK	1	1	18.42				
10	QPSK	1	26	18.26			19.2	0.0
10	QPSK	1	50	18.37				
10	QPSK	25	0	18.38			19.2	0.0
10	QPSK	25	14	18.34			19.2	0.0
10	QPSK	25	27	18.14			19.2	0.0
10	QPSK	50	0	18.40			19.2	0.0
10	8QAM	1	1	18.22			19.2	0.0
10	8QAM	1	1	18.22			19.2	0.0
10	256QAM	1	1	18.27			19.2	0.0
Channel				461500	231000	462500	Tune-up limit (dBm)	19.2 (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	1	18.16	18.27	18.20	19.2	0.0

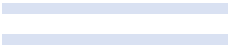
n66 Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				340000	340000	340000		
Frequency (MHz)				1720	1745	1760		
40	PV2 BPSK	1	1	22.19	22.38	22.22	23.7	0.0
40	PV2 BPSK	1	108	22.12	22.23	22.06		
40	PV2 BPSK	1	214	22.12	22.20	22.08		
40	PV2 BPSK	108	0	21.46	21.30	21.42	23.2	0.5
40	PV2 BPSK	108	54	22.06	22.15	22.03	23.7	0.0
40	PV2 BPSK	108	108	21.48	21.28	21.48	23.2	0.5
40	PV2 BPSK	216	0	21.46	21.20	21.35		
40	QPSK	1	1	22.30	22.39	22.25		
40	QPSK	1	108	22.10	22.23	22.18	23.7	0.0
40	QPSK	1	214	22.05	22.15	22.11		
40	QPSK	108	0	22.13	22.30	22.23	22.7	1.9
40	QPSK	108	54	22.08	22.25	22.15	23.7	0.0
40	QPSK	108	108	22.06	22.22	22.15	22.7	1.0
40	QPSK	216	0	22.12	22.18	22.10	23.2	2.5
40	16QAM	1	1	22.07	22.10	22.19		
40	64QAM	1	1	20.72	20.80	20.82		
40	256QAM	1	1	18.89	18.74	18.65	19.2	4.5
Channel				340000	340000	340000	Tune-up limit (dBm)	19.2 (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	22.03	22.18	22.15	23.7	0.0
Channel				341000	341000	341000	Tune-up limit (dBm)	19.2 (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	22.08	22.10	22.10	23.7	0.0
Channel				341000	340000	340000	Tune-up limit (dBm)	19.2 (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.00	22.28	22.11	23.7	0.0
Channel				343000	340000	340000	Tune-up limit (dBm)	19.2 (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.05	22.29	22.09	23.7	0.0
Channel				343000	340000	340000	Tune-up limit (dBm)	19.2 (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.01	22.17	22.11	23.7	0.0
Channel				342000	340000	340000	Tune-up limit (dBm)	19.2 (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.16	22.50	22.10	23.7	0.0

n66 Ant 6

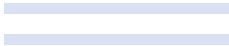
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				34600	34900	35000	19.2	0.0
Frequency (MHz)				1730	1745	1760		
40	Pl2 BPSK	1	1	17.39	18.03	17.97		
40	Pl2 BPSK	1	106	17.78	18.08	18.00	19.2	0.0
40	Pl2 BPSK	1	214	17.85	17.86	17.74		
40	Pl2 BPSK	106	0	17.75	17.99	17.91		
40	Pl2 BPSK	106	54	17.77	17.98	17.98	19.2	0.0
40	Pl2 BPSK	106	106	17.83	17.82	17.82		
40	Pl2 BPSK	214	0	17.92	18.02	17.86		
40	QPSK	1	1	18.07	18.20	18.10	19.2	0.0
40	QPSK	1	106	17.72	17.96	17.83		
40	QPSK	1	214	17.82	17.79	17.81		
40	QPSK	106	0	17.98	18.19	17.94	19.2	0.0
40	QPSK	106	54	17.88	18.17	18.09		
40	QPSK	106	106	18.01	17.96	17.79		
40	QPSK	214	0	17.85	17.96	17.84	19.2	0.0
40	BQAM	1	1	17.67	17.79	17.59		
40	BQAM	1	1	17.79	17.99	17.95		
40	256QAM	1	1	17.93	18.00	17.91	19.2	0.0
Channel				35200	35300	35300	19.2	0.0
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	18.01	18.15	18.00		
Channel				34500	34500	34500	19.2	0.0
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	17.82	18.03	18.05		
Channel				34900	34900	34900	19.2	0.0
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	17.24	18.09	17.63		
Channel				34900	34900	34900	19.2	0.0
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	17.09	18.17	17.10		
Channel				34900	34900	34900	19.2	0.0
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	17.08	18.12	17.99		
Channel				34900	34900	34900	19.2	0.0
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	17.08	18.07	18.11		



n38 Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 517000	Power Middle Ch. / Freq. 519000	Power High Ch. / Freq. 521000	Tune-up limit (dBm)	MPR (dB)	
Channel				2585	2595	2605	18.7	0.0	
Frequency (MHz)				17.39	17.62	17.46			
30	PV2 BPSK	1	1	17.39	17.62	17.46			
30	PV2 BPSK	1	40	17.24	17.37	17.13			
30	PV2 BPSK	1	77	17.36	17.46	17.45	18.7	0.0	
30	PV2 BPSK	36	0	17.45	17.30	17.25			
30	PV2 BPSK	36	22	17.16	17.45	17.23			
30	PV2 BPSK	36	43	17.27	17.55	17.28			
30	PV2 BPSK	75	0	17.40	17.52	17.47	18.7	0.0	
30	QPSK	1	1	17.50	17.65	17.52			
30	QPSK	1	40	17.20	17.27	17.18			
30	QPSK	1	77	17.15	17.42	17.29			
30	QPSK	36	0	17.34	17.49	17.36	18.7	0.0	
30	QPSK	36	22	17.50	17.55	17.35			
30	QPSK	36	43	17.33	17.51	17.44			
30	QPSK	75	0	17.16	17.38	17.35			
30	8QAM	1	1	17.15	17.27	17.16	18.7	0.0	
30	8QAM	1	1	17.03	17.25	17.19			
30	256QAM	1	1	17.15	17.20	17.10			
Channel				516100	519100	522100	18.7 (dBm)	18.7 (dB)	
Frequency (MHz)				2580	2595	2610	18.7	0.0	
20	QPSK	1	1	17.33	17.25	17.42			
Channel				515200	518200	521200		18.7 (dBm)	
Frequency (MHz)				2577.5	2595	2612.5		18.7 (dB)	
15	QPSK	1	1	17.31	17.21	17.35	18.7	0.0	
Channel				516000	519000	522000		18.7 (dBm)	
Frequency (MHz)				2575.02	2595	2614.98		18.7 (dB)	
10	QPSK	1	1	17.48	17.48	17.47		18.7	



n38 Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 517000	Power Middle Ch. / Freq. 519000	Power High Ch. / Freq. 521000	Tune-up limit (dBm)	MPR (dB)	
Channel				2585	2595	2605	18.5	0.0	
Frequency (MHz)				17.01	17.01	17.01			
30	PV2 BPSK	1	1	17.01	17.01	17.01			
30	PV2 BPSK	1	40	17.07	17.07	17.07			
30	PV2 BPSK	1	77	17.04	17.04	17.04	18.5	0.0	
30	PV2 BPSK	36	0	16.98	16.98	16.98			
30	PV2 BPSK	36	22	17.21	17.21	17.21			
30	PV2 BPSK	36	43	17.24	17.24	17.24			
30	PV2 BPSK	75	0	16.98	16.98	16.98	18.5	0.0	
30	QPSK	1	1	17.29	17.29	17.29			
30	QPSK	1	40	17.23	17.23	17.23			
30	QPSK	1	77	17.17	17.17	17.17			
30	QPSK	36	0	17.17	17.17	17.17	18.5	0.0	
30	QPSK	36	22	17.26	17.26	17.26			
30	QPSK	36	43	17.02	17.02	17.02			
30	QPSK	75	0	17.11	17.11	17.11			
30	16QAM	1	1	16.93	16.93	16.93	18.5	0.0	
30	16QAM	1	1	16.93	16.93	16.93			
30	64QAM	1	1	17.04	17.04	17.04			
30	256QAM	1	1	16.98	16.98	16.98			
Channel				518000	519100	522000	18.5 (dBm)	18.5 (dB)	
Frequency (MHz)				2580	2595	2610	18.5	0.0	
20	QPSK	1	1	17.08	17.03	17.21			
Channel				515200	518200	521200		18.5 (dBm)	
Frequency (MHz)				2577.5	2595	2612.5		18.5 (dB)	
15	QPSK	1	1	17.01	17.01	17.05	18.5	0.0	
Channel				516000	519000	522000		18.5 (dBm)	
Frequency (MHz)				2575.02	2595	2614.98		18.5 (dB)	
10	QPSK	1	1	17.55	17.04	17.21		18.5	





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				500000	518998	530000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	17.56	17.74	17.69			
100	PV2 BPSK	1	137	17.56	17.53	17.55			
100	PV2 BPSK	1	271	17.57	17.69	17.64			
100	PV2 BPSK	135	0	17.52	17.48	17.58	18.7	0.0	
100	PV2 BPSK	135	69	17.62	17.65	17.38	18.7	0.0	
100	PV2 BPSK	135	138	17.56	17.62	17.43	18.7	0.0	
100	PV2 BPSK	270	0	17.45	17.66	17.51			
100	QPSK	1	1	17.61	17.50	17.67			
100	QPSK	1	137	17.57	17.64	17.51	18.7	0.0	
100	QPSK	1	271	17.68	17.76	17.47			
100	QPSK	135	0	17.48	17.72	17.63			
100	QPSK	135	69	17.69	17.75	17.67	18.7	0.0	
100	QPSK	135	138	17.54	17.66	17.47			
100	QPSK	270	0	17.40	17.53	17.47	18.7	0.0	
100	8QAM	1	1	17.32	17.44	17.51	18.7	0.0	
100	8QAM	1	1	17.44	17.50	17.25	18.7	0.0	
100	256QAM	1	1	17.57	17.45	17.29	18.7	0.0	
Channel				500000	518998	530000	Tune-up limit (dBm)	15.4	(dB)
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	17.72	17.73	17.74	13.7	0.0	
Channel				500000	518998	530000	Tune-up limit (dBm)	15.4	(dB)
Frequency (MHz)				2538.02	2592.99	2649.99			
80	QPSK	1	1	17.82	17.63	17.65	13.7	0.0	
Channel				500000	518998	530000	Tune-up limit (dBm)	15.4	(dB)
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	17.68	17.77	17.67	13.7	0.0	
Channel				500000	518998	530000	Tune-up limit (dBm)	15.4	(dB)
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	17.70	17.73	17.62	13.7	0.0	
Channel				504004	518998	532998	Tune-up limit (dBm)	15.4	(dB)
Frequency (MHz)				2521.02	2592.99	2654.99			
50	QPSK	1	1	17.73	17.73	17.67	13.7	0.0	
Channel				503002	518998	534000	Tune-up limit (dBm)	15.4	(dB)
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	17.68	17.73	17.77	13.7	0.0	
Channel				502000	518998	534996	Tune-up limit (dBm)	15.4	(dB)
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	17.73	17.76	17.70	13.7	0.0	
Channel				501004	518998	535998	Tune-up limit (dBm)	15.4	(dB)
Frequency (MHz)				2504.02	2592.99	2679.99			
20	QPSK	1	1	17.72	17.78	17.68	13.7	0.0	
Channel				500700	518998	536496	Tune-up limit (dBm)	15.4	(dB)
Frequency (MHz)				2493.15	2592.99	2682.44			
15	QPSK	1	1	17.80	17.83	17.79	13.7	0.0	
Channel				500200	518998	537000	Tune-up limit (dBm)	15.4	(dB)
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	17.77	17.81	17.75	13.7	0.0	

n41(HPUE) 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				500000	518998	530000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	17.56	17.74	17.69			
100	PV2 BPSK	1	137	17.56	17.53	17.55	18.7	0.0	
100	PV2 BPSK	1	271	17.57	17.69	17.64			
100	PV2 BPSK	135	0	17.52	17.48	17.58	18.7	0.0	
100	PV2 BPSK	135	69	17.62	17.65	17.38	18.7	0.0	
100	PV2 BPSK	135	138	17.56	17.62	17.43	18.7	0.0	
100	PV2 BPSK	270	0	17.45	17.66	17.51			
100	QPSK	1	1	17.61	17.50	17.67			
100	QPSK	1	137	17.57	17.64	17.51	18.7	0.0	
100	QPSK	1	271	17.68	17.76	17.47			
100	QPSK	135	0	17.48	17.72	17.63			
100	QPSK	135	69	17.69	17.75	17.67	18.7	0.0	
100	QPSK	135	138	17.54	17.66	17.47			
100	QPSK	270	0	17.40	17.53	17.47	18.7	0.0	
100	16QAM	1	1	17.32	17.44	17.51	18.7	0.0	
100	64QAM	1	1	17.44	17.50	17.25	18.7	0.0	
100	256QAM	1	1	17.57	17.45	17.29	18.7	0.0	
Channel				500000	518998	530000	Tune-up limit (dBm)	15.4	(dB)
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	17.72	17.73	17.74	13.7	0.0	
Channel				500000	518998	530000	Tune-up limit (dBm)	15.4	(dB)
Frequency (MHz)				2538.02	2592.99	2649.99			
80	QPSK	1	1	17.82	17.63	17.65	13.7	0.0	
Channel				500000	518998	530000	Tune-up limit (dBm)	15.4	(dB)
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	17.68	17.77	17.67	13.7	0.0	
Channel				500000	518998	530000	Tune-up limit (dBm)	15.4	(dB)
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	17.70	17.73	17.62	13.7	0.0	
Channel				504004	518998	532998	Tune-up limit (dBm)	15.4	(dB)
Frequency (MHz)				2521.02	2592.99	2654.99			
50	QPSK	1	1	17.73	17.73	17.67	13.7	0.0	
Channel				503002	518998	534000	Tune-up limit (dBm)	15.4	(dB)
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	17.68	17.73	17.77	13.7	0.0	
Channel				502000	518998	534996	Tune-up limit (dBm)	15.4	(dB)
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	17.73	17.76	17.70	13.7	0.0	
Channel				501004	518998	535998	Tune-up limit (dBm)	15.4	(dB)
Frequency (MHz)				2504.02	2592.99	2679.99			
20	QPSK	1	1	17.72	17.78	17.68	13.7	0.0	
Channel				500700	518998	536496	Tune-up limit (dBm)	15.4	(dB)
Frequency (MHz)				2493.15	2592.99	2682.44			
15	QPSK	1	1	17.80	17.83	17.79	13.7	0.0	
Channel				500200	518998	537000	Tune-up limit (dBm)	15.4	(dB)
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	17.77	17.81	17.75	13.7	0.0	



n41 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				500002	518998	530000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PV2 BPSK	1	1	17.30	17.33	17.24	18.5	0.0	
100	PV2 BPSK	1	137	17.12	17.13	17.16			
100	PV2 BPSK	1	271	17.08	17.26	17.11			
100	PV2 BPSK	135	0	16.86	17.04	16.84	18.5	0.0	
100	PV2 BPSK	135	69	16.90	17.13	17.07	18.5	0.0	
100	PV2 BPSK	135	138	16.88	17.04	17.09	18.5	0.0	
100	PV2 BPSK	270	0	17.04	17.08	17.03	18.5	0.0	
100	QPSK	1	1	17.23	17.35	17.17			
100	QPSK	1	137	17.08	17.07	16.95			
100	QPSK	1	271	17.03	17.27	17.07	18.5	0.0	
100	QPSK	135	0	17.08	17.08	16.98			
100	QPSK	135	69	17.13	17.28	17.27			
100	QPSK	135	138	17.07	17.28	17.25	18.5	0.0	
100	QPSK	270	0	16.93	17.17	16.97	18.5	0.0	
100	16QAM	1	1	16.98	17.07	16.86	18.5	0.0	
100	64QAM	1	1	17.29	17.23	17.28	18.5	0.0	
100	256QAM	1	1	17.02	17.23	17.05	18.5	0.0	
Channel				530000	530998	530000	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	17.08	17.17	17.21	18.5	0.0	
Channel				530004	530998	530000	Tune-up limit	MPR	
Frequency (MHz)				2538.02	2592.99	2649.99	(dBm)	(dB)	
80	QPSK	1	1	17.09	17.17	17.04	18.5	0.0	
Channel				530000	530998	530000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2605	(dBm)	(dB)	
70	QPSK	1	1	16.97	17.15	17.17	18.5	0.0	
Channel				530002	530998	531998	Tune-up limit	MPR	
Frequency (MHz)				2526	2592.99	2609.98	(dBm)	(dB)	
60	QPSK	1	1	17.05	17.16	17.05	18.5	0.0	
Channel				530404	530998	532998	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2604.99	(dBm)	(dB)	
50	QPSK	1	1	17.08	17.23	17.10	18.5	0.0	
Channel				530302	530998	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2610	(dBm)	(dB)	
40	QPSK	1	1	16.96	17.17	17.19	18.5	0.0	
Channel				530200	530998	534998	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2624.98	(dBm)	(dB)	
30	QPSK	1	1	17.06	17.07	17.12	18.5	0.0	
Channel				530104	530998	535998	Tune-up limit	MPR	
Frequency (MHz)				2504.02	2592.99	2639.99	(dBm)	(dB)	
20	QPSK	1	1	17.04	17.19	17.08	18.5	0.0	
Channel				530700	530998	536498	Tune-up limit	MPR	
Frequency (MHz)				2503.15	2592.99	2642.44	(dBm)	(dB)	
15	QPSK	1	1	17.12	17.17	17.20	18.5	0.0	
Channel				530002	530998	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2605	(dBm)	(dB)	
10	QPSK	1	1	16.95	17.05	17.05	18.5	0.0	

n41(HPUE) 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				500002	518998	530000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	17.30	17.33	17.24	18.5	0.0	
100	PV2 BPSK	1	137	17.12	17.11	17.16			
100	PV2 BPSK	1	271	17.08	17.26	17.11			
100	PV2 BPSK	135	0	16.86	17.04	16.84	18.5	0.0	
100	PV2 BPSK	135	69	16.90	17.13	17.07	18.5	0.0	
100	PV2 BPSK	135	138	16.88	17.04	17.09	18.5	0.0	
100	PV2 BPSK	270	0	17.04	17.08	17.03	18.5	0.0	
100	QPSK	1	1	17.23	17.35	17.17			
100	QPSK	1	137	17.08	17.07	16.95			
100	QPSK	1	271	17.03	17.27	17.07	18.5	0.0	
100	QPSK	135	0	17.08	17.08	16.98			
100	QPSK	135	69	17.13	17.33	17.27			
100	QPSK	135	138	17.07	17.28	17.24	18.5	0.0	
100	QPSK	270	0	16.93	17.17	16.97	18.5	0.0	
100	16QAM	1	1	16.98	17.07	16.96	18.5	0.0	
100	64QAM	1	1	17.29	17.23	17.28	18.5	0.0	
100	256QAM	1	1	17.02	17.23	17.05	18.5	0.0	
Channel				530000	530000	530000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2541	2592.99	2644.98	18.5 <td colspan="2">0.0</td>	0.0	
90	QPSK	1	1	17.08	17.17	17.21	18.5	0.0	
Channel				530000	530000	530000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2538.02	2592.99	2649.99	18.5 <td colspan="2">0.0</td>	0.0	
80	QPSK	1	1	17.09	17.17	17.04	18.5	0.0	
Channel				530000	530000	530000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2531.01	2592.99	2605	18.5 <td colspan="2">0.0</td>	0.0	
70	QPSK	1	1	16.97	17.13	17.17	18.5	0.0	
Channel				530200	530998	531998	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2526	2592.99	2609.98	18.5 <td colspan="2">0.0</td>	0.0	
60	QPSK	1	1	17.05	17.16	17.05	18.5	0.0	
Channel				530404	530998	532998	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2521.02	2592.99	2604.99	18.5 <td colspan="2">0.0</td>	0.0	
50	QPSK	1	1	17.08	17.23	17.10	18.5	0.0	
Channel				530302	530998	534000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2516.01	2592.99	2610	18.5 <td colspan="2">0.0</td>	0.0	
40	QPSK	1	1	16.96	17.17	17.19	18.5	0.0	
Channel				530200	530998	534998	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2511	2592.99	2624.98	18.5 <td colspan="2">0.0</td>	0.0	
30	QPSK	1	1	17.06	17.07	17.12	18.5	0.0	
Channel				530104	530998	535998	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2504.02	2592.99	2639.99	18.5 <td colspan="2">0.0</td>	0.0	
20	QPSK	1	1	17.04	17.19	17.08	18.5	0.0	
Channel				530700	530998	536498	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2503.15	2592.99	2642.44	18.5 <td colspan="2">0.0</td>	0.0	
15	QPSK	1	1	17.12	17.17	17.20	18.5	0.0	
Channel				530602	530998	537000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2501.01	2592.99	2605	18.5 <td colspan="2">0.0</td>	0.0	
10	QPSK	1	1	16.95	17.05	17.06	18.5	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				50000	51898	53000			
Frequency (MHz)				2546.01	2592.99	2640			
100	QPSK	1	1	17.55	17.63	17.59	18.7	0.0	
100	QPSK	1	137	17.40	17.46	17.19			
100	QPSK	1	271	17.55	17.44	17.45			
100	QPSK	137	0	17.51	17.52	17.55			
100	QPSK	137	68	17.43	17.59	17.33	18.7	0.0	
100	QPSK	137	138	17.43	17.43	17.40			
100	QPSK	271	0	17.43	17.50	17.35			
100	16QAM	1	1	17.31	17.64	17.50			
100	16QAM	1	1	17.47	17.25	17.40	18.7	0.0	
100	256QAM	1	1	15.47	15.42	15.30	18.2	2.5	
Channel				508200	51898	528996	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)		
90	QPSK	1	1	17.49	17.43	17.43	18.7	0.0	
Channel				507204	51898	525998	Tune-up limit	MPR	
Frequency (MHz)				2592.02	2592.99	2604.99	(dBm)		
80	QPSK	1	1	17.56	17.54	17.47	18.7	0.0	
Channel				508202	51898	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2651	(dBm)		
70	QPSK	1	1	17.59	17.44	17.38	18.7	0.0	
Channel				505200	51898	531996	Tune-up limit	MPR	
Frequency (MHz)				2506	2592.99	2658.98	(dBm)		
60	QPSK	1	1	17.56	17.60	17.50	18.7	0.0	
Channel				504204	51898	532996	Tune-up limit	MPR	
Frequency (MHz)				2501.02	2592.99	2664.99	(dBm)		
50	QPSK	1	1	17.53	17.48	17.42	18.7	0.0	
Channel				503202	51898	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)		
40	QPSK	1	1	17.43	17.52	17.38	18.7	0.0	
Channel				502203	51898	535998	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)		
30	QPSK	1	1	17.50	17.45	17.41	18.7	0.0	
Channel				501205	51898	537000	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)		
20	QPSK	1	1	17.58	17.51	17.43	18.7	0.0	
Channel				500700	51898	538000	Tune-up limit	MPR	
Frequency (MHz)				2503.5	2592.99	2682.48	(dBm)		
15	QPSK	1	1	17.45	17.43	17.41	18.7	0.0	
Channel				500002	51898	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2685	(dBm)		
10	QPSK	1	1	17.58	17.51	17.44	18.7	0.0	

n41 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				50000	51898	53000			
Frequency (MHz)				2546.01	2592.99	2640			
100	QPSK	1	1	17.23	17.33	17.60	18.0	0.0	
100	QPSK	1	137	16.91	16.88	16.81			
100	QPSK	1	271	16.85	17.12	17.07			
100	QPSK	137	0	17.01	16.86	16.83			
100	QPSK	137	68	16.99	17.29	17.12	18.0	0.0	
100	QPSK	137	138	16.98	17.22	17.11			
100	QPSK	271	0	16.76	17.07	16.95			
100	16QAM	1	1	16.72	16.91	16.69			
100	16QAM	1	1	17.25	17.19	17.27	18.0	0.0	
100	256QAM	1	1	16.18	16.21	16.22	17.0	1.0	
Channel				508200	51898	528996	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)		
90	QPSK	1	1	17.13	17.24	17.62	18.0	0.0	
Channel				507204	51898	525998	Tune-up limit	MPR	
Frequency (MHz)				2592.02	2592.99	2604.99	(dBm)		
80	QPSK	1	1	17.09	17.11	17.06	18.0	0.0	
Channel				506202	51898	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2650	(dBm)		
70	QPSK	1	1	17.19	17.30	17.12	18.0	0.0	
Channel				505200	51898	531996	Tune-up limit	MPR	
Frequency (MHz)				2506	2592.99	2658.98	(dBm)		
60	QPSK	1	1	17.19	17.16	17.06	18.0	0.0	
Channel				504204	51898	532996	Tune-up limit	MPR	
Frequency (MHz)				2501.02	2592.99	2664.99	(dBm)		
50	QPSK	1	1	17.21	17.15	16.98	18.0	0.0	
Channel				503202	51898	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)		
40	QPSK	1	1	17.08	17.16	17.04	18.0	0.0	
Channel				502203	51898	535998	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)		
30	QPSK	1	1	17.09	17.16	17.04	18.0	0.0	
Channel				501205	51898	537000	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)		
20	QPSK	1	1	17.17	17.18	16.99	18.0	0.0	
Channel				500700	51898	538000	Tune-up limit	MPR	
Frequency (MHz)				2503.5	2592.99	2682.48	(dBm)		
15	QPSK	1	1	17.22	17.12	17.02	18.0	0.0	
Channel				500002	51898	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2685	(dBm)		
10	QPSK	1	1	17.15	17.27	17.65	18.0	0.0	



n48_Part96_FCC_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				63000	64066	64532	15.7	0.0
Frequency (MHz)				3070	3624.99	3679.98		
40	PV2 BPSK	1	1	14.47	14.47	14.50		
40	PV2 BPSK	1	53	14.36	14.29	14.21	15.7	0.0
40	PV2 BPSK	1	104	14.31	14.50	14.35		
40	PV2 BPSK	50	0	14.41	14.39	14.43		
40	PV2 BPSK	50	26	14.51	14.50	14.48	15.7	0.0
40	PV2 BPSK	50	56	14.36	14.48	14.47		
40	PV2 BPSK	100	0	14.25	14.41	14.14		
40	QPSK	1	1	14.59	14.68	14.52	15.7	0.0
40	QPSK	1	53	14.11	14.23	14.08		
40	QPSK	1	104	14.33	14.53	14.37		
40	QPSK	50	0	14.35	14.69	14.35	15.7	0.0
40	QPSK	50	26	14.52	14.62	14.39		
40	QPSK	50	56	14.26	14.45	14.28		
40	QPSK	100	0	14.43	14.45	14.39	15.7	0.0
40	BQAM	1	1	14.23	14.39	14.23		
40	BQAM	1	1	14.30	14.51	14.47		
40	256QAM	1	1	14.28	14.50	14.54	15.7	0.0
Channel				63000	64066	64532	Tune-up limit (dBm)	15.7 (dB)
Frequency (MHz)				3500.01	3624.99	3690	15.7	0.0
20	QPSK	1	1	14.52	14.48	14.39		
Channel				63000	64066	64532	Tune-up limit (dBm)	15.7 (dB)
Frequency (MHz)				3505	3624.99	3694.98	15.7	0.0
10	QPSK	1	1	14.52	14.56	14.48		

n48_Part96_FCC_ANT 13								
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				63000	64066	64532	18.7	0.0
Frequency (MHz)				3070	3624.99	3679.98		
40	PV2 BPSK	1	1	17.41	17.64	17.65		
40	PV2 BPSK	1	53	17.71	17.71	17.52	18.7	0.0
40	PV2 BPSK	1	104	17.73	17.71	17.44		
40	PV2 BPSK	50	0	17.20	17.62	17.34		
40	PV2 BPSK	50	26	17.58	17.70	17.69	18.7	0.0
40	PV2 BPSK	50	56	17.47	17.55	17.59		
40	PV2 BPSK	100	0	17.52	17.57	17.53		
40	QPSK	1	1	17.58	17.75	17.56	18.7	0.0
40	QPSK	1	53	17.32	17.42	17.45		
40	QPSK	1	104	17.64	17.63	17.46		
40	QPSK	50	0	17.80	17.91	17.37	18.7	0.0
40	QPSK	50	26	17.62	17.72	17.70		
40	QPSK	50	56	17.50	17.50	17.43		
40	QPSK	100	0	17.54	17.55	17.45	18.7	0.0
40	BQAM	1	1	17.56	17.55	17.45		
40	BQAM	1	1	17.43	17.66	17.25		
40	256QAM	1	1	17.02	16.99	16.91	18.7	0.0
Channel				63000	64066	64532	Tune-up limit (dBm)	15.7 (dB)
Frequency (MHz)				3500.01	3624.99	3690	18.7	0.0
20	QPSK	1	1	17.55	17.68	17.71		
Channel				63000	64066	64532	Tune-up limit (dBm)	15.7 (dB)
Frequency (MHz)				3505	3624.99	3694.98	18.7	0.0
10	QPSK	1	1	17.54	17.64	17.66		



Par270 n77_FCC_ANT 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit	MPR	
Channel				65000	65000	65000			
Frequency (MHz)				3750	3840	3930			
100	PV2 BPSK	1	1	13.92	14.11	14.01	15.2	0.0	
100	PV2 BPSK	1	137	13.98	13.98	13.91			
100	PV2 BPSK	1	271	13.93	13.77	13.84			
100	PV2 BPSK	135	0	13.97	14.03	13.94	15.2	0.0	
100	PV2 BPSK	135	69	13.92	14.08	14.01	15.2	0.0	
100	PV2 BPSK	135	138	13.75	13.92	13.81	15.2	0.0	
100	PV2 BPSK	270	0	14.02	13.76	13.84	15.2	0.0	
100	QPSK	1	1	14.13	14.30	14.12			
100	QPSK	1	137	13.80	14.05	13.99			
100	QPSK	1	271	13.81	13.82	13.77	15.2	0.0	
100	QPSK	135	0	13.90	13.99	13.84			
100	QPSK	135	69	13.92	14.24	13.83			
100	QPSK	135	138	13.76	13.77	13.85	15.2	0.0	
100	QPSK	270	0	13.99	14.00	13.84			
100	16QAM	1	1	13.91	14.08	13.98	15.2	0.0	
100	16QAM	1	1	13.70	13.98	13.74	15.2	0.0	
100	256QAM	1	1	13.68	13.83	13.74	15.2	0.0	
Channel				3745.02	3840.00	3934.98	Tune-up limit	15.2	(dB)
Frequency (MHz)				3745.02	3840	3934.98			
90	QPSK	1	1	13.98	13.90	13.78	15.2	0.0	
Channel				645334	650000	654966	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3939.99			
80	QPSK	1	1	13.92	13.80	13.78	15.2	0.0	
Channel				650000	650000	650000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	13.96	14.02	13.76	15.2	0.0	
Channel				648668	650000	653332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3948.98			
60	QPSK	1	1	13.18	14.02	13.77	15.2	0.0	
Channel				648334	650000	653666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3954.99			
50	QPSK	1	1	13.15	14.00	13.70	15.2	0.0	
Channel				648000	650000	654000	Tune-up limit	MPR	
Frequency (MHz)				3710	3840	3950			
40	QPSK	1	1	13.01	14.04	13.70	15.2	0.0	
Channel				647668	650000	654332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3948.00	3954.98			
30	QPSK	1	1	13.85	13.87	13.89	15.2	0.0	
Channel				647334	650000	654666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3959.99			
20	QPSK	1	1	13.93	13.98	13.73	15.2	0.0	
Channel				647168	650000	654832	Tune-up limit	MPR	
Frequency (MHz)				3707.82	3840	3972.48			
15	QPSK	1	1	13.94	14.02	13.77	15.2	0.0	
Channel				647000	650000	655000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	14.00	13.99	13.92	15.2	0.0	

Par270 n77 HPUE_FCC_ANT 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit	MPR	
Channel				65000	65000	65000			
Frequency (MHz)				3750	3840	3930			
100	PV2 BPSK	1	1	13.92	14.11	14.01	15.2	0.0	
100	PV2 BPSK	1	137	13.98	13.98	13.91			
100	PV2 BPSK	1	271	13.93	13.77	13.84			
100	PV2 BPSK	135	0	13.97	14.03	13.94	15.2	0.0	
100	PV2 BPSK	135	69	13.92	14.08	14.01	15.2	0.0	
100	PV2 BPSK	135	138	13.75	13.92	13.81	15.2	0.0	
100	PV2 BPSK	270	0	14.02	13.76	13.84	15.2	0.0	
100	QPSK	1	1	14.13	14.30	14.12			
100	QPSK	1	137	13.80	14.05	13.99			
100	QPSK	1	271	13.81	13.82	13.77	15.2	0.0	
100	QPSK	135	0	13.90	13.99	13.84			
100	QPSK	135	69	13.92	14.24	13.83			
100	QPSK	135	138	13.76	13.77	13.85	15.2	0.0	
100	QPSK	270	0	13.99	14.00	13.84			
100	16QAM	1	1	13.91	14.08	13.98	15.2	0.0	
100	16QAM	1	1	13.70	13.98	13.74	15.2	0.0	
100	256QAM	1	1	13.68	13.83	13.74	15.2	0.0	
Channel				3745.02	3840.00	3934.98	Tune-up limit	15.2	(dB)
Frequency (MHz)				3745.02	3840	3934.98			
90	QPSK	1	1	13.98	13.90	13.78	15.2	0.0	
Channel				645334	650000	654966	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3939.99			
80	QPSK	1	1	13.92	13.80	13.78	15.2	0.0	
Channel				650000	650000	650000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	13.96	14.02	13.76	15.2	0.0	
Channel				648668	650000	653332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3948.98			
60	QPSK	1	1	13.18	14.02	13.77	15.2	0.0	
Channel				648334	650000	653666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3954.99			
50	QPSK	1	1	13.15	14.00	13.70	15.2	0.0	
Channel				648000	650000	654000	Tune-up limit	MPR	
Frequency (MHz)				3710	3840	3950			
40	QPSK	1	1	13.01	14.04	13.70	15.2	0.0	
Channel				647668	650000	654332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3948.00	3954.98			
30	QPSK	1	1	13.85	13.87	13.89	15.2	0.0	
Channel				647334	650000	654666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3959.99			
20	QPSK	1	1	13.93	13.98	13.73	15.2	0.0	
Channel				647168	650000	654832	Tune-up limit	MPR	
Frequency (MHz)				3707.82	3840	3972.48			
15	QPSK	1	1	13.94	14.02	13.77	15.2	0.0	
Channel				647000	650000	655000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	14.00	13.99	13.92	15.2	0.0	



Par27Q n77_FCC_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	3499.98				
Frequency (MHz)				14.11	14.04				
100	PV2 BPSK	1	1	14.11	14.04		15.2	0.0	
100	PV2 BPSK	1	137	14.08	13.87		15.2	0.0	
100	PV2 BPSK	1	271	13.87	13.67		15.2	0.0	
100	PV2 BPSK	135	0	13.67	13.82		15.2	0.0	
100	PV2 BPSK	135	69	14.12	13.80		15.2	0.0	
100	PV2 BPSK	135	138	13.80	13.67		15.2	0.0	
100	PV2 BPSK	270	0	13.67	13.80		15.2	0.0	
100	QPSK	1	1	14.21	13.93		15.2	0.0	
100	QPSK	1	137	13.93	13.86		15.2	0.0	
100	QPSK	1	271	13.86	13.97		15.2	0.0	
100	QPSK	135	0	13.97	14.12		15.2	0.0	
100	QPSK	135	69	14.12	13.80		15.2	0.0	
100	QPSK	135	138	13.80	13.80		15.2	0.0	
100	QPSK	270	0	13.80	13.80		15.2	0.0	
100	16QAM	1	1	13.98	13.96		15.2	0.0	
100	16QAM	1	1	13.89	13.89		15.2	0.0	
100	256QAM	1	1	13.78	13.78		15.2	0.0	
Channel				633000	3499.98	633966			
Frequency (MHz)				3495	3499.98	3504.99	Tune-up limit (dbm)	MPR (db)	
90	QPSK	1	1	14.01	14.05	13.84	15.2	0.0	
Channel				633068	633332	634000			
Frequency (MHz)				3499.02	3499.98	3510	Tune-up limit (dbm)	MPR (db)	
80	QPSK	1	1	14.00	14.02	14.01	15.2	0.0	
Channel				633034	633332	634332			
Frequency (MHz)				3495.01	3499.98	3514.98	Tune-up limit (dbm)	MPR (db)	
70	QPSK	1	1	13.99	14.03	13.86	15.2	0.0	
Channel				632000	633332	634666			
Frequency (MHz)				3490	3499.98	3519.99	Tune-up limit (dbm)	MPR (db)	
60	QPSK	1	1	14.12	14.03	14.03	15.2	0.0	
Channel				631668	633332	635000			
Frequency (MHz)				3475.02	3499.98	3525	Tune-up limit (dbm)	MPR (db)	
50	QPSK	1	1	14.02	14.03	13.87	15.2	0.0	
Channel				631334	633332	635332			
Frequency (MHz)				3470.01	3499.98	3520.99	Tune-up limit (dbm)	MPR (db)	
40	QPSK	1	1	14.11	14.13	13.94	15.2	0.0	
Channel				631000	633332	635666			
Frequency (MHz)				3465	3499.98	3524.99	Tune-up limit (dbm)	MPR (db)	
30	QPSK	1	1	14.08	14.12	13.89	15.2	0.0	
Channel				630668	633332	636000			
Frequency (MHz)				3460.02	3499.98	3540	Tune-up limit (dbm)	MPR (db)	
20	QPSK	1	1	14.08	14.16	13.99	15.2	0.0	
Channel				630500	633332	636166			
Frequency (MHz)				3457.5	3499.98	3542.45	Tune-up limit (dbm)	MPR (db)	
15	QPSK	1	1	14.18	14.10	13.92	15.2	0.0	
Channel				630334	633332	636332			
Frequency (MHz)				3455.01	3499.98	3544.98	Tune-up limit (dbm)	MPR (db)	
10	QPSK	1	1	14.08	14.08	13.89	15.2	0.0	

Par27Q n77 HPUE_FCC_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	3499.98				
Frequency (MHz)				14.11	14.04				
100	PV2 BPSK	1	1	14.11	14.04		15.2	0.0	
100	PV2 BPSK	1	137	14.04	13.87		15.2	0.0	
100	PV2 BPSK	1	271	13.87	13.82		15.2	0.0	
100	PV2 BPSK	135	0	13.82	13.86		15.2	0.0	
100	PV2 BPSK	135	69	14.10	14.10		15.2	0.0	
100	PV2 BPSK	135	138	13.87	13.87		15.2	0.0	
100	PV2 BPSK	270	0	13.80	13.80		15.2	0.0	
100	QPSK	1	1	14.21	14.21		15.2	0.0	
100	QPSK	1	137	13.93	13.93		15.2	0.0	
100	QPSK	1	271	13.86	13.86		15.2	0.0	
100	QPSK	135	0	13.97	13.97		15.2	0.0	
100	QPSK	135	69	14.12	14.12		15.2	0.0	
100	QPSK	135	138	13.80	13.80		15.2	0.0	
100	QPSK	270	0	13.80	13.80		15.2	0.0	
100	16QAM	1	1	13.98	13.98		15.2	0.0	
100	56QAM	1	1	13.89	13.89		15.2	0.0	
100	256QAM	1	1	13.78	13.78		15.2	0.0	
Channel				633000	3499.98	633966			
Frequency (MHz)				14.01	14.05	13.84	15.2	0.0	
90	QPSK	1	1	14.01	14.05	13.84	15.2	0.0	
Channel				633068	3499.98	634000			
Frequency (MHz)				3499.02	3499.98	3510	15.2	0.0	
80	QPSK	1	1	14.00	14.02	14.01	15.2	0.0	
Channel				633034	3499.98	634332			
Frequency (MHz)				3495.01	3499.98	3514.98	15.2	0.0	
70	QPSK	1	1	13.99	14.03	13.96	15.2	0.0	
Channel				632000	3499.98	634666			
Frequency (MHz)				3490	3499.98	3519.99	15.2	0.0	
60	QPSK	1	1	14.12	14.00	14.01	15.2	0.0	
Channel				631668	3499.98	635000			
Frequency (MHz)				3475.02	3499.98	3525	15.2	0.0	
50	QPSK	1	1	14.02	14.03	13.87	15.2	0.0	
Channel				631334	3499.98	635332			
Frequency (MHz)				3470.01	3499.98	3520.99	15.2	0.0	
40	QPSK	1	1	14.11	14.13	13.94	15.2	0.0	
Channel				631000	3499.98	635666			
Frequency (MHz)				3465	3499.98	3524.99	15.2	0.0	
30	QPSK	1	1	14.08	14.12	13.89	15.2	0.0	
Channel				630668	3499.98	636000			
Frequency (MHz)				3460.02	3499.98	3540	15.2	0.0	
20	QPSK	1	1	14.08	14.16	13.99	15.2	0.0	
Channel				630500	3499.98	636166			
Frequency (MHz)				3457.5	3499.98	3542.45	15.2	0.0	
15	QPSK	1	1	14.18	14.10	13.92	15.2	0.0	
Channel				630334	3499.98	636332			
Frequency (MHz)				3455.01	3499.98	3544.98	15.2	0.0	
10	QPSK	1	1	14.08	14.08	13.89	15.2	0.0	



Par27O n77_FCC_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	15.2	0.0	
Frequency (MHz)				3750	3860	3900			
100	QPSK	1	1	13.97	14.11	14.02			
100	QPSK	1	137	13.85	13.95	13.96			
100	QPSK	1	271	13.87	13.76	13.69			
100	QPSK	137	0	13.73	13.84	13.85	15.2	0.0	
100	QPSK	137	68	14.00	14.20	14.15			
100	QPSK	137	138	13.62	13.77	13.64			
100	QPSK	271	0	13.85	13.55	13.64			
100	16QAM	1	1	13.82	13.98	13.87			
100	16QAM	1	1	13.84	13.87	13.96	15.2	0.0	
100	256QAM	1	1	13.55	13.66	13.72	15.2	0.0	
Channel				649668	650000	650332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3860	3903.32	15.2	0.0	
90	QPSK	1	1	13.75	14.02	13.81	Tune-up limit (dBm)	MPR	
Channel				648334	650000	650666	15.2	0.0	
Frequency (MHz)				3730.01	3860	3906.66	15.2	0.0	
80	QPSK	1	1	13.81	14.08	13.82	Tune-up limit (dBm)	MPR	
Channel				648000	650000	650300	15.2	0.0	
Frequency (MHz)				3735	3860	3905	15.2	0.0	
70	QPSK	1	1	13.82	14.06	13.79	Tune-up limit (dBm)	MPR	
Channel				648068	650000	650332	15.2	0.0	
Frequency (MHz)				3730.02	3860	3903.32	15.2	0.0	
60	QPSK	1	1	13.76	14.17	13.79	Tune-up limit (dBm)	MPR	
Channel				648334	650000	650666	15.2	0.0	
Frequency (MHz)				3725.01	3860	3906.66	15.2	0.0	
50	QPSK	1	1	13.72	14.04	13.85	Tune-up limit (dBm)	MPR	
Channel				648000	650000	650300	15.2	0.0	
Frequency (MHz)				3720	3860	3900	15.2	0.0	
40	QPSK	1	1	13.74	14.05	13.63	Tune-up limit (dBm)	MPR	
Channel				647668	650000	650332	15.2	0.0	
Frequency (MHz)				3716.02	3860.00	3904.98	15.2	0.0	
30	QPSK	1	1	13.70	14.05	13.77	Tune-up limit (dBm)	MPR	
Channel				6470.01	650000	650666	15.2	0.0	
Frequency (MHz)				3710.01	3860	3909.99	15.2	0.0	
20	QPSK	1	1	13.79	14.13	13.68	Tune-up limit (dBm)	MPR	
Channel				647168	650000	650332	15.2	0.0	
Frequency (MHz)				3707.52	3860	3907.48	15.2	0.0	
15	QPSK	1	1	13.74	14.10	13.73	Tune-up limit (dBm)	MPR	
Channel				647000	650000	650000	15.2	0.0	
Frequency (MHz)				3705	3860	3905	15.2	0.0	
10	QPSK	1	1	13.76	14.13	13.69	Tune-up limit (dBm)	MPR	

Par27Q n77_FCC_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	633332	633332	15.2	0.0	
Frequency (MHz)				3499.98	3499.98	3499.98			
100	QPSK	1	1	14.18	14.18	14.18			
100	QPSK	1	137	13.93	13.93	13.93			
100	QPSK	1	271	13.89	13.89	13.89			
100	QPSK	137	0	13.93	13.93	13.93	15.2	0.0	
100	QPSK	137	68	13.99	13.99	13.99			
100	QPSK	137	138	13.67	13.67	13.67			
100	QPSK	271	0	13.67	13.67	13.67			
100	16QAM	1	1	13.94	13.94	13.94		0.0	
100	16QAM	1	1	13.89	13.89	13.89	15.2	0.0	
100	256QAM	1	1	13.61	13.61	13.61	15.2	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3495	3499.98	3504.99	15.2	0.0	
90	QPSK	1	1	14.13	14.01	14.12	Tune-up limit (dBm)	MPR	
Channel				632668	633332	634000	15.2	0.0	
Frequency (MHz)				3490.02	3499.98	3509.98	15.2	0.0	
80	QPSK	1	1	14.03	14.02	13.94	Tune-up limit (dBm)	MPR	
Channel				632334	633332	634332	15.2	0.0	
Frequency (MHz)				3485.01	3499.98	3514.98	15.2	0.0	
70	QPSK	1	1	13.97	14.10	14.02	Tune-up limit (dBm)	MPR	
Channel				632000	633332	634666	15.2	0.0	
Frequency (MHz)				3480	3499.98	3509.98	15.2	0.0	
60	QPSK	1	1	14.13	14.14	13.98	Tune-up limit (dBm)	MPR	
Channel				631668	633332	635000	15.2	0.0	
Frequency (MHz)				3475.02	3499.98	3509.98	15.2	0.0	
50	QPSK	1	1	14.00	13.90	14.05	Tune-up limit (dBm)	MPR	
Channel				631334	633332	635332	15.2	0.0	
Frequency (MHz)				3470.01	3499.98	3509.98	15.2	0.0	
40	QPSK	1	1	13.99	14.10	14.10	Tune-up limit (dBm)	MPR	
Channel				631000	633332	635666	15.2	0.0	
Frequency (MHz)				3465	3499.98	3504.99	15.2	0.0	
30	QPSK	1	1	14.02	14.13	14.10	Tune-up limit (dBm)	MPR	
Channel				630668	633332	636000	15.2	0.0	
Frequency (MHz)				3460.02	3499.98	3509.98	15.2	0.0	
20	QPSK	1	1	13.97	13.98	14.13	Tune-up limit (dBm)	MPR	
Channel				630330	633332	636332	15.2	0.0	
Frequency (MHz)				3457.5	3499.98	3504.48	15.2	0.0	
15	QPSK	1	1	14.02	14.11	13.97	Tune-up limit (dBm)	MPR	
Channel				630334	633332	636332	15.2	0.0	
Frequency (MHz)				3455.01	3499.98	3504.98	15.2	0.0	
10	QPSK	1	1	14.13	14.01	14.03	Tune-up limit (dBm)	MPR	



Par270 n77_FCC_ANT 13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PV2 BPSK	1	1	15.74	15.81	15.94	17.2	0.0	
100	PV2 BPSK	1	137	15.74	15.81	15.94			
100	PV2 BPSK	1	271	15.73	15.73	15.87			
100	PV2 BPSK	135	0	15.86	15.88	15.75	17.2	0.0	
100	PV2 BPSK	135	69	15.82	15.77	15.82	17.2	0.0	
100	PV2 BPSK	135	138	15.75	15.56	15.69	17.2	0.0	
100	PV2 BPSK	270	0	15.86	15.86	15.72	17.2	0.0	
100	QPSK	1	1	15.82	16.00	15.75			
100	QPSK	1	137	15.84	15.85	15.68			
100	QPSK	1	271	15.78	15.87	15.75	17.2	0.0	
100	QPSK	135	0	15.86	15.79	15.68			
100	QPSK	135	69	15.77	15.85	15.72			
100	QPSK	135	138	15.68	15.81	15.62	17.2	0.0	
100	QPSK	270	0	15.69	15.79	15.77	17.2	0.0	
100	BQAM	1	1	15.76	15.73	15.61	17.2	0.0	
100	BQAM	1	1	15.87	15.71	15.76	17.2	0.0	
100	256QAM	1	1	15.69	15.70	15.77	17.2	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.74	15.65	15.75	17.2	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.73	15.71	15.72	17.2	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.69	15.82	15.60	17.2	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.69	15.82	15.60	17.2	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.71	15.83	15.57	17.2	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.78	15.72	15.74	17.2	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.80	15.72	15.62	17.2	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.82	15.69	15.70	17.2	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.85	15.70	15.59	17.2	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.89	15.72	15.58	17.2	0.0	

Par270 n77 HPUE_FCC_ANT 13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PV2 BPSK	1	1	15.74	15.81	15.94	17.2	0.0	
100	PV2 BPSK	1	137	15.78	15.65	15.75			
100	PV2 BPSK	1	271	15.73	15.73	15.87			
100	PV2 BPSK	135	0	15.86	15.88	15.75	17.2	0.0	
100	PV2 BPSK	135	69	15.82	15.77	15.82	17.2	0.0	
100	PV2 BPSK	135	138	15.75	15.56	15.69	17.2	0.0	
100	PV2 BPSK	270	0	15.86	15.86	15.72	17.2	0.0	
100	QPSK	1	1	15.82	16.00	15.75			
100	QPSK	1	137	15.84	15.85	15.68			
100	QPSK	1	271	15.78	15.87	15.75	17.2	0.0	
100	QPSK	135	0	15.86	15.79	15.69			
100	QPSK	135	69	15.77	15.85	15.72			
100	QPSK	135	138	15.68	15.81	15.62	17.2	0.0	
100	QPSK	270	0	15.69	15.79	15.77	17.2	0.0	
100	BQAM	1	1	15.76	15.73	15.61	17.2	0.0	
100	BQAM	1	1	15.87	15.71	15.76	17.2	0.0	
100	256QAM	1	1	15.69	15.70	15.77	17.2	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.74	15.68	15.75	17.2	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.73	15.71	15.72	17.2	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.69	15.82	15.60	17.2	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.69	15.82	15.60	17.2	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.71	15.83	15.57	17.2	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.78	15.72	15.74	17.2	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.80	15.72	15.62	17.2	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.82	15.69	15.70	17.2	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.85	15.70	15.59	17.2	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.89	15.72	15.58	17.2	0.0	



Par27Q n77_FCC_ANT 13									
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		3499.98			
Frequency (MHz)				15.53					
100	PV2 BPSK	1	1	15.53	15.50		17.2	0.0	
100	PV2 BPSK	1	137	15.47	15.47				
100	PV2 BPSK	1	271	15.51	15.51				
100	PV2 BPSK	135	0	15.49	15.49		17.2	0.0	
100	PV2 BPSK	135	69	15.40	15.40				
100	PV2 BPSK	135	138	15.50	15.50				
100	PV2 BPSK	270	0	15.46	15.46		17.2	0.0	
100	QPSK	1	1	15.70	15.70				
100	QPSK	1	137	15.68	15.68				
100	QPSK	1	271	15.56	15.56		17.2	0.0	
100	QPSK	135	0	15.59	15.59				
100	QPSK	135	69	15.44	15.44				
100	QPSK	135	138	15.55	15.55		17.2	0.0	
100	QPSK	270	0	15.57	15.57				
100	16QAM	1	1	15.39	15.39		17.2	0.0	
100	16QAM	1	1	15.35	15.35				
100	256QAM	1	1	15.41	15.41				
Channel				633000	633332	633668	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	17.2	0.0	
90	QPSK	1	1	15.47	15.51	15.59	17.2	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3499.02	3499.98	3510	17.2	0.0	
80	QPSK	1	1	15.54	15.42	15.57	17.2	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3495.01	3499.98	3514.98	17.2	0.0	
70	QPSK	1	1	15.54	15.51	15.45	17.2	0.0	
Channel				632000	633332	634668	Tune-up limit	MPR	
Frequency (MHz)				3490	3499.98	3519.99	17.2	0.0	
60	QPSK	1	1	15.58	15.53	15.56	17.2	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	17.2	0.0	
50	QPSK	1	1	15.58	15.49	15.41	17.2	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3528.99	17.2	0.0	
40	QPSK	1	1	15.59	15.40	15.43	17.2	0.0	
Channel				631000	633332	635668	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	17.2	0.0	
30	QPSK	1	1	15.54	15.36	15.54	17.2	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	17.2	0.0	
20	QPSK	1	1	15.53	15.43	15.48	17.2	0.0	
Channel				630300	633332	636166	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3499.98	3542.45	17.2	0.0	
15	QPSK	1	1	15.56	15.46	15.40	17.2	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	17.2	0.0	
10	QPSK	1	1	15.57	15.52	15.51	17.2	0.0	

Par27Q n77 HPUE_FCC_ANT 13									
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		3499.98			
Frequency (MHz)				15.50					
100	PV2 BPSK	1	1	15.50	15.47		17.2	0.0	
100	PV2 BPSK	1	137	15.51	15.51				
100	PV2 BPSK	1	271	15.51	15.51				
100	PV2 BPSK	135	0	15.49	15.49		17.2	0.0	
100	PV2 BPSK	135	69	15.40	15.40				
100	PV2 BPSK	135	138	15.50	15.50				
100	PV2 BPSK	270	0	15.46	15.46		17.2	0.0	
100	QPSK	1	1	15.70	15.70				
100	QPSK	1	137	15.68	15.68				
100	QPSK	1	271	15.56	15.56		17.2	0.0	
100	QPSK	135	0	15.59	15.59				
100	QPSK	135	69	15.44	15.44				
100	QPSK	135	138	15.55	15.55		17.2	0.0	
100	QPSK	270	0	15.57	15.57				
100	16QAM	1	1	15.39	15.39		17.2	0.0	
100	64QAM	1	1	15.36	15.36				
100	256QAM	1	1	15.41	15.41				
Channel				633000	633332	633668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3495	3499.98	3504.99	17.2	0.0	
90	QPSK	1	1	15.47	15.51	15.59	17.2	0.0	
Channel				632668	633332	634000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3499.02	3499.98	3510	17.2	0.0	
80	QPSK	1	1	15.54	15.42	15.57	17.2	0.0	
Channel				632334	633332	634332	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3495.01	3499.98	3514.98	17.2	0.0	
70	QPSK	1	1	15.54	15.51	15.45	17.2	0.0	
Channel				632000	633332	634668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3490	3499.98	3519.99	17.2	0.0	
60	QPSK	1	1	15.58	15.53	15.56	17.2	0.0	
Channel				631668	633332	635000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3475.02	3499.98	3525	17.2	0.0	
50	QPSK	1	1	15.58	15.49	15.41	17.2	0.0	
Channel				631334	633332	635332	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3470.01	3499.98	3528.99	17.2	0.0	
40	QPSK	1	1	15.59	15.40	15.43	17.2	0.0	
Channel				631000	633332	635668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3465	3499.98	3534.99	17.2	0.0	
30	QPSK	1	1	15.54	15.36	15.54	17.2	0.0	
Channel				630668	633332	636000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3460.02	3499.98	3540	17.2	0.0	
20	QPSK	1	1	15.53	15.43	15.48	17.2	0.0	
Channel				630300	633332	636166	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3457.5	3499.98	3542.45	17.2	0.0	
15	QPSK	1	1	15.56	15.46	15.40	17.2	0.0	
Channel				630334	633332	636332	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3455.01	3499.98	3544.98	17.2	0.0	
10	QPSK	1	1	15.57	15.52	15.51	17.2	0.0	



Par270 n77_FCC_ANT 13								
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	17.2	0.0
Frequency (MHz)				3750	3860	3900		
100	QPSK	1	1	15.77	15.83	15.56		
100	QPSK	1	137	15.66	15.73	15.57		
100	QPSK	1	271	15.60	15.74	15.59		
100	QPSK	137	0	15.42	15.62	15.56	17.2	0.0
100	QPSK	137	68	15.77	15.88	15.72		
100	QPSK	137	138	15.66	15.79	15.64		
100	QPSK	271	0	15.53	15.65	15.65		
100	16QAM	1	1	15.74	15.64	15.58		
100	16QAM	1	1	15.57	15.58	15.76	17.2	0.0
100	256QAM	1	1	15.65	15.59	15.60		
Channel				649668	650000	662332	Tune-up limit (dBm)	MPR
Frequency (MHz)				3745.02	3860	3933.99	(dBm)	(dB)
90	QPSK	1	1	15.83	15.73	15.52	17.2	0.0
Channel				648334	650000	662066		
Frequency (MHz)				3743.03	3860	3928.99		
80	QPSK	1	1	15.88	15.83	15.64		
Channel				649000	650000	663000		
Frequency (MHz)				3745	3860	3945	17.2	0.0
70	QPSK	1	1	15.69	15.67	15.56		
Channel				648668	650000	663332		
Frequency (MHz)				3739.02	3860	3949.98		
60	QPSK	1	1	15.69	15.62	15.64		
Channel				648334	650000	663666	17.2	0.0
Frequency (MHz)				3725.01	3860	3954.99		
50	QPSK	1	1	15.83	15.73	15.65		
Channel				646000	650000	664000		
Frequency (MHz)				3720	3860	3960		
40	QPSK	1	1	15.74	15.70	15.66	17.2	0.0
Channel				645668	650000	664332		
Frequency (MHz)				3715.02	3840.00	3964.98		
30	QPSK	1	1	15.73	15.62	15.50		
Channel				3710.01	3860	3969.99		
Frequency (MHz)				15.76	15.68	15.65	17.2	0.0
20	QPSK	1	1	15.76	15.60	15.65		
Channel				647168	650000	664632		
Frequency (MHz)				3707.52	3860	3972.48		
15	QPSK	1	1	15.77	15.70	15.61		
Channel				647000	650000	665000	17.2	0.0
Frequency (MHz)				3705	3860	3975		
10	QPSK	1	1	15.77	15.68	15.59		

Par27Q n77_FCC_ANT 13								
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	17.2	0.0
Frequency (MHz)				3499.98				
100	QPSK	1	1	15.63	15.63			
100	QPSK	1	137	15.63	15.63			
100	QPSK	1	271	15.63	15.63			
100	QPSK	137	0	15.45	15.45		17.2	0.0
100	QPSK	137	68	15.77	15.49			
100	QPSK	137	138	15.66	15.42			
100	QPSK	271	0	15.38	15.38			
100	16QAM	1	1	15.23	15.23			
100	16QAM	1	1	15.24	15.24		17.2	0.0
100	256QAM	1	1	15.27	15.27			
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)
90	QPSK	1	1	15.57	15.49	15.57	17.2	0.0
Channel				632668	633332	634000		
Frequency (MHz)				3492.00	3499.98	3502		
80	QPSK	1	1	15.62	15.42	15.48		
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98	17.2	0.0
70	QPSK	1	1	15.51	15.62	15.56		
Channel				632000	633332	634666		
Frequency (MHz)				3480	3499.98	3519.98		
60	QPSK	1	1	15.46	15.51	15.73		
Channel				631668	633332	635000	17.2	0.0
Frequency (MHz)				3475.02	3499.98	3525		
50	QPSK	1	1	15.43	15.41	15.68		
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	QPSK	1	1	15.50	15.52	15.72	17.2	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.99		
30	QPSK	1	1	15.62	15.51	15.60		
Channel				3460.02	3499.98	3540		
Frequency (MHz)				15.48	15.41	15.62	17.2	0.0
20	QPSK	1	1	15.48	15.41	15.62		
Channel				630700	633332	636000		
Frequency (MHz)				3457.5	3499.98	3542.48		
15	QPSK	1	1	15.43	15.48	15.60		
Channel				630334	633332	636332	17.2	0.0
Frequency (MHz)				3455.01	3499.98	3544.98		
10	QPSK	1	1	15.58	15.52	15.47		



Par270 n78_FCC_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				650000					
Frequency (MHz)				3750					
100	PV2 BPSK	1	1	13.87	13.84		15.2	0.0	
100	PV2 BPSK	1	137	13.87	13.84				
100	PV2 BPSK	1	271	13.89	13.89				
100	PV2 BPSK	135	0	13.86	13.86	0	15.2	0.0	
100	PV2 BPSK	135	69	14.00	14.00	0	15.2	0.0	
100	PV2 BPSK	135	138	13.73	13.73	0	15.2	0.0	
100	PV2 BPSK	270	0	13.64	13.64	0	15.2	0.0	
100	QPSK	1	1	14.19	13.88				
100	QPSK	1	137	13.88	13.88				
100	QPSK	1	271	13.66	13.66		15.2	0.0	
100	QPSK	135	0	13.89	13.89	0			
100	QPSK	135	69	13.98	13.98	0			
100	QPSK	135	138	13.68	13.68	0	15.2	0.0	
100	QPSK	270	0	14.07	14.07	0	15.2	0.0	
100	8QAM	1	1	13.99	13.99	0	15.2	0.0	
100	8QAM	1	1	13.78	13.78	0	15.2	0.0	
100	256QAM	1	1	13.83	13.83	0	15.2	0.0	
Channel				649668	650000	650332			
Frequency (MHz)				3745.02	3750	3754.98			
90	QPSK	1	1	13.93	13.67	13.83	15.2	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99			
80	QPSK	1	1	13.92	13.84	13.84	15.2	0.0	
Channel				650000	650000	650000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	13.92	13.90	13.97	15.2	0.0	
Channel				648668	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3769.98			
60	QPSK	1	1	13.76	13.59	13.74	15.2	0.0	
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1	13.78	13.78	13.78	15.2	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	13.90	13.82	13.83	15.2	0.0	
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750.00	3784.98			
30	QPSK	1	1	13.83	13.92	13.84	15.2	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.99			
20	QPSK	1	1	13.84	13.99	13.82	15.2	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	13.83	13.96	13.89	15.2	0.0	

Par270 n78 HPUE_FCC_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				650000					
Frequency (MHz)				3750					
100	PV2 BPSK	1	1	13.87	13.84		15.2	0.0	
100	PV2 BPSK	1	137	13.87	13.84				
100	PV2 BPSK	1	271	13.89	13.89				
100	PV2 BPSK	135	0	13.86	13.86	0	15.2	0.0	
100	PV2 BPSK	135	69	14.00	14.00	0	15.2	0.0	
100	PV2 BPSK	135	138	13.73	13.73	0	15.2	0.0	
100	PV2 BPSK	270	0	13.64	13.64	0	15.2	0.0	
100	QPSK	1	1	14.19	13.88				
100	QPSK	1	137	13.88	13.88				
100	QPSK	1	271	13.66	13.66		15.2	0.0	
100	QPSK	135	0	13.89	13.89	0			
100	QPSK	135	69	13.98	13.98	0			
100	QPSK	135	138	13.68	13.68	0	15.2	0.0	
100	QPSK	270	0	14.07	14.07	0	15.2	0.0	
100	16QAM	1	1	13.99	13.99	0	15.2	0.0	
100	64QAM	1	1	13.78	13.78	0	15.2	0.0	
100	256QAM	1	1	13.83	13.83	0	15.2	0.0	
Channel				649668	650000	650332			
Frequency (MHz)				3745.02	3750	3754.98			
90	QPSK	1	1	13.93	13.67	13.83	15.2	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99			
80	QPSK	1	1	13.92	13.84	13.84	15.2	0.0	
Channel				650000	650000	650000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	13.92	13.90	13.97	15.2	0.0	
Channel				648668	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3769.98			
60	QPSK	1	1	13.76	13.59	13.74	15.2	0.0	
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1	13.78	13.78	13.78	15.2	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	13.90	13.82	13.83	15.2	0.0	
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750.00	3784.98			
30	QPSK	1	1	13.83	13.92	13.84	15.2	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.99			
20	QPSK	1	1	13.84	13.99	13.82	15.2	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	13.83	13.96	13.89	15.2	0.0	



Par27Q n78_FCC_ANT 6

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				633332				
Frequency (MHz)				3499.98				
100	PV2 BPSK	1	1	14.01			15.2	0.0
100	PV2 BPSK	1	137	13.91				
100	PV2 BPSK	1	271	13.85				
100	PV2 BPSK	135	0	13.83			15.2	0.0
100	PV2 BPSK	135	69	14.08			15.2	0.0
100	PV2 BPSK	135	138	13.88			15.2	0.0
100	PV2 BPSK	270	0	13.71			15.2	0.0
100	QPSK	1	1	14.09				
100	QPSK	1	137	13.84			15.2	0.0
100	QPSK	1	271	13.72				
100	QPSK	135	0	13.93				
100	QPSK	135	69	13.99			15.2	0.0
100	QPSK	135	138	13.81			15.2	0.0
100	QPSK	270	0	13.79			15.2	0.0
100	8QAM	1	1	13.98			15.2	0.0
100	8QAM	1	1	13.85			15.2	0.0
100	256QAM	1	1	13.88			15.2	0.0
Channel				633000	633332	633668	Tune-up limit	MPR
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)
90	QPSK	1	1	13.88	13.81	13.72	15.2	0.0
Channel				633332	633332	634000	Tune-up limit	MPR
Frequency (MHz)				3499.02	3499.98	3510	(dBm)	(dB)
80	QPSK	1	1	13.97	13.71	13.72	15.2	0.0
Channel				632334	633332	634332	Tune-up limit	MPR
Frequency (MHz)				3495.01	3499.98	3514.98	(dBm)	(dB)
70	QPSK	1	1	14.01	13.72	13.70	15.2	0.0
Channel				632000	633332	634668	Tune-up limit	MPR
Frequency (MHz)				3490	3499.98	3519.99	(dBm)	(dB)
60	QPSK	1	1	13.99	13.73	13.71	15.2	0.0
Channel				631668	633332	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)
50	QPSK	1	1	13.15	13.72	13.67	15.2	0.0
Channel				631334	633332	635332	Tune-up limit	MPR
Frequency (MHz)				3470.01	3499.98	3520.99	(dBm)	(dB)
40	QPSK	1	1	13.19	13.72	13.67	15.2	0.0
Channel				631000	633332	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3499.98	3524.99	(dBm)	(dB)
30	QPSK	1	1	13.94	13.83	13.71	15.2	0.0
Channel				630668	633332	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3499.98	3520	(dBm)	(dB)
20	QPSK	1	1	13.95	13.89	13.85	15.2	0.0
Channel				630334	633332	636332	Tune-up limit	MPR
Frequency (MHz)				3455.01	3499.98	3524.98	(dBm)	(dB)
10	QPSK	1	1	13.95	13.81	13.68	15.2	0.0

Par27Q n78 HPUE_FCC_ANT 6

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				633332				
Frequency (MHz)				3499.98				
100	PV2 BPSK	1	1	14.01			15.2	0.0
100	PV2 BPSK	1	137	13.91				
100	PV2 BPSK	1	271	13.85				
100	PV2 BPSK	135	0	13.83		15.2	0.0	
100	PV2 BPSK	135	69	14.08		15.2	0.0	
100	PV2 BPSK	135	138	13.88			15.2	0.0
100	PV2 BPSK	270	0	13.71			15.2	0.0
100	QPSK	1	1	14.09				
100	QPSK	1	137	13.84			15.2	0.0
100	QPSK	1	271	13.72				
100	QPSK	135	0	13.93				
100	QPSK	135	69	13.99			15.2	0.0
100	QPSK	135	138	13.81			15.2	0.0
100	QPSK	270	0	13.79			15.2	0.0
100	16QAM	1	1	13.98			15.2	0.0
100	64QAM	1	1	13.86			15.2	0.0
100	256QAM	1	1	13.88			15.2	0.0
Channel				633000	633332	633668	Tune-up limit	MPR
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)
90	QPSK	1	1	13.88	14.01	13.72	15.2	0.0
Channel				633332	633332	634000	Tune-up limit	MPR
Frequency (MHz)				3499.02	3499.98	3510	(dBm)	(dB)
80	QPSK	1	1	13.97	13.71	13.72	15.2	0.0
Channel				632334	633332	634332	Tune-up limit	MPR
Frequency (MHz)				3488.01	3499.98	3514.98	(dBm)	(dB)
70	QPSK	1	1	14.01	13.72	13.70	15.2	0.0
Channel				632000	633332	634668	Tune-up limit	MPR
Frequency (MHz)				3490	3499.98	3519.99	(dBm)	(dB)
60	QPSK	1	1	13.99	13.73	13.71	15.2	0.0
Channel				631668	633332	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)
50	QPSK	1	1	13.15	13.72	13.67	15.2	0.0
Channel				631334	633332	635332	Tune-up limit	MPR
Frequency (MHz)				3470.01	3499.98	3520.99	(dBm)	(dB)
40	QPSK	1	1	13.19	13.72	13.67	15.2	0.0
Channel				631000	633332	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3499.98	3524.99	(dBm)	(dB)
30	QPSK	1	1	13.94	13.83	13.71	15.2	0.0
Channel				630668	633332	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3499.98	3520	(dBm)	(dB)
20	QPSK	1	1	13.95	13.89	13.85	15.2	0.0
Channel				630334	633332	636332	Tune-up limit	MPR
Frequency (MHz)				3455.01	3499.98	3524.98	(dBm)	(dB)
10	QPSK	1	1	13.95	13.81	13.68	15.2	0.0



Par27O n78_FCC_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				650000			15.2	0.0
Frequency (MHz)				3750				
100	QPSK	1	1	14.02	14.02		15.2	0.0
100	QPSK	1	137	13.85				
100	QPSK	1	271	13.66				
100	QPSK	137	0	13.89				
100	QPSK	137	68	13.55			15.2	0.0
100	QPSK	137	136	13.54				
100	QPSK	271	0	13.85				
100	16QAM	1	1	13.75				
100	16QAM	1	1	13.65			15.2	0.0
100	256QAM	1	1	13.73			15.2	0.0
Channel				649668	650000	650332	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)
90	QPSK	1	1	14.07	14.07	13.69	15.2	0.0
Channel				648334	650000	650666	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.99	(dBm)	(dB)
80	QPSK	1	1	13.88	13.88	13.95	15.2	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1	13.79	14.01	13.91	15.2	0.0
Channel				649668	650000	651332	Tune-up limit	MPR
Frequency (MHz)				3742.02	3750	3760.98	(dBm)	(dB)
60	QPSK	1	1	13.90	14.10	13.96	15.2	0.0
Channel				648334	650000	651666	Tune-up limit	MPR
Frequency (MHz)				3737.01	3750	3774.99	(dBm)	(dB)
50	QPSK	1	1	13.89	14.16	13.91	15.2	0.0
Channel				649668	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3740	3750	3760	(dBm)	(dB)
40	QPSK	1	1	13.90	14.07	13.91	15.2	0.0
Channel				647668	650000	652332	Tune-up limit	MPR
Frequency (MHz)				3735.02	3750.00	3784.98	(dBm)	(dB)
30	QPSK	1	1	13.88	14.19	14.03	15.2	0.0
Channel				647334	650000	652666	Tune-up limit	MPR
Frequency (MHz)				3730.01	3750	3796.99	(dBm)	(dB)
20	QPSK	1	1	13.92	14.05	14.00	15.2	0.0
Channel				647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)
10	QPSK	1	1	13.90	14.17	14.05	15.2	0.0

Par27Q n78_FCC_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			15.2	0.0
Frequency (MHz)				3499.98				
100	QPSK	1	1	14.05			15.2	0.0
100	QPSK	1	137	13.70				
100	QPSK	1	271	13.67				
100	QPSK	137	0	13.84				
100	QPSK	137	68	13.93			15.2	0.0
100	QPSK	137	136	13.64				
100	QPSK	271	0	13.67				
100	16QAM	1	1	13.80				
100	64QAM	1	1	13.73			15.2	0.0
100	256QAM	1	1	13.73			15.2	0.0
Channel				633000	633332	633666	Tune-up limit	MPR
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)
80	QPSK	1	1	13.96	13.88	14.00	15.2	0.0
Channel				632668	633332	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3499.98	3510	(dBm)	(dB)
80	QPSK	1	1	13.94	13.88	13.94	15.2	0.0
Channel				632334	633332	634332	Tune-up limit	MPR
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)
70	QPSK	1	1	13.94	13.88	13.94	15.2	0.0
Channel				632000	633332	634666	Tune-up limit	MPR
Frequency (MHz)				3480	3499.98	3519.98	(dBm)	(dB)
60	QPSK	1	1	13.96	13.93	14.02	15.2	0.0
Channel				631668	633332	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)
50	QPSK	1	1	13.94	13.84	14.03	15.2	0.0
Channel				631334	633332	635332	Tune-up limit	MPR
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)
40	QPSK	1	1	13.93	13.93	14.04	15.2	0.0
Channel				631000	633332	635666	Tune-up limit	MPR
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)
30	QPSK	1	1	13.86	13.81	14.13	15.2	0.0
Channel				630668	633332	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)
20	QPSK	1	1	13.86	13.82	14.13	15.2	0.0
Channel				630334	633332	636332	Tune-up limit	MPR
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)	(dB)
10	QPSK	1	1	13.87	13.88	14.12	15.2	0.0



Par270 n78_FCC_ANT 13								
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			
Frequency (MHz)					15.68			
100	PV2 BPSK	1	1		15.68		17.2	0.0
100	PV2 BPSK	1	137		15.71			
100	PV2 BPSK	1	271		15.62			
100	PV2 BPSK	135	0		15.69		17.2	0.0
100	PV2 BPSK	135	69		15.57			
100	PV2 BPSK	135	138		15.58		17.2	0.0
100	PV2 BPSK	270	0		15.85			
100	QPSK	1	1		15.68		17.2	0.0
100	QPSK	1	137		15.67			
100	QPSK	1	271		15.68			
100	QPSK	135	0		15.62		17.2	0.0
100	QPSK	135	69		15.68			
100	QPSK	135	138		15.60		17.2	0.0
100	QPSK	270	0		15.59			
100	8QAM	1	1		15.68		17.2	0.0
100	8QAM	1	1		15.61			
100	256QAM	1	1		15.31		17.2	0.0
Channel				648068	650000	650332		
Frequency (MHz)				3745.02	3750	3754.98		
90	QPSK	1	1		15.55	15.68	17.2	0.0
Channel				647334	650000	650666		
Frequency (MHz)				3740.01	3750	3759.99		
80	QPSK	1	1		15.53	15.60	17.2	0.0
Channel				650000	650000	650000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1		15.54	15.73	17.2	0.0
Channel				648068	650000	651332		
Frequency (MHz)				3730.02	3750	3769.98		
60	QPSK	1	1		15.12	15.64	17.2	0.0
Channel				648334	650000	651666		
Frequency (MHz)				3725.01	3750	3774.99		
50	QPSK	1	1		15.07	15.73	17.2	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1		15.06	15.56	17.2	0.0
Channel				647668	650000	652332		
Frequency (MHz)				3715.02	3750	3784.98		
30	QPSK	1	1		15.55	15.60	17.2	0.0
Channel				647334	650000	650666		
Frequency (MHz)				3710.01	3750	3789.99		
20	QPSK	1	1		15.84	15.58	17.2	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1		15.85	15.65	17.2	0.0

Par270 n78 HPUE_FCC_ANT 13								
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			
Frequency (MHz)					15.68			
100	PV2 BPSK	1	1		15.68		17.2	0.0
100	PV2 BPSK	1	137		15.71			
100	PV2 BPSK	1	271		15.62			
100	PV2 BPSK	135	0		15.69		17.2	0.0
100	PV2 BPSK	135	69		15.57			
100	PV2 BPSK	135	138		15.58		17.2	0.0
100	PV2 BPSK	270	0		15.85			
100	QPSK	1	1		15.68		17.2	0.0
100	QPSK	1	137		15.67			
100	QPSK	1	271		15.68			
100	QPSK	135	0		15.62		17.2	0.0
100	QPSK	135	69		15.68			
100	QPSK	135	138		15.60		17.2	0.0
100	QPSK	270	0		15.59			
100	16QAM	1	1		15.68		17.2	0.0
100	64QAM	1	1		15.61			
100	256QAM	1	1		15.31		17.2	0.0
Channel				648068	650000	650332		
Frequency (MHz)				3745.02	3750	3754.98		
90	QPSK	1	1		15.55	15.68	17.2	0.0
Channel				647334	650000	650666		
Frequency (MHz)				3740.01	3750	3759.99		
80	QPSK	1	1		15.53	15.60	17.2	0.0
Channel				650000	650000	650000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1		15.54	15.73	17.2	0.0
Channel				648068	650000	651332		
Frequency (MHz)				3730.02	3750	3769.98		
60	QPSK	1	1		15.12	15.64	17.2	0.0
Channel				648334	650000	651666		
Frequency (MHz)				3725.01	3750	3774.99		
50	QPSK	1	1		15.07	15.73	17.2	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1		15.06	15.56	17.2	0.0
Channel				647668	650000	652332		
Frequency (MHz)				3715.02	3750	3784.98		
30	QPSK	1	1		15.55	15.60	17.2	0.0
Channel				647334	650000	650666		
Frequency (MHz)				3710.01	3750	3789.99		
20	QPSK	1	1		15.84	15.58	17.2	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1		15.85	15.65	17.2	0.0



Par27Q n78_FCC_ANT 13									
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	15.53					
100	PV2 BPSK	1	137	15.47					
100	PV2 BPSK	1	271	15.47			17.2	0.0	
100	PV2 BPSK	135	0	15.28			17.2	0.0	
100	PV2 BPSK	135	69	15.27			17.2	0.0	
100	PV2 BPSK	135	138	15.25			17.2	0.0	
100	PV2 BPSK	270	0	15.42					
100	QPSK	1	1	15.60					
100	QPSK	1	137	15.58			17.2	0.0	
100	QPSK	1	271	15.53					
100	QPSK	135	0	15.38					
100	QPSK	135	69	15.49			17.2	0.0	
100	QPSK	135	138	15.21					
100	QPSK	270	0	15.43			17.2	0.0	
100	BQAM	1	1	15.37			17.2	0.0	
100	BQAM	1	1	15.44			17.2	0.0	
100	256QAM	1	1	15.30			17.2	0.0	
Channel				633000	633332	633668	Tune-up limit	15.48	(dB)
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1	15.42	15.47	15.58	17.2	0.0	
Channel				632668	633332	634000	Tune-up limit	15.48	(dB)
Frequency (MHz)				3499.02	3499.98	3510			
80	QPSK	1	1	15.53	15.44	15.60	17.2	0.0	
Channel				632334	633332	634332	Tune-up limit	15.48	(dB)
Frequency (MHz)				3495.01	3499.98	3514.98			
70	QPSK	1	1	15.59	15.33	15.60	17.2	0.0	
Channel				632000	633332	634668	Tune-up limit	MPR	
Frequency (MHz)				3490	3499.98	3518.99			
60	QPSK	1	1	15.52	15.53	15.57	17.2	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	15.54	15.49	15.43	17.2	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3520.99			
40	QPSK	1	1	15.52	15.52	15.50	17.2	0.0	
Channel				631000	633332	635668	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3524.99			
30	QPSK	1	1	15.42	15.50	15.55	17.2	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3520			
20	QPSK	1	1	15.45	15.50	15.45	17.2	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3514.98			
10	QPSK	1	1	15.59	15.36	15.55	17.2	0.0	

Par27Q n78 HPUE_FCC_ANT 13									
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	15.58					
100	PV2 BPSK	1	137	15.47					
100	PV2 BPSK	1	271	15.47			17.2	0.0	
100	PV2 BPSK	135	0	15.28			17.2	0.0	
100	PV2 BPSK	135	69	15.27			17.2	0.0	
100	PV2 BPSK	135	138	15.25			17.2	0.0	
100	PV2 BPSK	270	0	15.42					
100	QPSK	1	1	15.60					
100	QPSK	1	137	15.58			17.2	0.0	
100	QPSK	1	271	15.53					
100	QPSK	135	0	15.38					
100	QPSK	135	69	15.49			17.2	0.0	
100	QPSK	135	138	15.21					
100	QPSK	270	0	15.43			17.2	0.0	
100	BQAM	1	1	15.37			17.2	0.0	
100	BQAM	1	1	15.44			17.2	0.0	
100	256QAM	1	1	15.30			17.2	0.0	
Channel				633000	633332	633668	Tune-up limit	15.48	(dB)
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1	15.42	15.47	15.58	17.2	0.0	
Channel				632668	633332	634000	Tune-up limit	15.48	(dB)
Frequency (MHz)				3499.02	3499.98	3510			
80	QPSK	1	1	15.53	15.44	15.60	17.2	0.0	
Channel				632334	633332	634332	Tune-up limit	15.48	(dB)
Frequency (MHz)				3495.01	3499.98	3514.98			
70	QPSK	1	1	15.59	15.33	15.60	17.2	0.0	
Channel				632000	633332	634668	Tune-up limit	MPR	
Frequency (MHz)				3490	3499.98	3518.99			
60	QPSK	1	1	15.52	15.53	15.57	17.2	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	15.54	15.49	15.43	17.2	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3520.99			
40	QPSK	1	1	15.52	15.52	15.50	17.2	0.0	
Channel				631000	633332	635668	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3524.99			
30	QPSK	1	1	15.42	15.50	15.55	17.2	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3520			
20	QPSK	1	1	15.45	15.50	15.45	17.2	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3514.98			
10	QPSK	1	1	15.59	15.36	15.55	17.2	0.0	



Par270 n78_FCC_ANT 13									
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				60000	3750				
100	QPSK	1	1	15.73			17.2	0.0	
100	QPSK	1	137	15.71					
100	QPSK	1	271	15.52					
100	QPSK	137	0	15.49					
100	QPSK	137	68	15.51			17.2	0.0	
100	QPSK	137	138	15.49					
100	QPSK	271	0	15.48					
100	16QAM	1	1	15.47					
100	16QAM	1	1	15.51			17.2	0.0	
100	256QAM	1	1	15.26			17.2	0.0	
Channel				649668	650000	650332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3750	3754.98	(dB)		
90	QPSK	1	1	15.52	15.67	15.68	17.2	0.0	
Channel				648334	650000	650666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3743.03	3750	3756.97	(dB)		
80	QPSK	1	1	15.70	15.61	15.52	17.2	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745	3750	3755	(dBm)		
70	QPSK	1	1	15.65	15.66	15.65	17.2	0.0	
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3743.02	3750	3756.98	(dBm)		
60	QPSK	1	1	15.61	15.57	15.67	17.2	0.0	
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3743.01	3750	3757.99	(dBm)		
50	QPSK	1	1	15.66	15.64	15.55	17.2	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740	3750	3760	(dBm)		
40	QPSK	1	1	15.68	15.59	15.53	17.2	0.0	
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3716.02	3750.00	3784.98	(dBm)		
30	QPSK	1	1	15.68	15.64	15.57	17.2	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3750	3789.99	(dBm)		
20	QPSK	1	1	15.61	15.66	15.59	17.2	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)		
10	QPSK	1	1	15.64	15.72	15.62	17.2	0.0	

Par27Q n78_FCC_ANT 13									
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	3499.98				
Frequency (MHz)				3499.98					
100	QPSK	1	1	15.68			17.2	0.0	
100	QPSK	1	137	15.47					
100	QPSK	1	271	15.41					
100	QPSK	137	0	15.25					
100	QPSK	137	68	15.39			17.2	0.0	
100	QPSK	137	138	15.15					
100	QPSK	271	0	15.26					
100	16QAM	1	1	15.27					
100	16QAM	1	1	15.41			17.2	0.0	
100	256QAM	1	1	15.12			17.2	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dBm)		
90	QPSK	1	1	15.46	15.42	15.58	17.2	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3493.00	3499.98	3506.98	(dBm)		
80	QPSK	1	1	15.46	15.40	15.50	17.2	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3490.51	3499.98	3514.98	(dBm)		
70	QPSK	1	1	15.48	15.49	15.45	17.2	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3488	3499.98	3519.98	(dBm)		
60	QPSK	1	1	15.39	15.42	15.52	17.2	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3475.50	3499.98	3525	(dBm)		
50	QPSK	1	1	15.48	15.40	15.56	17.2	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)		
40	QPSK	1	1	15.33	15.53	15.54	17.2	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)		
30	QPSK	1	1	15.49	15.50	15.37	17.2	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)		
20	QPSK	1	1	15.43	15.38	15.41	17.2	0.0	
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)		
10	QPSK	1	1	15.42	15.38	15.55	17.2	0.0	

Reduced Power Mode for DSI 9&14

GSM850_Ant 0		Burst Average Power (dBm)			Limit	Frame Average Power (dBm)			Limit
TX Channel		128	169	251	Limit	128	169	251	Limit
Frequency (MHz)		824.2	836.4	848.8	33.50	824.2	836.4	848.8	24.50
GSM 1 Tx slot		33.10	33.08	33.04	33.50	24.10	24.08	24.04	24.50
GPRS/EDGE(GMSK) 1 Tx slot		32.95	33.00	32.98	33.50	23.95	24.00	23.98	24.50
GPRS/EDGE(GMSK) 2 Tx slots		29.45	29.50	29.48	30.50	23.45	23.50	23.48	24.50
GPRS/EDGE(GMSK) 3 Tx slots		27.60	27.69	27.58	28.50	23.34	23.43	23.32	24.24
GPRS/EDGE(GMSK) 4 Tx slots		26.33	26.40	26.37	27.40	23.33	23.40	23.37	24.40
EDGE 1 Tx slot		26.23	26.08	26.25	27.50	17.23	17.08	17.25	18.50
EDGE 2 Tx slots		23.36	23.29	23.31	24.50	17.38	17.29	17.31	18.50
EDGE 3 Tx slots		21.38	21.41	21.33	22.70	17.12	17.15	17.07	18.44
EDGE 4 Tx slots		20.33	20.35	20.36	21.90	17.33	17.35	17.36	18.90
DTM Multi-slot class 5	GSM 1 Tx slot	29.29	29.33	29.32	30.50	23.30	23.32	23.30	24.48
	GPRS 1 Tx slot	29.35	29.36	29.33	30.50				
DTM Multi-slot class 9	GSM 1 Tx slot	29.32	29.34	29.33	30.50	23.30	23.33	23.36	24.48
	GPRS 1 Tx slot	29.34	29.36	29.44	30.50				
DTM Multi-slot class 11	GSM 1 Tx slot	27.72	27.78	27.64	28.50	23.41	23.49	23.40	24.24
	GPRS 2 Tx slots	27.65	27.74	27.67	28.50				
DTM Multi-slot class 11	GSM 1 Tx slot	29.44	29.40	29.47	30.50	21.30	21.25	21.31	22.44
	EDGE 1 Tx slot	23.04	22.92	22.96	24.50				
DTM Multi-slot class 9	GSM 1 Tx slot	29.50	29.39	29.51	30.50	21.36	21.25	21.34	22.44
	EDGE 1 Tx slot	23.05	22.99	22.94	24.50				
DTM Multi-slot class 11	GSM 1 Tx slot	27.66	27.74	27.62	28.50	20.23	20.28	20.16	21.30
	EDGE 2 Tx slots	21.14	21.11	20.99	22.70				

GSM1900_Ant 4		Burst Average Power (dBm)			Tune-up	Frame Average Power (dBm)			Tune-up	
TX Channel		Limit	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)		1850.2	1880	1909.8		(dBm)	1850.2	1880	1909.8	
DTM Multi-slot class 5	GSM 1 Tx slot	20.27	20.30	20.25	30.00		20.27	20.30	20.25	21.00
	GPRS/EDGE(GMSK) 1 Tx slot	29.26	29.22	29.20	30.00		20.26	20.22	20.20	21.00
	GPRS/EDGE(GMSK) 2 Tx slots	25.75	25.80	25.77	27.00		19.75	19.80	19.77	21.00
	GPRS/EDGE(GMSK) 3 Tx slots	23.99	23.96	23.99	25.20		19.73	19.70	19.73	20.94
	GPRS/EDGE(GMSK) 4 Tx slots	23.10	23.15	23.09	24.50		20.10	20.15	20.09	21.50
DTM Multi-slot class 9	EDGE 1 Tx slot	25.00	24.96	24.91	26.00		16.00	15.96	15.91	17.00
	EDGE 2 Tx slots	21.82	21.50	21.71	23.00		15.82	15.50	15.71	17.00
	EDGE 3 Tx slots	19.71	19.61	19.73	21.20		15.45	15.35	15.47	16.94
	EDGE 4 Tx slots	18.88	18.75	18.77	20.30		15.88	15.75	15.77	17.30
	GSM 1 Tx slot	25.64	25.70	25.64	27.00		19.64	19.64	19.60	20.98
DTM Multi-slot class 11	GPRS 1 Tx slot	25.68	25.63	25.60	27.00					
	GSM 1 Tx slot	25.67	25.75	25.67	27.00		19.67	19.74	19.59	20.98
	GPRS 1 Tx slot	25.76	25.77	25.61	27.00					
	GSM 1 Tx slot	23.97	23.89	24.02	25.20		19.70	19.72	19.71	20.94
	GPRS 2 Tx slots	23.96	24.02	23.95	25.20					
DTM Multi-slot class 11	GSM 1 Tx slot	25.78	25.76	25.84	27.00		18.15	18.01	18.16	19.42
	EDGE 1 Tx slot	21.58	21.12	21.45	23.00					
	GSM 1 Tx slot	25.73	25.78	25.78	27.00		18.10	18.05	18.12	19.42
	EDGE 1 Tx slot	21.54	21.23	21.47	23.00					
	GSM 1 Tx slot	23.97	24.00	24.05	25.20		17.27	17.20	17.28	18.71
DTM Multi-slot class 11	EDGE 2 Tx slots	19.48	19.26	19.38	21.20					

Band		WCDMA 8, Ant 4			Tune-up	WCDMA 8, Ant 5			Tune-up
TX Channel		9262	9400	9538	Limit	1312	1413	1513	Limit
Rx Channel		9662	9800	9938	Limit	1537	1638	1738	Limit
Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6		
3GPP Rel 99	AMR 12.2Kbps	22.62	22.66	22.63	23.50	22.77	22.80	22.76	23.50
	RMC 12.2Kbps	22.69	22.70	22.65	23.50	22.79	22.83	22.80	23.50
3GPP Rel 6	HSDPA Subtest-1	21.97	21.85	21.78	22.50	21.72	21.81	21.91	22.50
	HSDPA Subtest-2	21.97	21.84	21.77	22.50	21.75	21.85	21.94	22.50
3GPP Rel 6	HSDPA Subtest-3	21.49	21.34	21.28	22.00	21.26	21.33	21.38	22.00
	HSDPA Subtest-4	21.47	21.29	21.27	22.00	21.22	21.32	21.40	22.00
3GPP Rel 8	DC-HSDPA Subtest-1	21.95	21.81	21.77	22.50	21.70	21.78	21.83	22.50
	DC-HSDPA Subtest-2	21.93	21.77	21.68	22.50	21.72	21.78	21.93	22.50
3GPP Rel 8	DC-HSDPA Subtest-3	21.38	21.33	21.28	22.00	21.17	21.24	21.30	22.00
	DC-HSDPA Subtest-4	21.45	21.25	21.24	22.00	21.15	21.26	21.39	22.00
3GPP Rel 6	HSUPA Subtest-1	21.99	21.89	21.89	22.50	21.81	21.85	21.98	22.50
	HSUPA Subtest-2	20.03	19.93	19.89	20.50	19.76	19.88	20.02	20.50
3GPP Rel 6	HSUPA Subtest-3	20.00	19.93	19.88	20.50	19.88	19.87	19.99	20.50
	HSUPA Subtest-4	20.00	19.95	19.89	20.50	19.80	19.85	19.97	20.50
3GPP Rel 6	HSUPA Subtest-5	22.00	21.90	21.80	22.50	21.80	21.90	22.00	22.50
	HSUPA+ (16QAM) Subtest-1	19.92	20.02	19.95	20.50	20.00	20.06	20.03	20.50

Band		WCDMA V, Ant 0			Tune-up
TX Channel		4132	4182	4233	Limit
Rx Channel		4357	4407	4458	Limit
Frequency (MHz)		3234	3234	3234	
3GPP Rel 99	AMR 12.2Kbps	23.91	23.95	23.83	24.30
	RMC 12.2Kbps	23.96	23.99	23.92	24.30
3GPP Rel 6	HSDPA Subtest-1	23.06	23.02	22.96	23.30
	HSDPA Subtest-2	23.05	23.01	22.93	23.30
3GPP Rel 6	HSDPA Subtest-3	22.59	22.54	22.45	22.80
	HSDPA Subtest-4	22.56	22.48	22.40	22.80
3GPP Rel 8	DC-HSDPA Subtest-1	23.06	22.98	22.95	23.30
	DC-HSDPA Subtest-2	22.92	22.86	22.87	23.30
3GPP Rel 8	DC-HSDPA Subtest-3	22.55	22.44	22.43	22.80
	DC-HSDPA Subtest-4	22.40	22.38	22.43	22.80
3GPP Rel 6	HSUPA Subtest-1	22.86	22.99	22.95	23.30
	HSUPA Subtest-2	21.03	21.05	20.92	21.30
3GPP Rel 6	HSUPA Subtest-3	22.05	22.10	21.91	22.30
	HSUPA Subtest-4	20.75	20.97	20.91	21.30
3GPP Rel 6	HSUPA Subtest-5	22.70	23.00	22.90	23.30
	HSUPA+ (16QAM) Subtest-1	21.11	21.15	21.13	21.30

OSM850_Ant 1		Burst Average Power (dBm)			Tune-up	Frame-Average Power (dBm)			Tune-up
TX Channel		128	189	251	Limit	128	189	251	Limit
Frequency (MHz)		824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
GSM 1 Tx slot		33.2	33.3	33.2	34.00	24.30	24.33	24.29	25.00
GPRS/EDGE(GMSK) 1 Tx slot		33.20	33.22	33.20	34.00	24.22	24.26	24.26	25.00
GPRS/EDGE(GMSK) 2 Tx slots		29.80	29.85	29.77	31.00	23.80	23.85	23.77	25.00
GPRS/EDGE(GMSK) 3 Tx slots		27.86	28.00	27.90	29.20	23.60	23.74	23.64	24.94
GPRS/EDGE(GMSK) 4 Tx slots		26.89	27.00	26.92	28.50	23.89	24.00	23.92	25.50
EDGE 1 Tx slot		26.71	26.59	26.57	28.00	17.71	17.59	17.57	19.00
EDGE 2 Tx slots		23.72	23.51	23.79	25.00	17.72	17.51	17.79	19.00
EDGE 3 Tx slots		21.83	21.70	21.77	23.20	17.57	17.44	17.51	18.94
EDGE 4 Tx slots		20.91	20.80	20.74	22.50	17.91	17.80	17.74	19.50
DTM Multi-slot	GSM 1 Tx slot	29.70	29.84	29.72	31.00	23.64	23.77	23.66	24.98
	GPRS 1 Tx slot	29.63	29.75	29.64	31.00				
DTM Multi-slot	GSM 1 Tx slot	29.62	29.38	29.63	31.00	23.76	23.76	23.68	24.98
	GPRS 1 Tx slot	29.74	29.75	29.77	31.00				
DTM Multi-slot	GSM 1 Tx slot	27.95	28.04	27.97	29.20	23.70	23.81	23.68	24.94
	GPRS 2 Tx slots	27.96	28.09	27.92	29.20				
DTM Multi-slot	GSM 1 Tx slot	29.89	29.87	29.79	31.00	21.73	21.68	21.69	22.94
	EDGE 1 Tx slot	23.36	23.16	23.55	25.00				
DTM Multi-slot	GSM 1 Tx slot	29.74	29.70	29.74	31.00	21.68	21.63	21.64	22.94
	EDGE 1 Tx slot	23.35	23.25	23.53	25.00				
DTM Multi-slot	GSM 1 Tx slot	27.87	28.05	28.00	29.20	20.52	20.58	20.57	21.94
	EDGE 2 Tx slots	21.60	21.40	21.49	23.20				

GSM1900_Ant 5		Burst Average Power (dBm)			Tune-up	Frame Average Power (dBm)			Tune-up
TX Channel		512	661	810	Limit	512	661	810	Limit
Frequency (MHz)		130.05	130.10	130.18	(dBm)	1850.2	1880	1909.8	(dBm)
GSM 1 Tx slot		30.10	30.16	30.19	31.00	21.10	21.12	21.19	22.00
GPRS/EDGE(GMSK) 1 Tx slot		30.05	30.12	30.14	31.00	21.05	21.12	21.14	22.00
GPRS/EDGE(GMSK) 2 Tx slots		26.41	26.45	26.44	28.00	20.41	20.45	20.44	22.00
GPRS/EDGE(GMSK) 3 Tx slots		24.62	24.65	24.59	26.20	20.36	20.39	20.33	21.94
GPRS/EDGE(GMSK) 4 Tx slots		23.92	24.00	23.94	25.50	20.92	21.00	20.94	22.50
EDGE 1 Tx slot		26.04	26.22	26.12	27.00	17.04	17.22	17.12	18.00
EDGE 2 Tx slots		22.81	22.79	22.80	24.00	16.80	16.85	16.88	17.94
EDGE 3 Tx slots		20.83	20.81	20.74	22.20	16.57	16.55	16.48	17.94
EDGE 4 Tx slots		19.89	20.02	20.12	21.50	16.89	17.02	17.12	18.50
DTM Multi-slot	GSM 1 Tx slot	26.25	26.43	26.29	28.00	20.29	20.40	20.29	21.98
	GPRS 1 Tx slot	26.38	26.42	26.33	28.00	20.35	20.32	20.27	21.98
DTM Multi-slot	GSM 1 Tx slot	26.31	26.39	26.31	28.00	20.35	20.32	20.27	21.98
	GPRS 1 Tx slot	26.43	26.29	26.27	28.00	20.35	20.32	20.27	21.98
DTM Multi-slot	GSM 1 Tx slot	24.74	24.77	24.68	26.20	20.45	20.42	20.35	21.94
	GPRS 2 Tx slots	26.70	26.64	26.52	28.20	20.45	20.42	20.35	21.94
DTM Multi-slot	GSM 1 Tx slot	24.36	24.53	24.28	26.20	18.84	18.95	18.86	20.42
	EDGE 1 Tx slot	22.54	22.52	22.49	24.00	18.84	18.95	18.86	20.42
DTM Multi-slot	GSM 1 Tx slot	22.54	22.48	22.44	24.00	18.84	18.91	18.90	20.42
	EDGE 1 Tx slot	22.54	22.50	22.55	24.00	18.84	18.91	18.90	20.42
DTM Multi-slot	GSM 1 Tx slot	24.64	24.60	24.65	26.20	18.13	18.04	18.09	19.71
	EDGE 2 Tx slots	20.58	20.44	20.48	22.20				

[illegible][illegible][illegible][illegible]

[illegible][illegible]

Band 7_Ant 4									
Measurement	Measurement	Alt. Name	Alt. Name	Alt. Name	Alt. Name	Alt. Name	Alt. Name	Alt. Name	Alt. Name
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200
201	202	203	204	205	206	207	208	209	210
211	212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229	230
231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250
251	252	253	254	255	256	257	258	259	260
261	262	263	264	265	266	267	268	269	270
271	272	273	274	275	276	277	278	279	280
281	282	283	284	285	286	287	288	289	290
291	292	293	294	295	296	297	298	299	300
301	302	303	304	305	306	307	308	309	310
311	312	313	314	315	316	317	318	319	320
321	322	323	324	325	326	327	328	329	330
331	332	333	334	335	336	337	338	339	340
341	342	343	344	345	346	347	348	349	350
351	352	353	354	355	356	357	358	359	360
361	362	363	364	365	366	367	368	369	370
371	372	373	374	375	376	377	378	379	380
381	382	383	384	385	386	387	388	389	390
391	392	393	394	395	396	397	398	399	400
401	402	403	404	405	406	407	408	409	410
411	412	413	414	415	416	417	418	419	420
421	422	423	424	425	426	427	428	429	430
431	432	433	434	435	436	437	438	439	440
441	442	443	444	445	446	447	448	449	450
451	452	453	454	455	456	457	458	459	460
461	462	463	464	465	466	467	468	469	470
471	472	473	474	475	476	477	478	479	480
481	482	483	484	485	486	487	488	489	490
491	492	493	494	495	496	497	498	499	500
501	502	503	504	505	506	507	508	509	510
511	512	513	514	515	516	517	518	519	520
521	522	523	524	525	526	527	528	529	530
531	532	533	534	535	536	537	538	539	540
541	542	543	544	545	546	547	548	549	550
551	552	553	554	555	556	557	558	559	560
561	562	563	564	565	566	567	568	569	570
571	572	573	574	575	576	577	578	579	580
581	582	583	584	585	586	587	588	589	590
591	592	593	594	595	596	597	598	599	600
601	602	603	604	605	606	607	608	609	610
611	612	613	614	615	616	617	618	619	620
621	622	623	624	625	626	627	628	629	630
631	632	633	634	635	636	637	638	639	640
641	642	643	644	645	646	647	648	649	650
651	652	653	654	655	656	657	658	659	660
661	662	663	664	665	666	667	668	669	670
671	672	673	674	675	676	677	678	679	680
681	682	683	684	685	686	687	688	689	690
691	692	693	694	695	696	697	698	699	700
701	702	703	704	705	706	707	708	709	710
711	712	713	714	715	716	717	718	719	720
721	722	723	724	725	726	727	728	729	730
731	732	733	734	735	736	737	738	739	740
741	742	743	744	745	746	747	748	749	750
751	752	753	754	755	756	757	758	759	760
761	762	763	764	765	766	767	768	769	770
771	772	773	774	775	776	777	778	779	780
781	782	783	784	785	786	787	788	789	790
791	792	793	794	795	796	797	798	799	800
801	802	803	804	805	806	807	808	809	810
811	812	813	814	815	816	817	818	819	820
821	822	823	824	825	826	827	828	829	830
831	832	833	834	835	836	837	838	839	840
841	842	843	844	845	846	847	848	849	850
851	852	853	854	855	856	857	858	859	860
861	862	863	864	865	866	867	868	869	870
871	872	873	874	875	876	877	878	879	880
881	882	883	884	885	886	887	888	889	890
891	892	893	894	895	896	897	898	899	900
901	902	903	904	905	906	907	908	909	910
911	912	913	914	915	916	917	918	919	920
921	922	923	924	925	926	927	928	929	930
931	932	933	934	935	936	937	938	939	940
941	942	943	944	945	946	947	948	949	950
951	952	953	954	955	956	957	958	959	960
961	962	963	964	965	966	967	968	969	970
971	972	973	974	975	976	977	978	979	980
981	982	983	984	985	986	987	988	989	990
991	992	993	994	995	996	997	998	999	1000

[illegible]

[illegible]

[illegible][illegible][illegible]

[illegible][illegible][illegible][illegible]

[illegible][illegible][illegible]

